



**CALIFORNIA STATE SCIENCE FAIR
2011 PROJECT SUMMARY**

Name(s) Mathew Hartounian	Project Number 31914
Project Title Los Angeles River Pollution	
Objectives/Goals The objective of my project was to determine the changes in pH, turbidity, ammonia and dissolved oxygen along the Los Angeles River water upstream and downstream of the Glendale Water Reclamation Treatment Plant. Abstract Methods/Materials At various locations along the Los Angeles River water samples were taken upstream and downstream of the Glendale Water Reclamation Treatment Plant (Zoo Dr, Sonora Ave, Bob Hope Dr, Woodman Ave, Sepulveda Blvd upstream and Los Feliz Blvd, Glendale Blvd, Fletcher Dr, Dallas St and Hardwood St downstream) and tested for pH, turbidity, ammonia and dissolved oxygen using a pH meter, a turbidity meter (colorimeter), Hach ammonia test strip kit, and dissolved oxygen meter. The averaged results for each dependent variable (pH, turbidity, ammonia and dissolved oxygen) upstream and downstream were compared. Results It was found that the average of all samples taken had higher pH, turbidity and dissolved oxygen and lower ammonia values upstream of the Glendale Reclamation Water Treatment Plant than downstream. Conclusions/Discussion The results confirmed my hypothesis that the pollutants along the Los Angeles River water downstream of the Glendale Water Reclamation Treatment Plant had decreased.	
Summary Statement Researching the quality of the Los Angeles River water.	
Help Received My father supplied me the materials for the project.	