



CWSF 2008 - Ottawa, Ontario



Stephanie Gaglione

The Effects of Nitrogen and Phosphorus Fertilizers on the Bioremediation of Oil

Division: Engineering & Computing Sciences / Environmental Innovation

Category: Junior Region: York

City: Woodbridge, ON School: St. Clare Catholic E.S.

Abstract: To test the stimulation of microorganizms utilized in bioremediation,

additions of phosphorus and nitrogen were added to oil contaminated soils and water. The results indicated that an increased addition of nitrogen proved the most effective, while phosphorus and nitrogen mixtures were secondary. The supplements proved effective in increasing levels of

bioremediation.

Biography

As a 13 year old, Stephanie Gaglione has a passion for the wlderness, frequently spending her summers at summer camp in Algonquin Provincial Park camping, canoeing, and adventure tripping. A sports enthusiast, as well, she enjoys cross-country and downhill skiing, distance running, and, above all, firgure skating. In academic terms, Stephanie maintains a 95% grade average, excelling in mathematics, especially algebra, the sciences, and human geography. She is an accomplished public speaker, representing both her school, St. Clare CES, and area in the regional finals this past April. Her future aspirations are to become an aerospace engineer, biologist, or scientist. Graduating from Gr.8 this year, Stephanie will be attending St. Joseph Morrow Park in Toronto, Ontario this September. This is her first participation in the CWSF.

Awards	Value
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Earth & Environmental Sciences - Junior	\$300
Sponsor: Petro-Canada	
Total	\$1 300



