

**UNIVERSITY OF ZIMBABWE**

**THE EFFECTS OF TROJAN MINE WASTE ROCK DUMP AND  
MADZIWA TAILINGS DUMP ON THE ENVIRONMENT**

**BY**

**KERETIA LUPANKWA**

**THESIS SUBMITTED IN FULFILLMENT OF THE DEGREE OF DOCTOR OF  
PHILOSOPHY**

**DEPARTMENT OF GEOLOGY**

**FACULTY OF SCIENCE**

**January 2010**