

PRAIRIE CREEK MINE POTENTIAL ENVIRONMENTAL IMPACTS



Valued Ecosystem Components

- Air Quality
- Water Quality and Fish
- Wildlife and Habitat
- Cumulative Effects



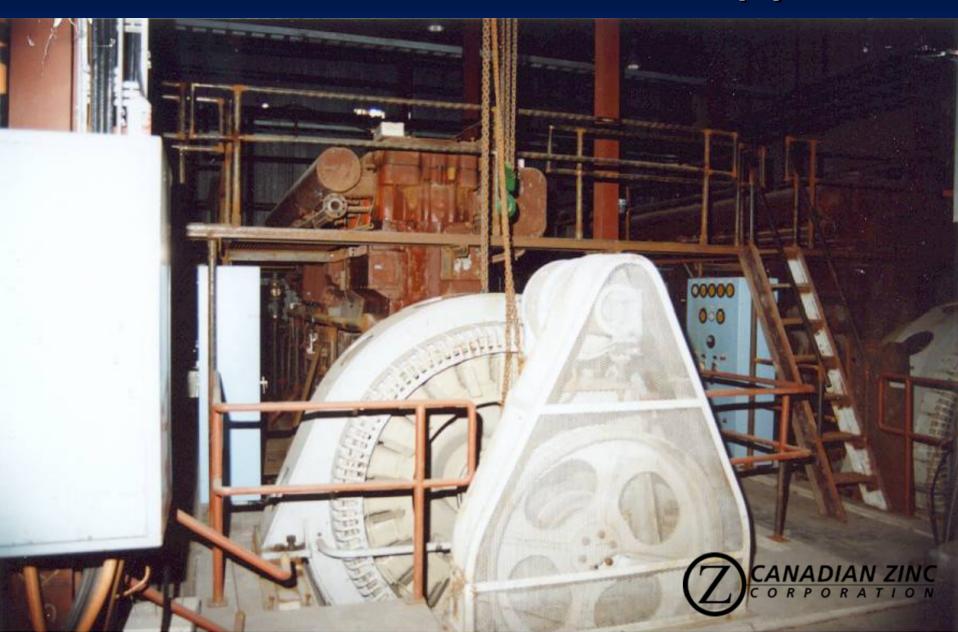
Air Quality and Mitigation

Mine

- Dust (suppression)
 - Roads and Airstrip
 - Temporary tailings storage
- Gases (reduced in new models)
 - Power generation
 - Incinerator



Old 1150 kw Generators (4)



New 1566 kw Generators (3)





Old Incinerator





New Incinerator





Air Quality

- Transfer Facilities
 - Dust
 - None, winter
 - Gases
 - Only small gensets

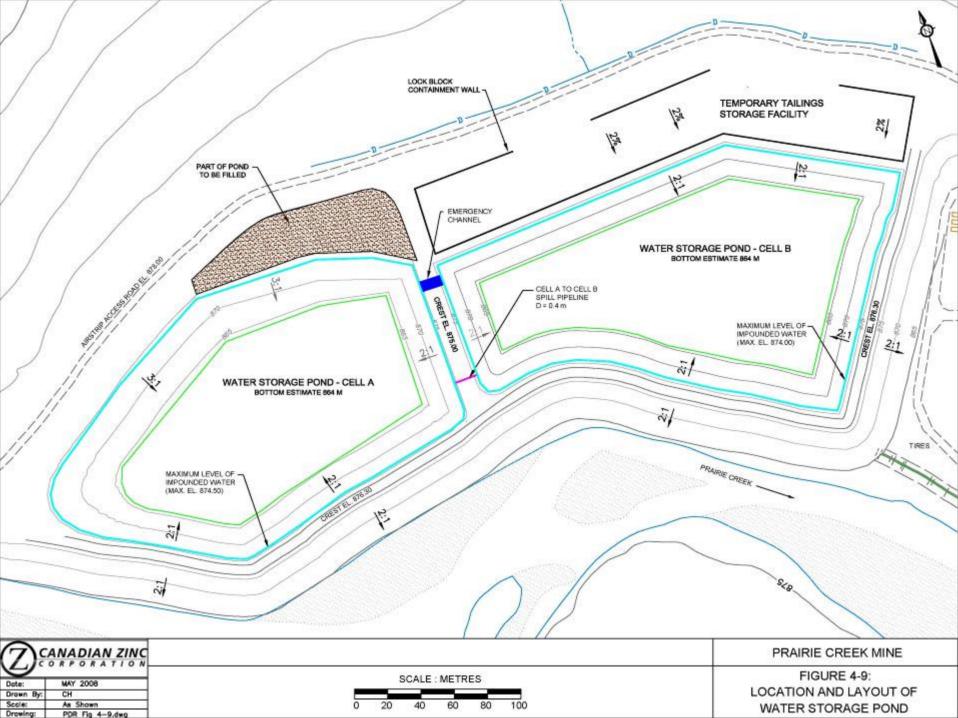


Water Quality and Fish

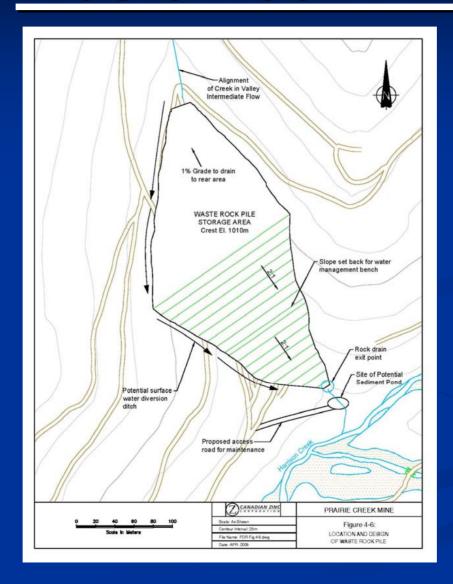
Mine - Operations

- Mine water storage and recycle to Mill
- Mill and excess mine water treatment
- Same runoff management system
- Waste Rock Pile seepage collection
- Fuel spill prevention and response
- SNP and EEM

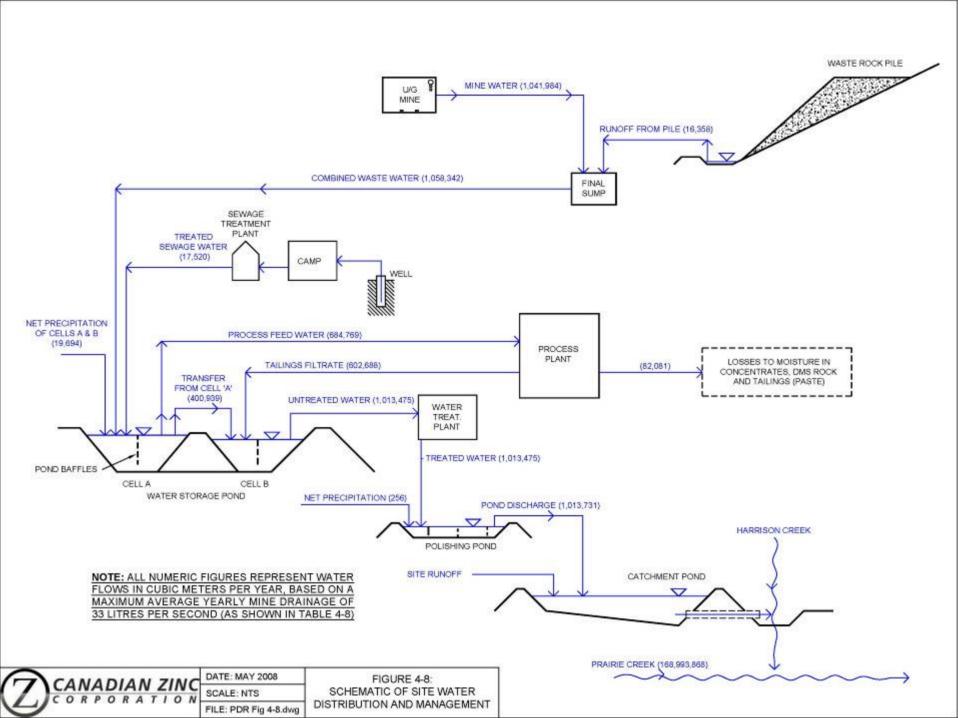




Waste Rock Pile







Water Quality and Fish

- Mine Closure
 - Mine groundwater
 - Cover for Waste Rock Pile



Water Quality and Fish

- Transfer Facilities
 - Frozen conditions
 - Spill prevention and response
 - Seasonal closure



Wildlife and Habitat

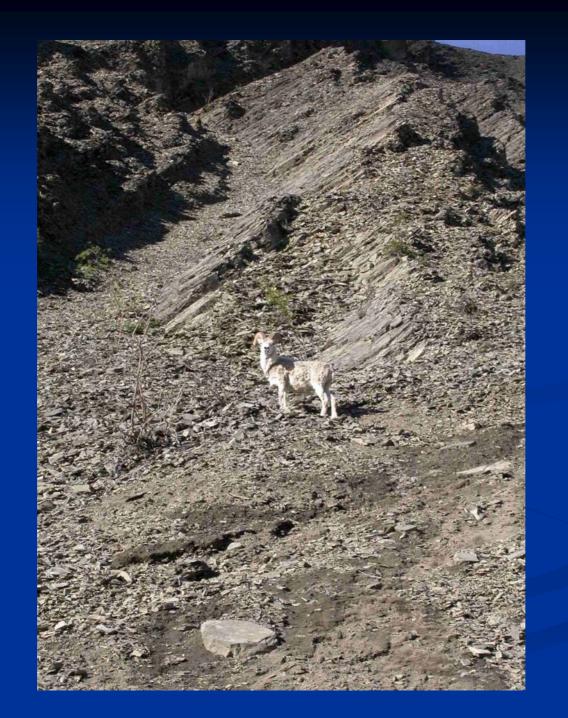
Mine

- 2006 survey
- Sighting log
- Bear awareness
- Project changes from Cadillac not significant











Wildlife and Habitat

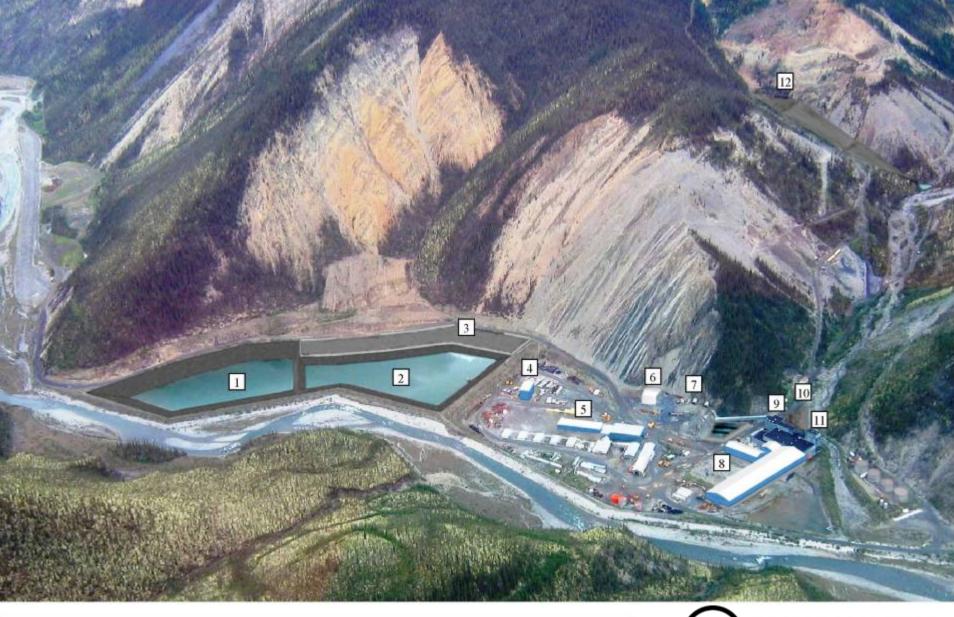
- Transfer Facilities
 - April 2007 survey, limited numbers
 - Very limited areas
 - Seasonal use only
 - Seasonal closure, removal of attractants



Cumulative Effects

- Mine Water Discharge
 - No treatment prior to 2006
 - Treatment 2006-2008
 - Similar treatment of Mine and Mill water during operations
 - Univ. of Saskatchewan/Parks
 Canada studies





Upgraded Mine Facilities:

- 1 Water Storage Pond Cell 'A'
- 2 Water Storage Pond Cell 'B'
- 3 Temporary Tailings Storage Pad
- 4 Water Treatment Plant
- 5 New Accommodations Block
- 6 Covered Ore Stockpile
- 7 New Underground Portal
- 8 Concentrate Storage Sheds
- 9 DMS Plant (Behind Mill)
- 10 Temporary DMS Rock Storage Pad
- 11 Paste Backfill Plant (Behind Mill)
- 12 Waste Rock Pile



Plate 4-2: Prairie Creek Site Showing Conceptual View of Upgraded Mine Facilities