Clear Lake
Invasive Mussel Preparedness and Resilience Plan
Lake County, California - June 20-21, 2023 VIRTUAL
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 **Goal**: Conduct a discussion-based event that will allow contributors to examine jurisdictions, roles and responsibilities, capabilities, triggers, notifications, resources, and possible actions to a realistic scenario of dreissenid mussel discovery in Clear Lake, California.

**Core Capabilities**: An exploration of the skills, equipment, resources, authorities, and accessibility of local capabilities under the scenario. Various areas will focus on use and execution of whole community interactions during the exercise. Evaluation: Identification of methods to determine if capabilities have been met.

* **Prevention and Planning**
	+ Objective 1: Successfully convene Lake County partners to examine and refine a dreissenid mussel response process in 2023.
		- Evaluation: Execute exercise. All contributors complete post-evaluation survey that identifies strengths and challenges, and informs the *Lake County Integrated Preparedness and Resilience Plan for Dreissenid Mussel Management* actions.
* **Communication and Public Information**
	+ Objective 1: Effectively engage media to foster increased awareness of preparedness.
		- Evaluation: Press engagement results in adequate coverage that raises awareness of the need for dreissenid mussel preparedness.
	+ Objective 2: Raise awareness of the potential for an introduction of invasive mussels in Clear Lake, their potential effects on community and natural resources, and likely responses to a potential introduction (e.g., water treatment, mandatory watercraft inspections, etc.).
		- Evaluation: Local community members have increased awareness about the potential for an introduction of invasive mussels and their likely effects.
* **Operational Coordination**
	+ Objective 1: Harmonize roles and responsibilities of major contributing entities for effective response.
		- Evaluation: Solutions are suggested to build capacity; Agreement is determined, MOU created between entities, unresolved issues are documented for follow-up.
* **Interdiction and Disruption**
	+ Objective 1: Confirm and refine effective methods, tools, and prioritization techniques to prevent the spread of dreissenid mussels in Lake County.
		- Evaluation: A suite of solutions is suggested to address response possibilities that influence long-term containment.

**Whole community participation** (entities that should be responsible for response actions actively participate and contribute to control actions and monitoring).

**Agenda**

**Tuesday, June 20, 2023**

**9:00am–2:45pm**

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| **Time** | **Topic** |
| **SESSION ONE** |
| **9:00am–9:45am** | **Welcome – Preparing for an Introduction of Invasive Mussels – Lake County’s Prevention Program*** Participant Introductions and Expectations
* Share the core elements of the Lake County invasive mussel prevention program
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| **9:45am–10:15am** | **Introduction to Exercise*** Process for development of plan
* Review of *Lake County Integrated Preparedness and Resilience Plan for Dreissenid Mussel Management* Plan
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| **10:15am–10:45am** | **Houston, We Have A Problem . . . – The First Steps Taken When Invasive Mussels are Detected*** Steps needed to confirm detection
* Notification of detection
* Identification of lead/shared lead entity(ies) and roles
* Local declarations of emergency, and potential results
 |
| **10:45am-11:00am** | **BREAK** |
| **11:00am–11:50am** | **The First Step (continued)*** Tools and mechanisms for Lake County water body managers to delineate extent of infestation
* Identification of approaches, methods, and timing of communication to government officials, businesses, residents, and visitors
* Obligations to report – Information sharing
 |
| **11:50am-NOON** | **Key Points from This Session to Incorporate into Plan**An opportunity for session participants to make suggestions on key topics to incorporate into plan based on today’s discussion |
| **NOON-1:00pm** | **LUNCH** |
| **SESSION TWO** |
| **1:00pm–2:00pm** | **Potential scenarios**Explore potential scenarios for invasive mussel introduction* Scenario A. Detection of adult invasive mussel at Lakeport launch site.
* Scenario B. Detection of adult invasive mussel on mid-lake settling plate.
* Scenario C. Detection of invasive mussel veliger in mid-lake plankton sample.
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| **2:00pm–2:30pm** | **Response Phase*** What triggers activation of the Incident Command System? And then what does that look like for Clear Lake? Share tools available to Lake County
* Maximizing skill sets and capabilities in the event of a response
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| **2:30pm-2:40pm** | **Key Points from This Session to Incorporate into Plan**An opportunity for session participants to make suggestions on key topics to incorporate into plan based on today’s discussion |
| **2:45pm** | **ADJOURN** |

**Agenda**

**Wednesday, June 21, 2023**

**9:00am-2:15pm**

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| **Time** | **Topic** |
| **SESSION THREE** |
| **9:00am–10:00am** | **Potential Treatment Options for Invasive Mussels**Physical, chemical, and biological treatments for invasive mussels, and the associated permits required to implement the treatments, will be presented and discussed. |
| **10:00am–11:00am** | **Transitioning To Containment**Participants will discuss the necessary steps Clear Lake water body management staff and local neighboring water body authorities will take to transition to containment upon establishment of invasive mussels in Clear Lake  |
| **11:00am–11:40am** | **Containment Impacts to Lake County Prevention**Participants will discuss how long-term containment of Clear Lake influences prevention strategies across Lake County |
| **11:40am–NOON** | **Key Points from This Session to Incorporate into Plan**An opportunity for session participants to make suggestions on key topics to incorporate into plan based on today’s discussion |
| **NOON-1pm** | **LUNCH** |
| **SESSION FOUR** |
| **1:00pm–2:00pm** | **Invasive Mussels in Public and Private Water Systems - Statutory Requirements*** Treatments and costs associated with strategies to deal with invasive mussels by public water purveyors as well and private residents with septic systems.
* Requirements for control plan upon establishment of dreissenids in Clear Lake (California Fish and Game Code Section 2301)
	+ (d) (1) A public or private agency that operates a water supply system shall cooperate with the department to implement measures to avoid infestation by dreissenid mussels and to control or eradicate any infestation that may occur in a water supply system. If dreissenid mussels are detected, the operator of the water supply system, in cooperation with the department, shall prepare and implement a plan to control or eradicate dreissenid mussels within the system. The approved plan shall contain the following minimum elements:

(A) Methods for delineation of infestation, including both adult mussels and veligers.(B) Methods for control or eradication of adult mussels and decontamination of water containing larval mussels.(C) A systematic monitoring program to determine any changes in conditions.(D) The requirement that the operator of the water supply system permit inspections by the department as well as cooperate with the department to update or revise control or eradication measures in the approved plan to address scientific advances in the methods of controlling or eradicating mussels. |
| **2:00pm–2:10pm** | **Key Points from This Session to Incorporate into Plan**An opportunity for session participants to make suggestions on key topics to incorporate into plan based on today’s discussion |
| **2:10pm–2:15pm** | **Summary and Next Steps** |
| **2:15pm** | **ADJOURN** |