EPA NATIONAL STORM WATER PROGRAM

MUNICIPAL PROGRAM

Here are some of the most important steps your community can take to control storm water pollution:



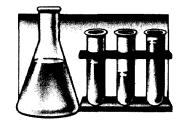
Prevent the release into the storm sewer system of hazardous substances such as used oil or household or yard chemicals



Make sure new commercial and residential developments include storm water management controls, such as reducing areas of paved surfaces to allow storm water to seep into the ground.



Promote practices such as street sweeping, limiting use of road salt, picking up litter, and disposing of leaves and yard wastes quickly.



Collect samples of storm water from industrial sites to see whether pollutants are being released. If so, identify the type and quantity of pollutants being released.



Design and institute flood control projects in a way that does not impair water quality.



Prevent runoff of excess pesticides, fertilizers, and herbicides by using them properly and efficiently. (Commercial, institutional, and residential landscapes can be designed to prevent pollution, conserve water, and look beautiful at the same time.)



Make sure that construction sites control the amount of soil that is washed off by rain into waterways.



Promote citizen participation and public group activity to increase awareness and education at all levels. Encourage local collection pick-up days and recycling of household hazardous waste materials to prevent their disposal into storm drains.

A northwest city, recognizing the need for storm water management, set up a special water utility to oversee all local government storm water control activities and to raise the money for storm water projects. The city collects fees from citizens using the storm water sewer system and uses the funds to implement storm water programs. The program is still successfully providing funds for such varied purposes as flood control, maintenance of existing storm water controls, and public education.

We can agree that the best way to protect water quality is to avoid polluting it in the first place. EPA has a National Storm Water Permit Program that focuses on municipal and industrial pollution prevention to help control storm water pollution. This program involves issuing permits to certain municipalities and industries to control storm water pollution. Development of State and local storm water management programs can help to achieve the Clean Water Act goals of fishable and swimmable waters.



MUNICIPAL PROGRAM

Permits issued for municipal storm water systems allow communities to design storm water management programs that are suited for controlling pollutants in their own municipal systems. EPA hopes this flexibility will encourage community interest and participation in solving storm water runoff problems.

INDUSTRIAL PROGRAM

Most permits issued under the storm water program require development and use of a storm water pollution prevention plan. Such plans describe how the facility will prevent storm water from becoming polluted by making sure that:

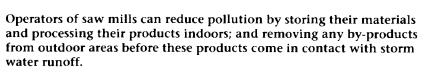
- Potential pollutants are not left outside uncovered
- Spills are prevented
- If spills occur, they are cleaned up right away
- There is no dumping of polluting substances into storm drains
- Grass and other vegetation is planted as quickly as possible after soils are disturbed

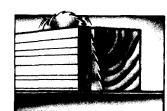
Some permits may require more extensive pollution control.

INDUSTRIAL PROGRAM

Storm water permits require many industrial facilities to prepare and implement storm water pollution prevention plans. Listed below are examples of industries and their pollution prevention activities.

Owners of construction sites that disturb 5 or more acres must develop a plan before beginning construction. The plan must limit the area of disturbed soil and provide controls — like sediment basins — to keep sediment from running off.





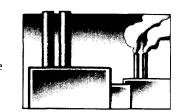
Operators of landfills should keep the storm water runoff from flowing over the pollutants and carrying them off the landfill site.



Airport employees can reduce storm water runoff pollution by using de-icing chemicals only in designated collection areas and by cleaning oil and grease spills from pavement immediately.



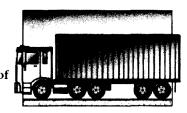
Chemical plant operators should develop spill prevention plans and use types of containers that do not rust or leak, eliminating exposure of materials to storm water runoff.



Owners of automobile junkyards should drain fluids from junked cars and properly dispose of hazardous chemicals.



Operators of trucking terminals should develop good housekeeping practices that clean up leaks and spills of oil and grease from the path o storm water runoff.



Power plant operators often store piles of coal and other fuels that have toxic components. Runoff from coal piles must be treated; other substances should be stored away from any possible contact with storm water runoff.



A manufacturing facility located in a large midwestern city took an innovative approach to storm water management. Employees at a plant with a large fueling station noticed that during a rain storm, the runoff flowing into the city's storm sewer system had an oily sheen, caused by spilled fuel. To prevent future spills, the plant trained its drivers to avoid overfilling fuel tanks, laid down sawdust around the fueling station to absorb any accidental spills (the plant is careful not to wash the sawdust down the drain), and installed an oil/water separator to remove oil from the runoff before the runoff enters the storm drain.

what they can do to help. from storm water runoff and 4. Telling others about pollution

containers. household hazardous wastes and safely dispose of used oil and in programs to recycle and 3. Helping to start or participating

oil, gasoline, pet wastes, etc. tices with lawn care chemicals, 2. Using good housekeeping prac-

erosion or sediment controls. acres that do not have Construction sites over 5

antifreeze). water drains (such as oil, ate materials into storm -irqorqqani do gniqmub ynA •

pal officials -Reporting to your local munici-

Second, help your municipality by:

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that can choke, suffocate

water our lawns and gardenis.

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Ash gills, damage fish

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activities, and on humans and animals who eat the

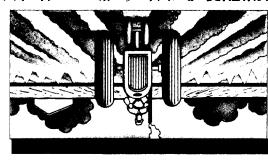
fishing, boating, swimming and other recreational

contaminated fish and other seafood.

the water, humans who drink the water, use it for aquatic plant and animal life, other wildlife that use waterways, it can have many adverse effects on When polluted storm water runoff reaches our

SNAMUH QNA **, SJAMINA , STNAJ**9 THEIR EFFECTS ON WHAT ARE SOME OF

tion covered under other EPA programs. program, it is a nonpoint source of storm water pollunot regulated under the EPA storm water permitting though storm water runoff from agricultural areas is ing excess algae growth and oxygen depletion. Alcan contribute to over-enrichment of the water, causused in crop production can be toxic to aquatic life and ACRICULTURE – Pesticides, fertilizers, and herbicides



or waste areas can contribute pollutants to storm sions, and uncovered or unprotected outdoor storage contain toxic substances, smoke stacks that spew emis-INDUSTRY - At industrial sites, chemical spills that



use them as recreational areas. of side of regret or iliw sw our rivers, lakes, and oceans,

Solimminates ontaminates out invers. Invers.

- Chlorine bleaches and disinfectants (for swimming
 - Degreasers Concrete or wood sealants
- products, paint brush cleaners Paint, paint thinners, varnish, furniture refinishing
- and car waxes Car care products such as detergents with phosphate • Ammonia-based cleaners, drain cleaners

OR DUMPED DOWN STORM SEWERS

CARRIED OFF BY STORM WATER RUNOFF THAT COULD CAUSE POLLUTION IF OTHER COMMON HOUSEHOLD PRODUCTS

bacteria, parasites and viruses to our waterways.

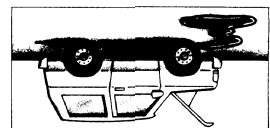
carried away by storm water, contributing harmful

HOUSEHOLD - Pet wastes left on the ground get

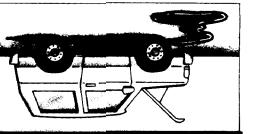
run off into the storm drains when it rains or when we beautiful lawns and gardens, if not used properly, can HOUSEHOLD - Chemicals utsed to grow and maintain

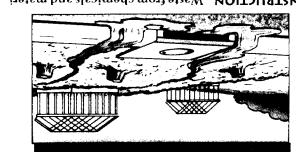


where storm water runoff carries them through our line, antifreeze, brake fluids, etc.) onto paved areas



storm drains and into our waterways. HOUSEHOLD - Vehicles drip fluids (oil, grease, gaso-





tion sites can contribute to environmental degrada-

during wet weather. Soil that erodes from construc-

als used in construction can wash into our waterways

COMMON CONTRIBUTORS TO STORM WATER POLLUTION



Debris along street picked up by storm water.

WHY IS STORM WATER A PROBLEM?

Storm water is a problem when it picks up debris, chemicals, and other pollutants as it flows or when it causes flooding and erosion of stream banks. The pollutants are deposited untreated into our waterways. The result can be the closing of our beaches; no swimming, fishing or boating; and injury to the plants and animals that live in or use the water.

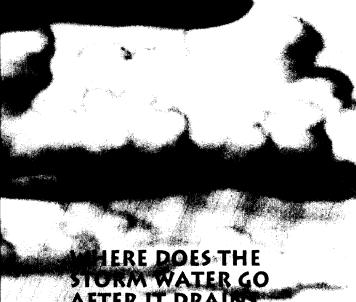
WHAT ARE THESE POLLUTANTS? WHERE DO THEY COME FROM? WHAT ARE SOME OF THEIR EFFECTS ON PLANTS, ANIMALS, AND HUMANS?

The following information will answer these questions and let you know what you and your community can do to help recognize where there could be a problem and what to do to help solve it!

EPA has a storm water program that, with your help, can keep our rivers, lakes, streams, and oceans open to use and enjoyment, and healthy for plants and animals to live in.

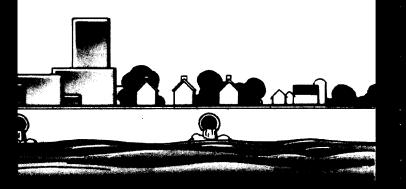


Debris washed up on the beach by storm water.



AFTER IT DRAINS INTO STORM SEWERS?

Storm water that does not seep into the ground, drains into systems of underground pipes or roadside ditches and may travel for many miles before being released into a lake, river, stream, wetland area, or coastal waters.



WHERE CAN I FIND OUT MORE INFORMATION?

Your EPA Regionall Office (Water Management Division)

- 1. EPA Region I (CT, ME, MA, NH, RI, VT) JFK Federal Bldg.; Bloston, MA 02203 617-565-3478
- 2. EPA Region II (NJ, NY, PR, VI) 26 Federal Plaza; New York, NY 10278 212-264-2513
- 3. EPA Region III (DE,, MD, PA, VA, WV, DC) 841 Chestnut Streett; Philadelphia, PA 19107
- KY) 345 Courtland St., NE; Atlanta, GA 30365 404-347-4450 **5.** EPA Region V (IL, ΓN, OH, MI, MN, WI)

77 W. Jackson Blvdl.; Chicago, IL 60604

4. EPA Region IV (AL, GA, FL, MS, NC, SC, TN

- 312-353-2145 6. EPA Region VI (AR, LA, OK, TX, NM) 1445 Ross Ave., Suite 1200
- Dallas, TX 75202-2733 214-655-7100 7. EPA Region VII (IA, KS, MO, NE) 726 Minnesota Ave.; Kansas City, KS 66101
- 8. EPA Region VIII (CO, UT, WY, MT, ND, SD) 999 18th St., Suite 500; Denver, CO 80202 303-293-1542
- 9. EPA Region IX (AZ, CA, GM, HI, NV) 75 Hawthorne Street; San Francisco, CA 415-744-2125
- 10. EPA Region X (AK, ID, OR, WA) 1200 Sixth Ave.; Seattle, WA 98101 206-553-1793

Other sources include:

- Storm Water Hotline (703) 821-4823
- State and Local Agencies



