**Saltmarsh Habitat Biodiversity**

Use the following to guide your thinking as you view the “Saltmarsh” and “Sandflat” video:

Questions to address in your Hypothesis: Which habitat (sandflat or saltmarsh) will have the highest number of species and abundance of fish living in it? Why would the fish live in the habitat you have chosen? How would biodiversity vary with different substrates in an estuarine environment?

HYPOTHESIS:

Construct a Venn diagram to compare the sandflat and saltmarsh habitats and include some abiotic and biotic factors.

Look at the data table provided by UNC-IMS. Based on their trawling samples, determine which species are found in the saltmarsh and in an adjacent sandflat habitat.

Generate a graph of the different species concentrations found in both the saltmarsh and sandflat habitats (be sure to convert the graph created to log scale).

Answer the following questions based on your data:

1. Which habitat had the most fish living in it: (circle one) Salt Marsh Sand Flat

2. Did you notice any differences in fish characteristics (e.g. size) among habitat types?

3. Were there any fish sampled in a habitat that you did not expect to be there?

4. Which of the habitats may be more important to fish and why?

Use the PPT Template to complete your investigation and develop a presentation to share your findings with the class.