

California CyanoHAB Network (CCHAB)*



CCHAB Meeting
December 18, 2014

* Formerly the Statewide Blue Green Algae Public Working Group

Agenda

	Time	Topic	Presenter
1.	9:00 – 9:10	Introductions	–
2.	9:10 – 9:20	CCHAB Overview	DWQ
3.	9:20 – 9:40	SWAMP CyanoHAB Monitoring Update	SWAMP – Karen Taberski
4.	9:40 – 10:00	Drinking Water HAB Workgroup Update	Drinking Water Program – Amy Little
5.	10:00-10:15	Break	–
6.	10:15 –11:00	CCHAB and the California Monitoring Council	California Monitoring Council – Jon Marshack
7.	11:00-11:45	Draft Voluntary Guidance	DWQ
8.	11:45 – 12:00	Wrap Up and Adjourn	–

Purpose of the Meeting

- Re-convene CCHAB
 - Last full CCHAB meeting Nov. 2013
- Update on cyanoHAB projects related to monitoring and drinking water.
- Proposal from the California Water Quality Monitoring Council
- Update the Draft Voluntary Guidance



8TH SYMPOSIUM ON HARMFUL ALGAE IN THE US

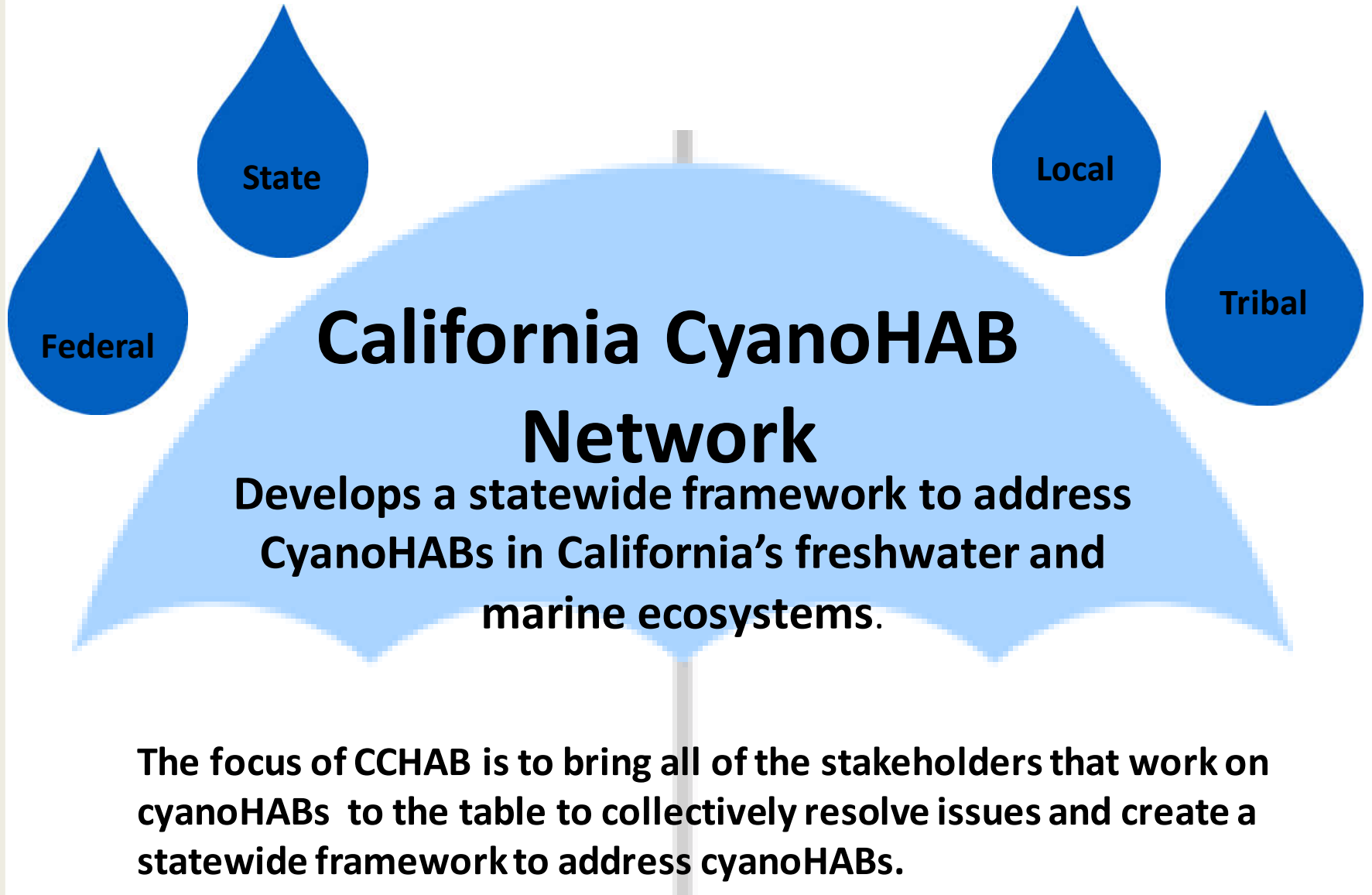
JOIN US ABOARD

THE QUEEN MARY

LONG BEACH, CALIFORNIA ~ NOVEMBER 15-19 2015

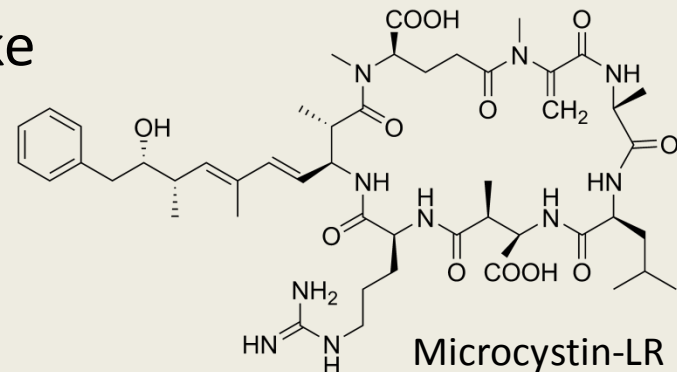
CCHAB Update

Agenda Item 2



Accomplishments

- Draft Voluntary Guidance about Harmful Algal Blooms
- OEHHA Report on Suggested Action Levels for Blue Green Algae Toxins (Cyanotoxins)
- Two Trainings on HABs identification and sampling
- Funded:
 - Water quality investigation on Klamath River Reservoirs
 - Development of LC-MS/MS methods for analysis of cyanotoxins
 - Investigated Sea Otter Poisoning Cases near Monterey Bay
 - Nonpoint Source Project for Pinto Lake



Present Status

- Define the Mission
- Establish a Steering Committee
- Establish Short-Term Actions
- Establish Long-Term Actions



HEALTH ADVISORY



**AVOID WATER CONTACT IN
IRON GATE AND COPCO RESERVOIRS**

Due to high levels of blue-green algae that can produce harmful toxins.

- Do not use this water for drinking or cooking.
- Do not consume fish livers or digestive organs, and wash fillets with drinking water.

Children and pets are at greatest risk.

For more information contact:
North Coast Regional Water Quality Control Board
(707) 576-2225

Long-Term Goals

1. **Coordinate monitoring and management** of CyanoHABs and effects in freshwater and marine ecosystems throughout California.
2. Develop **collaborative relationships** among entities responsible for addressing cyanobacteria concerns and impacts to beneficial uses.
3. Make **efficient use of** resources to address cyanobacteria concerns by sharing information, avoiding duplicative efforts, promoting research, monitoring, and assessment, identifying technical and policy gaps, and communicating cyanobacteria concerns to the public.

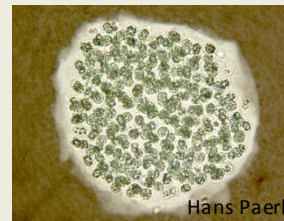
Steering Committee

- One Facilitator – State Water Board
- One representative from a Federal Agency – U.S. EPA
- One representative from a State Agency
- One representative from a Local Agency – City of Watsonville
- One representative from the User Community – PacifiCorp
- One Tribal representative – Karuk Tribe
- One HABMAP representative - SCCWRP
- One representative from the Academic Community – UC Santa Cruz
- One representative from the Environmental Community



Short Term Actions

- Develop a CCHAB Strategic Action Plan to achieve the group's mission, goals and objectives
- Support the CCHAB group by:
 - Maintaining the list serve (cchab@sccwrp.org)
 - Holding regular meetings of the CCHAB and its sub-groups
 - Maintaining the CCHAB information website
- Compile a glossary and factsheet/summary about CyanoHABs
- Compile a contact list to direct public inquiries regarding HAB concerns
- Revise the *Draft Voluntary Statewide Guidance* with OEHHA Action Levels
- Fill the empty Environmental Community representative spot on the Steering Committee
- Complete funded SWAMP CyanoHAB projects



Long Term Actions

- Update signage and public outreach tools
- Create a “My Water Quality” CyanoHAB web portal to share cyanobacteria data, HAB maps, public advisories, etc.
- Revise the statewide draft guidance as needed
- Better understand causes of and solutions for CyanoHABs



Contact within Division of Water Quality, State Water Board

- **Executive Sponsor** – Phil Crader, Division of Water Quality (DWQ) – Assistant Deputy Director
- **Project Manager** – Zane Poulson, DWQ Inland Planning Standards & Implementation Unit Chief
- **Project Staff Lead** – Johanna Weston, DWQ Ocean Standards Unit
 - Johanna.weston@waterboard.ca.gov
- **Project Staff Auxiliary** – Jacob Iversen, DWQ Inland Planning Standards & Implementation Unit

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SWAMP CyanoHAB

Monitoring Update

Karen Taberski – San
Francisco Bay Water Board

Agenda Item 3

Drinking Water HAB Workgroup Update

Amy Little – State Water Board,
Division of Drinking Water

Agenda Item 4

Break

Back at 10:20

CCHAB and the California Water Quality Monitoring Council

Jon Marshack, Monitoring
Council

Agenda Item 6

Discussion

- Are group members interested in moving CCHAB under the Monitoring Council umbrella?
- Does being a working group help CCHAB achieve short and long term actions?

Draft Voluntary Guidance

Agenda Item 7

2010 Draft Voluntary Guidance for Blue-Green Algae Blooms

- **Authors:** State Water Board, Dept. of Public Health, and Office of Environmental Health and Hazard Assessment
- Included **detailed recommendations for monitoring, reporting and posting**, based on WHO's 2003 guidelines
- Recommends posting health advisories if:
 - **Visible scum** is associated with toxigenic species
 - Cell density of certain species is $\geq 40,000$ cells/mL
 - Cell density of potentially toxigenic species is $\geq 100,000$ cells/mL
 - Concentration of **total microcystin** is ≥ 8 $\mu\text{g/L}$

2010 Draft Voluntary Guidance for Blue-Green Algae Blooms

- Also includes:
 - **General information** about cyanotoxins
 - Information on cyanotoxin/cyanobacteria **sampling methods**
 - **Guidance for posting and lifting advisories**
 - **Guidance for providing public notification**
 - **Websites and resources** for more information
 - Examples of **signage, public brochures and press releases**
- Does not address cyanotoxins in drinking water
- Accessible at:
<http://www.cdph.ca.gov/HealthInfo/environhealth/water/Documents/BGA/BGAdraftvoluntarystatewideguidance-07-09-2010.pdf>

Toxicological Summary and Suggested Action Levels (OEHHA, 2012)

- Developed **numeric action levels**
- Action levels describe **concentrations of three cyanotoxin types** in **exposure scenarios** at which there are risks to human and animal health
- Includes three types and ten scenarios for a total of **30 action levels**, including:
 - Recreation/microcystins (**0.8 µg/L**)
 - human fish consumption/**Anatoxin-a**
 - Acute crust/mat intake by dogs/**cylindrospermopsin**
- Accessible at:
http://www.waterboards.ca.gov/water_issues/programs/peer_review/docs/calif_cyanotoxins/cyanotoxins053112.pdf

Discussion

- What do you want in an update of the *Draft Voluntary Guidance*?
- How will this be used?
- Who will participate in the update?