

# Tribal Monitoring Goals, Strategies, and Objectives

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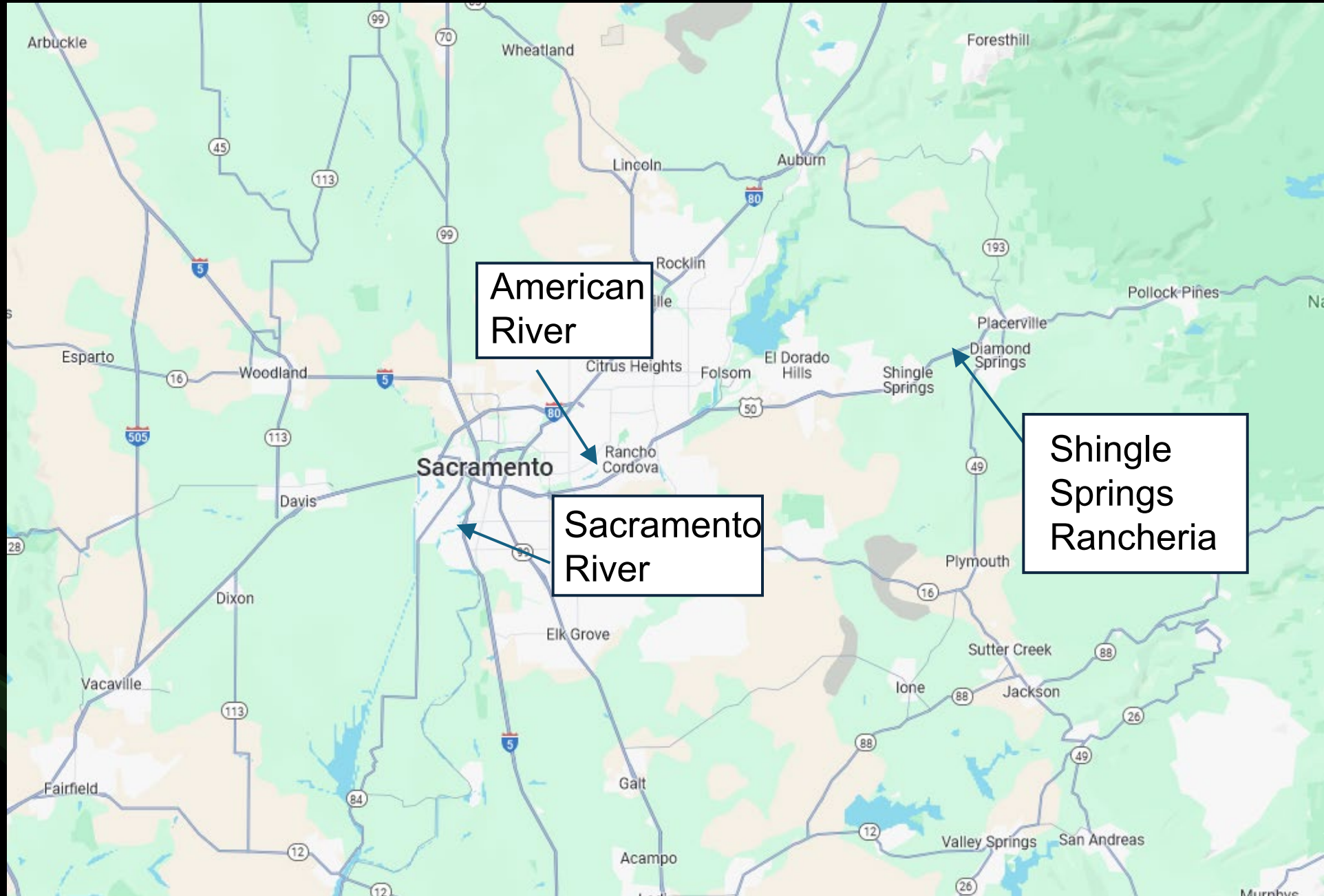
Tribal Clean Water Act Workshop - Fallon, NV

# Previous Effects

- Habs spotted at several locations on the Sacramento River in 2020 – 2022, prompting the start of HABs testing in 2023
- Yearly testing over the past 10 years through the EPA CWA 106 program.

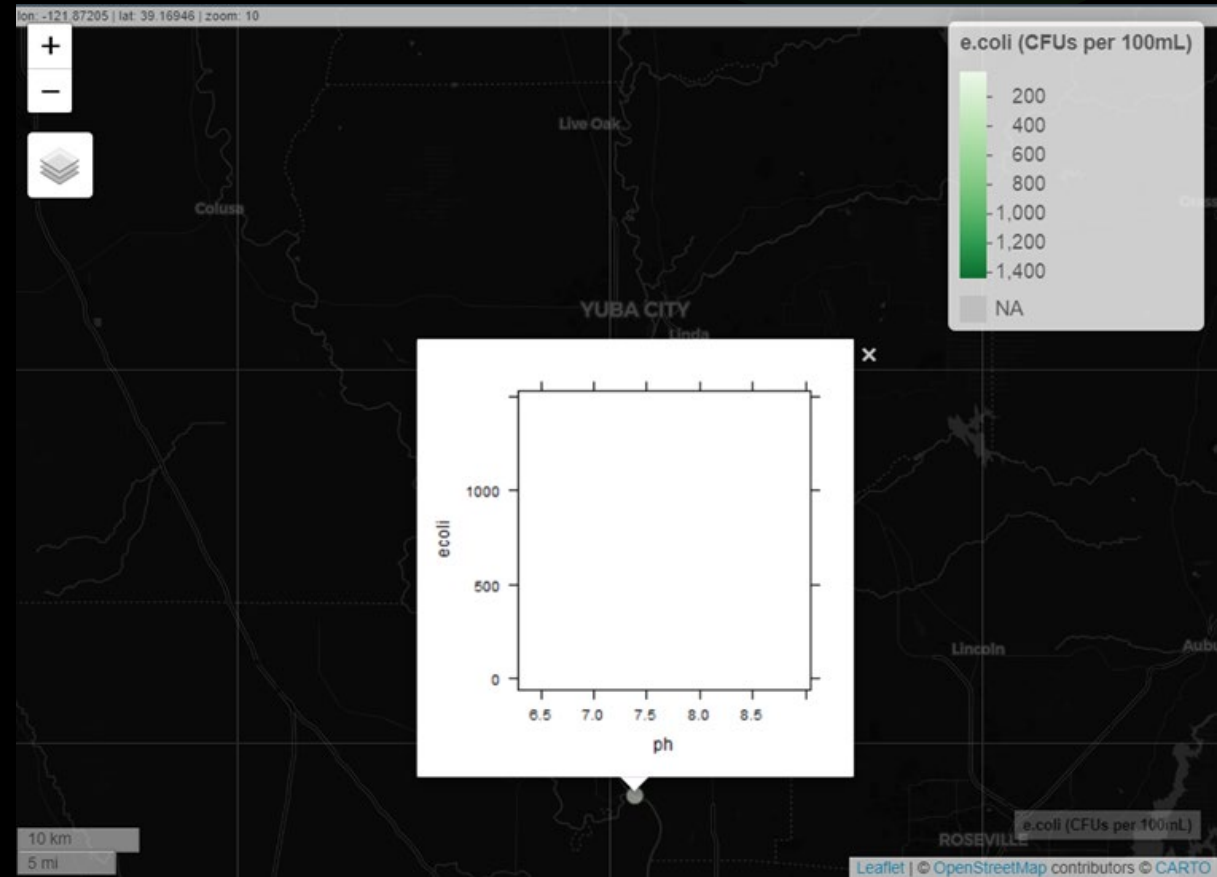


# Study Area



# CWA 106 Testing

- Testing for nutrients, organic compounds, heavy metals, e.coli.
- Monitoring is conducted at 3 locations on intermittent streams
  - Comparing above and below casino stormwater outflow
- Goals are to inform management decisions and help tribal members stay informed
- Data visualizations



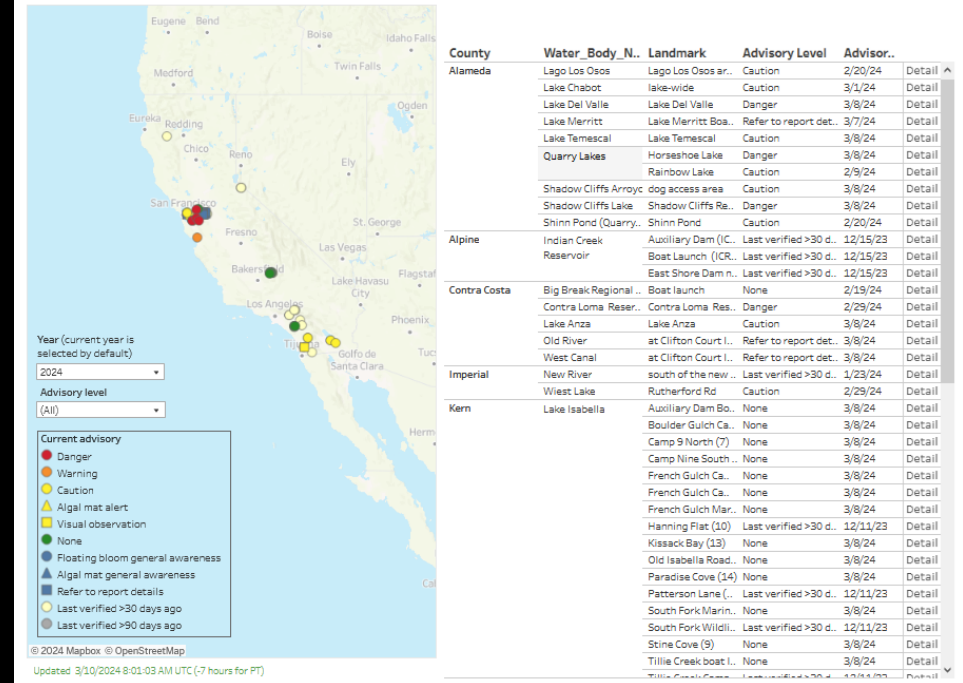


# Creating the tribe's HABs program

- Testing training from Restore the Delta
- Understanding previous bloom locations and timing
- Targeting culturally important locations

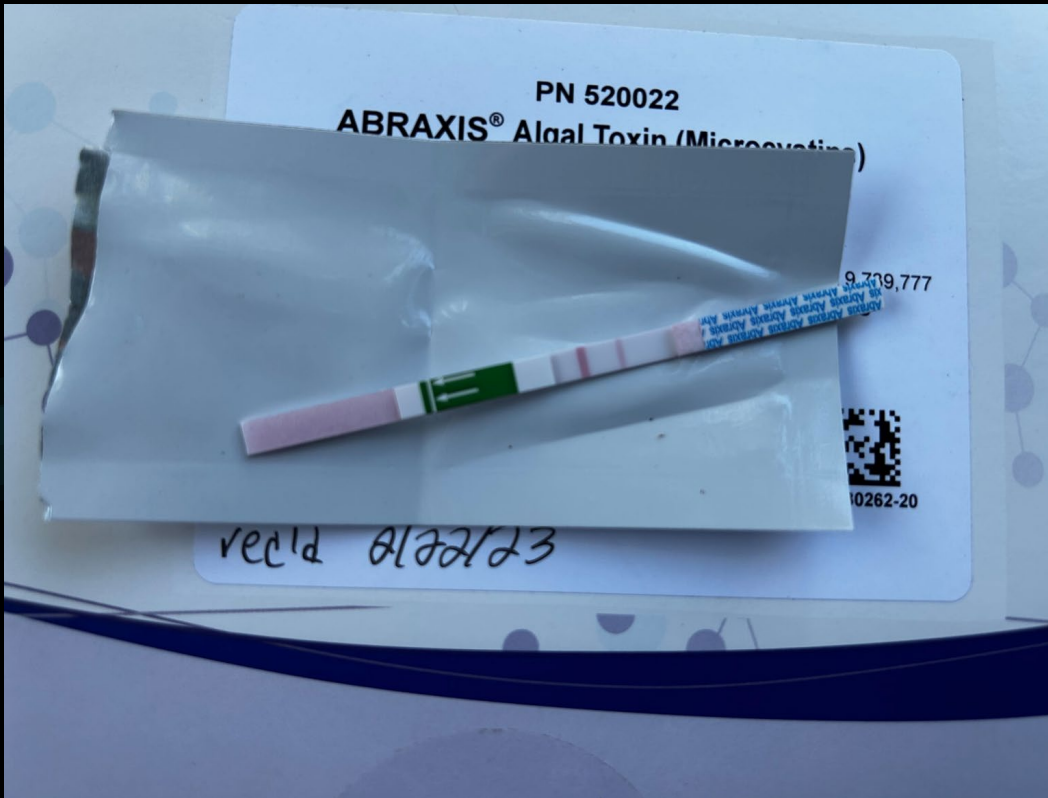


HAB Reports Map - data and reports voluntary shared



# HABs Testing

- Monthly testing conducted with Abraxis test kits
- 5 locations monitored on Sacramento and lower American Rivers





# Response

- Repeat testing when Harmful Algal Blooms, high e.coli levels, or other water quality issues are found
- Warning signs if blooms are suspected or found
- Text notifications for tribal members
- Ongoing communication - presentations at tribal member meetings, interactive water quality maps, tabling at tribal member events.

## WARNING - ADVERTENCIA

Toxins from algae in this water can harm people and kill animals  
Toxinas de algas en estas aguas pueden causar daño a la gente y matar animales



No swimming.  
Prohibido nadar.



Do not let pets or other animals go into or drink the water, or go near the scum.  
No deje que sus mascotas o animales se metan o beban el agua, o se acerquen a la espuma lamosa.



Stay away from scum, and cloudy or discolored water.  
Manténgase alejado de la espuma lamosa, y agua turbia o descolorida.



Do not eat shellfish from this water.  
No coma mariscos de estas aguas.



Do not use this water for drinking or cooking. Boiling or filtering will not make the water safe.  
No use esta agua para beber o cocinar. Hervir o filtrar el agua no hace que sea segura.



For fish caught here, throw away guts and clean fillets with tap water or bottled water before cooking.  
Al pescado que pesque aquí, quítele los intestinos y tirelos a la basura. Limpie el filete con agua de la llave o embotellada antes de cocinarlo.

Call your doctor or veterinarian if you or your pet get sick after going into the water.  
Llame a su médico o veterinario si usted o su mascota se enferman después de meterse al agua.  
For more information go to (Para información): <https://mywaterquality.ca.gov/habs/>  
For local information, contact (Para información local comuníquese con):

## CAUTION - PRECAUCIÓN

Harmful algae may be present in this water.  
Puede haber algas dañinas en estas aguas.



Stay away from algae and scum in the water.  
Aléjese de las algas o espuma lamosa en el agua.



Do not let pets and other animals go into or drink the water, or eat scum on the shore.  
No deje que sus mascotas o animales se metan o beban el agua, o se acerquen a la espuma lamosa.



Keep children away from algae in the water or on the shore.  
Mantenga a los niños alejados de algas en el agua u orilla del agua.



Do not drink this water or use it for cooking.  
No beba de esta agua o use para cocinar.



For fish caught here, throw away guts and clean fillets with tap water or bottled water before cooking.  
Al pescado que pesque aquí, quítele los intestinos y tirelos a la basura. Limpie el filete con agua de la llave o embotellada antes de cocinarlo.



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# Future Expectations – Climate Change and Management

- Water temperature
  - Warmer temperatures
- Flows
  - Reduced snowpack
  - Development increasing impermeable surfaces
- Nutrient runoff
- Increasing traffic and development nearby the Rancheria
- Increased awareness of water quality issues
- Restoration activities to address water quality issues



# Tribal Sovereignty and Cultural Considerations

- Tribal control of data
- Cultural sensitivity training
- Culturally important locations





# Effects on Tribal Events and Activities

- Toxin accumulation in fish
- Cancellation of language camp







# Shifting Baseline

- “With ongoing environmental degradation at local, regional, and global scales, people's accepted thresholds for environmental conditions are continually being lowered. In the absence of past information or experience with historical conditions, members of each new generation accept the situation in which they were raised as being normal.”

- Shifting Baseline Syndrome: Causes, Consequences, and Implications – Masashi Soga and Kevin J Gaston



# Future Plans

- Fish Tissue Testing
- Expanding locations
- Testing from boat at additional river locations
- Restoration Activities







**Thank You!!**

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