

Keoka Lake Water Quality



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Keoka Lake's main water quality concerns are low deep-water oxygen levels and high deep-water phosphorus levels. Because of these low oxygen conditions, coldwater fish often do not have adequate habitat during a significant period of time in the summer. Keoka Lake is also one of four lakes with elevated levels of *Gloeotrichia echinulata*, a cyanobacteria that can release toxins and form blooms. For these reasons, Keoka Lake is in LEA's HIGH degree of concern level.

Key Water Quality Indicators

- In 2017, clarity was virtually the same as the long-term average. Chlorophyll was higher than the long term average, whereas phosphorus was lower.
- Clarity, chlorophyll and phosphorus are in the moderate range.
- So far in 2018, the clarity is improved over the long term average. Chlorophyll and phosphorus results also show lower than average concentrations.
- Trend analysis shows that all three measurements have remained stable over time.

	Long-Term Average	2017 Average	2018 Average
Clarity	5.99 meters	5.95 meters	6.53 meters*
Chlorophyll	3.7 ppb	4.3 ppb	2.7 ppb**
Total Phosphorus	8.0 ppb	7.0 ppb	6.0 ppb**

*2018 clarity average is preliminary and only includes data through September 14th.

**Six chlorophyll and six phosphorus samples have been analyzed so far in 2018, out of a total of 8 samples collected in a typical year.

See LEA's 2017 Water Testing Report or the Keoka Lake page of our website for more water quality information:

<http://www.mainelakes.org/water-testing-report/>

<http://www.mainelakes.org/lake/keoka-lake/>