



Name: _____
Grade: _____
Date: _____

Northeast Ohio Regional Sewer District – Open House *September 16, 2017
This homework is due on October 16th, 2017

1. In what year was the sewer district created? _____

2. What is the Sewer District's primary function? _____

3. How many treatment plants does the Sewer District operate? _____

Name them:

4. What type of problems arise from stormwater runoff?

5. In your own words, describe the Urban Water Cycle?

6. How does wastewater end up at the Sewer District?

7. In which two bodies of water is clean wastewater returned?

8. List and describe the major steps used to clean wastewater:

A. _____

B. _____

- C. _____

- D. _____

9. Is it possible to work at the Sewer District in high school? If so, paid or unpaid?

10. What are the requirements of a B-STEM internship at NEORS?

11. What can you do today to begin to learn about careers?

What is a watershed and why is stormwater management important?



A watershed is the area of land that drains into a body of water. The largest watershed in Northeast Ohio is Lake Erie. To the left is a simple illustration of a typical watershed. Rainwater and melted snow, (often called stormwater) flows downhill through the watershed to streams, rivers, and the lake, carrying any pollutants (motor oil, animal waste, fertilizers) and debris it picks up along the way. Healthy watersheds provide us with drinking water, as well as water for irrigation, industry, and recreation. Our wildlife depends on healthy watersheds for food and shelter. Everything that is done in our watershed affects the entire ecosystem. The Sewer District works to improve the

ecological footprint in our environment by managing stormwater issues. The inability to effectively deal with stormwater results in flooded homes and streets, more pollutants entering our waterways, and erosion problems. When it rains, the ground and bodies of water, (ponds and streams) take in as much stormwater as they can. But in cities,

pavement has replaced the natural green spaces that slow the pace of water runoff. Roads, parking lots, driveways, and sidewalks can't absorb water, so it moves quickly over these paved surfaces into nearby streams or storm sewers, which can become overloaded. In addition, the scouring effect of fast-moving stormwater impacts the stability of riverbanks and the fish, insects, and plants that live in area streams.

12. In your own words, describe what a watershed is:

13. How do urban environments, (cities) contribute to stormwater issues?

14. Name at least 2 benefits of a healthy watershed:

a. _____

b. _____

15. The loss of natural green spaces can yield detrimental outcomes in our environment. Describe at least 3 negative impacts

16. Bonus: Lake Erie has many tributaries. What watershed do you live in?



Program Sponsors:

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www.neorsd.org/neo_step_program