

# Colorado River AIS Task Force Meeting August 11, 2016

Watercraft Inspection and Decontamination  
Programs In the Western United States

Presented By  
"Quagga D" Davis

# Funded By



# In Cooperation With



# Zebra/Quagga Mussels are a significant Aquatic Invasive threat to the WEST

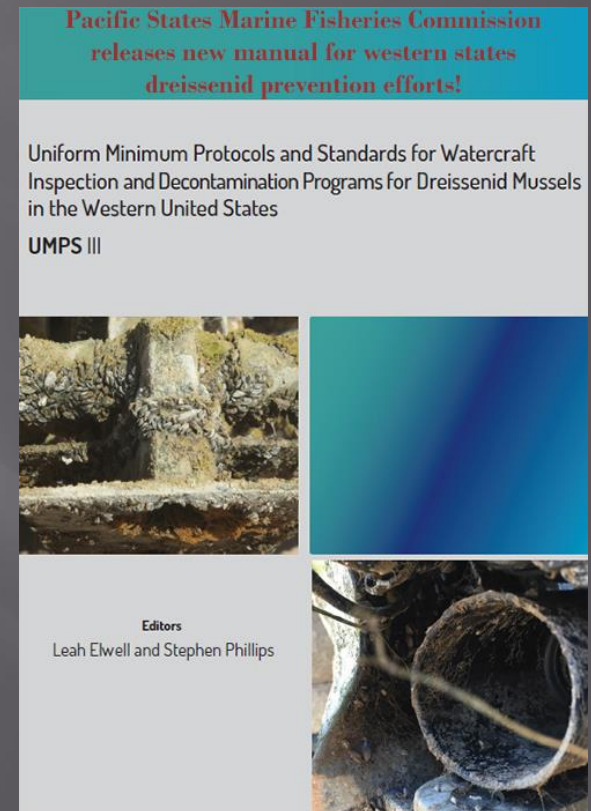




# UMPS – Uniform Minimum Protocols and Standards

- ✓ Created for Western United States '09
- ✓ Revised Version Jan '12 – UMPS II
- ✓ New look – UMPS III released March 2016!

[www.westernais.org](http://www.westernais.org)



# Why UMPS?

- Increase effectiveness by using the best available science and technology
- Encourage and support the implementation of the most effective region-wide interception strategies
- Have programs more consistent to reinforce the prevention message with
  - Boaters
    - Make it easier to understand “Clean Boating” Principles
  - The Public –
    - Water End User
  - Law and policy makers

# UMPS 2016 Program Descriptions

- ▣ **Self Inspection –**  
Voluntary/Mandatory
  - Low cost program
- ▣ **Screening Interview**
  - Asking vessel operator a series of questions prior to launch
- ▣ **Comprehensive Program**
  - Estimate 30 Western State, Federal, Tribal, Agencies & Organizations currently operate this type of Intervention Program

## Western States Boat Inspection Information **We're All in This Boat Together**

**Alaska:** Department of Fish & Game (907)465-6183  
[www.adfg.alaska.gov/index.cfm?adfg=invasive.main](http://www.adfg.alaska.gov/index.cfm?adfg=invasive.main)

**Arizona:** Game and Fish Department  
[www.azgfd.gov/ais](http://www.azgfd.gov/ais)

**California:** Department of Fish & Wildlife (866)440-9530  
[www.dfg.ca.gov/quaggamussel/](http://www.dfg.ca.gov/quaggamussel/)

**Colorado:** Parks & Wildlife (303)291-7295  
[www.parks.state.co.us/boating/newboatinspection/](http://www.parks.state.co.us/boating/newboatinspection/)

**Idaho:** Department of Agriculture (877)336-8676  
[www.invasivespecies.idaho.gov](http://www.invasivespecies.idaho.gov)

**Kansas:** Depart. of Wildlife, Parks & Tourism (620)342-0658  
[www.protectKSwaters.org](http://www.protectKSwaters.org)

**Lake Tahoe:** AIS Program (888)824-6267  
[www.TahoeBoatInspections.com](http://www.TahoeBoatInspections.com)

**Montana:** Depart. of Fish, Wildlife & Parks (406)444-2449  
[fwp.mt.gov/fishandwildlife/management/ais/inspectcleandry.html](http://fwp.mt.gov/fishandwildlife/management/ais/inspectcleandry.html)

**Nevada:** Department of Wildlife (775)688-1314  
[www.ndow.org](http://www.ndow.org)

**Nebraska:** Invasive Species Project  
[www.snr.unl.edu/invasives/boater.htm](http://www.snr.unl.edu/invasives/boater.htm)

**North Dakota:** Game & Fish (701)770-0920  
[www.gf.nd.gov/fishing/ans.html](http://www.gf.nd.gov/fishing/ans.html)

**Oregon:** Dept. Fish & Wildlife, State Marine Board  
[www.boatoregon.com](http://www.boatoregon.com) (503)947-6000

**South Dakota:** Game, Fish & Parks (605)223-7700  
[www.gfp.sd.gov/wildlife/nuisance/aquatic](http://www.gfp.sd.gov/wildlife/nuisance/aquatic)

**Utah:** Division of Wildlife Resources  
[www.wildlife.utah.gov/dwr/invasive-mussels.html](http://www.wildlife.utah.gov/dwr/invasive-mussels.html)

**Washington:** Depart. of Fish & Wildlife (888)WDFW-AIS  
[www.wdfw.wa.gov/ais](http://www.wdfw.wa.gov/ais)

**Wyoming:** Game & Fish Department (877)WGFD-AIS

Expect Inspections  
**CLEAN.DRAIN.DRY**



# WIT/WID Objective

Course designed for those who are implementing Watercraft Inspection and/or Decontamination programs for their respective agencies, organizations or businesses.



WIT I – Inspection

WIT II – Inspection/Decontamination

WIT III – Trainer Training

# Student Training Curriculum

Student Training Curriculum for Watercraft  
Inspectors and Decontaminators  
to Prevent and Contain the Spread of  
Aquatic Invasive Species in the U.S.A.



Version 2 – Updated February 1, 2016



- Incorporates the science
- Step by Step **procedures** to prevent **the transfer of** ZQM and Other AIS and
- the **objective** is to keep Recreational use open



# Training Components

## ▣ Student Curriculum

- **Introduction** and Western AIS Programs
  - ▣ Purpose, Listing & DeListing
- Zebra/Quagga and Other AIS **Biology**
  - ▣ Life Cycle and Vectors
- Watercraft Anatomy and **Risk Assessment**
  - ▣ Identify low/high risk vessels
- **Inspection** Procedures
  - ▣ NO Mud, Plant, Animals or Water
- **Decontamination** Procedures
  - ▣ KILL and Remove



# Practice Skills

- **REVIEW** Homework via Power points
- **HANDS ON – Outdoor Exercises**
  - Boat anatomy
    - Hand Launched – Very Complex
  - Inspection procedures
    - Exit/Entrance Scenarios
    - Where to Find Mussels
  - Decontamination procedures
    - Standing Water
    - Engine Flush
- Standard Exam
  - 80% or Better



# WIT I

## Watercraft Inspection Training

- ▣ WIT I – Inspector
  - Entrance/Exit Inspections
  - Prevention/Containment
  - **HIGH Risk** Inspections
  - Step By Step Procedures

How to inspect and why we  
Need to educate boaters on



Clean, Drain & Dry!!



# WIT II Watercraft Inspection and Decontamination Training (WID)

- ▣ Delivered over 2 days:
  - Focus on Additional Inspection practice
  - Triggers and Step-By-Step procedures of Decontaminations on various types of vessels.





# Triggers for Standing Water Decontamination

- ▣ Watercraft has been in positive or infested water in last 30 days, was not decontaminated upon exit, and has ANY standing water present
  - Should be done for ballast tanks, I/O and Inboards leaving containment waters intended for another location next.
- ▣ Watercraft is **unable to be fully drained** and cannot be sponged, towed, or pumped out

# What Does Decon Consist Of?

- ▣ Hot Water to Kill
- ▣ Low pressure to flush
- ▣ High pressure to remove
  
- ▣ Based on Scientific Research
  - 140°F rinse for 10 seconds kills adult mussels
    - ▣ *Morse, 2009*
  - 95°F kills veligers
    - ▣ *Craft and Myrick, 2011*



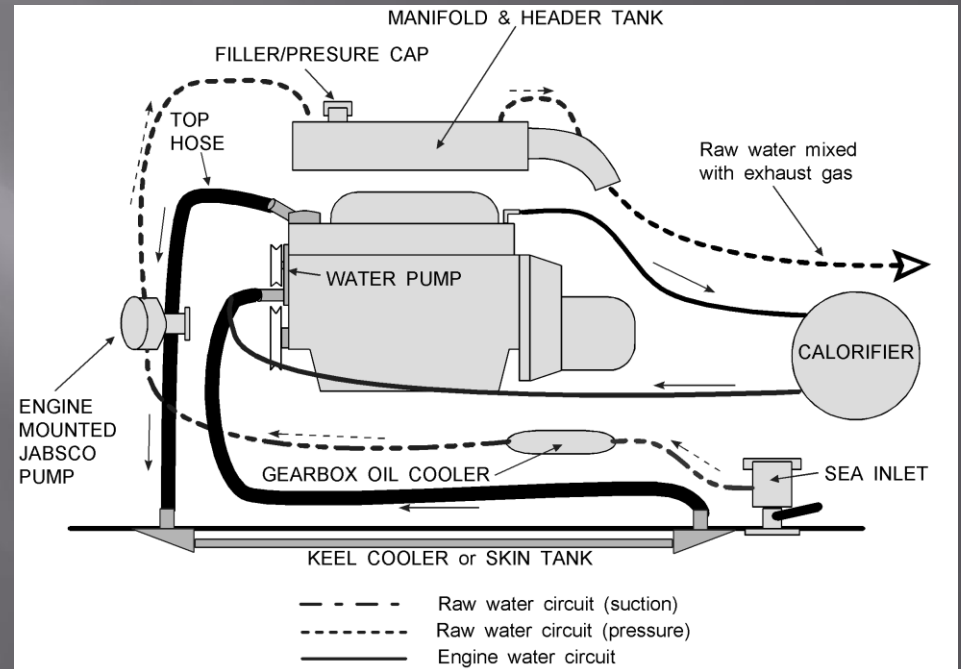
# Four Types of Decontamination

- ▣ Standing water decontamination
  - Interior Compartments
  - Engines or Motors
  - Ballast Tanks
- ▣ Plant decontamination
- ▣ Bait treatment
- ▣ **Full** decontamination



# What Other Devices can be OnBoard?

- ▣ A/C
- ▣ Generator
- ▣ Wash Downs
- ▣ Ballast Systems
- ▣ Bilge



Anything that takes RAW Water -



# Decontamination Equipment Safety and Operations

Environmentally Friendly Mobile Wash and Reclaim System  
ECOS - 7000

Recovers, cleans and recycles the water  
Meets most municipal and environmental regulations



5 GPM  
3-3500 PSI  
Operating temperature  
180 degrees F

# Trainers Manual

## Trainer's Manual for AIS Watercraft Inspection and Decontamination Certification Courses



Version 2 - February 1, 2016



The Western Regional Panel  
for Invasive Species



Provides consistent  
guidance to trainers

More WIT III  
trainings have been  
added to 2017

Qualifications  
include attending  
WIT II

# WIT III – Trainers

Trainers must learn WHAT information is available  
(Student Manual)

HOW to apply the information (Trainer Manual) and

WHY the procedures must be understood in order to be of  
benefit to them. (Effective Adult Learning)

- Consistent in fundamentals of WIT/WID in their local Program. (Laws/Rules)

# Prevention/Containment





# Upcoming Trainings

## Fall 2016

- WIT III – September - Lake Mead – Already Full
- WIT II – October 11-12– Lake Mead – 1 spot left
- WIT II – November 8-9 – Lake Mead



2017 – Host a WIT II Training – March, April or May?  
Providing More WIT III trainings – Feb, March, April

# QUESTIONS ?



Lake Mead Quagga Updates



Lake Mead Quagga

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Watercraft Inspection Training program

<http://www.westernais.org/>

*See training Tab*

