

## Summary Information

<b>Version Date:</b> July 2018	<b>Prepared by:</b> Nathan Medinski	<b>Reviewed by:</b> Marcel Macullo	<b>Approved by:</b> Curtis Brock
<b>Waterbody ID:</b> 5427	<b>Surface Area:</b> 113 ha	<b>Hydrologic Unit Code Name (HUC_8):</b> Dapp Creek	<b>Hydrologic Unit Code (HUC_8):</b> 17030302
<b>Sport Fish Species:</b> Northern Pike, Walleye, Yellow Perch, Burbot			
<b>Indigenous Fishery:</b> No			
<b>Environment and Parks Region:</b> Upper Athabasca Region (UAR)		<b>Fisheries Management Zone:</b> Northern Boreal (NB2)	<b>Fisheries Management Office:</b> Athabasca

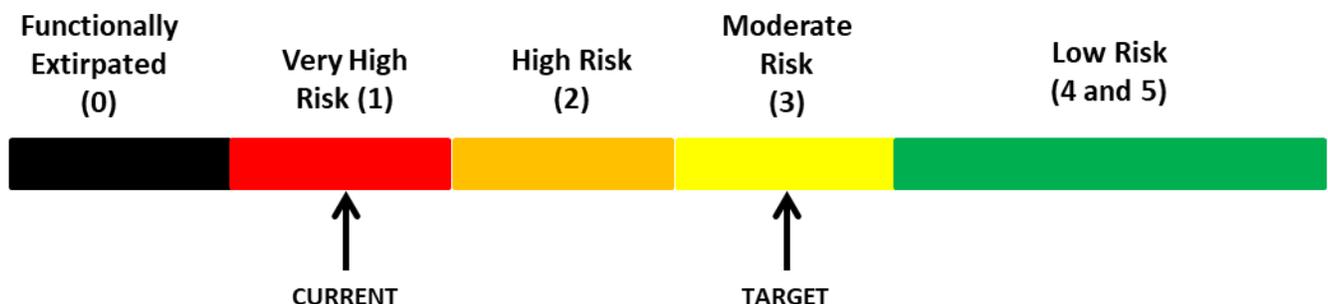
## Background

Narrow Lake is a small lake (113 ha) located approximately 35 km southwest of Athabasca and 155 km north of Edmonton. It supports a sport fishery for northern pike, yellow perch, burbot and occasionally walleye that likely receives moderate to high angling pressure due to the campground facilities, youth camps, clean and clear water and proximity to nearby communities and the greater Edmonton area. Narrow Lake was stocked in 1955 with 2,700,000 walleye fry and from 1967-1969 with Kokanee, in an effort to establish self-sustaining populations. However, all stocking events failed to succeed. Current observations and assessments have revealed that yellow perch do not reach sufficient sizes to be considered suitable for angling. Over the recent past, Long Lake has been managed with a Liberal Harvest Recreational Fisheries Management Objective (RFMO) for northern pike, however the 2018 assessments demonstrated that Narrow Lake is not meeting the requirements of a harvest objective for this species.

## Fish Population Status

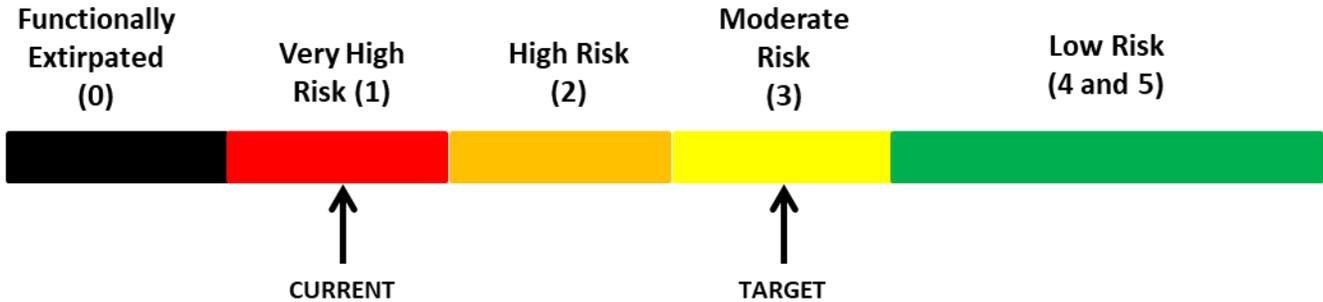
### Northern Pike – Adult Abundance

#### Fish Sustainability Index Adult Density Score



## Walleye – Adult Abundance

### Fish Sustainability Index Adult Density Score



**Yellow Perch – Adult Abundance – Undetermined**

**Burbot – Adult Abundance – Undetermined**

## Recreational Fishery Management Objectives

The **focal species** for recreational management is **Northern Pike**. The secondary species managed for recreational objectives are yellow perch, walleye and burbot. These sport-fisheries are not directly assessed at intervals, and therefore are passively managed. The **Overharvest Protection Need** is assessed as **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 (1)** to sustainability. The northern pike population is currently not meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action to reach this outcome is a **Catch and Release** regulation.

**Walleye** - The recreational fishery management objective for walleye is **Sustainable Harvest**. The corresponding FSI score for the current mature density of walleye was assessed as **Very High Risk (1)** to sustainability. The walleye population is currently not meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action to reach 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.

**Burbot** – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the burbot population has not been assessed. The current management action is a regulation of 10 burbot, any size.

## Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Northern Pike	High	Recovery	Catch and Release
2	Yellow Perch*	High	Maintenance – Sustainable Harvest	15 any size
3	Walleye	High	Recovery	Catch and Release
4	Burbot*	High	Maintenance – Sustainable Harvest	10 any size

*\*Recreational management objectives for 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.*