## **Home Sweet Home – Student Worksheet**

Students' Names:
Type of site: Lake Pond Stream
Location:
Weather: Clear Cloudy Rain or showers Windy
Air temperature: Hot Warm Cool Cold
Air temperature (if measured)
Visual Inspection:
Color of water: Clear Brown Green Other
Bottom: Rocky Gravel Sandy Muddy Plant debris
Are there plants around the site? : Evergreens Deciduous trees
Shrubs Grasses
Is the site shaded? Mostly Somewhat A little No
Are there plants in the water? Cattails, etc Underwater plants
Plants on surface (lily pads, duckweed) Algae
Are there overhanging banks? Yes No
Land use surrounding site: Urban Suburban Agricultural
Commercial
Signs of possible pollution: Soap scum Oil slick Foam/suds
Trash (describe)
Other
Is there evidence of erosion? Yes No
Does the water have a strange color or odor (Describe)?



## **Water Quality Test Results**

Record the results of the water quality tests that your group did. You will need to get the rest of the results from the groups who did the tests.

Dissolved oxygen: Test #1	Test #2	
pH: Test #1	Test #2	
Turbidity: Test #1	Test #2	
Salinity: Test #1	Test #2	
Water temperature: Test #1	Test #2	
Velocity (if needed): Test #1	Test #2	

## Habitat requirements for bluegills:

- Dissolved oxygen greater than 5.0 mg/L
- pH 6.5-8.5
- Turbidity less than 50 NTU
- Salinity prefer less than less than 5.6 ppt; since your fish were raised in fresh water, the salinity should be less than 1 ppt
- Water temperature juveniles grow best at 22-34° C (approximately 70-90° F)
- Slow velocity in the case of a stream, less than 20 feet/minute
- Cover, especially submerged vegetation, overhanging banks, etc.

Is this site suitable for bluegills? Why or why not?

What impact might climate change, especially increased or more intense precipitation, have on the site? Think about erosion, increased nutrients, road salt, etc.



