

## **WATER QUALITY SUMMARY**

### **CEDAR LAKE, T01, R09 TWP**

MIDAS: 2004, 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 data for Cedar Lake were collected during four years (1977, 1978, 1979 and 1987), then every year since 2005. Chemical information was collected during three years in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Cedar Lake is considered above average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Cedar Lake is low.

Water Quality Measures: Cedar Lake is a non-colored lake (color about 12 SPU) with an average SDT of 6.7\*m (22\*ft). (The \* indicates SDT is limited by the depth of the lake. If the lake were deeper the average SDT would be greater). The range of water column TP for Cedar Lake was 4 to 9 parts per billion (ppb) with an average of 6 ppb. Chla ranges from 1.7 to 1.8 ppb with an average of 1.8 ppb. Late summer dissolved oxygen (DO) profiles show no DO depletion in bottom waters of the lake, since the lake is too shallow to thermally stratify and remains well mixed during the summer. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Cedar Lake is managed by Maine Department of Inland Fisheries and Wildlife (MDIFW) (Region F) as both a warm-water and cold-water fishery.

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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