

## *Institute for Environmental Monitoring and Research*

### **SRC Review of Airborne Contaminants Study**

This report describes a joint study performed by the Emissions Research and Measurement Division (ERMD) of Environment Canada and the Goose Bay Office (GBO) of the Department of National Defence to determine exhaust emissions at the CFB Goose Bay during specified flight traffic conditions.

In order to maximize the potential for gathering contaminants airborne contaminants were measured at the end of runways where exhaust gas contaminants should be at the greatest concentration. The contaminant levels were compared to national and international objectives. The study did not look at heavy metals, but examined only airborne contaminants associated with fuels burned. The results indicated that there were no measurable amounts of most contaminants and that those that registered on the monitors were well within the limits identified in the EIS. As air quality in Spruce Park was the focus, because of its proximity to the runways, the results indicate that there is no significant level of contamination from military jets. Of note was the finding that there was evidence of airborne contaminants from US (Ohio) due to atmospheric deposition unrelated to military jet training.

The study was not designed to examine the effects of exhaust on ecosystem and it doesn't address the question of chronic effects of trace metals or bioaccumulation on organisms.

### **SRC Recommendations**

- The SRC has reviewed the report and recommends its acceptance to the Board.
- The findings have limited application to ecosystem assessment, but it is clear that contaminants levels are within national air quality guidelines and standards as predicted in the EIS.
- There is no intent to proceed with further work.