



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Albert J. Barrios	Project Number S1102
Project Title How Are Humans Affecting Sea Anemones' Population Distributions?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The purpose of this project was to bring awareness to water pollution and the importance of sea anemones in the environment.</p> <p>Methods/Materials Water samples were collected and test for ammonia, pH, and carbon dioxide were conducted. The numbers of sea anemones were counted per measure quadrant.</p> <p>Results It was determined two of the nine sites had higher numbers of sea anemones. These sites had lower measurements of ammonia, as well as high amounts of carbon dioxide.</p> <p>Conclusions/Discussion It is therefore concluded that there is a correlation between the number of sea anemones and the the chemical composition of the water. Specifically, the presence of ammonia and carbon dioxide result in a more neutral pH which is more favorable to the sea anemones.</p>	
Summary Statement The study of water chemical contaminants and their effects on sea anemones' population.	
Help Received Cabrillo Marine Aquarium provided chemical test kits, field equipments, reverse osmosis water, and a vacuum pump.	