

**Division of Water Monitoring and Standards
Bureau of Freshwater & Biological Monitoring (BFBM)
Harmful Algae Bloom (HAB) Situational Status Report**

**May 10, 2019
Status Report #1 - Initial**

Incident Description

- **Deal Lake, Asbury Park, Monmouth County**
 - Date of Incident: 5/10/19
 - Date Reported to BFBM: 5/10/19
 - DEP Hotline Case # 19-05-10-1037-27
- **Reported Information:** HAB reported by DEP Bureau of Freshwater and Biological Monitoring (BFBM).
- **Waterbody Ownership:** Monmouth County
- **Partner Agency (s):** Monmouth County Health Dept.(MCHD)
- **External Notifications:** None at this time.

Current Assessment

- **Drinking Water Source:** No
- **Recreational Exposure:** There are no freshwater bathing beaches in Monmouth County. Recreation at Deal Lake is mostly boating (e.g. kayaking, canoeing) and fishing.
- **Upstream/ Downstream Impacts:** Outlet to ocean, but no beach impacts.

Investigation Status

Response

HAB data is from samples collected for an ongoing study on Deal Lake and other lakes to develop Remote Sensing for Cyanobacterial Blooms. Samples were collected as part of scheduled sample collection and not as a result of a response action due to a report from an outside source.

Results

4/30/10 Samples

Site ID	Water Body	Location	Dominant Cyanobacteria	Total Cyanobacteria Cell Count	Toxin Concentration (µg/l)
191-1	Deal Lake	Lake Drive	Aphanocapsa Aphanizomenon	20,750 cells/ml 3,500 fil/ml	Pending Analysis
191-2	Deal Lake	Park Ave	Aphanocapsa Aphanizomenon	10,250 cells/ml 2,000 fil/ml	Pending Analysis
191-4	Deal Lake	Sunset Ave	Aphanizomenon	Present, not countable	Pending Analysis
191-7	Deal Lake	Main St	Pseudoanabaena Aphanizomenon	11,750 cells/ml 2,000 fil/ml	Pending Analysis

Note: Filaments are comprised of at least 4 cells per chain.

*NJ Health Advisory Guidance Levels:
Cell Count > 20,000 cells/ml;
Microcystins 3µg/L

Advisory

MCHD has been notified of the below recommended advisory.
Recommended due to cell counts above NJ Health Advisory Guidance Levels:
The following advisory should be posted at public access points:
Danger/ High Risk - No Contact and Ingestion (Humans and Animals)
A confirmed Harmful Algal Bloom is present with levels quantified at or above the NJ Health Advisory Guidance. Do not drink or have contact with the water including, but not limited to, swimming, wading, and watersports. Fish caught in this waterbody should not be eaten. Pets and livestock should not contact or drink the water.

Continued Actions

Deal lake is scheduled to be sampled every two weeks as part of the said ongoing study. HAB data collected from this study will be used for HAB status updates.

Next Updates

Following confirmation analysis when bloom subsides, or other change in status.