



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

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| Name(s) Kyle Jones; Ali Lanewala; Tisa Barrios Wilson | Project Number S1703 |
| Project Title Algae Oxygen Production in the Salton Sea | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals This experiment's objective was to test the different levels of phosphorus on the oxygen production of algae in order to determine if it is a major contributor to the lack of oxygen in the Salton Sea.</p> <p>Methods/Materials Materials: Four, 5 Gallon buckets to hold the water and algae. One Triple beam balance to weigh the algae prior to placement in the buckets. Twenty-Five grams of each Miracle grow 24% phosphorus Fertilizer, Miracle Grow 18% phosphorus Fertilizer, and Vigora 4.0% phosphorus Fertilizer to put in different buckets with the water and algae.</p> <p>Results The Vigora 4.0% phosphorus Fertilizer had the least effect on the oxygen production of algae.</p> <p>Conclusions/Discussion We concluded that the 4.0% phosphate solution has the least effect on the oxygen levels as was predicted by this experiment's hypothesis, while the higher concentrations had a much larger effect, causing an expedited loss of oxygen.</p> | |
| Summary Statement To determine if the phosphorus in the agricultural run off has an effect on the oxygen production in the Salton Sea | |
| Help Received Jeff Jones drove us to the Salton Sea. The Salton Sea authority gave us an initial tour. | |