

HAB Lake Management Guidance Workshop



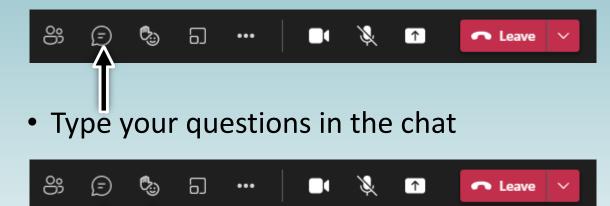
April 23, 2024



Ground Rules:



• Please click your microphone button on the toolbar to mute your microphone.



• During the QA sessions, you can raise your hand to ask a question or type your questions in the chat.



HAB Lake Management Guidance Workshop

April 23, 2024

- Welcome!
- NJDEP | HABs | Expert Team

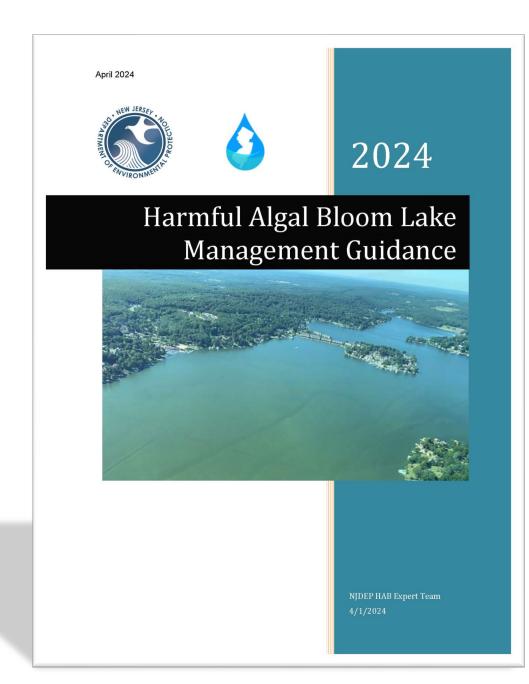


NEW JERSEY DEP Division of Water Monitoring, Standards & Pesticide Control





OUR WATER'S WORTH IT 🙈 🌫 🥛



Cyanobacteria

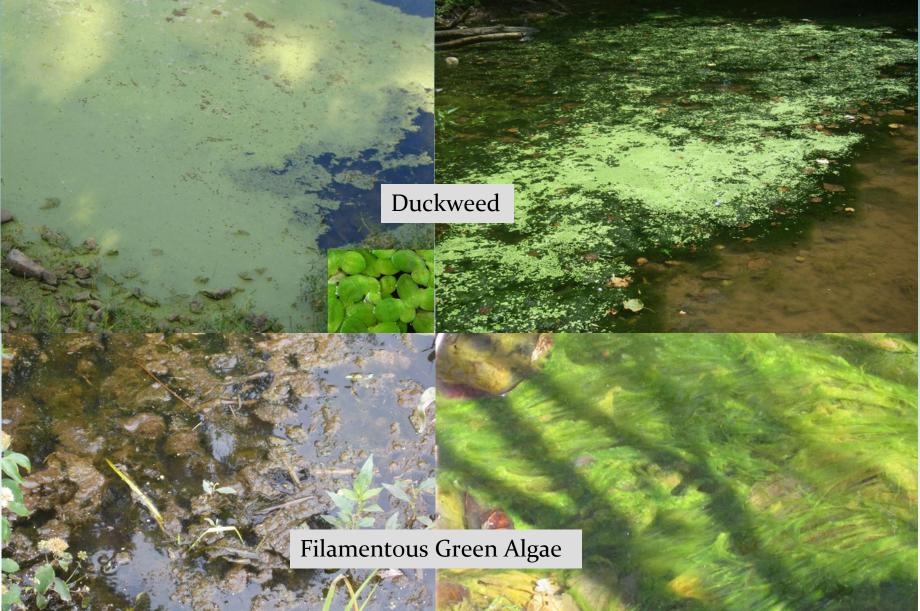






What is <u>not</u> a HAB?





Alert Tiers

HAB ALERT LEVEL	CRITERIA	RECOMMENDATIONS
NONE	HAB report investigated and no HAB found	NONE
WATCH Suspected or confirmed HAB with potential for allergenic and irritative health effects ALERT Confirmed HAB that requires greater observation due to increasing potential for toxin production PUBLIC BATHING BEACHES INCREASE	Suspected HAB based on visual assessment or screening test OR Lab confirmed cell counts between 20k – 40k cells/mL AND No known toxins above public health thresholds Lab confirmed cell counts between 40k – 80k cells/mL AND No known toxins above public health threshold	Public Bathing Beaches Open (dependent upon local health authority evaluation and assessment) Waterbody Accessible: Use caution during primary contact (e.g., swimming) and secondary (e.g., non-contact boating) recreational activities Do not ingest water (people/pets/livestock) Do not consume fish WATCH remains in effect. Public Bathing Beaches Open (dependent upon local health authority evaluation and assessment) and should observe and report changing bloom conditions Waterbody Accessible:
MONITORING		Use caution during primary contact (e.g., swimming) and secondary (e.g., non-contact boating) recreational activities Do not ingest water (people/pets/livestock) Do not consume fish
ADVISORY Confirmed HAB with moderate risk of adverse health effects and increased potential for toxins above public health thresholds	Lab testing for toxins exceeds public health thresholds OR Lab confirmed cell counts above 80K cells/mL OR Field measurement evidence indicating HAB present and above guidance thresholds (e.g., phycocyanin readings)	Public Bathing Beaches Closed Waterbody Remains Accessible: Avoid primary contact recreation (e.g., swimming) Use caution for secondary contact recreation (e.g., boating without water contact) Do not ingest water (people/pets/livestock) Do not consume fish
WARNING Confirmed HAB with high risk of adverse health effects due to high toxin levels	Toxin (microcystin) 20 - 2000 μg/l AND/OR Additional evidence, including, expanding bloom, increasing toxin levels (i.e., duration, spatial extent or negative human or animal health impacts) indicates that additional recommendations are warranted	Public Bathing Beaches Closed Waterbody Remains Accessible: Avoid primary contact recreation (e.g., swimming) May recommend against secondary contact recreation (e.g., boating without water contact) with additional evidence Do not ingest water (people/pets/livestock) Do not consume fish
DANGER Confirmed HAB with very high risk of adverse health effects due to very high toxin levels	Toxin (microcystin) > 2000 μg/l AND/OR Additional evidence, including, expanding bloom, increasing toxin levels (i.e., duration, spatial extent or negative human or animal health impacts) indicates that additional recommendations are warranted	Closure of Public Bathing Beaches Possible closure of all or portions of waterbody and possible restrictions access to shoreline. Avoid primary contact recreation (e.g., swimming) May recommend against secondary contact recreation with additional evidence Do not ingest water (people/pets/livestock) Do not consume fish

ADVISORY

HAB Alert Level	Criteria	Recommendations
ADVISORY Confirmed HAB with moderate risk	Lab testing for toxins exceeds public health thresholds ο Microcystins (as total): 2 μg/L	Public Bathing Beaches closed
<section-header></section-header>	 Cylindrospermopsin: 5 μg/L Anatoxin-a: 15 μg/L Saxitoxin: 0.6 μg/L OR Lab confirmed cell counts above 80Kcells/mL OR Field measurement evidence HAB present and above guidance thresholds (e.g., phycocyanin readings)	 Waterbody Remains Accessible: Avoid primary contact (e.g., swimming) Use caution for secondary contact recreation (e.g., boating without water contact) Do not ingest water (people/pets/livestock) Do not consume fish BEACHCLOSED PLAYA CERRADA

HARMFUL ALGAL BLOOM (HAB) No Swimming • No Wading BLOOM ALGAL NOCIVO No nadar • No vadear

Contact can make people and animals sick. El contacto puede enfermar a personas y animales.



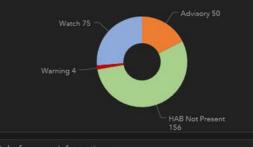
NJDEP Algal Bloom Sampling Status

Use dropdown to view samples at a waterbody All Waterbodies

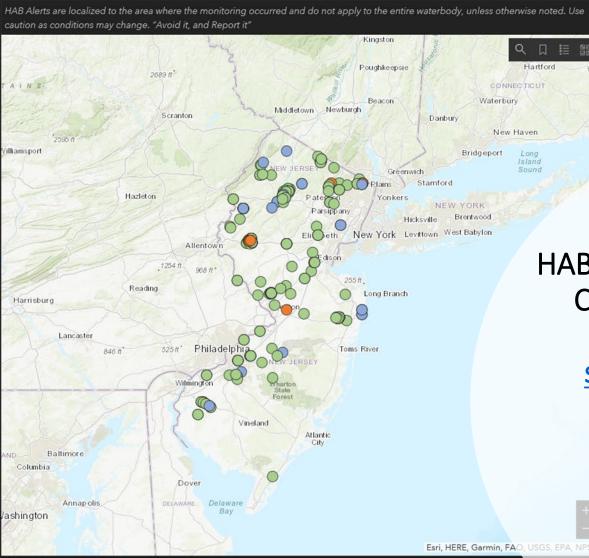


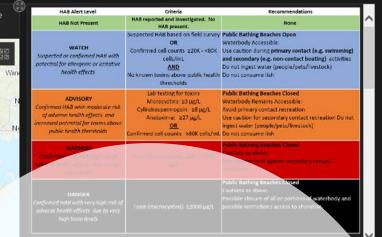
- 12/15/2020, 1:05 PM West Lake Foxmoor
- 12/15/2020, 11:15 AM Ramapo River Pompton Lakes 6
- 12/15/2020, 11:15 AM Amico Island Pond
- 12/15/2020, 10:55 AM Pompton Lake
- 12/15/2020, 10:13 AM Dramasei Park Lake
- ۲ 12/15/2020, 9:22 AM Greenwich Lake
- 12/14/2020, 9:18 AM Driscoll Pond
- 12/14/2020, 8:59 AM Hopkins Pond





Links for more information:





HAB Interactive Mapping and **Communication** System (reporting system, searchable map, data, alerts...)