

PREVENT STORMWATER POLLUTION

Best Management Practices (BMPs) for Boat Building and Repair



General Information:

1. In Marin, local ordinances prohibit the discharge of pollutants to stormwater and all water bodies.
2. BMPs help to keep stormwater clean before it flows into our creeks, bays and ocean.
3. Boat building and repair yards (SIC Codes 3731 & 3732) must obtain coverage under the Industrial Activities Stormwater General Permit issued by the [State Water Resources Control Board](#).
4. Your boat building and/or repair business may require a permit from the [Marin County Certified Unified Programs Agency \(CUPA\)](#). Call (415) 473-7085 for more information.
5. Contact the Marin County Stormwater Pollution Prevention Program for information on our efforts to protect water quality in creeks, bays and the ocean: www.mcstoppp.org, 415-473-6583.
6. Prepare, update and implement a Stormwater Pollution Prevention Plan (SWPPP) that identifies pollution sources and describes BMPs implemented onsite to reduce and prevent stormwater pollution.

Training

Train employees to effectively implement your SWPPP.

Focus training on:

- Spill response and disposal of waste.
- Good housekeeping practices.
- Material management practices.
- Procedures for cleaning equipment, paved areas, etc.
- Proper painting, sanding and spraying techniques.
- Proper waste control and disposal procedures.

Pressure Washing, Boat Cleaning, Housekeeping

- Collect wash water, inspect and clean sediment traps, and remove all visible solids before discharging to the sanitary sewer.
- Obtain a permit from your local sanitary district before discharging wash water to the sanitary sewer.
- Do not discharge waste water to a storm drain or water body unless the discharged water is treated and/or specifically permitted.
- Perform pressure washing away from water bodies and in designated areas where you can contain wash water.
- Do not use soap or detergents where wash water will mix with stormwater.
- Minimize or eliminate use of detergents with ammonia, sodium hypochlorite, petroleum distillates, etc.
- Direct deck drainage to a collection system sump for settling and/or additional treatment.
- Vacuum or sweep paved surfaces regularly and determine if a permit is needed to dispose of collected materials.
- Do not hose down the work area unless wash water is collected and treated and/or permitted to be discharged to a sanitary sewer.

Designated Material Mixing Areas

- Mix paints and solvents in designated areas away from drains, ditches, piers and surface waters.
- Locate designated mixing areas preferably indoors or under a shed.

Surface Preparation, Sanding and Paint Removal

- Perform activities away from the water.
- Contain blasting and sanding activities by using a vacuum sander with dust containment bags to prevent abrasives, dust and paint chips from entering stormwater. Prevent remaining dust from reaching storm drains and water bodies.
- Prohibit blasting or sanding activities during windy conditions.
- Plug scuppers (openings in the side of a boat) to contain dust & debris.
- Collect spent abrasives routinely and store under a cover to await proper disposal.
- Wipe down small amounts of sanding with a damp rag.

Painting

- Prohibit spray painting activities in windy conditions.
- Use a brush or roller where possible. If a paint/spray booth is used to prevent residue from reaching surface waters, contact the [U.S. Occupational Safety & Health Administration](#) for requirements.
- Mix paints and solvents in designated, well-ventilated areas away from drains, ditches, piers and surface waters - preferably under a roof.
- Have spill kit ready and clean-up spills immediately.
- Keep hazardous materials away from traffic areas to avoid spills.
- Recycle or reuse and properly dispose of paint, paint thinners and solvents.
- Use vacuum sanders with dust-containment bags for paint removal.
- Use alternatives to copper-based anti-fouling paints - visit the UC Sea Grant Extension Program at <http://seagrants.ucdavis.edu> for information.
- Avoid using TBT-based (tributyltin) paint.
- Manage and dispose of lead based paint residues in accordance with state requirements.
- Do not allow hull scraping or paint removal that occurs underwater.

Bulk Liquid Storage and Containment

- Maintain integrity of all storage tanks.
- Inspect storage tanks to detect potential leaks and perform preventive maintenance.
- Inspect piping systems (pipes, pumps, flanges, couplings, hoses, valves) for failures or leaks.
- Train employees on filling and transfer procedures.

Containerized Material Storage

- Store fuel, paints, solvents, cracked batteries etc. using non-leaking secondary containment and in a protected, secure location away from drains.
- Store permanent tanks in a paved area surrounded by a dike system which provides sufficient containment for the larger of either 10% of the total volume or 110% of the volume of the largest tank or drum.
- Store reactive, ignitable or flammable liquids according to local fire code requirements.
- Control excessive purchasing, storage and handling of potentially hazardous materials.
- Keep records on the quantity, receipt date, service life, users and disposal routes of hazardous materials.
- Secure and carefully monitor hazardous materials to prevent theft, vandalism and misuse.
- Provide sufficient containment for outdoor storage areas for the larger of either 10% of the total volume of all containers or 110% of the largest tank.
- Use temporary containment where required, such as portable drip pans.
- Use spill troughs for drums with taps.

If Spills Occur

- Stop the source of the spill immediately.
- Contact 911 and Cal OES at (800) 852-7550 an emergency situation with imminent threat to people, property, or the environment.
- Contain the liquid until cleanup is complete.
- Deploy oil containment booms if the spill may reach water or a storm drain.
- Cover the spill with absorbent material.
- Keep the area well ventilated.
- Dispose of clean-up materials properly.
- Do not use emulsifiers or dispersants.

Bilge and Ballast Water

- Collect and dispose of bilge and ballast waters that contain oils, solvents, detergents or other additives to a licensed waste disposal company.

Shipboard Sanitary Waste Disposal

- Discharge sanitary wastes from the ship being repaired to the sanitary sewer system or contact a commercial waste disposal company to obtain disposal services.
- Use appropriate material transfer procedures, including spill prevention and containment activities.

Engine Maintenance and Repairs

- Properly dispose of greasy rags, spent coolant, degreasers and other hazardous waste.
- Label and track the recycling of waste material (i.e. used oil, spent solvents, batteries, etc.).
- Recycle oil, oil filters and other recyclable materials.
- Promptly transfer used fluids to the proper container. Do not leave full drip pans around the shop.
- Do not pour liquid waste down floor drains, sinks or outdoor storm drain inlets.
- Plug floor drains that are connected to the storm drain or sanitary sewer. If necessary, install a sump that is pumped regularly.

Inspections

- Conduct inspections as required by the Industrial General Permit and by other permits.
- Review BMPs after each inspection and modify the SWPPP as needed to protect our water resources.

Hazardous Waste Disposal

- Businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month (known as Conditionally Exempt Small Quantity Generators) can take advantage of a countywide program. Costs are based on the type and amount of hazardous waste brought in for disposal. Businesses must have a California ID number to dispose of their waste.
- Obtain your ID number: call 1-800-618-6942 or go to www.dtsc.ca.gov/IDManifest/index .
- Appointments are necessary. Novato businesses should call 415-892-6395. All other businesses in Marin may call 415-485-5648.



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If you are a person with a disability and require materials in alternative formats, please call 415-473-4381 (voice) or CRS 711 or email disabilityaccess@marincounty.org.