

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

**August 7, 2019
Status Report # 1**

Incident Description

- **Manasquan Reservoir, Howell Township, Monmouth County**
 - Date of Incident: 8/5/19
 - Date Reported to BFBM: 8/5/19
 - DEP Hotline Case # 19-08-07-1036-12
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- **Reported Information:** Suspected HAB reported by NJ Water Supply Authority
- **Waterbody Ownership:** Monmouth County, New Jersey Water Supply Authority
- **Partner Agency (s):** New Jersey Water Supply Authority, NJDEP Bureau of Safe Drinking Water, Monmouth County Health Dept.
- **External Notifications:** New Jersey American Water

Current Assessment

- **Drinking Water Source:** Yes
- **Recreational Exposure:** Fishing, kayaking, boating.
- **Upstream/ Downstream Impacts:** New Jersey American Water intake.

Investigation Status

Response

8/6/19

BFBM sampled sites throughout the reservoir based on information provided by the New Jersey Water Supply Authority. The NJWSA said that NJ American Water is currently pumping from the Manasquan River and not from the Reservoir intake.

Results



8/6/2019 Samples

Water Body	Site ID	Dominant Cyanobacteria	Total Cyanobacteria Cell Count	Microcystins Concentration (µg/l) Reporting Level 0.15
Manasquan Reservoir	NJLM-1200-4	<i>Dolichospermum</i>	32750 cells/ml	< Reporting Level
Manasquan Reservoir	Mon-3	<i>Dolichospermum, Aphanizomenon</i>	52125 cells/ml	< Reporting Level
Manasquan Reservoir	NJLM-1200-5	<i>Aphanizomenon</i>	39000 cells/ml	< Reporting Level
Manasquan Reservoir	BFBM000258 (Intake)	<i>Aphanizomenon</i>	39000 cells/ml	< Reporting Level
Manasquan Reservoir	NJLM-1200-3	<i>Dolichospermum, Woronichinia</i>	47750 cells/ml	< Reporting Level
Manasquan Reservoir	FTM030	<i>Aphanizomenon</i>	44875 cells/ml	< Reporting Level

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

Advisory

The following advisory has been posted at public access points by the Monmouth County Health Dept:

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

The NJWSA will continue to coordinate with New Jersey American Water for any necessary drinking water actions.

The NJWSA will continue to surveil the reservoir and notify BFBM of any visual changes to the HAB status.

The NJWSA performs routine water quality and cell count analysis at the reservoir to monitor potential and occurring HAB events. NJWSA will continue to forward this data to BFBM.

BFBM has a continuous sensor at the intake as part of an ongoing study Manasquan and other lakes to develop Remote Sensing for Cyanobacterial Blooms. This sensor will continue to be monitored for fluctuations in water quality and phycocyanin to assess status and need for additional sampling.

Next Updates

Upon any change in status.