



UNH CFB Protocol for the Monitoring of Cyanobacteria & Microcystins in Drinking Water:

2010

1. Water collections should be sampled from both treated and untreated (raw) water. You may also choose to sample water from other stages of the treatment if desired.
2. Rinse the HDPE bottle (1 liter) with a small amount of sample water before collection and clearly label each bottle.
3. The HDPE sample bottle should be filled $\frac{3}{4}$ to allow for expansion when frozen.
4. Place the samples on ice and in the dark until delivery to UNH CFB lab.
5. Freeze the sample if delivery/ drop-off time exceeds 12 hours.

Analyses:

- a. Samples will be analyzed for the concentration of the liver toxin, microcystin, using the Envirologix, Quantiplate-ELISA Kit, (Portland, Me) with increased sensitivity (UNH, CFB). Results will be reported as ng microcystins per liter.
- b. Phycocyanin fluorescence (a pigment characteristic of cyanobacteria) will be determined and converted to equivalent *Microcystis aeruginosa* cells ml⁻¹.

Deliver to:

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