

From: [Wellendorf, Nijole](#)
To: [Warren, Kalina](#); [Bates, Elizabeth](#); [Bearden, Matthew](#); [Boman, Leif](#); [March, Kathryn W](#); [Riordan, Terry](#); [Schwartz, Victoria](#)
Subject: RE: bloom resampling decisions
Date: Wednesday, August 4, 2021 3:23:32 PM

Kalina,

Good point. Thanks. See revised instructions. Any additional comments welcome, and I think this would work better as a flow chart.

When we receive an algal bloom report, we collect a sample.

- 1a. Any toxin detected at any level - 2
- 1b. Toxins not detected - 3
- 2a. The detection is >PQL or it's <PQL but not the 6th I-qualified result for that particular toxin - resample
- 2b. This is the 6th I-qualified result of the same toxin - STOP
- 3a. Algal ID sample dominated by toxin producing taxa. – resample
- 3b. Algal ID sample NOT dominated by toxin producing taxa - 4
- 4a. Bloom condition still visible - resample
- 4b. Bloom condition not still visible - STOP.

Nia

From: Warren, Kalina <Kalina.Warren@dep.state.fl.us>
Sent: Tuesday, August 3, 2021 12:38 PM
To: Wellendorf, Nijole <Nijole.Wellendorf@FloridaDEP.gov>; Bates, Elizabeth <Elizabeth.Bates@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; March, Kathryn W <Kathryn.W.March@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>; Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>
Subject: RE: bloom resampling decisions

Nia,

I like your schematic. I run several scenarios in my head to see if all possibilities are covered. Here are my two comments:

- Should we address an issue of what if toxin results are higher (over the PQL), how many times should we go, and the frequency? Most likely it will be case by case, but I would add it to the guidance.
- What if different toxins are detected, do we reset the clock of 6 sampling events? That is what has happened with lake Anderson. Microcystins were present originally, eventually concentration was low and finally non detect, then cylindrospermopsin was detected.

Should we add a statement about the frequency of repeat samples?

Thank you for your guidance,
Kalina

From: Wellendorf, Nijole <Nijole.Wellendorf@FloridaDEP.gov>
Sent: Tuesday, August 3, 2021 9:27 AM
To: Bates, Elizabeth <Elizabeth.Bates@FloridaDEP.gov>; Bearden, Matthew <Matthew.Bearden@dep.state.fl.us>; Boman, Leif <Leif.Boman@FloridaDEP.gov>; March, Kathryn W <Kathryn.W.March@FloridaDEP.gov>; Riordan, Terry <Terry.Riordan@FloridaDEP.gov>; Schwartz, Victoria <Victoria.Schwartz@FloridaDEP.gov>; Warren, Kalina <Kalina.Warren@dep.state.fl.us>
Subject: bloom resampling decisions

Hi all,

Here is an attempt to clarify when we should resample lakes that have had algal bloom reports. Please let me know if this seems consistent with previous guidance, and if it makes sense.

When we receive an algal bloom report, we go collect a sample.

- 1a. Toxin detected - resample
- 1b. Toxin not detected - 2
- 2a. Algal ID sample dominated by toxin producing taxa. – resample
- 2b. Algal ID sample NOT dominated by toxin producing taxa - 3
- 3a. Bloom condition still visible - resample
- 3b. Bloom condition not still visible - STOP.

If a site consistently has trace level toxin detections, we need to document 6 site visits at that level.

Nia Wellendorf
Program Administrator
Water Quality Monitoring Program
(850) 694-1592

8.20.21

Hi Liz, and Happy Friday to you both!

As it would happen, our lab issues are solved (we think). Please keep this lake on your list, though I agree it would not be your top priority.

Here is the final version of the guidance I've been working on, after input from Dave, Kalina, and Alicia. Will be sending to all today. Let me know if anything doesn't make sense.

Thanks,
Nia

1a. Any toxin detected at any level - 2

1b. Toxins not detected - 4

2a. The detection is >PQL – resample the following week

2b. The detection is between the MDL and PQL (trace level, I-qualified) - 3

3a. There have been 0-5 previous trace detections for this toxin at this site – resample 2-4 weeks later

3b. This is the 6th trace level result for this toxin - STOP

4a. Algal ID sample dominated by toxin producing taxa and the corrected chlorophyll a results is >20 µg/L – resample 2-4 weeks later

4b. Algal ID sample NOT dominated by toxin producing taxa - 5

5a. Bloom condition still visible - resample 2-4 weeks later if this is the first or second time you have resampled for this reason. Do not sample more than 3 times if toxins continue to be non-detect.

5b. Bloom condition not still visible - STOP.