



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Beverly S. Levene	Project Number J0625
Project Title Salinity of Eschuaries and Lagoons in San Diego County	
Abstract Objectives/Goals The purpose of my study was to compare water salinity in estuaries and the open ocean. My hypothesis was that the closer you are to the estuary inlet, the less salty it will be. Methods/Materials I used density and conductivity to measure salinity of samples taken from Mission Bay, the San Diego River, Bataquitos Lagoon, and the ocean. Results I found that the salinity did not vary much between most of these places. Most places in the eschuaries and lagoons were about as salty as the ocean. The exception was the San Diego River. Conclusions/Discussion I found that my hypothesis was wrong; the salinity did not vary much between most of these places because the tides cause mixing between the ocean and the estuaries. In the river the salinity was very low because the river flow keep the salty tides from flowing upstream.	
Summary Statement My project compared water salinity in the ocean to that in two estuaries and lagoons.	
Help Received Used balances and pipettes at Isis Pharmaceuticals. Discussed results with Mr. Jerry Wanetick of Scripps Institute of Oceanography.	