

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Julia Jeck	
Julia Jeck	J2110
	02110
Project Title	
Is Grey Water Green?	
is only water orten.	
Objectives/Goals Abstract	
The objective of this experiment was to determine whether or not biodegradable and non-biodegradable	
grey water affect how herbs grow.	
Methods/Materials The method included growing three sets of 12 herb plants from seed. E	Each of the three sets was watered
every other day for 22 days with either grey water made in a washing machine with biodegradable soap;	
grey water made in a washing machine with non-biodegradable soap; or freshwater (control group). Plant	
growth and pH was measured to determine the impact, if any, the two growth and soil alkalinity.	types of grey water had on plant
Results	
The herbs that grew the best were watered with non-biodegradable grey water and the herbs that grew the	
worst were watered with biodegradable grey water. The non-biodegradable grey water lowered the pH of the soil, creating a hospitable environment for the plants to grow, while the biodegradable grey water	
increased the pH of the soil and created a less hospitable environment	
Conclusions/Discussion	14 41 411 1 111 1
The results of the experiment did not support my hypothesis. I expected that both biodegradable and non-biodegradable grey water would harm plant growth, with biodegradable grey water being less	
harmful than non-biodegradable grey water.	aduote grey water comgress
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Summary Statement	tor then with biodogradable grow
I learned that herb plants grow better with non-biodegradable grey wat water or plain tap water.	ter than with biodegradable grey
Help Received	
My father, Eric Jeck, helped me research how to measure pH and orga	nize my results.