

Studying Elevation *Handout*

INSTRUCTIONS: Go to the website: www.Pinellas.WaterAtlas.org

1. Go to the bottom where it says New Near Real Time Data Mapping Application. You are looking at the sites where live data is collected in Pinellas County.

2. Find I-275 as it heads into Pinellas County. Just to the left of it you will see a green bubble. When you hover the mouse over the bubble the station name, Roosevelt Canal, will appear.

3. Click on the bubble, observe the data available to you (map of site, type of data recorded, links available, etc.), and answer the following questions:

a. What data does this station record? _____

b. How often is the data updated? _____

c. What environmental occurrences affect the data (Elevation) at this station?

d. Click on the [Roosevelt Canal](#) link next to "Monitoring Body". This will take you to the Watershed Page, which will open up a new explorer window. What is the name of the Watershed that Roosevelt Canal is in? _____

e. Click on the hydrology tab. Click on the 'Levels Data Table and Graph'. What is the latest water level (elevation) value? What date was it recorded? What is the historic average value?

f. Click graph the trend. What is the approximate value of the highest water level for the Roosevelt Canal river segment in the past two years? _____

g. Click on the Watershed Name. What is the year-to-date total of rainfall for the watershed?

Close the Watershed Page window to return to the DataMapper window.

4. Click on the 24-hour, 7-day, and 31-day graphs and answer the following questions:

a. Has the elevation increased or decreased over the last 24 hours? What would cause these changes? _____

b. Looking at the 7 day graph, why is the elevation changing every day? In order to answer this question, you might want to close the station data box and zoom in to the station on the map. Think about where the station is and what kind of water it is measuring (saltwater or freshwater). _____

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c. In the last 30 days how many times has there been a high tide? What is the elevation of the highest tide? Is there a certain time of the day where the high tide occurs?

5. How do tides affect the habitat available to wildlife (wading birds, mammals, reptiles, aquatic organisms, etc.) in terms of chemistry, geography, light, depth, salinity, and temperature? _____

6. Who is this information important to and why? _____
