

Learning Goals: 2.4 Water Quality

2.4.1 Evaluate human influences on freshwater quality

2.4.2 Evaluate human influences on water quality in North Carolina's river basins, wetlands, and tidal environments

Essential Questions:

1. What are the sources of freshwater and what limits its availability?
2. How do human activities influence freshwater availability?
3. How can you conserve freshwater?
4. What is water quality?
5. What are the effects of non-point pollution?
6. How effective are water conservation measures in maximizing freshwater quality and quantity?
7. How do human activities influence water quality in North Carolina's river basins, wetlands and tidal environments?

Primary Words: To be put into Word Maps (There are no Primary words for this unit 😊)

Secondary Words (You need to know what they mean by the time we test)

- Non-Point Pollution * Conservation * Sedimentation * arsenic * stewardship
- Diminish * pollute * resource

Learning Objectives: BY THE END OF THIS UNIT, I WILL BE ABLE TO...

1. Identify consequences of aquifer depletion; i.e. saltwater intrusion and pumping.
2. Understand the sources of freshwater and the availability as a limited resource.
3. Explain human influences on water quality in NC Rivers, wetlands and tidal basins.
4. Identify various water uses by humans and evaluate benefits and consequences.
5. Define water quality
6. Analyze non-point source pollution and effects on water quality such as: sedimentation, storm water runoff, natural and human induced occurrences of arsenic in groundwater.
7. Describe conservation measures to maximize water quality and quantity of available freshwater resources