

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

Name(s)	Project Number
Samantha O.K Slykas	J1128
	01120
Project Title	
Potable Seawater?	
Objectives/Goals Abstract	
I wanted to learn which way was most efficient to desalinize seawater and find salt.	a usage for the remaining
Methods/Materials	
Materials: seawater, heater source, TDS meter, pH meter, filtration media, Iodine (chemical), buffering	
agents for calibration of meters. Experimental design and methods such as: filtration capture, boiling and condensation capture, solar and evaporation capture, Iodine for chemical change.	
Results	
Chemical TDS 9,400ppm / pH 7.23 Evaporation TDS 667 ppm / pH 7.07	
Filtration TDS 933ppm / pH 6.95 Boling TDS 7ppm / pH 5.65 Conclusions/Discussion	
I discovered that the boiling reclamation was the best method for achieving my goal, followed by	
evaporation (solar). The boiling cost is effective and the solar evaporation was a	extremely slow for
collection.	
Summary Statement	
Knowing that water is our most important resource, I wanted to find a cost effect potable water from seawater.	ctive way to provide
Help Received	
My mother and grandfather helped me set up equipment and locate more research.	