

Equipment	Decontamination Method by Risk Level for Aquatic Activities and Equipment			Equipment Needed	Estimated Time
	Low	Medium	High		
Waders	Visually inspect waders and remove mud and debris before leaving and upon entering a new site. Rinse and dry waders.	Follow steps for low risk. Clean with pressure washer.	Follow steps for medium risk. Whenever possible, dry waders for > 5 days before using at new site. If not possible, disinfect with bleach solution or hot water pressure wash (140°F/60°C for <u>10 second contact time</u>)	Scrub brush, rinse water, towels, heated pressure washer, pressure washer or pump sprayer; bleach solution: ½ cup [4 oz] bleach to 5 gallons of water or 1/10 cup bleach per one gallon of water <u>10 minutes contact time</u>	5-15 minutes (or 5 days dry time)
Kayaks and Canoes	Visually inspect and remove mud and debris before leaving and upon entering a new site. Rinse and air or towel dry when necessary.	Follow steps for low risk. Disinfect interior and exterior with bleach solution or hot water pressure washer before moving between waterbodies. Or, if possible, dry equipment and gear for > 5 days before using at new site.		Scrub brush, rinse water, towels; bleach solution: ½ cup [4 oz] bleach to 5 gallons of water or 1/10 cup bleach per one gallon to water <u>10 minutes contact time</u>	5-15 minutes (or 5 days dry time)
Boats and Trailers	Inspect and clean exterior surfaces, removing visible vegetation, dirt and debris. Drain bilge, live wells, etc.	Follow steps for low risk. Flush motor cooling system. Hot water pressure wash (140°F/60°C for <u>10 second contact time</u>) or spray with bleach solution.		Brush, motor flusher, pressure washer, towels; bleach solution: ½ cup [4 oz] bleach to 5 gallons of water or 1/10 cup bleach per one gallon water <u>10 minutes contact time</u>	10-45 minutes (or 5 days dry time)
Portable Pumps	Inspect and clean exterior surfaces, removing visible vegetation, dirt and debris. Drain.	Follow steps for low risk. Clean, pressure wash, drain, and dry. Whenever possible, avoid moving pumps unless they can be dried for ≥5 days.		Brush, pressure washer or pump sprayer	10-20 minutes (or 5 days dry time)
Aquatic Sampling Gear (nets, traps, etc.)	Inspect and clean exterior surfaces, removing visible vegetation, dirt and debris.	Follow steps for low risk. Spray with pressure washer to clean.	Follow steps for medium risk. Disinfect aquatic equipment and gear with bleach solution before entering new waterbodies, hot water pressure wash, or dry for >5 days	Brush, heated pressure washer, pressure washer or pump sprayer; bleach solution: ½ cup [4 oz] bleach to 5 gallons of water or 1/10 cup bleach per one gallon water <u>10 minutes contact time</u>	10-20 minutes (or 5 days dry time)

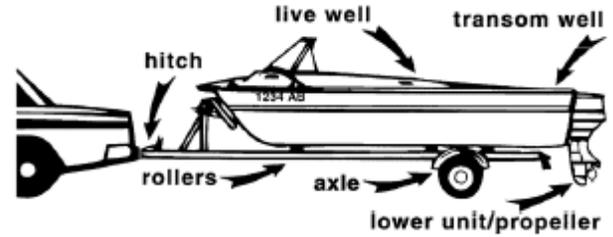
*Follow manufacturer's specifications when using heated water or chemical solutions. Wear appropriate protective equipment. Note that bleach may degrade certain materials and stain clothing.

Aquatic Decontamination Equipment	Instructions for Use
<input type="checkbox"/> Gloves <input type="checkbox"/> Safety glasses <input type="checkbox"/> Brush <input type="checkbox"/> Towels <input type="checkbox"/> Bleach <input type="checkbox"/> Garbage bags <input type="checkbox"/> Handheld pump sprayer	Provided is a list of equipment that you will need to conduct Invasive Species Decontamination in the field. Ensure you have the necessary items before leaving for the field. You will need to take the Aquatic Decontamination Kit with you to the field. The table below provides guidance on the appropriate decontamination procedures based on level of risk. For additional guidance on assessing risk level, please see the risk table on the flip side of this check-list.
Boats, Boat Motors and Portable Pumps	
<input type="checkbox"/> Portable Pressure Washer <input type="checkbox"/> Water Source (for Pressure Washer) <input type="checkbox"/> Heated Pressure Washer	

CLEAN BOATS CLEAN WATERS

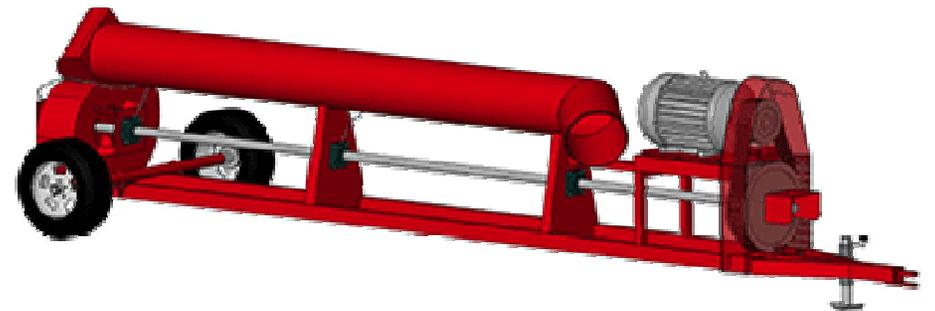


WATERCRAFT CHECK POINTS



- | | | |
|---------------------------------------|--|---|
| <input type="checkbox"/> Anchor | <input type="checkbox"/> Ladder | <input type="checkbox"/> Spare tire |
| <input type="checkbox"/> Axle | <input type="checkbox"/> Landing net | <input type="checkbox"/> Tackle |
| <input type="checkbox"/> Bait bucket | <input type="checkbox"/> License plate | <input type="checkbox"/> Tow rope |
| <input type="checkbox"/> Bunks | <input type="checkbox"/> Motor | <input type="checkbox"/> Trailer |
| <input type="checkbox"/> Bow line | <input type="checkbox"/> Wheels | <input type="checkbox"/> Transducer |
| <input type="checkbox"/> Fishing line | <input type="checkbox"/> Live well | <input type="checkbox"/> Transom well |
| <input type="checkbox"/> Floor | <input type="checkbox"/> Lights/wiring | <input type="checkbox"/> Trolling motor |
| <input type="checkbox"/> Hull | <input type="checkbox"/> Rollers | |
| <input type="checkbox"/> Intake pipe | <input type="checkbox"/> Prop | |

Personal Decontamination in Aquatic Situations	Low	Medium	High
Inspect and remove debris from waders, clothing, etc.	x	x	x
Rinse waders with pressure washer; clean gear with bleach solution		x	x
Disinfect with bleach, heated pressure wash or Dry waders, gear for > 5 days			x
Kayaks and Canoes	Low	Medium	High
Inspect and remove mud & debris (rinse, dry)	x	x	x
Disinfect vessel with bleach solution or heated pressure wash, or Dry for > 5 days		x	x
Boats	Low	Medium	High
Inspect and remove mud and debris	x	x	x
Clean, drain, dry including bilges, live wells, etc.	x	x	x
Disinfect with bleach solution or heated pressure wash or dry for >5 days		x	x
Portable Pumps	Low	Medium	High
Inspect and remove mud and debris	x	x	x
Pressure wash, drain and dry. If possible dry for >5 days		x	x
Aquatic Sampling/Trapping Equipment	Low	Medium	High
Inspect and remove debris from traps, nets, etc.	x	x	x
Clean equipment with pressure washer		x	x
Clean with bleach solution, heated pressure wash or dry Equipment for >5 days			x
For additional guidance on terrestrial equipment and work environments, refer to instructions contained within Terrestrial Decontamination Materials. For more information on methods or special situations, refer to the Wildlife Guidance Document.			



Additional Resources

- Best Control Practice Guides – Information on species ecology, control and treatment**
<http://www.michigan.gov/invasivespecies> and click on publications
- MISIN – Resources for identification, species distribution and reporting**
<http://www.misin.msu.edu/>
- Invasive Species Contact List – Species-specific contacts for information or reporting invasive species occurrences**
http://www.michigan.gov/documents/dnr/Invasive_Species_Contact_Table_411161_7.pdf