REPORT ALGAL BLOOMS

A value of 0.004 is nominally equivalent to high bloom potential in Lake Okeechobee. Chlorophyll-a or total phosphorus, if measured, would be in the 200-500 µg/l chlorophyll-a or 10-25 µg/l phosphorus range. Please keep in mind that bloom potential is subject to change due to rapidly changing environmental conditions or satellite inconsistencies (i.e., wind, rain, temperature, or stage).

SUMMARY

There were 51 reported site visits in the past seven days with 51 samples collected. Algal bloom conditions were observed by samplers at 25 sites. Neither sample had a dominant algal taxon nor cyanotoxins detected.

On 8/4, SFWMD collected a sample from Lake Okeechobee – C43 Canal – S79 Structure (upstream), and had no cyanotoxins detected. The sample was dominated by Cylindrospermopsis raciborskii and Planktothrix agardhii. Algal bloom conditions were visible to the sampler at this location, and the sample was collected at a trace level (0.04 ppb). The Lake Okeechobee – C43 Canal – S79 Structure (upstream) sample had no dominant algal taxon and cyanotoxins detected.

On 8/1, South Florida Water Management District (SFWMD) staff collected samples from the Lake Sebring, Lake Ivanhoe, Lake Sue and Lake Mann. No algal sample was collected at Lake Mann. The Lake Mann sample had a trace level of microcystin detected. The Lake Mann sample had a trace level of microcystin detected.

On 7/28, Lee County staff collected samples from the Lake Sebring, Lake Ivanhoe, Lake Sue and the Lake Mann. No algal sample was collected at Lake Mann. The Lake Mann sample had a trace level of microcystin detected. The Lake Mann sample had a trace level of microcystin detected.

On 7/28, DEP staff collected samples at Lake Sebring, Lake Ivanhoe, Lake Sue and the Lake Mann. No algal sample was collected at Lake Mann. The Lake Mann sample had a trace level of microcystin detected. The Lake Mann sample had a trace level of microcystin detected.

On 8/2, 4 days after bloom monitoring on Lake Okeechobee by SFWMD, bloom conditions were observed by samplers at 25 sites. Neither sample had a dominant algal taxon nor cyanotoxins detected. The sample was dominated by Cylindrospermopsis raciborskii and Planktothrix agardhii. Algal bloom conditions were visible to the sampler at this location, and the sample was collected at a trace level (0.04 ppb). The Lake Okeechobee – C43 Canal – S79 Structure (upstream) sample had no dominant algal taxon and cyanotoxins detected.

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