Pollution of Water

Point source pollution: comes from a specific source, like a pipe Factories, industries, municipal treatment plants. Can be monitored and controlled by a permit

Non-Point source pollution: NPS is pollution associated with storm water or runoff. NPS cannot be traced to a direct discharge point such as a wastewater treatment facility

* Oil and gease from cars
* Fertilizers
* Animal waste
* Grass clippings
* Septic systems
* Sewage and cleaners from boats
* Household cleaning products
* Litter

NPS pollutants build up on land surgaces during dry weather

* Atmospheric deposition
* Fertilizer applications
* Animal waste
* Automotive exhaust/fluid leaks

Pollutants are washed off land surfaces during precipitation events

Storm water runoff will flow into lakes and rivers

Eroding soil from construction sites: nonpoint

Leachate from landfill: Point

Overflowing hog lagoon: Point

Pesticides: Non Point

Septic tank leak: Point

Storm water run-off from city streets: nonpoint

Nutrients

Pathogens

Sediment

Tocxins

Debris

Thermal removal

Pesticides

Inefficient Irrigation worldwide the amount of land irrigation has been increasing

Weather from aquifers or surface bodies of water, the majority of the freshwater we use for irrigation is lost before it reaches the ground

Center pivot, low pressure sprinkler

Low energy, precision application sprinklers

Eutrophication build up of organic matter in water causing algal blooms