

Name _____

Section 1

Read the following article on the website:

What Causes Algal Blooms?

<https://cees.iupui.edu/research/algals-toxicology/bloomfactors>

Answer the following questions:

1. The development and proliferation of algal blooms most likely results from what factors?
2. What do nutrients promote and what is eutrophication?
3. What are the main nutrients that cause algal blooms?
4. From what sources are nitrogen and phosphate entering into the aquatic ecosystems?

Section 2

Read the following information on the website below and answer the following questions:

<http://epa.ohio.gov/dsw/tmdl/CuyahogaRiver#116519124-monitoring>

5. Describe the Cuyahoga River watershed. How many miles is it? How many counties? What major cities?
6. What type of land is located around the Cuyahoga River watershed?

7. Click the monitoring button. How often is the watershed monitored? Do you think this is enough? Why?

8. Knowing now that many of the types of lands around the Cuyahoga watershed are agricultural and that the nutrients (phosphate and nitrates) enter mainly into aquatic ecosystems through agricultural runoff, do you think Lake Erie and surrounding waterways struggle with eutrophication and algal blooms? Google and research Lake Erie algal blooms and write examples of this process happening in Lake Erie. Cite websites that you find.

Section 3

9. Google and search global water crisis. Choose any article that interests you and write 5-8 sentences on what is going on in the world today with our water supply.

10. Knowing what you do about the water crisis/Cuyahoga watershed/lack of monitoring/algal blooms, do you feel that we take care of our water here in Ohio? Do you feel we can do more? What do you feel we can do/what ideas do you have to help?

Section 4

11. Read the following information found on the website:

<https://www.cuyahogawcd.org/euclid-creek/programs/euclid-creek-volunteer-monitoring-program>

Do you think citizens can make a difference? What can citizens do to help scientists find and solve problems?