

**ACUTE TOXICITY OF POLYSOLVE OIL DISPERSANT TO  
NILE TILAPIA (*Oreochromis niloticus* Linn.) FRY**

A Special Problem

Presented to  
The Faculty of the Division of Biological Sciences  
University of the Philippines Visayas  
Miagao, Iloilo

In Partial Fulfillment  
Of the Requirements for the Degree  
BACHELOR OF SCIENCE MAJOR IN BIOLOGY

by

Bryan B. Atas

March 2011

## **Abstract**

Forty eight hour (48h) static bioassays were conducted to determine the toxicity of Polysolve oil dispersant to Nile tilapia (*Oreochromis niloticus*) fry. Median lethal concentrations (LC<sub>50</sub>) were 1.03, 0.79, 0.70, 0.45, and 0.39% for 24, 30, 42, and 48h, respectively. Polysolve is highly toxic to Nile tilapia fry at low concentrations. Results showed increasing toxicity over increasing length of exposure. It is therefore recommended that Polysolve must not be used in oil spill response. Sublethal effects of the dispersant on the fry include decreased activity and impaired responses.