

Summary Information

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|---|-------------------------------------|---|--|
| Version Date: July 2018 | Prepared by: Chris Briggs | Reviewed by: Adrian Meinke | Approved by: KayeDon Wilcox |
| Waterbody ID: 5144 | Surface Area: 591 ha | Hydrologic Unit Code Name (HUC_8): Trout River | Hydrologic Unit Code (HUC_8): 18050202 |
| Sport Fish Species: Walleye, Northern Pike, Lake Whitefish, Yellow Perch, and Burbot | | | |
| Indigenous Fishery: NLT 140 mm, Closed: Apr 1 – May 31 | | | |
| Environment and Parks Region: Peace Region | | Fisheries Management Zone: Northern Boreal 3 (NB3) | Fisheries Management Office: Peace River |

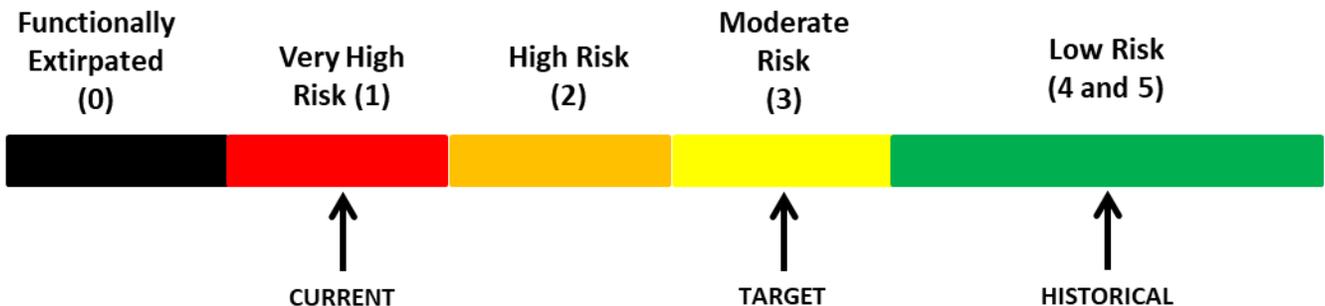
Background

Long Lake (89-5-W5) is located 43 km Northeast of Red Earth Creek and is part of a cluster of lakes that includes Equisetum and Goodfish immediately north of Peerless Lake. It has a mean depth of 5 m, a maximum depth of 9 m and supports native fish populations of lake whitefish, tullibee or cisco, northern pike, walleye as well as yellow perch. An inlet creek enters the eastern end of Long Lake draining Round Lake to the northeast. The inlet channel flows through predominantly muskeg and there is thick aquatic vegetation present within and surrounding the creek. The outlet from Long Lake into Equisetum Lake is well defined and would not be a barrier to fish passage. There is vehicle access to Long Lake, with two primitive boat launches on the north shore of the lake. Long Lake has received domestic, commercial and recreational fishing in the past. The commercial fishery was established in 1950 and continued fairly consistently until 2005 focusing primarily on lake whitefish. Long Lake was last surveyed in 2015 using the Fall Index Netting (FIN) protocol which found low numbers of both northern pike and walleye.

Fish Population Status

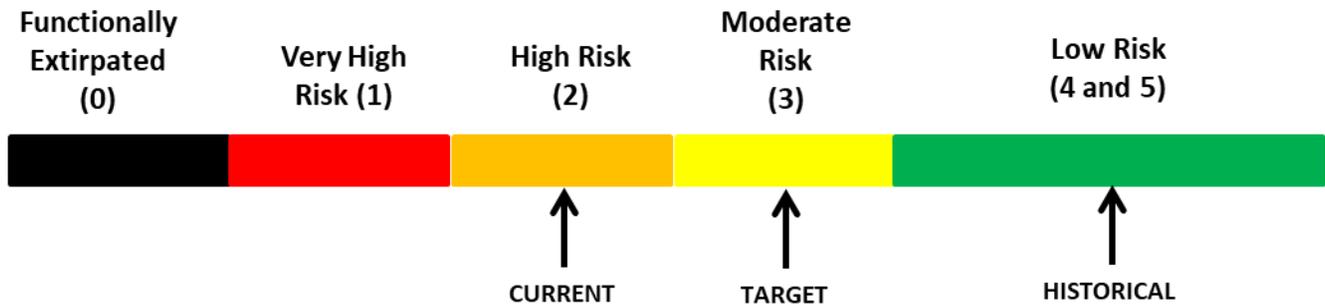
Northern Pike – Adult Abundance

Fish Sustainability Index Adult Density Score



Walleye – Adult Abundance

Fish Sustainability Index Adult Density Score



Lake Whitefish – Adult Abundance - Undetermined

Yellow Perch - Adult Abundance – Undetermined

Recreational Fishery Management Objectives

The **focal species** for recreational management is **Walleye**. The secondary species managed for recreational objectives are northern pike, yellow perch and lake whitefish. The **Overharvest Protection Need** is assessed as **Moderate**.

Walleye: The recreational management objective for walleye is a **Sustainable Harvest** fishery. The corresponding FSI score for the current adult density of walleye has recently been assessed at **High Risk** to sustainability. The walleye population is currently not meeting the status and criteria for the objective of a sustainable harvest fishery. The proposed management action is **to promote recovery through the use of either Special Harvest Licences or catch and release** until such time as the population increases into the moderate risk (yellow) category, at which time, open harvest options will be explored.

Northern Pike: The recreational management objective for northern pike is a **Sustainable Harvest** fishery. The corresponding FSI score for the current adult density of northern pike has recently been assessed at **Very High Risk** to sustainability. The northern pike population is currently not meeting the status and criteria for the objective of sustainable harvest fishery. The proposed management action is **to promote recovery through the use of catch and release** until such time as the population increases into the moderate risk (yellow) category, at which time, harvest options will be explored.

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 yellow perch, any size.

Lake Whitefish: The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the lake whitefish population has not been assessed. The current management action is a regulation of a total of 10 lake whitefish, any size.

Management Summary

| Management Priority | Species | Overharvest Protection Need | Management Action | Sport Fishing Harvest Regulation |
|---------------------|-----------------|-----------------------------|-----------------------------------|--|
| 1 | Walleye | Moderate | Recovery – Sustainable Harvest | Catch and Release Or Special Harvest Licence |
| 2 | Northern Pike | Moderate | Recovery – Sustainable Harvest | Catch and Release |
| 3 | Lake Whitefish* | Moderate | Maintenance – Sustainable Harvest | 10 any size |
| 4 | Yellow Perch* | Moderate | Maintenance – Sustainable Harvest | 15 any size |

*Recreational management objectives for lake whitefish and 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 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.