## Seminole County Water Atlas Learning Kit Estimate or Actual? Handout

Students survey water quality and hydrology tests, classify them and justify their reasoning.

Water Atlas Curriculum Lesson 9

Date:

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## **Instructions:**

Name:

- 1. Go to the <u>Seminole County Water Atlas</u> and choose a lake by choosing Explore > Water Resources on the dropdown menu bar. Use the Filter by Topic dropdown to find a lake that has topic data for <u>all</u> of the following: Nutrient Chemistry, Water Clarity, and Water Levels.\*
- 2. On the page for your chosen lake, click on the **Water Quality** tab.
- 3. For each water quality parameter shown below,
  - Beside the name of the parameter write the **definition** of the term.
  - Record the **value** reported for the measurement (be sure to include units of measure).
  - Decide if the results are an **estimate** or an **actual** measurement.
  - Explain your reasoning in making that decision.

a	_Total Nitrogen (TN):		
	Definition:		
	Reported Value:	Estimate or Actual?	
	Reason?		
b.	Total Phosphorus (TP):		
	Definition:		
		Estimate or Actual?	
	Reason?		
c.	Chlorophyll a, uncorrected for pheophyt		
	Definition:		
	Reported Value:	_ Estimate or Actual?	
	Reason?		
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u.	Chlorophyll a, corrected for pheophytin:		
	Definition:		
		Estimate or Actual?	
	Reason?		
e.	Secchi Depth:		
	Definition:		
		Estimate or Actual?	
	Reason?		

\* All tests may not be available for every lake. If one lake does not have data, choose a different one.

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4. Now click on the Water Levels & Flows tab and follow the same instructions for each hydrology

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parameter:			
a.	Water Level, Latest Value:		
	Definition:		
	Reported Value:	_ Estimate or Actual?	
	Reason?		
b.	Flood Level:		
	Definition:		
	Definition:	Estimate or Actual?	
c.	Historic Norm for Month:		
	Definition:		
		Estimate or Actual?	
d.	Historic Range, Water Level:		
	Definition:		
	Reported Value:	Estimate or Actual?	
	Reason?		

**Hints:** Click on the **Learn more about...** links for help understanding what each parameter measures and how the value was obtained. You may also refer to the <u>Water Atlas Glossary</u>, accessible from the menu bar on each page of the Water Atlas. Go to another source, a reference book on water quality, a dictionary or any other source your teacher has made available to you, to recheck the meaning of each parameter.

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