



## CWSF 2013 - Lethbridge, Alberta



## **Hannah Landry**

Eggshells: Simple, Practical, Cost Efficient Remedy to Address

**Cadmium Pollution** 

**Challenge:** Environment

Category: Senior

**Region:** Chignecto West **City:** Elmsdale, NS

School: Hants East Rural High School

Abstract: The goal of the study was to discover a low cost, viable water filtration

system for developing nations. The study examined the efficiency of eggshells from 6 breeds of chickens in their ability to remove cadmium from drinking/waste water. Results indicated all breeds showed they had the capacity to remove this heavy metal; however the Hungarian Yellow was

determined to be the most efficient.

## Biography

I am a grade 12 student at Hants East Rural High, in Milford, Nova Scotia. Next year I am attending the University of Ottawa, where I will take the Bio-medical Sciences program, in preparation for medical school. I am an avid volunteer within my community and province, I have started my own organization called Youth Who Care, a forum connecting youth with volunteer opportunities in the community. I paired my passion for helping others along with my passion for science to come up with my project, I designed a filtration system made up entirely of eggshell waste for those in developing nations to safely and cheaply remove cadmium from their drinking water. I hope to further my research by determining if eggshells remove other heavy metals as well as cadmium. You really have to put your heart and soul into these projects if you want to be successful, it takes up a lot of time and you have to like what you're doing for the passion to shine through to the judges.

Awards	Value
Canadian Stockholm Junior Water Prize	\$2 000
Sponsor: Canadian WEF Member Associations, the Canadian Water and	
Wastewater Association, and Jacobs	
Excellence Award - Senior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$4 100



