

## CWSF 2012 - Charlottetown, Prince Edward Island



### Samantha Higgins, Mandy Smith

#### Idle Free

**Challenge:** Environment

**Category:** Intermediate

**Region:** Chignecto West

**City:** Enfield, NS, Nine Mile River, NS

**School:** Hants East Rural High School

**Abstract:** This project was designed to determine the volume of emissions produced by idling in drive-thrus, and to find a means to reduce it. It suggests two feasible solutions: avoid drive-thrus, or construct new drive-thrus using a more eco-friendly design. In this project, sloped approaches are investigated which would allow vehicles to coast to the take out window, thereby reducing idling emissions and fuel costs.

#### Biographies

Samantha - My name is Samantha Higgins, I'm a grade 10 student at Hants East Rural High in Milford and I currently live in Enfield, Nova Scotia. I have many hobbies and interests, ranging from sports like soccer and rugby, to extra curricular activities like Kids Help Phone. I don't know exactly what I want to do after high school but I feel this experience will help give me an idea. This is my first Canada Wide Science Fair and I have to say it's not as easy as it looks. It is the experience of a life time and looks like it will be a blast but it is a lot of effort to get to that point. My advice for anyone doing a project would be, make sure you...

Mandy - I am a grade 10 student at Hants East Rural High School in Milford, NS, where I enjoy playing Rugby, and Wrestling. I am also a Kids Help Phone ambassador. Growing up in rural Nova Scotia, I have developed a love of the outdoors- hiking, canoeing, camping, cycling and riding. I have been in 4-H for 7 years and have enjoyed many projects especially livestock. I enjoy woodsman and tug-o-war competitions. Post-high school, I would like to study sciences, possibly agriculture, vet science or wildlife. The idea for my project, Idle Free, came to me when I was at the Englishtown ferry dock waiting to board. The lineup was on a slope and we were in ...

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
www.youthscience.ca / info@youthscience.ca  
416-341-0040