

Benzene Canada-Wide Standard

PHASE 1

GOVERNMENT of NEWFOUNDLAND AND LABRADOR

Annual Progress Report - September 2001

Reductions in Benzene Emissions

NATIONAL GOAL: a 30% overall reduction in benzene emissions in 2000 from 1995 levels.

Reduction in Benzene Emissions by Sector

Oil and Gas - Natural Gas Dehydrators

Newfoundland and Labrador is not responsible for implementing the Best Management Practices (BMP) for natural gas dehydrators. These BMP were negotiated between the Canadian Association of Petroleum Producers and the governments of Canada, Saskatchewan, Alberta and British Columbia.

Transportation - Gasoline and Vehicles

Newfoundland and Labrador is not responsible for regulations pertaining to gasoline, vehicle emission standards and vapour recovery standards. These issues are regulated by Environment Canada.

Petroleum - Gasoline and Refineries

Newfoundland and Labrador is not responsible for gasoline dispensing flow rate regulations. These regulations are the responsibility of Environment Canada.

North Atlantic Refining Ltd. has one refinery located in Come by Chance, Newfoundland. The National Pollutant Release Inventory reports that benzene emissions from this refinery increased from 8.82 t in 1995 to 13.75 t in 1999 (national benzene emissions from refineries were 443 t and 258 t in 1995 and 1999, respectively). The Come by Chance refinery is not a member of the Canadian Petroleum Producers Institute (CPPI) and did not commit to CPPI's voluntary benzene reduction program. The refinery in Come by Chance has recognized the concern associated with benzene and has developed an action plan that will reduce the benzene emissions from the site. Implementation of the

action plan has begun and will be completed by 2005. It should also be noted that the refinery was not operating at full capacity in 1995, hence the increase in emissions from 1995 to 1999.

Chemical Manufacturing

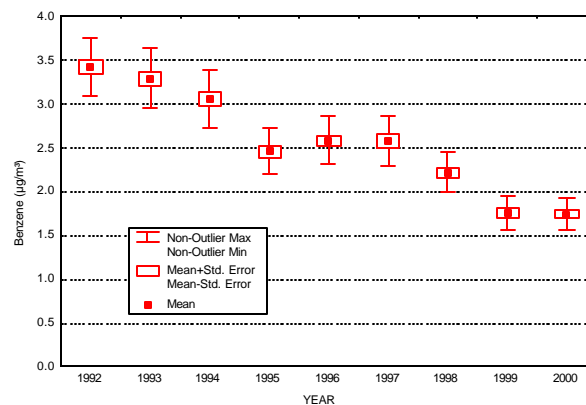
There are no chemical manufacturing plants in Newfoundland.

Steel Manufacturing

There are no steel manufacturing mills in Newfoundland and Labrador.

National Ambient Levels of Benzene

National average levels of ambient benzene decreased by approximately 30% between 1995 and 2000 (as shown in the following figure). The consistency between 1999 and 2000 ambient levels may be explained by the implementation of reductions of benzene in gasoline generally occurring well before July 1999.



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