

# CWSF 2008 - Ottawa, Ontario



## Zach Elgood

### How Much N<sub>2</sub>O is in Your H<sub>2</sub>O?

**Division:** Engineering & Computing Sciences / None

**Category:** Junior

**Region:** Waterloo-Wellington

**City:** New Hamburg, ON

**School:** Courtland Avenue Senior P.S.

**Abstract:** This project examines nitrous oxide, nitrate and ammonium concentrations in municipal and private drinking water supplies. The highest concentrations of nitrous oxide, a potent greenhouse gas, were found in municipal groundwater supplies. The data suggests that the potential release of nitrous oxide, from certain municipal water supplies, could be equivalent to 50% of the flux from a nitrogen limited forest.

#### Biography

Hi, my name is Zach Elgood. I am 14 years old and attend grade 8 at Courtland Public School in Kitchener, Ontario. My interests are varied and include the sciences, writing and music. I enjoy playing the clarinet, bass clarinet and tenor sax in our school bands, and if not there, I might be found at Karate, playing chess or buried in a good book. I am thrilled to be making a second trip to the CWSF. Last year's fair in Truro was an experience I will never forget. In the future I plan to study quantum physics and my dream is to hold a position at the Perimeter Institute.

#### Awards

#### Value

Honourable Mention - Earth & Environmental Science - Junior	\$100
Sponsor: Petro-Canada	
<b>Total</b>	<b>\$100</b>