Mining and Exploration Activity Highlights - 2008

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Mines Group

Lake Superior Basin
- Towns
- Lake Superior Basin
- Railway
- Highway
- Michigan
- Ontario
- Wisconsin

Kilometers

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Mining in NWO

1800's

1930's

1940's

North American Palladium – Lac des Iles

Goldcorp – Red Lake

Goldcorp – Musselwhite

Barrick – Teck Cominco - Hemlo
Mineral Production

Williams and David Bell Mines
(Barrick Gold Corporation)

2007: Combined production of 358,610 ounces gold
Lac des Iles Mine
(North American Palladium Ltd.)

2007 production:
5.01 Mt @ 2.39 g/t Pd

• Mine was put on a care-and-maintenance basis effective October 29, 2008 due to depressed metal prices.
Island Gold Mine
(Richmont Mines Inc.)
2007: total production of 29,235 ounces gold

Eagle River Mine
(Wesdome Gold Mines Ltd.)
2007: total production of 32,233 ounces gold
Mishi Open Pit
(Wesdome Gold Mines Ltd.)

2007: total production of 4,246 ounces gold

Potential Environmental Issues and Physical Hazards

- Environmental Hazards
  - Chemical and particulate contaminants from effluent releases can pose an environmental hazard and damage
  - Can cause short and long-term damage to the environment
- Physical Hazards
  - Mine workings open to surface and built infrastructure
  - Can pose short and long-term hazards to wildlife and human health and safety
Potential Environmental Hazards

- Tailings impoundment
- Acid rock drainage
- ARD containment
- Manufactured wetlands

Potential Physical Hazards

- Mines Group

Ontario
Part VII at Work

- Removal of an in situ bulk sample
- Waiting for the results
- Rehabilitation in progress
- The site fully rehabilitated

Active Claim Units – Northwest

168,686 active claim units = 46% of Ontario’s total

- Kenora: +99%
- Red Lake: +51%
- Patricia: +36%
- Thunder Bay: +83%

Dec. 2006
Dec. 2007
Nov. 2008
Main Agencies Involved in Permitting of Mineral Development

- Ontario Ministry of Northern Development and Mines (MNDM)
- Ontario Ministry of Environment (MoE)
- Ontario Ministry of Natural Resources (MNR)
- Canadian Department of Fisheries and Oceans (DFO)
- Environment Canada (EnvCan)
- Canadian Environmental Assessment Agency (CEAA)
- Natural Resources Canada (NRCan)
- Municipalities & First Nations
Permits and Assessments Required for Mineral Development

- Work, Land-Use & Aggregate Permits (MNR)
- Environmental Assessment (CEAA; MoE)
- Waste Management Approvals (MoE)
- Air and Water Pollution Controls (MoE)
- Protection of Fish and Wildlife (MNR, DFO, EnvCan)
- Mine Closure Plan with Financial Assurance (MNDM)
- Mandatory Public & First Nations Consultation