

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s) **Project Number** Albert J. Barrios 34625 **Project Title** How Are Humans Affecting Sea Anemones' Population Distributions **Abstract Objectives/Goals** The purpose of this project was to bring awareness to water pollution and the in ce of sea anemones in the environment. 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. **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. **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 ammones. Summary Statement mical 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.