

## California Cyanobacteria Harmful Algal Bloom (CCHAB) Network Meeting

October 15, 2018, 9:00 am – 12 pm

Cal EPA Building, 1001 I Street Sacramento, CA 95814

Training Room 2

[Join Skype Meeting](#)

**Call-In Number: 916-227-1132 (Please mute your phone)**

### Agenda

#### 9:00 am Welcome, Introductions and Announcements (10)

##### Introductions

- |                     |                     |                 |
|---------------------|---------------------|-----------------|
| - Sarah Ryan        | Trust)              | - Nick M        |
| - Christine         | - Joseph Westhouse  | - Reggie        |
| - Tom Carolla       | - Rich Fadness, R1  | - Mary, R6      |
| - Brad Members      | - Caries Austin, R2 | - Damien Ebbert |
| - Marisa            | - Karola Kennedy    | - OTHERS        |
| - Eric (Fresh Water | - Bob Bowcock       |                 |

##### Announcements

No General Announcements

#### 9:10 am Update on status of USEPA Cyanotoxin criteria (5) (Sue Keydel or Co-Chairs)

No update on the AWQC Release

#### 9:15 am CCHAB Network Process Updates (15)

- Request to send in updates using template
  - Include update process procedures in notes
  - Anything that you would like to verbally report out should be included on the update form (meetings, blooms, events, outreach, etc.) Try to highlight the the most important information
  - Feedback from region six was to query the states reporting tool rather than regions having to double up on reporting work.
- Subcommittees

Chairs will be checking in with leads to see what work has been done this calendar year. Goal is to have more documentation of the goals and progress made towards those goals. This may lead to need for developing new subcommittees, decommission others, etc. If you are a subcommittee lead, expect a call from cochairs. If you are interested in additional topics and think there should be more subcommittees or work added to existed subcommittees, please let us know. This can even be entered in the Survey that was sent out on the Lyris list.
- Survey
  - Everyone please remember to fill out the survey – this is an attempt to gauge the needs of the network
  - Reminder email will go out to the network

9:30 am

**FHAB Program Updates (Ali Dunn and Marisa Van Dyke) (30)**

- Results of pre-Labor Day
  - Preholiday assessment took place in August and posted interactive map IDing the lakes and rivers that were assessed prior to Labor Day weekend. 155 sampling locations/60 waterbodies. This was a great increase from previous sampling so thanks to those samplers.
  - Harmful algal bloom portal provides a map of sample sites and their status (Caution/Warning/Danger)
  - 46% were at caution, danger was at 18%
  - Stats comparing last year's to this year's waterbody status' – No formal assessment was done but will be at the year-end assessment which will provide a snapshot of 2017 compared to 2018.
    - o Human/animal illnesses, trend of Labor Day assessments (it appeared same water bodies were impacted)
  - This winter there will be an assessment of FHAB processes/strategies going forward for the next three years. There will be an update on which holiday assessments will continue, and those that may not. Considering assessing fecal indicator bacteria as well to include as assessments of water quality and safety of waterbodies outside of cyanohABs.
  
- Satellite Field Verification Study
  - Is an effort to use satellite imager from OLCI satellite imagery from Cyan. It is a multiagency -collaboration. Imagery detects chlorophyll and cyanobacteria.
  - Study continues from fall to spring and will continue through the HAB season of 2019. Data is needed over time from many different lakes and reservoirs. This project is still in Beta stage, so we have input for lake crawly and now the next step is going to have field testing analysis. Testing cannot be done at max levels because sensitivity is not there. Most lakes have different colors.
  - Imagery frequency ranges from 1-2 weeks. Most recent data/flyover time/date is provided in the system when viewing. Benthic blooms are not detected in this, or shorelines. The depth of detection depends on turbidity of the water. Maximum is ~3 meters. Not useful for detecting benthic blooms.
  - Waterboards has contracted with UC Santa Cruz to use other satellites to detect chlorophyll and phycocyanin Phyllamentis (Marissa) as well. Pixels are a little smaller, allowing for detection in smaller channels/lakes. Hoping to get greater coverage within the next few years.
  - Goal of this tool is to ID areas that we are unable to easily/regularly access to have a better assessment of the HAB activity in CA.
  - Sue Keydel recommends reassessing the framework of this initiative to consider improvements in tech and science.
  - There was outreach to pilots to volunteer to capture photography if they go over a waterbody. This was a USEPA effort but there were not any CA volunteers and there was a concern of how to process and store the data. IDing where/when location/bloom is occurring, this created a huge data assessment challenge and conclusion that the initiative may not be useful.
  - There is a preliminary list of waterbodies that will be assessed in 2019 – Marissa will provide.

**10:00 am**      **Break**

10:15 am      Statewide HABs Status Updates (45)  
See project update template on CCHAB Network Web Page

11:00 am      Invited speakers from New York State Department of Environmental Conservation and New York State Department of Health (60)

- New York's HAB program, HAB initiatives, potential HAB-related illness surveillance program



Facciponte 2018  
aerosol-cyano-disease surveillance results I



Figgatt 2017  
aerosol-cyano-disease surveillance results I

12:00 pm      Wrap up (5)