



Department of Toxic
Substances Control



Doc. No.

Hazardous Waste Management

Pollution Prevention For Marine Vessel and Service Repair Facility

Hazardous waste generated at any MVSR facility requires proper management. Given the facilities proximity to open waters, this is especially important. Hazardous wastes are generated by operations or services provided at MVSR facilities. These could be from staff or external contractors operating in the facility. All hazardous wastes require special handling and proper disposal.



Environmental Concerns:

Failure to properly manage hazardous waste leads to spills or incompatible mixtures of wastes that cause health and safety emergencies. They also represent violations of hazardous waste and used oil regulations. Hazardous waste releases degrade water quality and threaten aquatic plants, sea life, human health and safety.

Pollutants:

- Chemicals (stripping, cleaning)
- Invasive species (bottom growth)
- Fuel (engine repairs, fueling)
- Metals (painting)
- Oily water (bilge water, oil/water separators)
- Sewage
- Solvents (cleaning, degreasing)
- Trash and debris

Regulatory Requirements

1. **Contact the Department of Toxic Substances Control** ⁱ ([DTSC](#)) at (800) 728-6942
 - Hazardous Waste Management ⁱⁱ ([Definitions](#))
 - Hazardous Waste Management Generator Requirements ⁱⁱⁱ ([Generator](#))
 - Contact your local Certified Unified Program Agency ^{iv} ([CUPA](#)) online
 - **Please contact your local [Fire Department](#)**
2. **California Air Resources Board** ^v ([www.arb.ca.gov](#)):
 - Air Resources Board's ^{vi} ([Coatings Program](#))
 - Local Air Quality Management District's (AQMDs) in California have delegated authority for Title V permitting. **Please contact your local air district:** ^{vii} ([California Air Districts](#)).
3. **State Water Quality Control Board** ^{viii} ([www.swrcb.ca.gov](#)):
 - National Pollutant Discharge Elimination System ^{ix} ([NPDES Permit](#))
 - Publicly Owned Treatment Works ^x ([POTW](#))
4. **California Division of Occupational Safety and Health** ^{xi} ([CAL/OSHA](#))
 - Personal Protective Equipment ^{xii} ([PPE](#))



Recommended Practices (RPs) for Hazardous Waste Management

The MVSR facility is responsible for compliance with federal, state, and local laws regarding hazardous waste storage, handling, transportation, record keeping and disposal. The following recommended practices help with hazardous waste management:

1. Hazardous Waste Storage: Hazardous waste requires safe storage at or near its point of generation;

- Designate an area with adequate hazardous waste storage facility on site. It should not be located in a high traffic area
- Provide secondary containment for all containers
- Keep containment area clean and protected from the weather
- Segregate waste to ensure that only waste that is hazardous is managed as hazardous waste and storage containers are separated based on hazard class and chemical compatibility
- Ensure hazardous wastes are stored in containers compatible with their contents
- Store hazardous wastes in sealable containers
- Keep all containers closed. Use snap top funnels to ensure that containers and tanks are properly sealed when not in use
- Do not allow any accumulation of water or liquid on the top of containers
- All containers and tanks must have a label clearly identifying their contents. This prevents mixing incompatible wastes
- Do not overfill – leave at least 1 inch of headspace
- Do not accumulate more than 55 gallons of waste at any one time



- Provide spill kits and empty containers for emergency clean-up
- Ensure the availability and appropriate eyewash and shower equipment within the work area
- Personnel working in a hazardous waste storage area should be familiar with the locations and proper uses of the nearest fire extinguishers, emergency eyewash and showers, and spill kits
- Contract with a licensed
- ^{xiii} [hazardous waste transporter](#) for waste disposal at a ^{xiv} [permitted disposal facility](#)
- Every six months review storage of products and properly dispose of old or unnecessary products



2. **Pollution Prevention Education:** The MVSR facility should provide guidance about pollution prevention to employees and boaters;
- Use pamphlets, flyers, newsletters, inserts, and meetings to communicate the importance of all environmental and safety policies instituted at the facility
 - Install adequate signage identifying waste disposal practices
 - Provide convenient trash disposal and recycling facilities to all patrons.
 - Keep recyclable hazardous waste such as lead-acid batteries, used oil, oil filters, antifreeze, and zinc anodes segregated from other waste. Take items to a hazardous waste disposal facility to be recycled



- Implement recycling and trash reduction programs for appropriate materials, such as glass, aluminum, plastic, trash, newspapers, batteries and oil.
 - Organize a shoreline cleanup along the body of surface water near the Facility. For more information contact the California Coastal Commission at 800-COAST4U
3. **Invasive species** readily colonize vessel cooling water and bilge systems. They also colonize bait tanks and other surfaces such as hulls, through-hull fittings, and drive trains;
- Wastewaters produced when cleaning such systems and surfaces should be filtered to remove spores, larvae and bits of adult fouling organisms.
 - Solids removed from these wastewaters should be contained and disposed of in a landfill. This avoids releasing them to surface waters where they may disrupt local aquatic and marine ecosystems

References and Other Resources:

- i. <http://www.dtsc.ca.gov>
- ii. http://www.dtsc.ca.gov/HazardousWaste/upload/HWMP_DefiningHW11.pdf
- iii. http://www.dtsc.ca.gov/HazardousWaste/upload/HWM_FS_Generator_Requirements.pdf
- iv. http://www.dtsc.ca.gov/InformationResources/local_contacts.cfm
- v. www.arb.ca.gov
- vi. <http://www.arb.ca.gov/coatings/coatingsrules.htm>
- vii. <http://www.arb.ca.gov/capcoa/roster.htm>
- viii. <http://www.swrcb.ca.gov/>
- ix. http://www.swrcb.ca.gov/water_issues/programs/npdes/
- x. http://www.swrcb.ca.gov/water_issues/programs/npdes/pretreat.shtml
- xi. <http://www.dir.ca.gov/dosh/puborder.asp>
- xii. http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9777
- xiii. <http://www.dtsc.ca.gov/HazardousWaste/Transporters/upload/Hazardous-Waste-Transporter-Requirements.pdf>
- xiv. http://www.envirostor.dtsc.ca.gov/public/commercial_offsite.asp
- xv. http://www.dtsc.ca.gov/HazardousWaste/upload/HWM_FS_Accumulating_HazWaste_Generators.pdf

For additional information on auto body and paint shop pollution prevention practices and a list of available publications contact:

Department of Toxic Substances Control (DTSC)
Office of Pollution Prevention and Green Technology
P.O. Box 806
Sacramento, CA 95812-0806

<http://www.dtsc.ca.gov/PollutionPrevention/index.cfm>
(916) 322-3670
(800) 700-5854

Environmental Boating Program Coordinator
California Department of Boating & Waterways
California Coastal Commission
45 Fremont Street, Suite 1900
San Francisco, CA 94105

www.BoatingCleanandGreen.com
(415) 904-6905

