

# US EPA Benthic HABs Discussion Group

Time: March 30<sup>th</sup>, 8:30am – 10:00 am PST

Webinar registration: [https://zoom.us/webinar/register/WN\\_fVJ65TqSRk-sV8FjGKW\\_rw](https://zoom.us/webinar/register/WN_fVJ65TqSRk-sV8FjGKW_rw)

## Final Agenda

### 1) Introduction and announcements

- Upcoming meetings, recent papers, other news, etc.
- Anthea Fredrickson, Lower Colorado River Authority: 2021 benthic mats in Texas reservoir

**2) Dr. Beckye Stanton**, California Office of Env. Health Hazard Assessment  
Update on progress of ITRC Benthic Harmful Cyano. Bloom team ([webpage](#))

### 3) Dr. Franziska Bauer, Dr. rer. nat.

Mass Occurrence of Anatoxin-a- and Dihydroanatoxin-a-Producing *Tychonema* Sp. in Mesotrophic Reservoir Mandichosee (River Lech, Germany) as a Cause of Neurotoxicosis in Dogs.

<https://doi.org/10.3390/toxins12110726>

In August 2019, three dogs died after bathing or drinking from Mandichosee, a reservoir of the River Lech (Germany). Benthic *Tychonema* sp. was found growing on different substrates and swimming on the lake surface. The dogs' necroscopies showed liver and lung lesions. Anatoxin-a and dihydroanatoxin-a were detected by LC-MS/MS in the stomach of two dogs and in field samples. A molecular approach was used to detect toxin genes by PCR and to reveal the cyanobacterial community composition by sequencing. The results were achieved out of a spontaneous collaboration of different disciplines and institutes, such as environmental authorities, veterinarians and limnologists.

## Benthic HAB Workgroup Facilitators

Contact us if you would like to be added to our list serve and receive communications.

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