



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Lauren I. Grazier	Project Number J0914
Project Title Determining the Effects of Various Environmental Pollutants on Living Things	
Abstract Objectives/Goals The purpose of my project is to determine which environmental pollutant has the most effect on plants and animals. The pollutants I used were used motor oil, used transmission fluid, and used antifreeze. To represent the plant I used and elodea and to represent the animals I used daphnia. Methods/Materials I used 12 jars. Each had 3 cups of water, an elodea plant and 10 daphnia. Each jar had a certain amount of pollutant. Three jars had 4.93mL of the different pollutants. Three jars had 2.47 of the different pollutants. Three jars had 1.23mL of the different pollutants. The other three jars had no pollutant. Results The used motor oil had the worst outcome out of the three pollutants. The used antifreeze and used automatic transmission fluid both had about the same outcome. Most of the observations made on both were about the same. Conclusions/Discussion I learned from my project that it is bad to dump any pollutants anywhere that would lead to the water cycle because any pollutants contaminate water. It is worse though if oil is gets in to the water cycle.	
Summary Statement I tested different environmental pollutants on elodea and daphnia in different jars.	
Help Received pep boys helped get pollutants, a peer took pictures, mom edited writing	