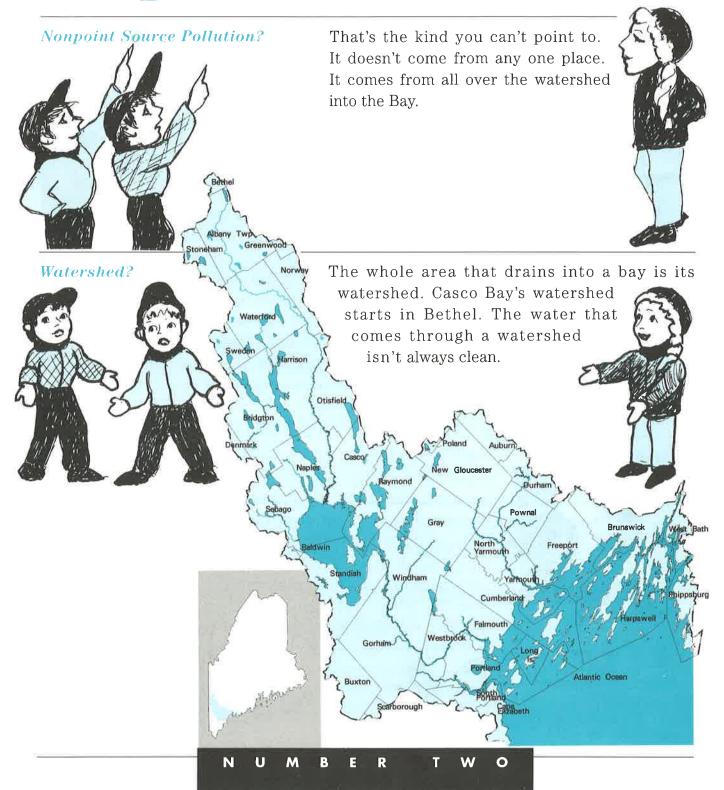
## FACT SHEET

THE BAY BOYS AND THE CASCO KID EXPLORE

# Nonpoint Source Pollution



What makes it dirty?

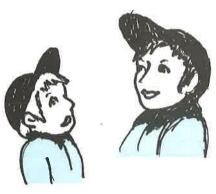


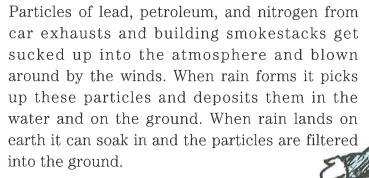


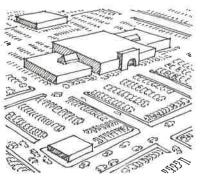




Atmospheric deposition? Stormwater runoff?







But when rain lands on paved surfaces like highways, driveways, and parking lots it can't soak in. When there is a storm with a lot of rain the stormwater runs off, picking up more bacteria, heavy metals, toxic chemicals and sediments on its way to the water, or it goes into storm drains and is carried into Casco Bay that way. Rain will run off the rooftops, too. As cities get bigger there are more rooftops, more highways, more cars, and more parking lots, making particles of bacteria, toxic chemicals and sediments.





Bacteria can make people sick. When too much gets into the Bay, beaches have to be closed to swimming. Shellfish areas have to be closed, too. We can't get the shellfish to eat and the people who harvest these shellfish are put out of work. Other pollutants like toxic chemicals may get into the fish so that they are no longer good to eat. And some toxics can add nutrients to the Bay.







Not when there are too many. When the underwater and microscopic plants have too many nutrients they multiply, blocking valuable sunlight. As they die and decompose they use up too much of the oxygen that is in the water. When there isn't enough oxygen left for the fish, they die.

Dead fish? Phew!!! Let's get out of the city to the nice clean country!

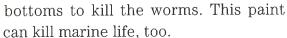


The country has pollution, too. People use cars to get back and forth and the cars may leak oil as well as send out particles from their exhausts. Farmers may have animals whose waste can go into the streams. To grow more food for all of us to eat, the farmers may use chemical fertilizers and pesticides to get rid of the bugs. If they use too much, the extra chemicals can go into the streams. Country homes are far apart and may not be on a sewer line. They have their own septic systems and if these don't work properly they can pollute the Bay. Fertilizers and weed killers used on lawns can also get into streams and into the Bay.



Let's go live on a boat.
Then we won't have
a lawn!

Boats can pollute, too. They use petroleum products for fuel that can get spilled into the water, along with motor oil. 1/4 teaspoon oil can make a film over 2,000 square feet of water! Some boats may have anti-fouling paint on their







Not if everybody works together. People are working to find better ways to handle wastes and to make better products. Towns and cities can plan to have more green space to let rain soak up and better ways to handle stormwater. We can all be more careful about the products we use and what we do with our wastes. The Casco Bay Estuary Project is helping people learn about better ways to do things.



#### NONPOINT SOURCE POLLUTION AND YOU

Nonpoint source pollution is a product of our modern lifestyle. There is a lot that you can do to ensure a cleaner and healthier coast by making simple changes in your daily habits. Please help us reduce nonpoint source pollution now.

	Drive less
	Limit impervious surfaces in your yard
	Replace toxic chemicals you use in your home, on your yard, and at work with environmentally safe alternatives
	Maintain your septic system
	Properly dispose of used motor oil
	Always use pump-out stations to dispose of boat sewage, and never throw garbage overboard
	Encourage your community to protect land close to waterways to catch rain and to filter polluted water.

If you are interested in participating in the Casco Bay Estuary Project, or would like more information call or write:

**Casco Bay Estuary Project** 

312 Canco Road Portland, Maine 04103 207-828-1043



Author: Jean Dyer, resident of Chebeague Island and member of Citizen Advisory Committee of Casco Bay Estuary Project Art: Shirley Burgess, resident of Chebeague Island For more information on what you and your community can do to reduce nonpoint source pollution call or write:

#### Maine Department of Environmental Protection

Nonpoint Source pollution Program State House Station 17 Augusta, ME 04333 207-3901

### **Cumberland County Soil and Water Conservation District**

381 Main Street Gorham, ME 04038 839-7839

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