

WATER QUALITY SUMMARY

HOBBS POND, HOPE

MIDAS: 4806, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Hobbs Pond have been collected continuously since 1983. During this period, 7 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). The water quality of Hobbs Pond is considered above average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Hobbs Pond is low.

Water Quality Measures: Hobbs Pond is a non-colored lake (average color 12 SPU) with an average SDT of 5.2*m (17.1*ft). (The * indicates that the Secchi disk was visible on the bottom of the lake for at least one reading. If the lake were deeper, the SDT readings would be greater). The range of water column TP for Hobbs Pond is 7 to 18 parts per billion (ppb) with an average of 11 ppb. Chla ranges from 1.5 to 3.6 ppb with an average of 2.4 ppb. Recent dissolved oxygen (DO) profiles show low DO depletion in deep areas of the lake. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is low. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species.

See the Maine DEP *Explanation of Lake Water Quality Monitoring Report* for measured variable explanations. Additional lake information can be obtained by contacting Maine DEP at 207-287-3901 or VLMP at 207-783-7733, and at these Websites:

<http://www.lakesofmaine.org> and <http://www.maine.gov/dep/water/lakes/index.html> and <http://www.mainevolunteerlakemonitors.org>.

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