



WATER QUALITY WEDNESDAYS WORKSHEET

<https://waterqualitywednesdays.weebly.com/>

Name: _____

Date: _____

Learn about Cornell Cooperative Extension and The Village of Patchogue's Water Quality Wednesdays study, stormwater management, and the local water quality of Patchogue Bay and River in Suffolk County. Follow along with the website to complete this worksheet.

Sampling Stations

1. Why were both bays and tributaries tested in this experiment?

2. Explain what a watershed is and why it is important for the health of the water?

Parameters Measured

3. What parameters did the sonde measure?

4. What is dissolved oxygen and why is it important?

5. What can be used to approximate algal cells? _____



Species of interest

6. Name the four groups of species we looked at and the different species within those groups.

7. What are the main parameters that affected the animal groups? What about the plant groups?

Methods

8. Where in the water column were the sonde and fecal coliform measurements taken? When?

Ranking

9. What were the four ranking categories used and how were species' rankings determined?

Results

10. Where were fecal coliform levels greatest (circle one)? Bays or Tributaries

Why do you think that is? _____



11A. What were Finfish impacted by and where were they most and least able to survive?

B. What about Shellfish?

C. What about Crabs?

D. What about SAV?

Conclusions

12. What is one explanation for poorer bottom conditions in the bays and tributaries?

13. What implications does reduced SAV have on the ecosystem?

Stormwater Management

14. List 2 reasons why stormwater is a problem for water quality?



15. Explain the difference between impervious cover and permeable surfaces and how they relate to stormwater quality.

Handwriting lines for question 15.

How you can help

16. List two ways you can help improve water quality.

Handwriting lines for question 16.

Future questions

17. Part of the scientific method is creating more questions at the end of an experiment. What should the next steps of WQWs be and how do you think that will be helpful to our waterways?

Handwriting lines for question 17.



PAUL PONTIERI, Mayor
PATCHOGUE STORMWATER
MANAGEMENT PROGRAM

