

down the toilet or into the sink.

Many drugstores and drug companies have a voluntary take back program. Check out your local County hazardous waste disposal department or the Hawai'i Department of Health.

http://hawaii.gov/health/environmental/ waste/p2wastemin/index.html

The US Fish and Wildlife Service and American Pharmacists Association have partnered on a new outreach program:

http://www.smarxtdisposal.net/

## I D0?

Limit your use of personal products!

**Check out EPA's website:** www.epa.gov/ppcp/

30 minutes prior to entering the water.

Better yet: use a rashguard to protect your skin.

## Find out what products are considered safe.

The Environmental Working Group has tested a variety of products:

www.ewg.org

www.cosmeticdatabase.com

**Swimming Bathing Farm Animals** Landfills Health Cleaning Pets Car washing soap **Antibiotic- and** Over-the-counter Cosmetics **Veterinary drugs** nutriceutical-laced feed therapeutic drugs Garden chemicals Fragrances **Insecticides Prescription drugs Pesticides** Herbicides Vitamins and Illicit drug labs nutritional supplements

Streams

## Most PPCPs end up in our waters and our air.

**Gutters** and

**Storm Drains** 

Others are absorbed into the soil and taken up by plants.

After entering the water, some PPCPs are transformed into other substances via reactions to UV light. Other PPCPs, such as acetaminophen (a pain reliever) are altered, degraded and ultimately mineralized (conversion to carbon dioxide and water) through physical and chemical means. PPCPs that are used as a spray, such as perfumes, are vaporized into the air.

But other products can end up in the air and inhaled, such as dust from drug enhanced animal feed.



**Directly Into** 

the Water

Sewers and

**Septic Systems** 



While the exact overall effect that these compounds have on humans and the environment isn't known, researchers have found that some of these compounds can affect normal endocrine function (important in reproduction) in mammals and fish. Exposure to other PPCPs such as antibiotics can cause resistance in the bacteria that they are meant to treat, thus possibly rendering them ineffective.

**Directly Into** 

the Air

**Evaporation** 

from Water

There are thousands of chemical compounds in PPCPs; some can be harmful to human and animal health as well as the environment.

Pharmaceuticals and Personal Care Products



