



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

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Project Title Water Monitoring of Boulder Creek	
Abstract Objectives/Goals Recently there has been an effort to clean up the San Lorenzo River and reintroduce native fish. In this project we are monitoring Boulder Creek, a tributary of the San Lorenzo River in Santa Cruz Mountains, in order to determine water quality and trends. We are testing the abiotic conditions of the creek to see if it is healthy for aquatic life. Methods/Materials To do this, we are using a Vernier LabPro with appropriate sensors. Results We found that nitrate is present in levels that can affect the environment, but it is nowhere near the minimum standards set by the EPA. Dissolved oxygen has been present in healthy amounts. Conclusions/Discussion Our results show that this creek is healthy enough to support aquatic life. This experiment is important because we can evaluate how people in the San Lorenzo Valley are impacting the streams, creeks, and rivers of their community.	
Summary Statement In this project we are monitoring Boulder Creek, a tributary of the San Lorenzo River in Santa Cruz Mountains, in order to determine water quality and trends to determine if the creek is healthy for aquatic species.	
Help Received Chris Berry and Hugh Dalton with the Santa Cruz City Water Department who helped us by sharing their knowledge of water quality; Mrs. Orbuch, who taught us how to run the tests, and helped us organize data; parents who provided transportation	