

CWSF 2012 - Charlottetown, Prince Edward Island



Skye Preston

Enhancing Wetland Bioremediation

Challenge: Environment

Category: Junior

Region: York

City: MARKHAM, ON

School: Unionville Montessori School

Abstract: This project explores an innovative approach to enhancing bioremediation of wetland-aquifer systems. A porous flow channel and recirculation pump were introduced into a simulated wetland-aquifer system. Rates of phenol degradation of test systems were compared to a control system with minimal flow and no recirculation. The rate of phenol degradation by the test systems were 4 to 8 times that of the control system.

Biography

Hello! I'm Skye. I'm 14 years old and just about to finish grade 8. This will be my 2nd year at CWSF and I'm very excited to be a part of it. I've had a keen interest in all things science-related for a number of years, and believe it's important to work hard, and follow your dreams. I play rep soccer for Unionville-Milliken Mills, and participate in many school sports teams including volleyball, ultimate frisbee, soccer and tennis. This summer I will be going to Greece for 3 weeks to study, and help with, turtle conservation and rehabilitation.

Awards

Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 700