Urban Stormwater Pollution & Your Yard

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Summit SWCD

Ohio | Department of Health
Environmental Protection Agency
Department of Natural Resources

News Release

FOR RELEASE: November 12, 2010

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Algal Toxin Advisory at Wingfoot Lake Continues

Due to the presence of algal toxins found within the water of a number of inland lakes across Ohio and Lake Erie, Ohio EPA, Ohio Department of Natural Resources (ODNR) and Ohio Department of Health (ODH) are releasing a comprehensive list of updated sampling results for algal toxins including microcystin, anatoxin-a, cylindrospermopsin and saxitoxin. All state parks remain open.

REMAINING

Wingfoot Lake State Park:
Due to continued elevated levels of microcystin, Wingfoot Lake remains under a toxin advisory. People and their pets, including hunting dogs, should avoid contact with any algae and direct contact with the water. Results from the Oct. 25 sampling showed microcystin ranging from 10 parts per billion (ppb) to 250 ppb. The Nov. 1 sampling results showed microcystin levels ranging from 0.4 to 66 ppb. The Nov. 8 sampling results showed microcystin ranging from 7.9 ppb to 513.5 ppb. There were no detections of saxitoxin, cylindrospermopsin and anatoxin-a.

SUMMARY OF ADVISORIES:

No Contact Advisory: Avoid any and all contact with and ingestion of the lake water. This includes launching watercraft on the lakes.

Toxin Advisory: Avoid contact with any algae and direct contact with water.
Wingfoot Lake State Park

Bloom Advisory: Cautionary advisory to avoid contact with any algae.

The information in this news release is current as of 1 p.m. today. More information about what each advisory means can be found on ODNR's website.

Advisories will remain in effect until there have been two consecutive weeks of non-detection for anatoxin-a, saxitoxin and cylindrospermopsin and two consecutive weeks of microcystin below 20 ppb (set by the World Health Organization (WHO) as the upper end of the moderate-risk range for contact with microcystin). There are no WHO standards for the other toxins.

Ohio EPA and ODH both have additional information and data on Harmful Algal Blooms online.

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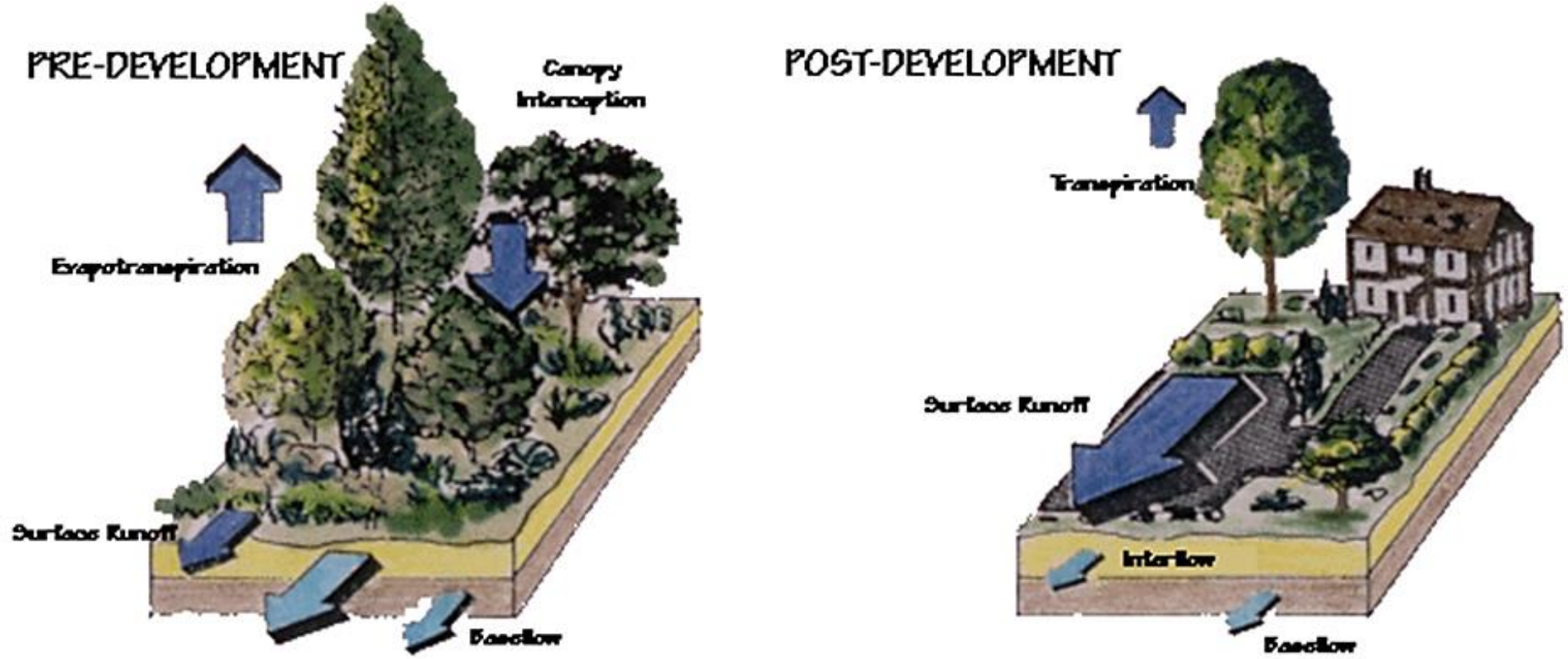
www.epa.ohio.gov

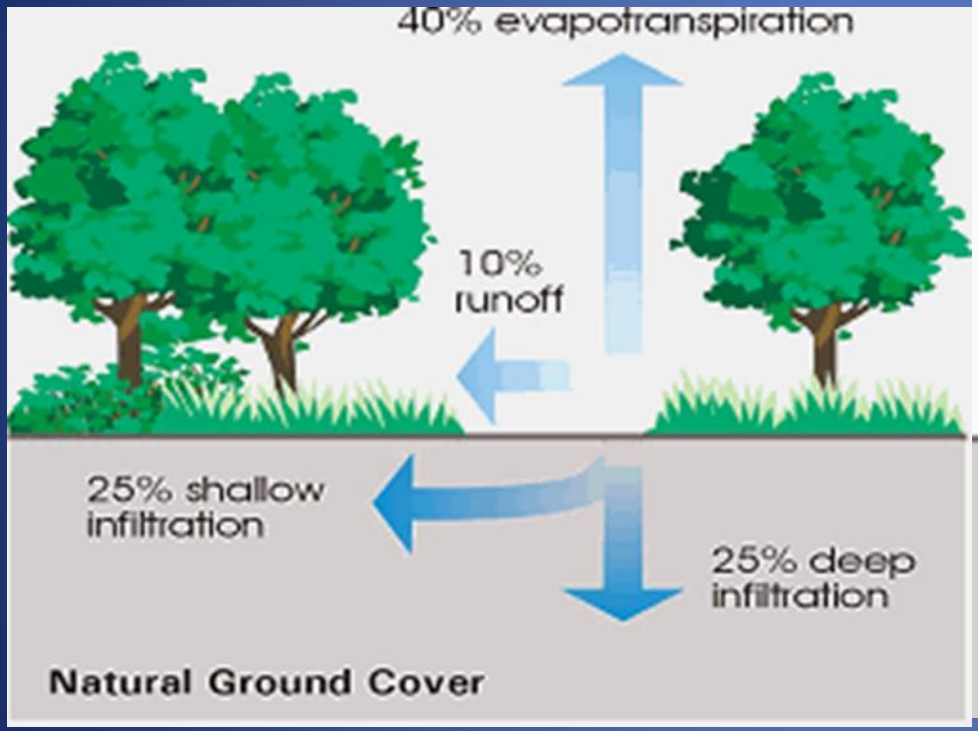

ALGAL BLOOM
ADVISORY
A harmful algal bloom has been
detected at this location.
Users are encouraged
to avoid ingesting water and
avoid surface scum.
circle of blue

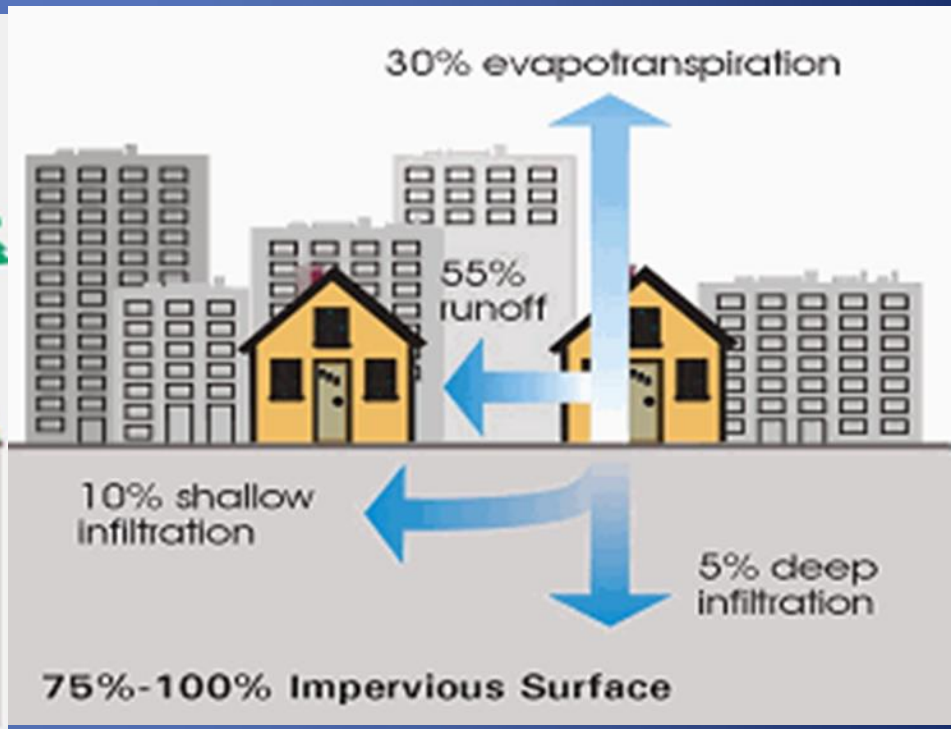
Urban Streams

- 70% exceed total phosphorus for USEPA Goals
- Insecticides are at higher levels than agricultural streams
- Fecal Coliform bacteria often exceed recreation standards

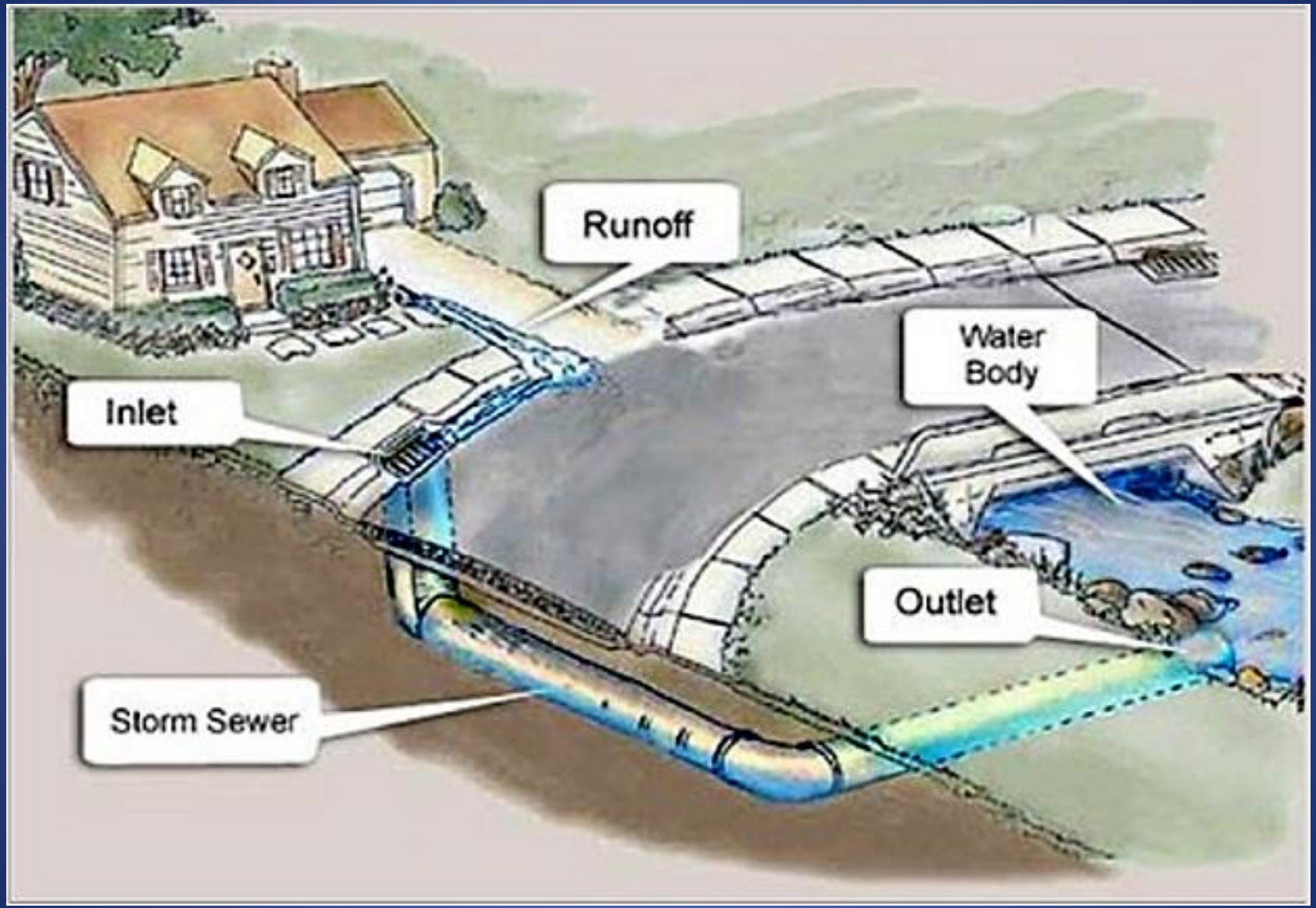

PRE-DEVELOPMENT
Canopy Interception
Evapotranspiration
Surface Runoff
Baseflow
POST-DEVELOPMENT
Transpiration
Surface Runoff
Interflow
Baseflow

Runoff Comparison





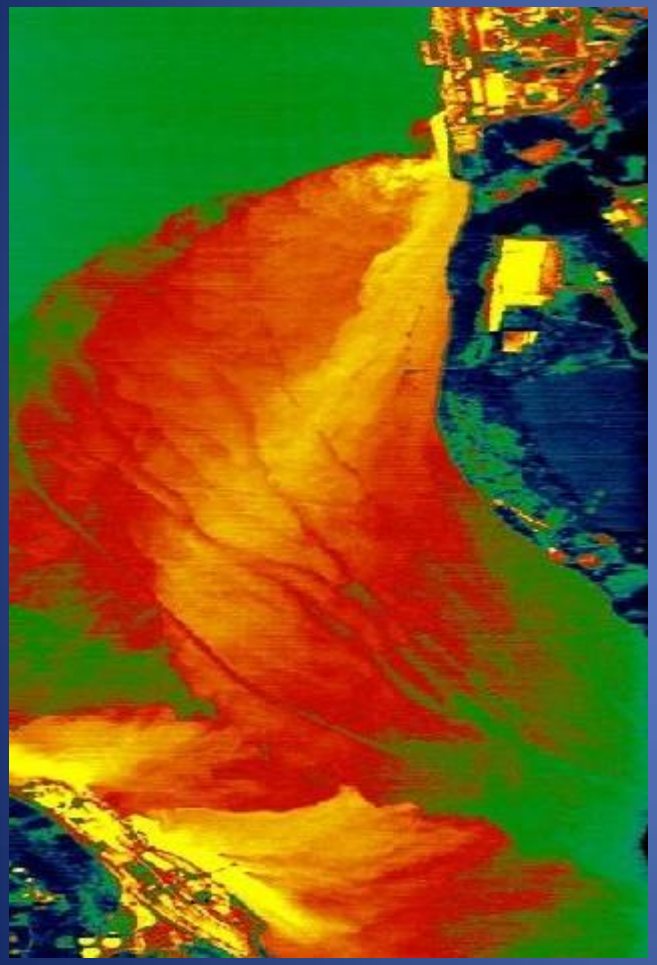

Treatment

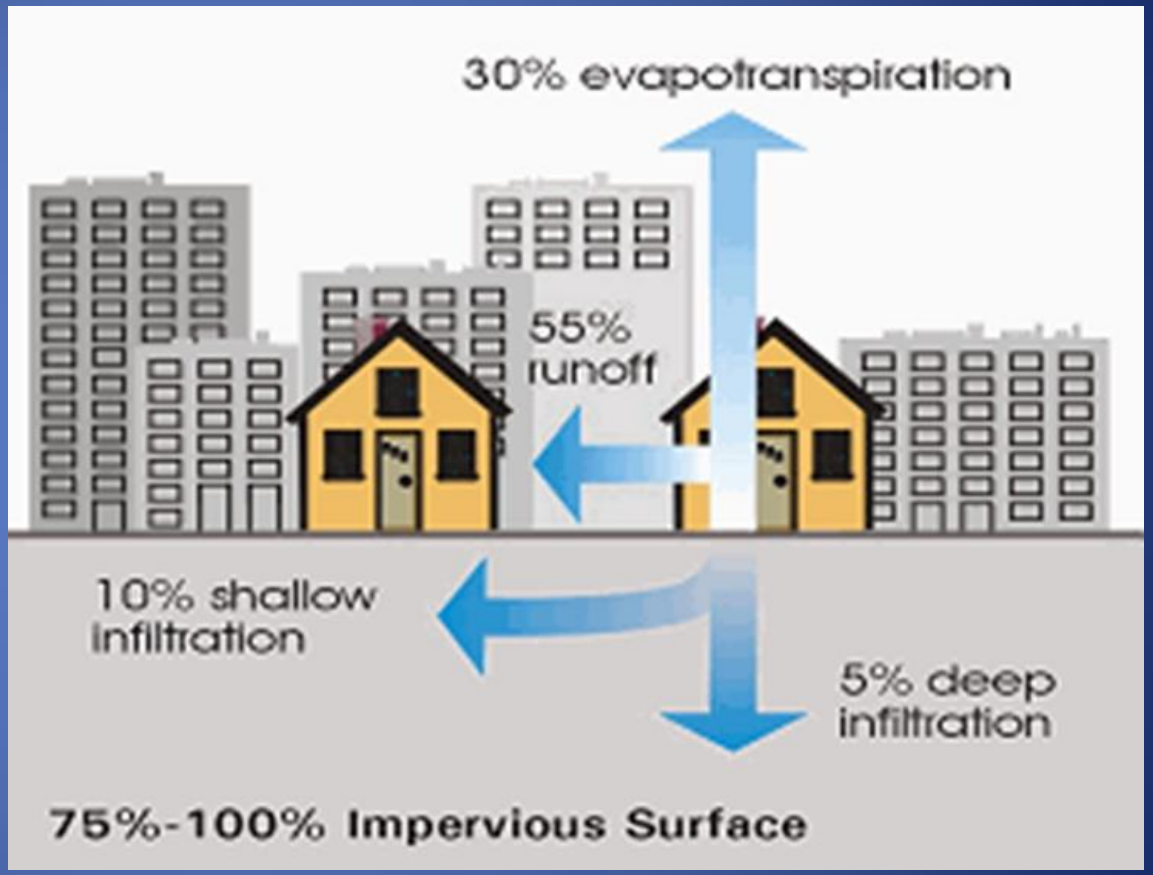

Runoff
Water Body
Inlet
Outlet
Storm Sewer

Major Types of Nonpoint Source Pollution:

- Nutrients
- Chemicals
- Pathogens
- Sediment
- Temperature

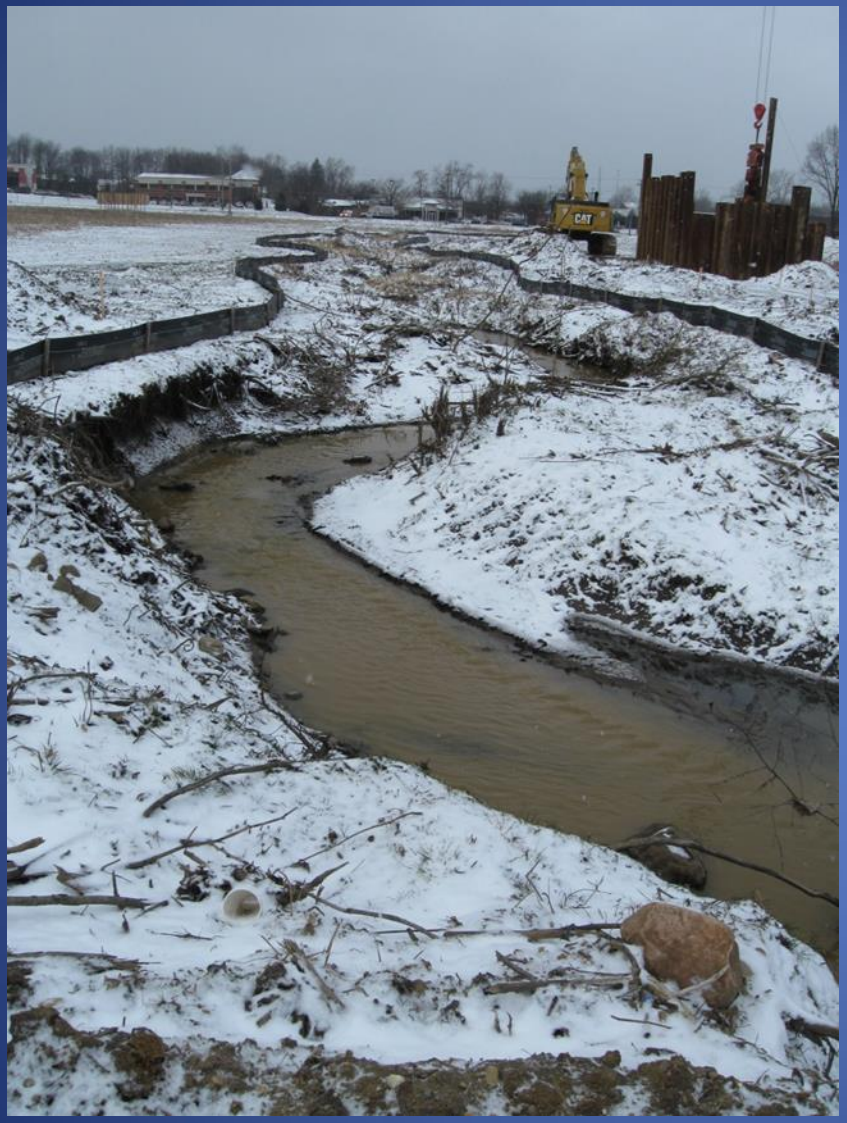
Thermal Pollution





Sediment

- Construction Sites
- Gardens
- Road Grit & Snow Removal
- Streams Affected by Runoff or without Riparian Buffers


CAT

Chemicals

- Oil
- Pesticides
- Vehicle exhaust
- Paints
- Antifreeze

Pathogens

- Animal Scat
- Failing Septic Systems
- Geese
- Combine sewer overflow

Nutrients

- Fertilizers
- Washing Your Car
- Failing Septic System
- Geese
- Dog Poop
- Yard waste
- Atmosphere deposition

Questions?

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