

Microcystin Analysis Report

**Project: City of Lakeside
(TLBP)**

Sample Identification

Sample Collection Date

1. N. Ten Mile

09/12/07

Sample Prep – The sample was ultra-sonicated to lyse all cells and release toxins. Due to the concentration of the sample, a 2-fold dilution was required to bring the concentration of the sample in range of the standard curve for the MC ELISA.

Analytical Methodology – A microcystins enzyme linked immunosorbent assay (ELISA) was utilized for the quantitative and sensitive congener-independent detection of MCs. The current ELISA kit is sensitive down to a detection/quantification limit of 0.15 µg/L. Standard recovery was 104%.

Summary of Results

Sample

MC levels

(µg/L)

1. N. Ten Mile

≈ 5.4

ND = not detected above the detection limit

Limit of Detection = 0.15 µg/L

* Microcystin data is contained in accompanying spreadsheet.