

Summary Information

Version Date: Sept 2018	Prepared by: Owen Watkins	Reviewed by: Stephen Spencer	Approved by: John Tchir – Resource Manager
Waterbody ID: 4027	Surface Area: 461 (Ha)	Hydrologic Unit Code Name (HUC_8): North Saskatchewan and Mann Lakes	Hydrologic Unit Code (HUC_8): 11040101
Sport Fish Species: Walleye, Northern Pike, and Yellow Perch			
Indigenous Fishery: No			
Environment and Parks Region: Red Deer North Saskatchewan Region (RDNSR)		Fisheries Management Zone: Northern Boreal 1 (NB1)	Fisheries Management Office: Spruce Grove

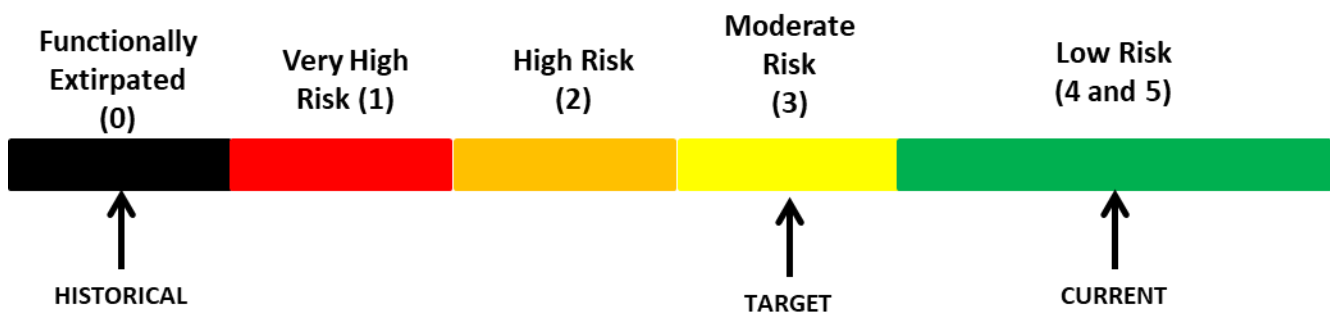
Background

Lac Bellevue is located approximately 180 km northeast of Edmonton, 25 km south of St. Paul, Alberta. Most of the shoreline and watershed are crown owned and most has been cleared for agriculture and cottage properties. Development near the shoreline consists of a summer village and two campgrounds. There are two access points, one each at the north and south end. Lac Bellevue supports a population of stocked Walleyes, Northern Pike and Yellow Perch. Prior to the 1970s walleye, did not occupy Lac Bellevue. In 1971, approximately 250 adult walleye from the Beaver River were stocked into Lac Bellevue. In 1991, 1992, and 1994 a total of 63,000 walleye fingerlings were stocked in effort to create a self-sustaining population. In 1996, the walleye and northern pike populations were classified as collapsed, and were managed under a catch-and-release angling regulation.

Fish Population Status

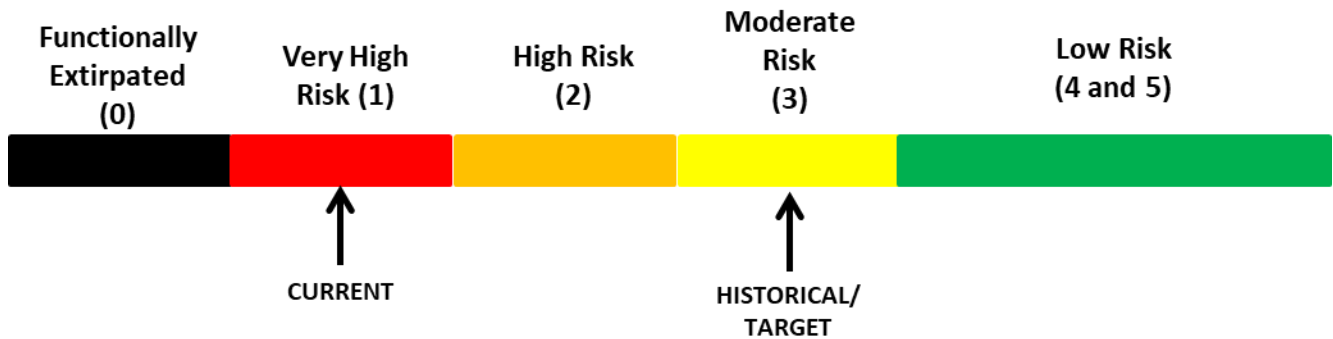
Walleye – Adult Abundance

Fish Sustainability Index Adult Density Score



Northern Pike – Adult Abundance

Fish Sustainability Index Adult Density Score



Recreational Fishery Management Objectives

The **focal species** for recreational management is **Walleye**. The secondary species managed for recreational objectives are northern pike, and yellow perch. These sport-fisheries are directly assessed at intervals, and therefore are **actively** managed. The **Overharvest Protection Need** is assessed as **Very High Risk**.

Walleye - The recreational fishery management objective for walleye is **Sustainable Harvest**. The corresponding FSI score for the current mature density of walleye was assessed at (5) **Low Risk** to sustainability. The walleye population is currently exceeding the status and criteria for the objective of a sustainable harvest fishery. The current management action is a **Maintenance** regulation of **Special Harvest Licence** is in place to reduce the overall density of walleye sustainably without increasing catch and release mortality on northern pike.

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 at (1) **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 current management action to maintain this objective is a **Recovery** regulation of **Catch and Release**.

Yellow Perch – The status of the yellow perch population has not been assessed. The current management action is a regulation of 10 yellow perch, any size.

Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
Primary	Walleye	Very High	Maintenance - Sustainable Harvest	Special Harvest Licence
Secondary	Northern Pike	Very High	Recovery	Catch and Release
Secondary	Yellow Perch*	Very High	Sustainable Harvest	10 any size

*Recreational management objectives for yellow perch 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 this species within the context of relative abundance, catch rates and trends associated with index netting assessments, in relation to the management of this species at a provincial level.