

## **WATER QUALITY SUMMARY**

### **BASIN POND, Fayette**

MIDAS: 5654, 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 Basin Pond have been collected since 1999. During this period basic chemical information was collected twice in addition to Secchi Disk Transparency (SDT). In summary, the water quality of Basin Pond is considered excellent based on measures of SDT, and total phosphorus (TP) and chlorophyll. The potential for nuisance algal blooms on Basin Pond is low.

Water Quality Measures: Basin Pond is a non-colored lake (color 6 SPU) with an SDT of 12.6 m (42 ft). The water column TP for Basin Pond was 3 parts per billion (ppb) and Chla was 1.9 ppb. Both values are very low, indicating this lake has exceptional water quality. The dissolved oxygen (DO) profile showed relatively little 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 slight. 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. While some water met this criteria, the majority of the cold water at the time of sampling had adequate oxygen.

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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