Residential Car Washing



Outdoor Car washing that uses detergent-rich water flows down the street and into the storm drain. This water may contain high amounts of nutrients, metals, and hydroCarbons. Commercial Car wash facilities often recycle their water or are required to treat their wash water discharge prior to release to the sanitary sewer system, so most stormwater impacts from Car washing are from residents, businesses, and Charity Car wash fundraisers that discharge polluted wash water to the storm drain system. According to the surveys, 55 to 70 percent of households wash their own Cars, with the remainder going to a Commercial Car wash. Sixty percent of residents Could be Classified as "Chronic Car-washers" who wash their Cars at least once a month (Smith, 1996, and Hardwick, 1997). Between 70 and 90 percent of residents reported that their Car wash water drained directly to the street and, presumably, to the nearest stream. It has been estimated that 25 percent of the population of the United States may be classified as Chronic Car washers, which translates into about 27 million potential residential Car wash polluters (Center for Watershed Protection, 1999).

Car washing is a common routine for residents and a popular way for organizations such as scout troops, schools, and sports teams to raise funds. This activity is not limited by geographic region, but its impact on water quality is greatest in more urbanized areas with higher concentrations of automobiles. Currently, only a few pollution prevention programs incorporate proper Car washing practices as part of an overall message to residents on ways to reduce stormwater pollution. Other programs have extended this message to include Charity Car washes and provide these Charity groups with equipment and training to alleviate the problems associated with polluted wash water entering the storm drain system.

Tips

Regularly maintain your Car and fix any oil, radiator or transmission leaks as soon as you see them. Also, consider using a commercial Car wash, instead of washing at home. The runoff from home Car washing Can Contain detergents that are harmful to aquatic life.

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- Using a commercial Car wash.
- Washing Cars on gravel, grass, or other permeable surfaces.
- Blocking off the storm drain during Charity Carwash events or using a insert to Catch wash water.
- Pumping soapy water from Car washes into a sanitary sewer drain.
- If pumping into a drain is not feasible, pumping Car wash water onto grass or

landsCaping to provide filtration.

- Using hoses with nozzles that automatically turn off when left unattended.
- Using only biodegradable soaps.

For businesses, good housekeeping practices can minimize the risk of contamination from wash water discharges. The following are some general best management practices that those businesses with their own vehicle washing facilities can incorporate to control the water quality impacts of wash water discharges:

- All vehicle washing should be done in areas designed to collect and hold the wash and rinse water or effluent generated. Wash water effluent should be recycled, collected, or treated prior to discharge to the sanitary sewer system.
- Pressure Cleaning and steam Cleaning should be done off-site to avoid generating runoff with high pollutant Concentrations. If done on-site, no pressure Cleaning and steam Cleaning should be done in areas designated as wellhead protection areas for public water supply.
- On-site storm drain locations should be mapped to avoid discharges to the storm drain system.
- Spills should be immediately contained and treated.



Sources & Additional Information:

http://Cfpub.epa.gov/npdes/home.Cfm?program_id=6