

**RESOLUTION NO. 21-163**

**RESOLUTION OF THE MENDOCINO COUNTY BOARD OF SUPERVISORS ADOPTING CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE'S AQUATIC INVASIVE SPECIES DISINFECTION/DECONTAMINATION PROTOCOLS FOR MILL CREEK PONDS (TALMAGE AREA)**

WHEREAS, the County of Mendocino is committed to protecting its fish, wildlife, and plant resources, as well as supporting working landscapes; and

WHEREAS, preventing the infestation of aquatic invasive species, particularly Quagga Mussels and Zebra Mussels, into waters within the County's borders is an important consideration to protect the natural ecology and economic health reliant upon aquatic systems; and

WHEREAS, California Code of Regulations (CCR) Title 14, Section 672.1(b) requires that any agency owning or managing a reservoir, where recreational, boating, or fishing activities are permitted, shall develop and implement a dreissenid (Quagga and Zebra) mussel prevention program; and

WHEREAS, the County of Mendocino owns and operates the Mill Creek Ponds, which are reservoirs as defined in Section 6004.5 of the California Water Code, within Mill Creek County Park; and

WHEREAS, the County of Mendocino, in order to implement its Quagga and Zebra Mussel Prevention Plan for Mill Creek Ponds, developed in accordance with CCR Title 14, Section 672.1(b), has the responsibility of adopting protocols required to be followed by all departments of the County of Mendocino, contractors for the County of Mendocino, and other government agencies that perform work in or around or withdraw water from Mill Creek Ponds; and

WHEREAS, the California Department of Fish and Wildlife (CDFW) has developed a protocol to prevent the spread of aquatic invasive species (AIS), included as attachment A; and

WHEREAS, said procedures established by CDFW, if adopted by the County of Mendocino, would require agencies to follow the Aquatic Invasive Species Decontamination Protocols while performing in or around or withdrawing water from Mill Creek Ponds.

NOW, THEREFORE, BE IT RESOLVED that the Mendocino County Board of Supervisors hereby:

1. Adopts California Department of Fish And Wildlife's Aquatic Invasive Species (AIS) Disinfection/Decontamination Protocols for Mill Creek Ponds, included as Attachment A; and

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2. Directs that all departments, agencies, and contractors within the County of Mendocino that perform work in or around or withdraw water from Mill Creek Ponds shall follow the AIS Decontamination Protocol for all personnel and equipment that come into contact with the reservoirs.

The foregoing Resolution introduced by Supervisor McGourty, seconded by Supervisor Haschak, and carried this 9<sup>th</sup> day of November, 2021, by the following vote:

AYES: Supervisors McGourty, Mulheren, Haschak, Gjerde, and Williams  
NOES: None  
ABSENT: None

WHEREUPON, the Chair declared said Resolution adopted and SO ORDERED.

ATTEST: CARMEL J. ANGELO  
Clerk of the Board

  
\_\_\_\_\_  
DAN GJERDE, Chair  
Mendocino County Board of Supervisors

  
\_\_\_\_\_  
Deputy

I hereby certify that according to the provisions of Government Code Section 25103, delivery of this document has been made.

APPROVED AS TO FORM:  
CHRISTIAN M. CURTIS  
County Counsel

BY: CARMEL J. ANGELO  
Clerk of the Board

  
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Deputy

  
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Deputy

**ATTACHMENT A**  
**Aquatic Invasive Species Disinfection/Decontamination Protocols**  
**for Mill Creek Ponds**

The County of Mendocino is committed to protecting its fish, wildlife, and plant resources, as well as supporting working landscapes. Since the spread of damaging aquatic invasive species (AIS), such as Quagga Mussels and Zebra Mussels, in California continues to grow each year, preventing the infestation of those species into waters within the County's borders is an important consideration requiring proactive measures.

The water bodies owned and managed by the County of Mendocino include two reservoirs (Mill Creek Ponds) at Mill Creek County Park in Talmage, and preventing potential introduction of Quagga and Zebra Mussels into the ponds is within the jurisdiction and authority of the County. As such, all departments of the County of Mendocino, contractors for the County of Mendocino, and other government agencies that perform work in or around or withdraw water at Mill Creek Ponds will be required to follow the AIS Decontamination Protocol outlined below. This protocol has been developed by the California Department of Fish and Wildlife, and represents the most current scientific knowledge on how to prevent the spread of aquatic invasive species.

California Department of Fish and Wildlife  
Aquatic Invasive Species Disinfection/Decontamination Protocols (Northern Region)  
Revision February 2016

Facts about Quagga and Zebra Mussels (Dreissenid mussels)

- Dreissenid mussels multiply quickly and out-compete other species for food and space.
- Dreissenid mussels attach to hard and soft surfaces, and physically disrupt water delivery systems, hydroelectric facilities, agriculture, recreational boating and fishing.
- Their presence can alter food webs and environments, negatively affecting native and game fish species.
- Adults can survive up to 30 days out of water in cool, humid conditions.
- They produce microscopic larvae that can be unknowingly transported in water, including live-wells, bilges, and motors.

General procedures to prevent the spread of AIS:

- If decontamination is not done on site, transport contaminated equipment in sealed plastic bags and keep separate from clean gear.
- Gear may be dedicated for a specific field site but should be left on site and be cleaned when moved off site.
- Sets of field gear may be rotated in and out of field per cleaning cycle.
- When practical, begin work upstream and work downstream. This avoids transporting AIS to non-infested upstream areas.



## **Equipment Decontamination/Disinfection Methods**

### Option 1: Standard Decontamination (Office Method)

#### Freeze + Saltwater Immersion + Dry

This option consists of three parts, as freezing alone may not kill some organisms (e.g. chytrid fungus, Sudden Oak Death Syndrome, etc.).

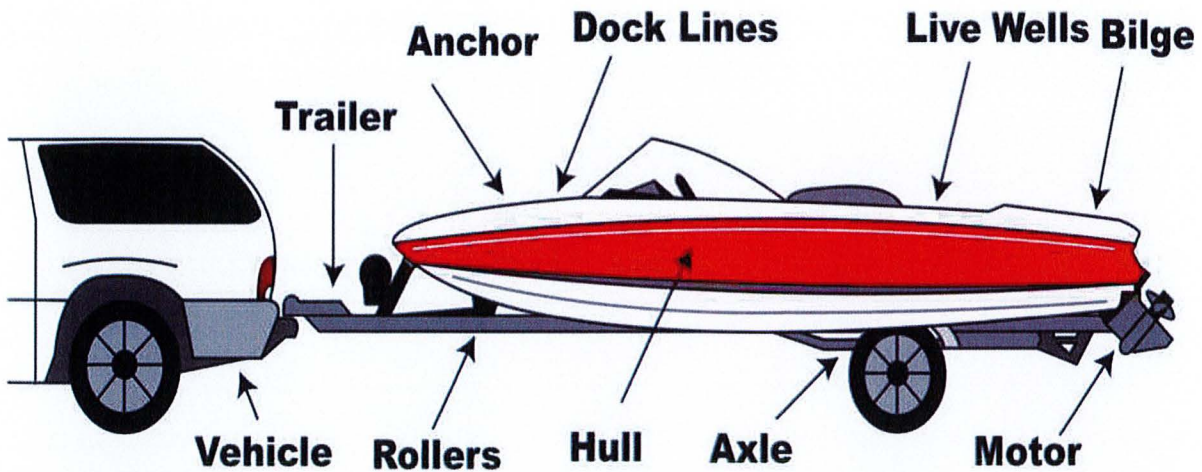
- Scrub gear before leaving field with a stiff-bristled brush to remove all debris. Thoroughly brush small crevices such as boot laces, seams, net corners, etc.
- Bag gear for transport from field to office.
- Place gear and bag in a freezer below 32°F for a minimum of eight hours.
- Thaw gear and bag.
- Immerse gear and bag in 5-10% saltwater solution for 10 minutes.
- Rinse gear and hang gear to dry.

### Option 2: Chemical Treatment (Field Method)

In general, chemical decontamination/disinfection should only be used when Option 1 cannot be performed, and clean gear is not available. This would be the case when conducting activities at more than one watershed or between long distances with one set of gear before returning to the base office where a freezer, saltwater immersion and drying rack are located.

- Prepare disinfection solution by diluting concentrate containing GS HD 256 (quat) in a well-ventilated space using gloves, eye protection and a NIOSH approved N95 filter mask. See Dilution Table on page 4 for dilution factors. Pour decontamination solution into a suitable holding container and submerge gear for at least 10 minutes. Gear may need to be weighed-down and/or rotated for complete and sustained immersion.
- Check field gear immersed in disinfection solution and inspect it to make sure all surfaces have been wetted for the required time.
- After treatment, rinse field gear with fresh water (not water from previous waterbody--to avoid further contamination). Dispose of rinse water at least 100 feet from any surface water.
- Make up fresh solution as needed and discard after it becomes heavily soiled with organic matter. Check with quat test strips: readings should be above 500 ppm for adequate disinfection.
- Disinfection solution should be saved to be disposed of in a wastewater sewer facility (not in a septic system) or it can be neutralized on site. For onsite neutralization of quat solution, mix the remaining working solution with bentonite clay as directed in the Dilution Table, below. Mix the bentonite/quat. decontamination solution slurry a couple of times before pouring it out on the ground at least 100 ft. away from surface water. This method will neutralize quaternary ammonium in 3-5 hours.

## Watercraft Decontamination



- Prior to leaving the launch area, remove all debris from your watercraft, trailer, and equipment. Dispose of all material in the trash, on site if possible.
- Prior to leaving the launch area drain all water from your watercraft and dry all areas, including motor, motor cooling system, live wells, bilges, and lower end unit. Before leaving water body area, run motor dry for 5-10 seconds to flush water from engine.
- After leaving a *known or suspected invasive mussel infested water* pressure wash the watercraft and trailer at base facilities, with 140°F water, including all of the boat equipment (i.e. ropes, anchors, etc.) that had come into contact with the water.
- Flush the engine, live wells, bilges, and all other areas that could contain water with hot water that is at least 140°F. Make sure that water is contained sufficiently so that it doesn't run into storm drains or surface waters.

## **Activities, Equipment and Watercraft Subject to Decontamination**

### Water Quality Sampling

Temperature, depth, dissolved oxygen, pH, conductivity, calcium concentration, water

### Biological Monitoring

Boats and other flotation devices and associated gear

Waders and boots

Dip nets, angling gear

### Water Withdrawal Equipment

Intake hose: water truck or fire response helicopter

Dip bucket: fire response helicopter

### Trout Stocking for Recreational Angling

Water supply at fish rearing facility must adhere to CDFW AIS Protocol

## **Affected Entities**

### Mendocino County Departments and Agencies

Water Agency

Transportation

Parks and Recreation

Environmental Health

Public Health

### California Agencies

Department of Fish and Wildlife

Division of Safety of Dams

Department of Boating and Waterways

Department of Forestry and Fire Protection

### Private Companies Contracting with County of Mendocino

Fire Response – water tender

General Construction – water tender

### U.S. Government Agencies

USDI Bureau of Land Management

### Notice of Receipt and Confirmation of Conformance

As the \_\_\_\_\_ of the \_\_\_\_\_  
*Official's Position* *Department and Agency*

I confirm that I have read and understand the protocol described by the California Department of Fish and Wildlife, and agree to follow said protocol when representatives of the \_\_\_\_\_ perform work at or associated with the two reservoirs at Mill Creek County Park in the County of Mendocino.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date