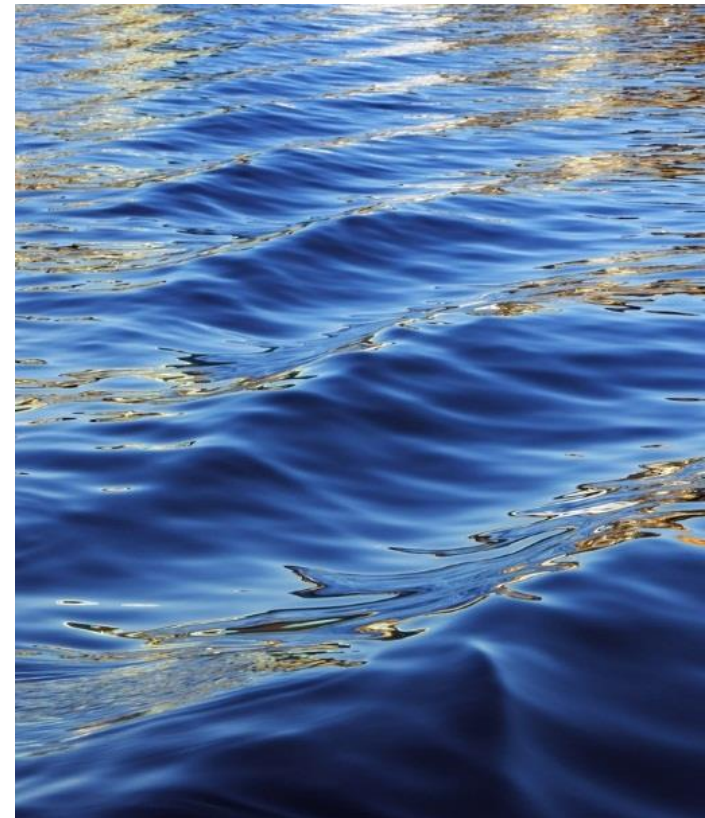


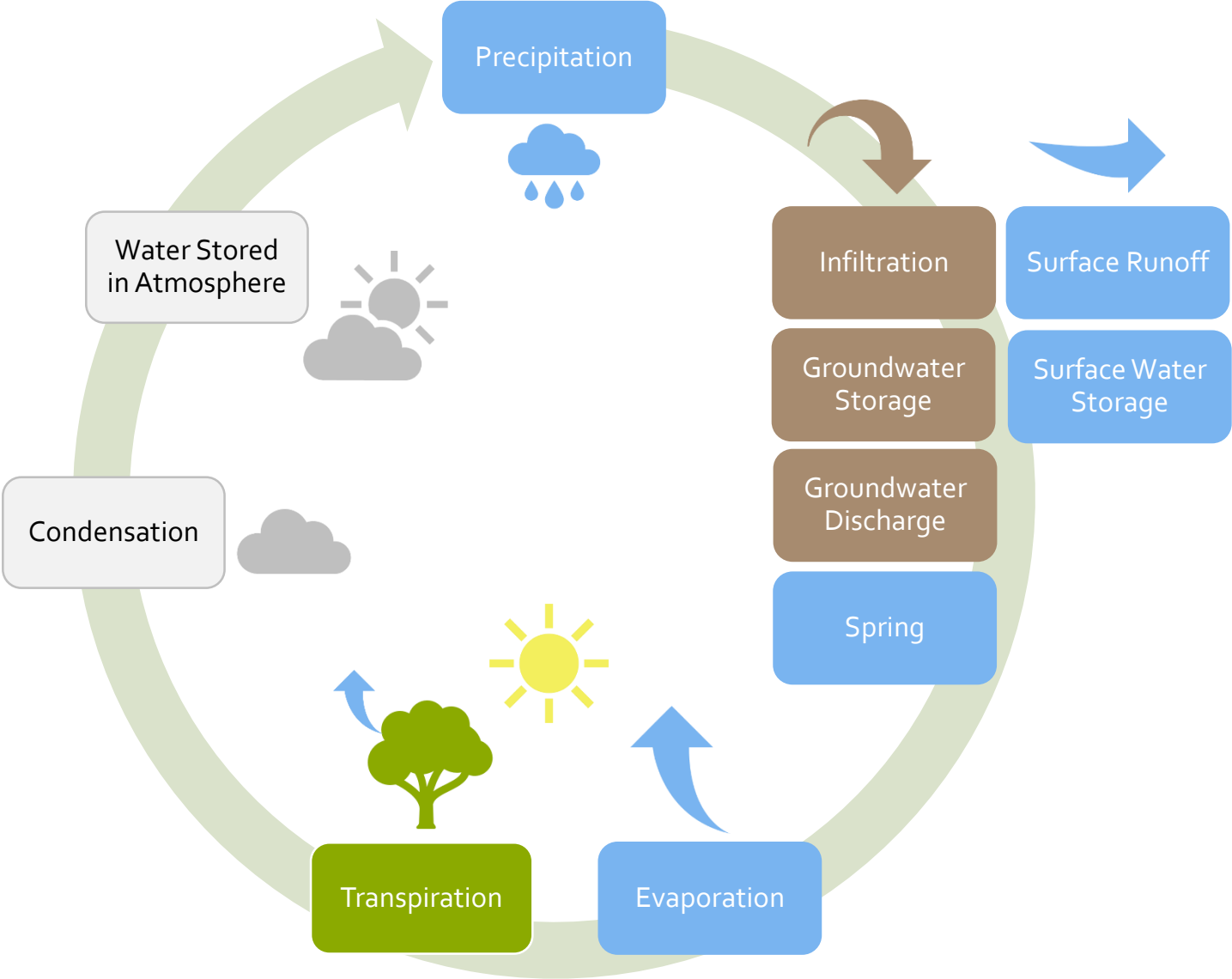


We All Live in a Watershed

Lesson One

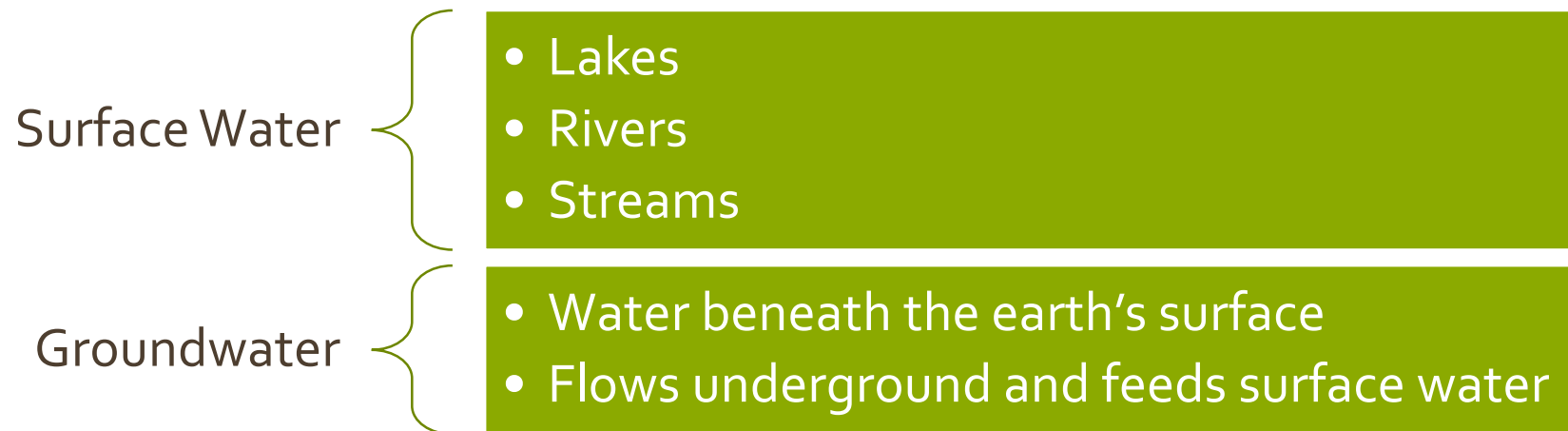


How does water move through the environment?



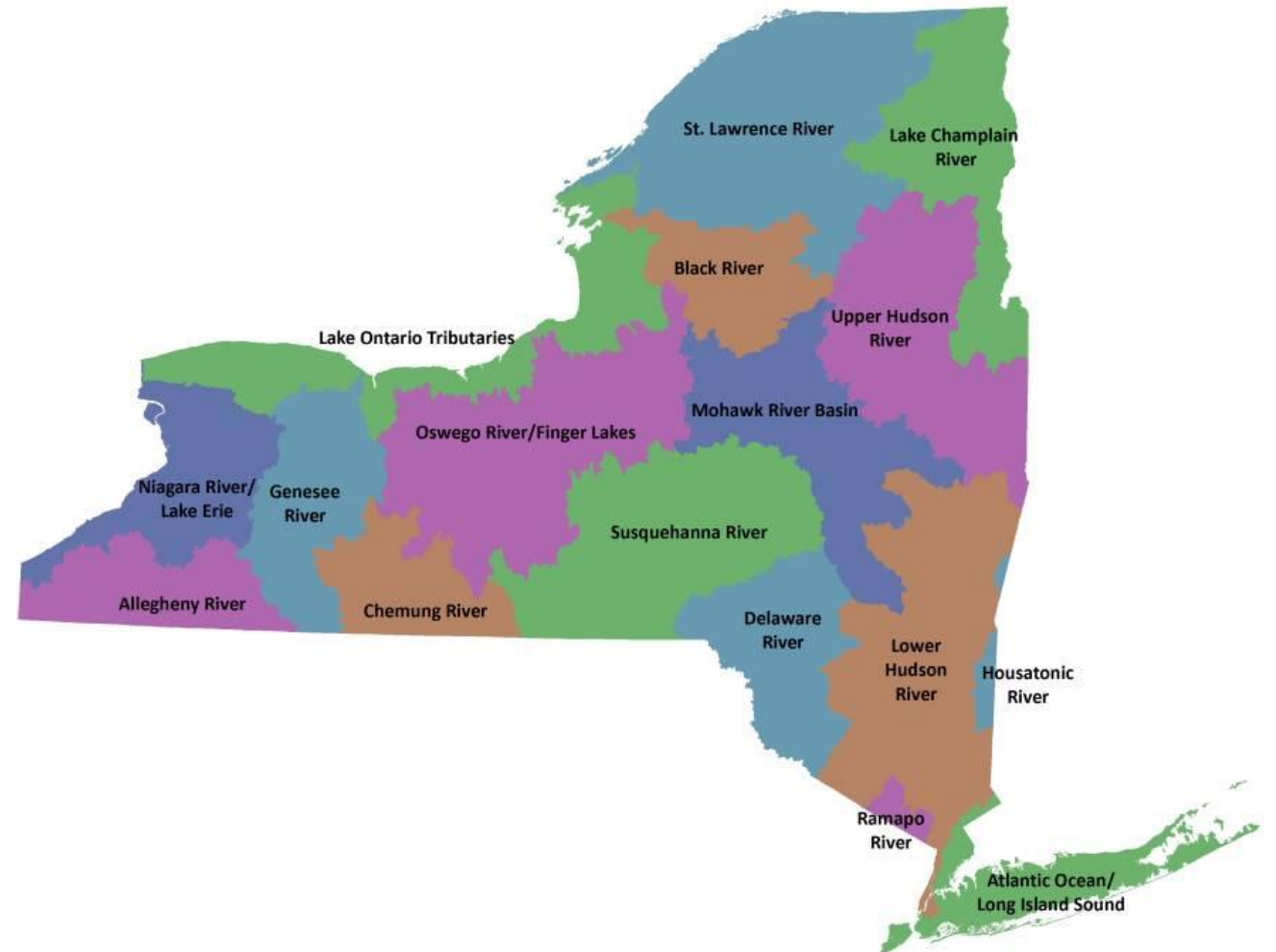
What is a Watershed?

- A watershed or drainage basin, is an area of land from which all water drains to a common waterway, such as a river, a lake or the ocean.
- Watersheds consist of all the surface water – lakes, streams, reservoirs and wetlands and all the water held underground in soil or pores and crevices in rock as groundwater



Why are watersheds important?

- They provide drinking water and water for recreation
- They provide food and water for plants and animals.
- We all live downstream and our everyday activities can affect downstream waters.

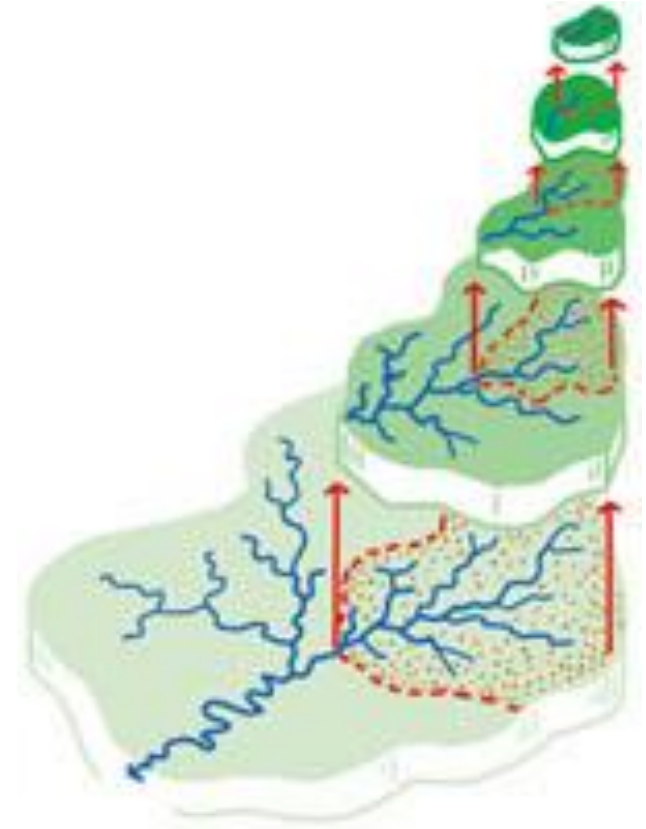


Watersheds
can be very
large!



Watersheds are nested

- The largest watersheds are called Regions e.g. Mid Atlantic
- Subregion
- Basin
- Subbasin
- Watershed
- Subwatershed



Source: Marsh, 1998 p.170

Hydrologic Unit Codes (HUC)

Used to identify drainage areas

- Regions (2 digits)
- Subregion (4 digits)
- Basin (6 digits)
- Subbasin (8 digits)
- Watershed (10 digits)
- Subwatershed (12 digits)



1109050702

11090507

110905

1109

11

Source: Marsh, 1998 p.170

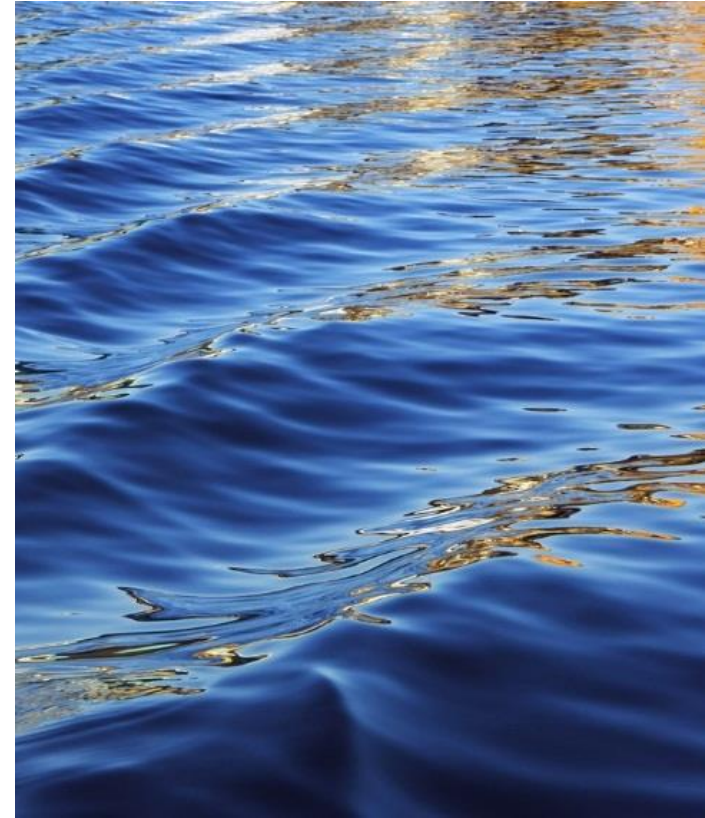
Discover your watershed

- Discover Your Watershed Worksheet
- <https://streamstats.usgs.gov/ss/>



Sources of Pollution

Lesson Two



Examples of Pollutants in Watersheds



Where does the pollutant come from?

Point Source

- A source of pollution that comes from a specific identifiable source.

Non-point Source

- A combination of pollutants from a large area rather than from a specific identifiable source.

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



What are possible pollutants?

Point Source or Nonpoint Source?



Photo from EPA.gov/npdes



Photo by Bill Stangler, SCPR

What are possible pollutants?

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What are possible pollutants?

Point Source or Nonpoint Source?

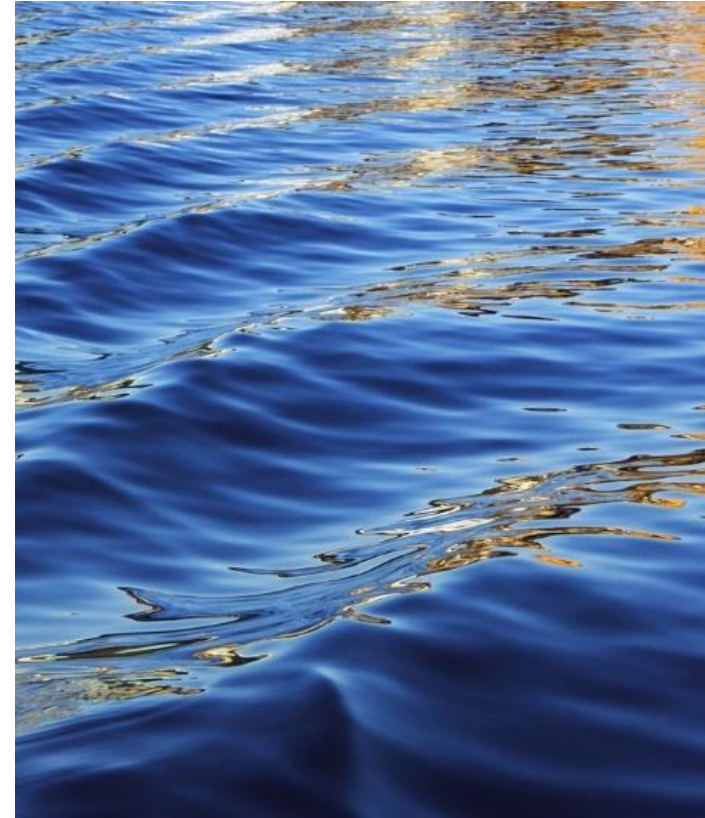


What are possible pollutants?



Pollution Prevention

Lesson Three



Storm drains bring runoff from inlets on roads and parking lots to nearby waterbodies



Runoff enters the stream through storm drains at outlets/outfalls

Restore streambanks and plant riparian buffers

- Prevent erosion by stabilizing banks
- Flood protection
- Provide habitat
- Remove pollutants



-Place fences to prevent erosion of streams and construction sites



- Properly throw away litter
- Pick up pet waste
- Compost yard waste

Build Green Infrastructure



Slow down, collect, and infiltrate stormwater runoff

- Rain barrels
- Stormwater planters
- Green roofs
- Rain Gardens
- Pervious Pavers

Use Best Management Practices (BMPs) to control water pollution in your watershed



Is it easier to take pollutants out of the water or prevent them from getting into water?

