

# QUAGGA MUSSEL ALERT!!

QUAGGA MUSSELS HAVE NOW BEEN REPORTED AT LAKE MEAD, LAKE MOHAVE AND LAKE HAVASU, ALONG WITH VARIOUS OTHER PARTS OF THE SOUTHERN COLORADO RIVER!

***INTRODUCING QUAGGA MUSSELS TO LAKE POWELL  
(KNOWINGLY OR UNKNOWINGLY) IS PUNISHABLE  
BY HARSH FINES AND IMPOUNDMENT OF VESSEL!***



## WHAT ARE THEY?

They are freshwater, bivalve mollusks that typically have a dark and white pattern on their shells. They are alien to North America but have invaded many of our waters, east of the 100th Meridian. There are two species of *Dreissena* in North America, typically referred to as "Zebra Mussels" and "Quagga Mussels." Despite some minor morphological and ecological differences, both species are very similar and pose a significant threat to our waters. The Quagga Mussels are usually about an inch or less long, but may be larger.

## WHY ARE QUAGGA MUSSELS A PROBLEM?

When they are present, there are usually millions of them. They are biofoulers that occlude pipes in municipal and industrial water systems, requiring millions of dollars annually to treat. The mussel densities have been reported to be over 700,000 individuals per square meter in some facilities in the Great Lakes area. They produce microscopic larvae that float freely in the water column, and thus can pass by screens installed to exclude them. They are extremely harmful to native organisms, fisheries and eventually entire ecosystems. They out-compete other filter feeders, starving them. Imagine your favorite sandy beach at Lake Powell, only covered with foul smelling, sharp shelled Quagga Mussels.

## WHAT ARE YOU REQUIRED TO DO?

All water craft are potential vectors for spreading aquatic nuisance species. **IF YOUR BOAT HAS BEEN IN ANY BODY OF WATER KNOWN TO HAVE QUAGGA OR ZEBRA MUSSELS PRESENT, PLEASE TAKE YOUR BOAT TO THE LAKE POWELL WASHING STATION WHERE THEY WILL PRESSURE WASH YOUR BOAT FREE OF CHARGE.** It is imperative that all boaters accept the responsibility to take the necessary steps to prevent the introduction of the nuisances to Lake Powell. Once they are there, their rampage on the Lake is virtually unstoppable.

- ✓ *Drain water from motors, livewell and bilge on land before leaving any infected lake or river.*
- ✓ *Flush the motor, livewell and bilges, and wash the hull, equipment, and any other exposed surface with hot, soapy water or a 5% solution of household bleach.*
- ✓ *Inspect boat, trailer and vehicle and remove visible mussels. Also feel for rough spots that could be young mussels that are hard to see.*
- ✓ *Clean and wash trailer, truck or equipment that has contact with mussel-infested water. Mussels can live in nooks anywhere water collects.*
- ✓ *Air-dry the boat and equipment for at least five days before launching in another waterway.*
- ✓ *Don't re-use fish bait that has been exposed to mussel-infested water.*

Additional information can be found at:

[www.protectyourwaters.net](http://www.protectyourwaters.net) [www.100thMeridian.org](http://www.100thMeridian.org) [www.lakepowell.org](http://www.lakepowell.org)