

CITY OF WARREN WATER POLLUTION CONTROL

STORM WATER PUBLIC EDUCATION PROGRAM

The City of Warren has recognized the need and importance of taking a proactive approach toward Storm Water Management. To accomplish this, the Water Pollution Control Department developed a comprehensive Storm Water management program that addresses the improvement of water quality, as well as revenue generation needs of the City. This comprehensive program was submitted to the EPA as the City's Stormwater Phase II Management Program in March of 2003.

What are Household Hazardous Wastes?

Household Hazardous Waste can best be defined as unusable or leftover products from household projects that are hazardous in nature, but are not regulated as hazardous waste, under federal and state laws. Paints and paint related products, pesticides, fertilizer, pool chemicals, drain cleaner, degreaser, and other car care products are all common household hazardous waste products. These products, if improperly managed, will create environmental and public health hazards.

Household Hazardous Wastes are a significant source of nonpoint source pollution (pollution that cannot be identified at a single source) and The U.S. Environmental Protection Agency (USEPA) has determined that these pollutants are a major cause of our nation's water quality problems.

How are Household Hazardous Waste introduced into the environment?

There are several ways that Household Hazardous Wastes can be introduced into the environment. The most obvious source is the direct dumping of a hazardous product into the outdoor environment or down the drain. Examples of less deliberate pollution from Household Hazardous Waste includes: fluid leaking from vehicles; storm water runoff from lawns which carry fertilizer, pesticide, or even grass and leaves; carwash runoff; and even pet waste. Any debris or chemicals from driveways or backyards, including products and wastes applied to the ground can be washed into the storm sewer system, and subsequently into the waterways. *Remember, anything that is dumped onto the ground may spread and runoff the next time it rains!*



What are the Damaging Effects?

The disposal of Household Hazardous Waste into **storm drains**, either directly or indirectly as runoff, can have a significant impact on our waterways by depleting the oxygen within the water or by creating toxic levels of chemicals poisonous to aquatic life. Aquatic plants and animals need sufficient oxygen and clean water to survive. Leaves and grass clippings allow bacteria, oxygen-consuming materials, phosphorus, and nitrogen to be released into waterways. Yard waste, litter, and debris can clog storm drains, making them ineffective and causing localized flooding. Even soil can runoff into streams and block the sunlight which is essential for aquatic plants, thereby suffocating animals.

Sewage Treatment Plants can also be damaged by Household Hazardous Wastes, resulting in the release of untreated sewage chemicals into streams.

The City of Warren still has many houses which are currently connected to **septic systems**. When introduced into **septic tanks**, Household Hazardous Wastes can kill the microorganisms that make the septic system work. This will lead to untreated wastes draining into the soil and eventually seeping into the groundwater or waterway.

What Defines a Household Hazardous Waste?

Household Wastes are considered hazardous if they contain chemicals that are **corrosive, explosive/reactive, flammable, or toxic**. The following is a list of typical Household Hazardous Wastes:

<i>Mercury</i>	<i>Drain Cleaners</i>
<i>Art Supplies</i>	<i>Metal Polish</i>
<i>Floor Cleaners</i>	<i>Photo Chemicals</i>
<i>Dry Cleaning Fluids</i>	<i>Radiator Cleaners</i>
<i>Wood Preservatives</i>	<i>Rust Preservatives</i>
<i>Oil Based Paint</i>	<i>Wood Strippers</i>
<i>Solvents</i>	<i>Paint Thinner</i>
<i>Sealant</i>	<i>Degreasers</i>
<i>Antifreeze</i>	<i>Gasoline</i>
<i>Oil</i>	<i>Wood Stains</i>
<i>Oil Filters</i>	<i>Brake Fluid</i>
<i>Engine & Radiator Flushes</i>	<i>Arsenic</i>
<i>Old Chemistry Sets</i>	<i>Transmission Fluid</i>
<i>Herbicides</i>	<i>Pesticides</i>
<i>Rodent Killers</i>	<i>Insect Sprays</i>
<i>Muriatic Acid</i>	<i>Pool Chemicals</i>
<i>Creosote</i>	<i>Cesspool Cleaners</i>
<i>Batteries</i>	<i>Fertilizer</i>
<i>Ammonia</i>	<i>Bleaches</i>
<i>Cyanides</i>	<i>PCB wastes</i>
<i>Florescent Bulbs</i>	<i>Disinfectants</i>

How can I dispose of my Household Hazardous Waste?

All Household Hazardous Waste must be properly stored or properly disposed of. **Geauga-Trumbull Solid Waste District** is now located at **5138 Enterprise Blvd.** in the **Northwest Business Park** off of Parkman Road. For 2008, Trumbull County residents will have the opportunity to drop off any unwanted Household Hazardous Wastes at the new office at specified times and dates. Residents are encouraged to contact Geauga-Trumbull Solid Waste District with any questions regarding waste disposal or visit their website (see below). *It is important that all Household Hazardous Wastes be properly stored until they can be properly disposed of.*

For further information please contact the following:

**The City of Warren
Water Pollution Control Center**
330-841-2591

OR CONTACT

**Geauga-Trumbull Solid Waste Management
District**
1-800-707-2673
or
330-675-2673
www.startrecycling.com



Thomas A. Angelo, Director



Michael J. O'Brien, Mayor
William D. Franklin,
Director of Service-Safety

Pesticide, Herbicide & Fertilizer Management

Nationally, one fourth of the pollutants found in rivers and streams originate from residential use of pesticides, herbicides, and fertilizers. These materials enter into the storm drain system through illegal dumping, runoff from excessive lawn irrigation, and from heavy rains and from there they are discharged directly to our waterways.

Use fertilizers, pesticides and herbicides sparingly on lawns and gardens and water efficiently when needed. For pesticides, consider using less toxic pesticides such as insecticidal soaps, dusts, and horticultural oils. DO NOT apply pesticides and herbicides if rain is forecast. Use slow release fertilizers, such as the City's Nature's Blend. DO NOT allow water run-off from your yard right after applying pesticides, herbicides, or fertilizers.

Common Pesticides/Herbicides Include:

Kitchen, laundry & bath disinfectants and sanitizers, including bleach.

Lawn and garden products such as weed killers.

Flea and tick sprays, powders and pet collars.

Termite control products.

Rat and other rodent poisons.

Insect sprays and wasp repellants for indoor use.

Swimming pool chemicals, including those that kill algae.

CITY OF WARREN WATER POLLUTION CONTROL

MANAGING HOUSEHOLD HAZARDOUS WASTES, Including Pesticides, Herbicides, & Fertilizers



**FOR PROPER HANDLING
& DISPOSAL OF HOUSEHOLD
HAZARDOUS WASTES, PESTICIDES,
HERBICIDES & FERTILIZERS**

**STORMWATER PHASE II
MANAGEMENT PROGRAM**