



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> Marissa N. Ahmadkhani	<b>Project Number</b> <b>J0901</b>
<b>Project Title</b> <b>Does the Runoff of a Golf Course Affect a Stream Below It?</b>	
<b>Abstract</b>	
<b>Objectives/Goals</b> My objectives, or goals, for this project was to see if the runoff from a golf course would affect the healthiness of a stream below it.	
<b>Methods/Materials</b> The materials you will need for this project are: <ul style="list-style-type: none"><li>· Containers to hold samples of water in.</li><li>· 2 jugs of water from 2 different parts of a stream</li><li>· Collection pan</li><li>· Magnifying glass</li><li>· Paper that tells how to identify the macroinvertebrates</li><li>· pH testing kit</li><li>· Nitrate testing kit</li><li>· Turbidity testing kit</li><li>· Dissolved Oxygen testing kit</li><li>· Pair of boots</li></ul>	
<b>Results</b> The Data that I got from this experiment was that the two streams were similar in health except for the nitrate levels. The streams were similar in health because the pH, Turbidity, and Dissolved Oxygen were similar. The macroinvertebrates were also similar because all of the insects that I found were symbols of a healthy creek. So, basically my data was that Uvas had a higher level of Nitrate than Chitactac, but they had basically the same health level.	
<b>Conclusions/Discussion</b> The conclusion that I formed from my experiment was that both Chitactac Adams and Christmas Hill Park had similar health. I drew this conclusion from the water tests and the macroinvertebrate search. The water tests told me that there were differences in Turbidity and Nitrate, but the biggest difference was the Nitrate. Uvas had an average of 6.6 while Chitactac had an average of 4.4. This shows that Uvas had a higher nitrate level. The macroinvertebrate test proved that the streams were clean because all the insects that I found were sensitive to pollution. So, my hypothesis was supported because Uvas was more polluted than Chitactac. Uvas had a higher level of Nitrate, which meant that less sunlight could penetrate through the water's surface. This is my conclusion for my science fair project.	
<b>Summary Statement</b> My project was to observe the affect of runoff from a golf course on the water quality of a creek.	
<b>Help Received</b> My parents helped me gather my water samples; I used lab equipment at Ascencion Solorsano under the supervision of Mrs. O'Connor	