The Navy Studies a River

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Brian Fletcher!

Dow't Pollute Rivers

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Dedication

This booklet is dedicated to every student, teacher, and parent who realizes the importance of protecting our environment—and acts to carry out their convictions.
Acknowledgments

Special thanks are given to Judi Sama and Barbara Visciano, teachers in the Kittery and Eliot, Maine, public schools, respectively, and to all their imaginative students who took the time to furnish more than 200 environmental drawings. Selected drawings are used in this booklet. We are also grateful for the assistance of Colleen Brewster, Mike Pederson, and Ken Plaisted of Portsmouth Naval Shipyard.
Clean Air
AHHH

Clean Earth
AHHH

Give Earth a CHANCE

Clean Water
AHHH

Save the Earth
"Please send a team of scientists and the research boat to Portsmouth Naval Shipyard to study the Piscataqua River."

"Yes, we'll send the team and the boat. They will be there July 1st, 1992."
The Research Vessel (R/V) ECOS travels from California to Portsmouth Naval Shipyard.

The R/V ECOS is one of the first research vessels of its kind. It had to be shipped from the Naval Command, Control and Ocean Surveillance Center in San Diego, California.
These are some of the things that make the R/V ECOS unique.
A satellite sends signals of the latitude and longitude of each sample location. This information is stored on the computer with the sample measurements. Therefore, we know exactly where each sample was taken!
We are preparing to put the sensor package into the water.
The research boat tows the sensor package. Among its other jobs, the sensor package pumps water to the instruments on the boat.
Let's measure temperature!
What's the salinity? (Is it river or ocean water?)
What's the oxygen content of the water? (Is there enough oxygen for the fish to breathe?)
How deep is the water?
We look at the incoming data.
These are instruments on the boat. Particles tell us what is being moved by the river. Chlorophyll is made by algae. Algae are microscopic plants eaten by filter-feeding sea creatures. Oil, gasoline, and diesel fuel are from pollution.
The Acoustic Doppler Current Profiler sends sound through the water to detect current movement.
Information from the Acoustic Doppler Current Profiler tells us much about the river currents.
The currents in the Piscataqua River are sometimes very complicated.
Some river pollution comes from automobiles.
All the information from the research helps us to know more about the health of the animals that live in the river.
In public meetings, we tell you about our studies and listen to your opinions.

You, as a citizen, have the opportunity to hear the results of the studies and give your opinions.
The environmental studies done by the Navy on the Piscataqua River and the Shipyards are part of the work necessary to meet the requirements for the Corrective Action Permit issued by the U.S. Environmental Protection Agency. The reports of these studies are reviewed by the U.S. Environmental Protection Agency and the Maine Department of Environmental Protection, and are on file at the Shipyards Information Repositories in the Kittery, Maine, and Portsmouth, New Hampshire, public libraries.

Newsletters and fact sheets are mailed to interested parties to report environmental news. If you would like to have more information or would like to be on the mailing list, please address your questions or requests to the Portsmouth Naval Shipyards Public Affairs Office at (207) 438-1140.
We asked students from some of the local schools to give us their ideas on how we can protect our environment.

We received many excellent drawings and some of them are on the following pages.

Thank you very much for the drawings!
Do you want your world to be shiny and NEW like this or do you want it to be like a dry wilted flower?

Save the Earth

Shana

Save our Whales

Matthew
Brewster
4V

Don't pollute
HELP STOP AIR POLLUTION
MAKE AN AIR SOLUTION

Pick up trash.
Erick Merwin

I have a feeling I'm

Make our Earth Happy!
PLEASE?

STOP POLLUTING

Nick Corwa
DON'T THROW THE WORLD AWAY. RECYCLE!!

RE-USE
RECYCLE
REDUCE
THE ENVELOPE

Mother Earth
108 Nature St.
Ex vill, Everyware

The kids around the world
120 Sickle St.
Uffvill, Uclety

THE LETTER INSIDE

Dear Kids,

It is Earth Day which means we all must think and save the Earth. Some things you can do are recycle, save water, use public transportation, and be kind to animals. There are only a few things you can do to save the Earth. There is only one Earth to live on we can not live anywhere else. So save the Earth, I hope you start right now and save the Earth quick. With fingers crossed,

Mother Earth

Kelsey 4
Reviewed and approved

S. P. Marvil, CAPT, USN
Executive Officer/Base Operations Manager

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