

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s) **Project Number Primavera Leal-Martinez** 31267 **Project Title** Investigating the Effects of Inland Contamination Rate of Qil in Various Soil Types **Abstract** Objectives/Goals My objective was to investigate the effects of the inland contamination rate of the investigate the effects of the inland contamination rate of the investigate the effects of the inland contamination rate of the investigate the effects of the inland contamination rate of the investigate the effects of the inland contamination rate of the inland contamination ra My goal was to determine how far inland an oil spill will affect plant growth. I believe the highest harmful inland contamination rate of oil will be in the sandy soil. The least learnful inland contamination rate of oil will be in the top soil. Methods/Materials I used sponges to simulate a body of water. I placed 2 1/2 sponges in the center of 6 plastic containers. I poured 2 dry quarts of soil from 3 sample types including said, top soil, and clay on each side of the sponges. I then planted radish seeds every two centimeters of both sides of the sponges. I poured 400 milliliters of water onto the sponges in each of the three trays. Water was my control. I poured 400 milliliters of oil/water onto the sponges in each of the 7 trays. I then sovered the trays and recorded sprouts on day 2, 4, 6, and 8. Results The results of my investigation on the effects of the inland contamination rate of oil in various soil types indicate that the Sandy Soil had the least inland radish seed germination. The inland radish seed germination stayed at 0. The average number of seed germination was 0. **Conclusions/Discussion** After completing my investigation on the inland contemination rate of oil in various soil types, I found that my hypothesis for the highest harmful inland contamination rate of oil was correct. My hypothesis for the highest harmful inland contamination rate of oil stated that sandy soil would be the most harmful to the seed germination. The inland radish seed germination distance in centimeters with oil contamination started at 0 centimeters, and remained at 0 centimeters. The average number of sprouts that grew was 0. My hypothesis for the least harmful inland contamination rate of oil was also correct. My hypothesis stated that the least harmful rate of oil contamination to seed germination would be in the top soil. The inland radish seed germination aistage incent meters with oil contamination started at 6 centimeters and went up to 22 centimeters. The average number of sprouts that grew was 6.36. Summary Statement d contamination rate of oil in sandy, clay, and top soil and its effect on seed germination **Help Received**