

Garnier Lake

Recreational Fisheries Management Objectives

Version Date: October 2017	Prepared by: R. Skarsen	Reviewed by: D. Latty	Approved by: Kathy Hendren
Waterbody ID: 4653	Surface Area: 298 (Ha)	Hydrologic Unit Code Name (HUC_8): Muriel Creek	Hydrologic Unit Code (HUC_8): 12020105
Sport Fish Species: Northern Pike, Yellow Perch			
Indigenous Fishery: None			
Environment and Parks Region: Lower Athabasca Region (LAR)	Fisheries Management Zone: Northern Boreal 1 (NB1)	Fisheries Management Office: Cold Lake	

Background

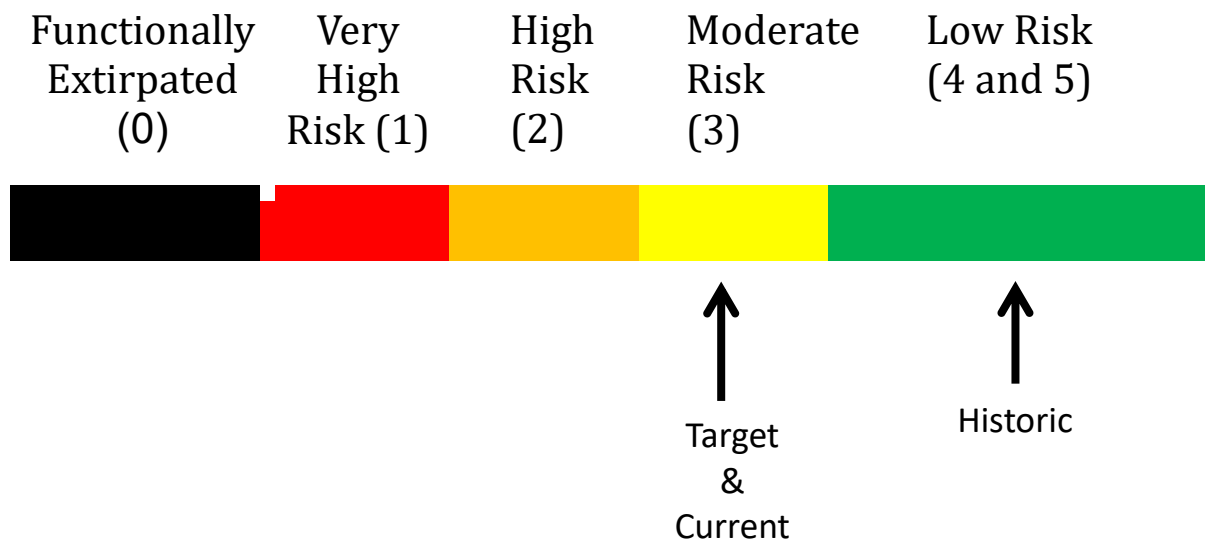
Garnier Lake is a moderately nutrient rich (mesotrophic) lake with a surface area of 298 ha, a mean depth of 6.5 m, and a maximum depth of 9.0 m. Decreasing water levels have been an issue for Garnier Lake. Maximum water levels were reached in 1979 and had declined by 3.26 m in 2004. The shoreline of Garnier Lake is undeveloped; however, the lake is surrounded by pipelines, well sites, and forested grazing leases.

Garnier Lake is closed to recreational angling from April 1st to May 14th of each year.

Section 1. Fish Population Status

Northern Pike – Adult Abundance

Fish Sustainable Index Adult Density Score



Yellow Perch – Adult Abundance – Undetermined

Section 2. Recreational Fishery Management Objectives and Management Summary

The current **focal species** for recreational management is **Northern Pike**. The secondary species managed for recreational objectives is currently Yellow Perch. These sport-fisheries are **passively managed**. The **Overharvest Protection Need** is assessed as **Moderate**.

Northern Pike – The current recreational fishery management objective for northern pike is **Sustainable Harvest**. The corresponding FSI score for the current adult density of northern pike was assessed as **Moderate Risk** to sustainability. The northern pike population is currently meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action is a harvest regulation of **1 Northern Pike over 63 cm**. The required management action for this passively managed lake is a harvest regulation of **1 Northern Pike over 70 cm**.

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 harvest regulation of **10 Yellow Perch, any size**.

Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Northern Pike	Moderate	Maintenance – Sustainable Harvest	<ul style="list-style-type: none"> 1 > 63 cm (2017-18) 1 > 70 cm (Implementation April 2018-19)
2	Yellow Perch*	Moderate	Maintenance – Sustainable Harvest	10 any size

*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.