

CWSF 2019 - Fredericton, New Brunswick



Annie Bloomfield, Malcolm Cameron

Grey is the Way: Developing a Residential Greywater Treatment

Challenge: Environment

Category: Senior

Region: Strait

City: Antigonish, NS

School: Dr. John Hugh Gillis Regional School

Abstract: The purpose of our project was to make household wastewater recyclable. We created a natural clarifier to treat the wastewater and used this in combination with a series of filtrations to reach our goal. Our water treatments can be used to reduce freshwater usage in houses by 26-30%. It can be used for toilets, showers, washing machines, gardening, and more!

Biographies

Annie - My name is Annie Bloomfield. I am a grade 12 student from Dr. John Hugh Gillis Regional High School in Antigonish, Nova Scotia. I will be taking Medical Science at Western University this fall. I work on a horse farm and enjoy horseback riding, dance, art, music and 4H. I also really enjoy science... I love taking a pressing issue and creating a solution for it. My partner, Malcolm, and I were very interested in experimenting with water pollution and alleviating the residential use of freshwater. Plans for further investigations would include experimenting on a larger scale and introducing a vacuum to our system to extract biodegradable sediment...

Malcolm - My name is Malcolm Cameron and I am a grade 12 student from Antigonish, Nova Scotia. In the fall of 2019, I plan to attend Dalhousie University to take Medical Sciences. I have been a competitive swimmer for 9 years, I am student council co-president of my school, and I teach kids swimming lessons. My partner, Annie, and I originally started a project to find a way to clean ocean pollution. It didn't quite work out, so we looked into household wastewater clarification. With more investigation, we hope to include a vacuum to our filtration system to extract biodegradable sediment. My advice for students thinking about doing a project would be ...

Awards

Value

Canadian Stockholm Junior Water Prize - Senior Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$300
Total	\$300