

CWSF 2012 - Charlottetown, Prince Edward Island



Derek Churchill

Green Cleanup

Challenge: Environment

Category: Intermediate

Region: Windsor

City: Windsor, ON

School: Massey S.S.

Abstract: Cyanobacteria and Fuller's Earth were used alone and in combination as water treatment methods to lower contaminant levels in Windsor's Grand Marais Drain. *Daphnia magna* were used to determine if harmful cyanobacterial products were introduced from these treatments by monitoring the *Daphnia*'s fecundity. *Synechocystis nigrescens* proved to be the most effective in removing contaminants, and had no adverse effects on *Daphnia magna*.

Biography

My name is Derek Churchill and I attend Massey Secondary School in Windsor, Ontario. I am in grade nine. My favourite subjects are science, and math. I enjoy music very much, and I play the piano. My interests include spending time with family and friends, swimming, karate, and video games. I love science and participated in the Windsor Regional Science Fair in grade seven and eight where I was very successful. This year will be my second time at the Canada Wide Science Fair, and I hope to have as much fun as I did last year. This year I'm doing a continuation from last year's project Busy Biomonitors.