

RADIATOR REPAIR POLLUTION PREVENTION GUIDELINES

Purpose

The purpose of this information sheet is to describe the Pollution Prevention Practices for radiator repair facilities to help comply with the District's Pollution Prevention Permit conditions. Pollution Prevention Practices focus on the reduction or elimination of pollutants or wastes at the source.

This Pollution Prevention Practice information consists of required practices which are specified in the EBMUD Wastewater Discharge Permit issued to your shop and additional practices such as good operation practices, process modification and material substitution. This document provides detailed information on these practices.

REQUIRED POLLUTION PREVENTION PRACTICES

Sealing Floor Drains

- ⇒ Seal all floor drains in both the service and the storage areas to prevent contaminated wastewater from discharging to the sanitary sewer, as prohibited by your Permit. Check with you local fire department and building departments and property owners before sealing. If there is a problem meeting this Permit requirement, contact your wastewater control representatives.
- ⇒ Make sure employees do not pour discarded radiator and automotive wastes down sinks, toilets, or floor drains.

Post a Sign

⇒ Post your Discharge Prohibition sign in a high profile area to remind employees and to inform customers and others of the discharge prohibition. Additional copies are available by calling (510) 287-1651.

Hazardous Waste Manifests/Receipts

 \Rightarrow Provide access to hazardous waste manifest and receipts upon request by EBMUD personnel.

ADDITIONAL POLLUTION PREVENTION PRACTICES

Radiator Shop Specific Practices

| Good Operating Practice | Pollution Prevention Opportunity | |
|---|--|--|
| Remove and recycle antifreeze | To minimize drag-in | |
| Provide hang bars over boil-out tank | To allow draining and rinsing and to | |
| _ | prevent drag out | |
| Provide drain boards between tanks | To minimize spillage to the floor | |
| Blow out the residual caustic solution to | To minimize drag out to flushing booth | |
| boil-out tank using compressed air | and extend bath life | |
| Filter or settle out test tank solids when | To minimize water usage | |
| water is cloudy and reuse the water | | |
| Remove boil-out tank solids and off-haul. | To minimize the need to dump tank | |
| Reuse the liquid and reconstitute the bath | | |
| with flushing booth rinse water | | |
| Solder over drip pan rather than test tank | To prevent contamination of test tank | |
| | water with zinc and lead | |
| Clean paint spray guns in a self-contained | To prevent discharge to the sanitary sewer | |
| cleaning device. Recycle the cleaning | and minimize waste | |
| solution when it is too dirty to use. Do not | | |
| discharge to the sanitary sewer | | |
| Process Modification | Pollution Prevention Opportunity | |
| Use a recirculating flush booth or reuse | To minimize water usage | |
| flushing booth rinse water for boil-out | | |
| make-up water | To anti-time and the second | |
| Reuse test tank water in flushing booth | To minimize water usage | |
| Increase water pressure and decrease | To minimize water usage | |
| water flow in non-recirculating flush | | |
| booths | To made and the real research of the state o | |
| Use smaller process tanks with ultrasonic | To reduce the volume of wastewater | |
| cleaning for lighter jobs | To minimize hezardous vyaste valume | |
| Capture wet/dry spills with a shop vacuum and transfer to the boil-out tank | To minimize hazardous waste volume | |
| Material Substitution | Pollution Prevention Opportunity | |
| Reduce use of cleaner or flux containing | To minimize tank contamination with | |
| metal chelating compounds | metals | |
| Use a low zinc flux | To reduce zinc level in sludge | |
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To Prevent Leaks and Spills

- ⇒ Have a drip pan in place before pulling radiator drain plugs.
- ⇒ Collect leaking, dripping, and drained fluids in drip pans or containers. If different wastes are kept separate they may be recycled. Contact your recycler for specific requirements.
- ⇒ Keep a drip pan under vehicles when detaching hoses or removing parts that may cause a leak. Use a drip pan under any vehicle that may leak while working on it.
- ⇒ Use larger, low brimmed pans under cars when ordinary drip pans are too cumbersome.
- ⇒ Promptly transfer used fluids to storage for recycling. Do not leave drip pans or other open containers where they may be bumped and spilled.

Clean Floors

- \Rightarrow A sealed concrete floor or a floor with an oil-resistant coating is easier to clean and maintain.
- \Rightarrow Use dry cleanup practices such as rags or absorbent whenever possible for routine clean up.
- ⇒ When the floor requires a thorough cleaning, pre-clean heavily soiled areas before maintenance mopping.

When Spills Occur

- ⇒ Have a written spill procedure posted in areas where spills may occur. Train employees on how to respond to a spill.
- ⇒ Small spills may be cleaned up with rags. Absorbent may be used, however, used absorbent may be considered a hazardous waste. Check with your local hazardous materials management agency.

When Spills Occur (cont.)

- ⇒ Consider using a wet/dry shop vacuum cleaner to collect spills. Do not use vacuums for gasoline, solvents, or other volatile fluids because of the explosive hazards.
- ⇒ Use a special hydrophobic mop or squeegee to clean up the spill. Dispose of the wastewater in the appropriate water container.
- ⇒ For spills that leave your facility, refer to your hazardous materials response plan filed with the local fire department or other local hazardous materials (Haz Mat) authority that describes how to prepare for and respond to larger spills.
- \Rightarrow If a spill occurs that enters the sanitary sewer, call (510) 287-1651.

Handling Contaminated Rags

- ⇒ Do not launder used rags for clean up and spills of contaminated waste on site. Store soiled rags in a closed container according to you local fire codes.
- ⇒ Inform your laundry service if rags have been used for clean up of contaminated wastes. Use a laundry facility that is permitted to handle the contaminated rags.

Storing and Disposing of Waste

⇒ If you store liquid containers outdoors, keep them on a paved, impermeable surface within a berm or other secondary containment to prevent spills from leaving the site. If possible, cover the area. Rain mixed with hazardous waste must be treated as a hazardous waste.

| | EMERGENCY | |
|---|----------------------|-------------------------|
| HAZAR DOUS MATERIALS | PHONE # | FAX # |
| Alameda Co. Health Care Services, Haz-Mat Division | 507 0771 | 997 0499 |
| | 567-6771 644-7719 | 337-9432 644-6015 |
| Berkeley | 646-2286 | 646-2073 |
| Contra Costa County URBAN RUNOFF CLEAN WATER PROGRAMS | 040-2280 | 040-2073 |
| Alameda County Countywide CWP | 670-5543 | 670-5262 |
| Contra Costa County CWP | 313-2360 | 313-2333 |
| Alameda | 748-4602 | 748-4697 |
| Albany | 528-5720 | 524-9359 |
| Berkeley | 644-7719 | 644-6015 |
| Emeryville | 596-4306/4330 | 658-8095 |
| Oakland (non-hazardous materials) | 238-7116 | 238-6412 |
| Oakland (hazardous materials) | 238-7761 | 200 0412 |
| Piedmont | 420-3050 | |
| CITY PUBLIC WORKS/ENGINEERING | 120 3030 | |
| Alameda | 748-4520/748-4510 | 521-8762/748-4697 |
| Albany | 528-5788/524-9543 | 524-9359/524-9359 |
| Berkeley | 644-6523/644-6540 | 644-8830/644-6827 |
| Emeryville | 596-4330/596-4330 | 658-8095/658-8095 |
| Oakland | 615-5570/238-4777 | 615-5550/238-6412 |
| Richmond | 307-8091 | 010 0000/ 200 0112 |
| CITY FIRE/POLICE DEPARTMENTS | 30. 3301 | |
| Alameda Fire/Public Works | 748-4601/748-4508 | 748-4606/523-5322 |
| Albany Fire/Police | 528-5771/525-7300 | 528-5774/525-1360 |
| Berkeley Fire | 644-6665/644-6723 | 644-6679 |
| El Cerrito Fire | 215-4450/215-3231 | 235-6618/235-6618 |
| Emeryville Fire/Police | 596-3750/596-3700 | 420-1785/653-5883 |
| Oakland Police/Fire | 238-3259/238-3824 | 238-7761/273-3030 |
| Piedmont Fire/Police | 420-3030/420-3000 | 653-8272/420-3002 |
| Richmond | 307-8031 | |
| Regional Water Quality Control Board | | |
| Emergency Response | 286-1043 | |
| LAW ENFORCEMENT AGENCIES | | |
| Oakland Police - Environmental Crimes | 238-3259/3481 | 273-3030 |
| Alameda County District Attorney | 569-9281 | 569-0505 |
| Alameda County Sheriff's OES | 667-7721 (24 hr) | 667-7740/667-7728 |
| EPA Office of Criminal Investigations | (415) 744-2485 | (415) 744-2494 |
| US Department of Defense | 637-2972 | 637-2965 |
| OTHER | | |
| Bay Area Air Quality Management District | (415) 771-6000 | |
| California OES (Spills & Releases) | (800) 852-7550 | (916) 262-1621/262-1677 |
| Department of Toxic Substance Control | 540-3739 | 540-3937 |
| Department of Fish and Game | (707) 944-2011 | |
| East Bay Regional Park District | 635-0135 x2511 | 569-1432 |
| East Bay Municipal Utility District | 287-1651 | |
| Bay Area Storm Water Information | 1-888-BAY-WISE | |
| Alameda County Hazardous Waste Disposal | 1-800-606-6606 | |
| Contra Costa County Hazardous Waste Disposal | 1-800-750-4096 | |
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