

New 1566 kw Generators (3 Units)

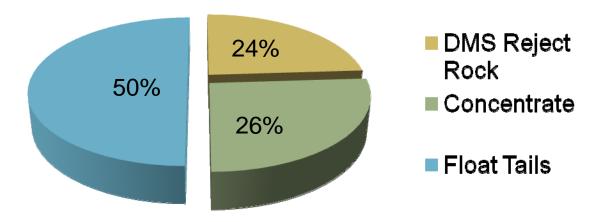






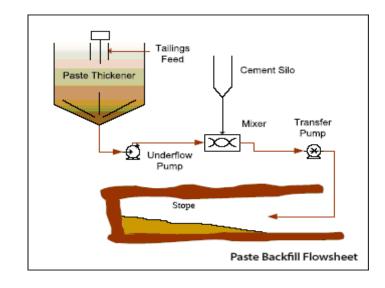
Metallurgical Summary

Prairie Creek Mine Process Summary Per Tonne of Mine Rock









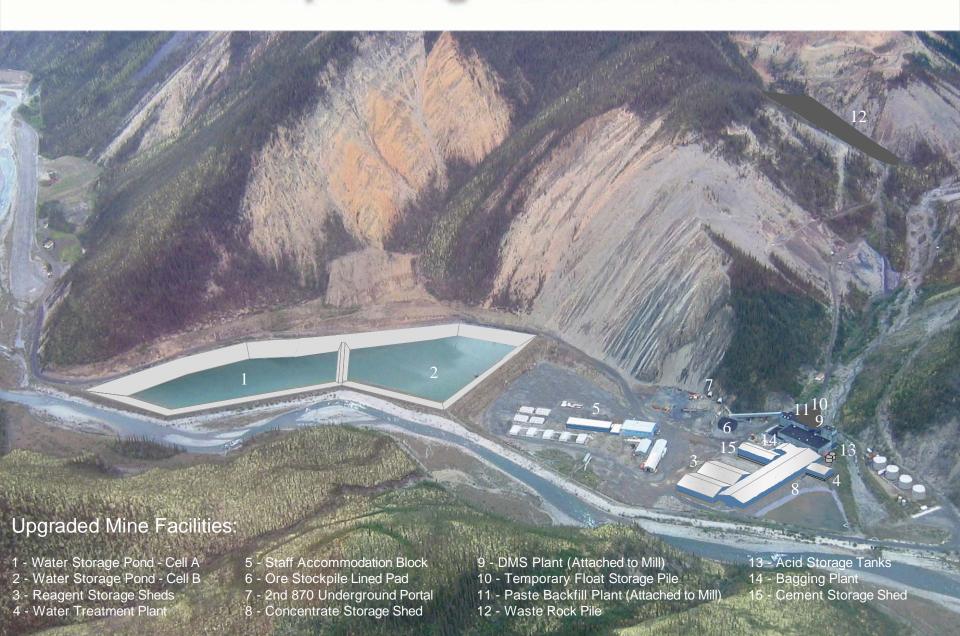
Mine Waste Management

- All tailings placed underground
- Mill rock (DMS) used in backfill, excess to Waste Rock Pile
- Waste Rock Pile for development rock
- Conversion of original tailings pond to
 Water Storage Pond to allow recycle

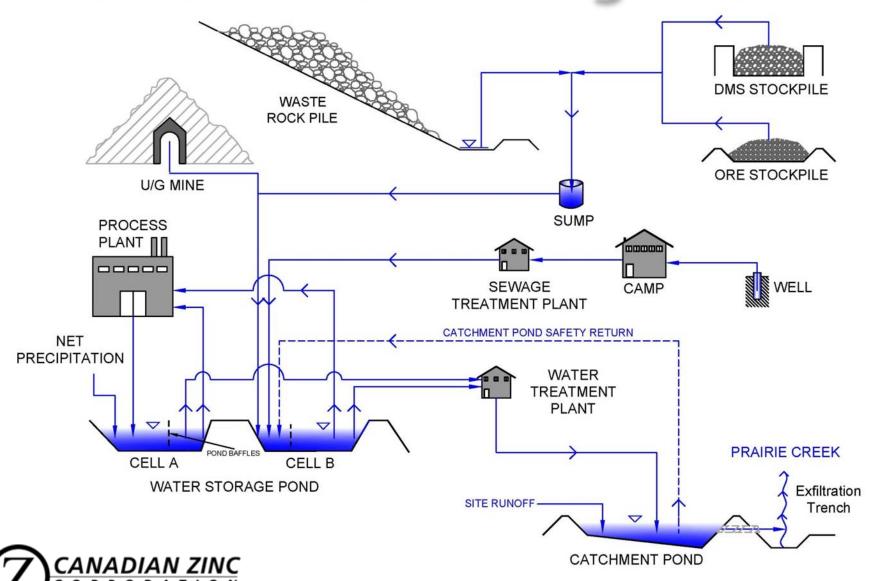


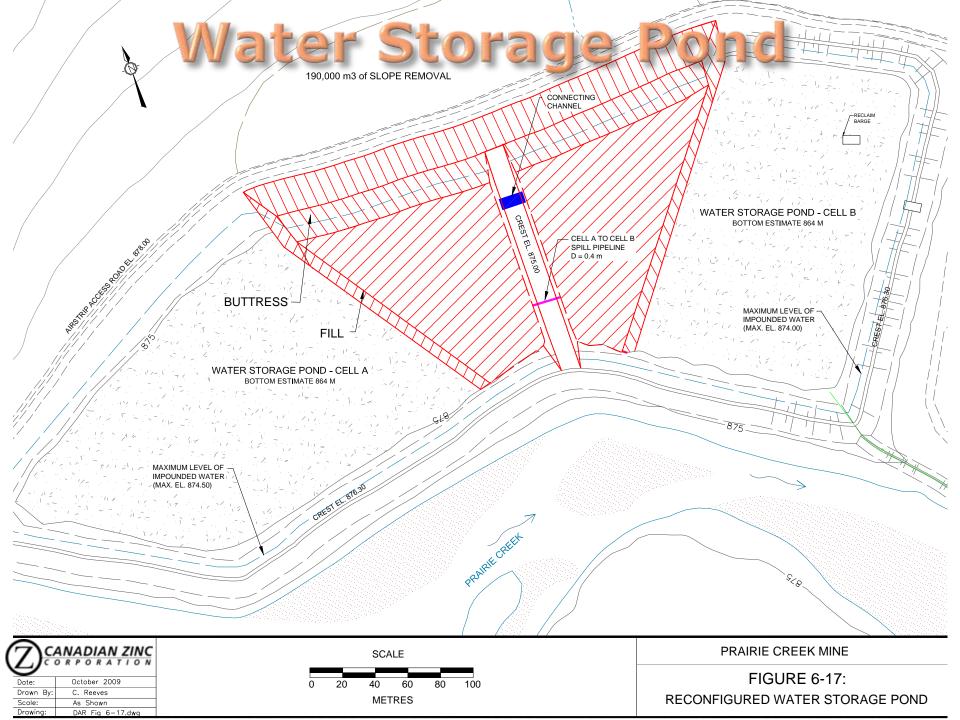
Conceptual View of Waste Rock Pile Haul Road Slope Bench m Elevation) Collection Pond Berm Legend Monitoring Well Mine Complex Water Flow 750 metre Solid Waste Facility Waste Rock Outline (500,000 m3 Capacity) Lined Sediment Pond (970 m Elevation) Laurison Creek Inert Debris (100,000 m3 Capacity)

Future Operating Prairie Creek Mine



Site Water Management



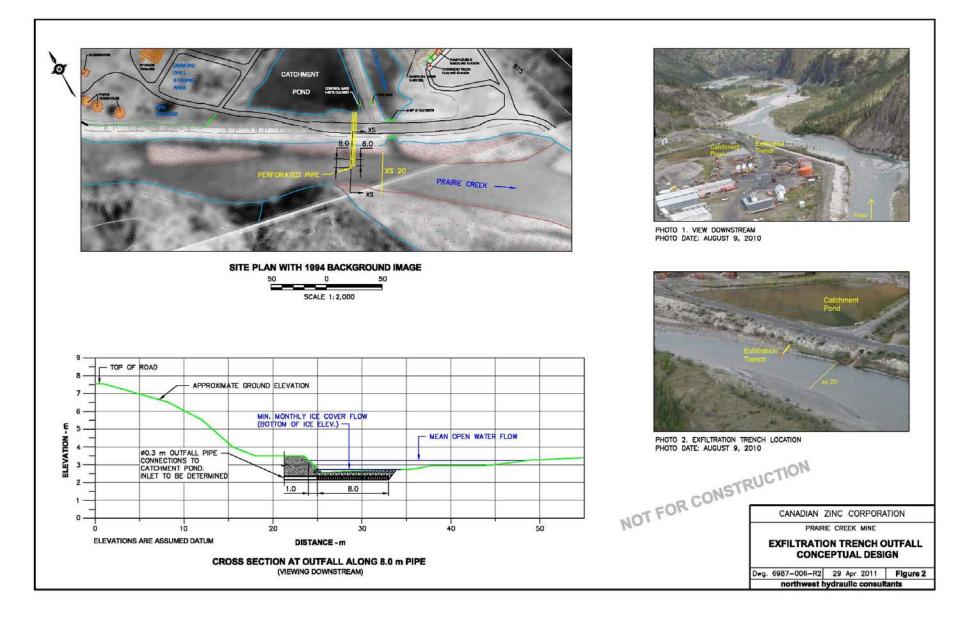


Water Protection

- Recycle and re-use mill water
- Reliable treatment of mine water and mill water for discharge at safe concentrations
- Discharge via buried pipe
- Detailed monitoring (Env. Monitors)
- Spill containment dykes and Catchment Pond



Buried Pipe Discharge

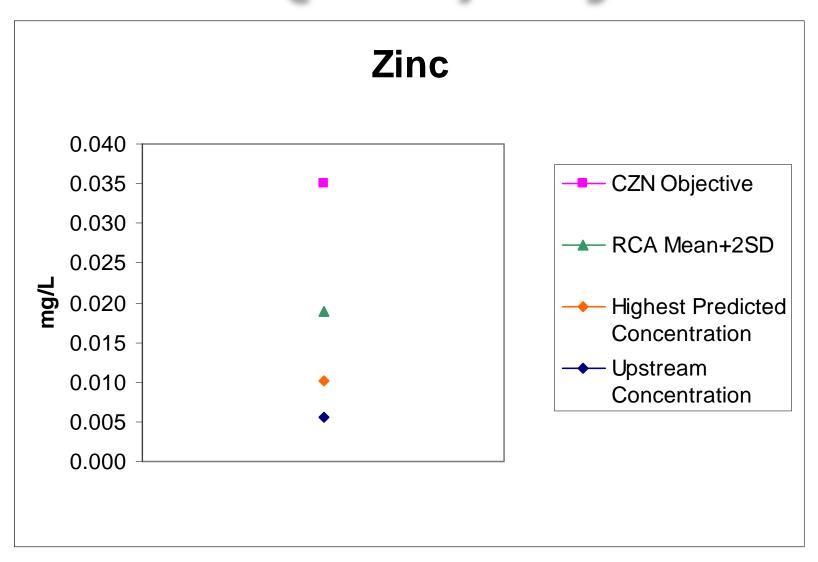


Water Quality

- Downstream water quality likely mineralized before the Mine
- Downstream shows some, but surprisingly little, affect from historic Mine
- Testing confirms future Mine operations discharge will not affect fish or other aquatic life
- Water quality after discharge meets objectives protective of aquatic life
- No significant effects on Prairie Creek, the Park or South Nahanni R.

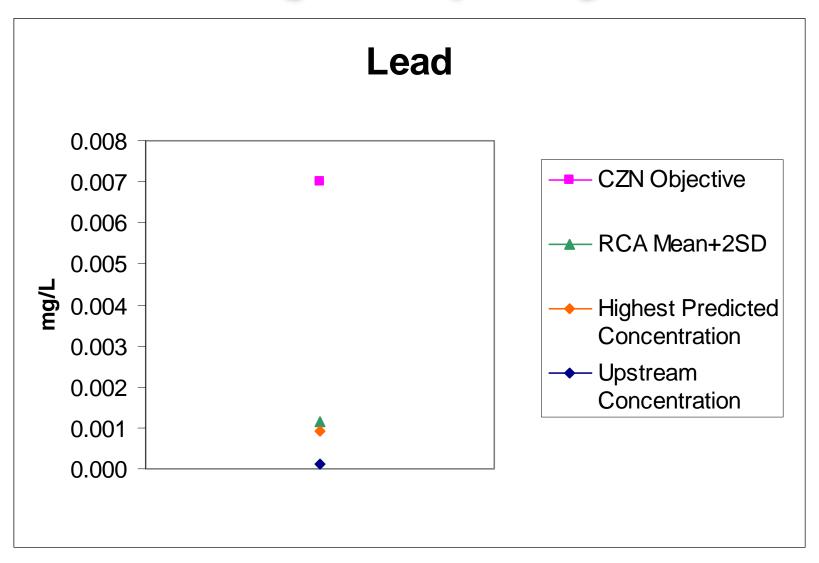


Water Quality Objective



Note: Drinking water = 5

Water Quality Objective



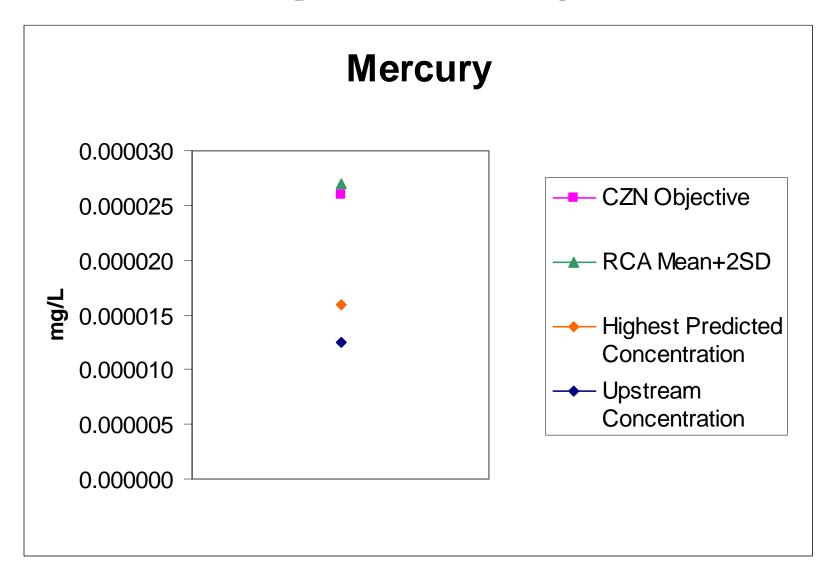
Note: Drinking water = 0.01

Mercury

- Background concentration in Prairie Creek is very low
- Similar very low concentration in mine water
- Downstream water quality will be very close to background levels
- Mine operations will not lead to a significant increase in accumulation in fish



Water Quality Objective



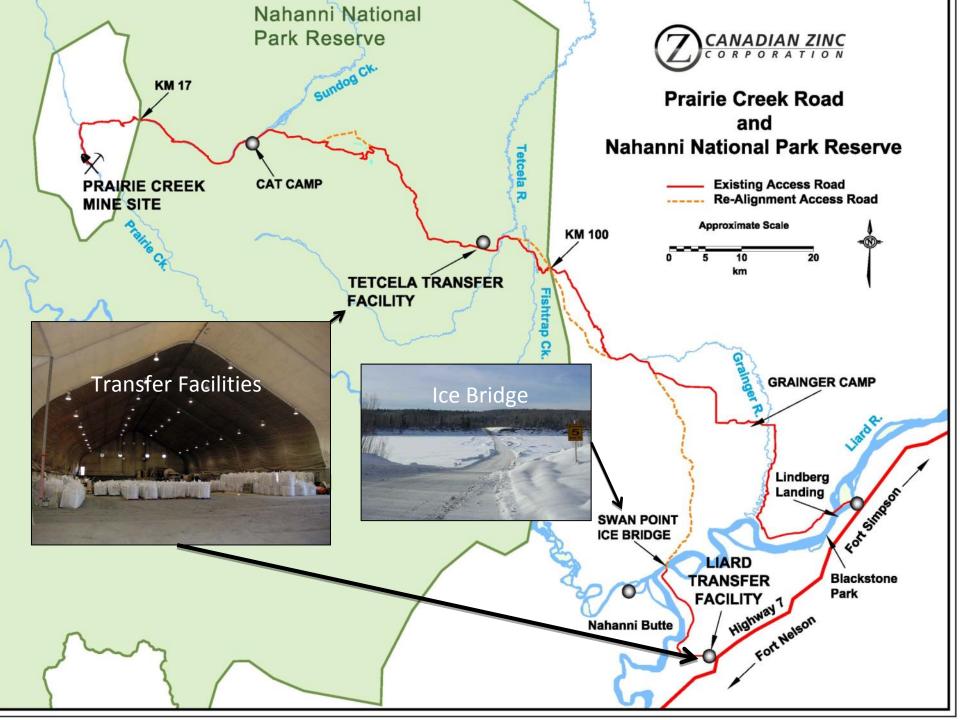
Manpower and Logistics

- 220 full-time jobs at the Mine, 110 on site at one time
- 2 mine and mill shifts, 1 admin shift, per day
- 3 weeks on, 3 weeks off rotation by air, weekly flights
- Concentrates/supplies haul to/from Mine during December-April



Prairie Creek Mine: Transport





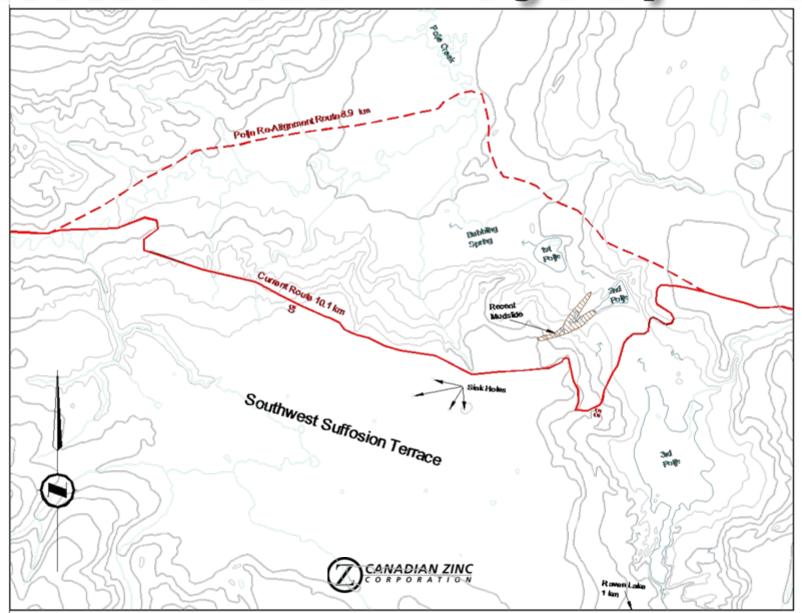
Road Design/ Changes

- Re-alignments out of wetlands
- Avoid poljes & karst features
- Reduce/remove grades/turns
- Bridges over some creeks
- Curbs, run-away lanes
- Speed limit and warning signs

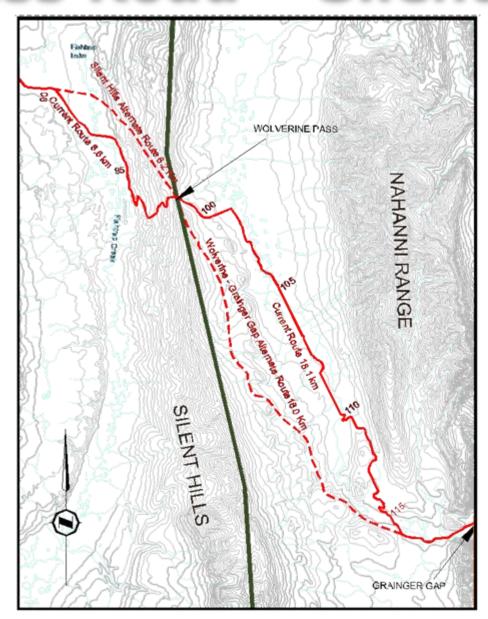




Access Road - Polje By-Pass

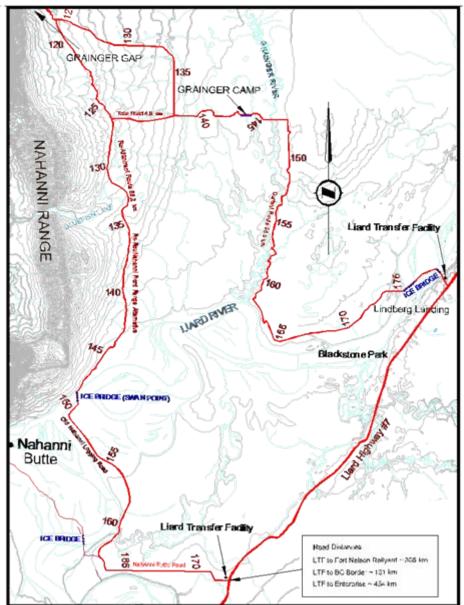


Access Road - Silent Hills



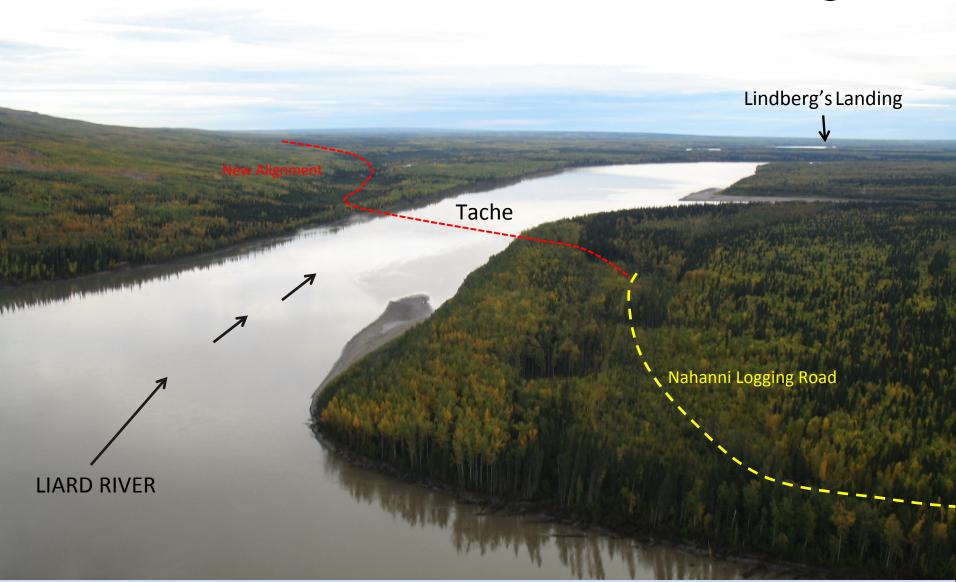


Access Road - Nahanni Range









The Nahanni Route Re-alignment and Liard Crossing: Location of Ice Bridge during winter operations

Road Construction & Maintenance

- Start from the Mine, November
- Use of frozen ground, snow/ice
- Inspect for cultural resources
- Water from Mine well or Mosquito Lake
- Protect stream banks
- Granular fill use, insulate permafrost
- Inspections/maintenance/closure



Road Use Schedule

- Dec 1 to Jan 15 Mine to Tetcela -Concentrates to Tetcela Transfer Facility (TTF)
- Jan 15 to Mar 31 Mine and TTF to Liard - Concentrates to Liard Transfer Facility, Supplies in to Mine
- Jan 15 to fall Liard Transfer Facility to Fort Nelson - Concentrates to railhead



Road Management

- Speed limits
- Radio contact and control
- Journey management and checkpoints
- Supervision and monitoring



Road Spill Contingency

- Response plans and response team
- Response training
- Response equipment and control points
- Driver training relevant to cargo
- Rapid response and notifications
- Complete spill clean-up verified by investigation



Access Control

- Nahanni checkpoint to deter unauthorized use
- Information and signs re high traffic road, use at own risk
- Monitoring of use (monitors and truckers)
- Contracted non-residents prohibited from entering Nahanni Butte
- Barriers when road not in use



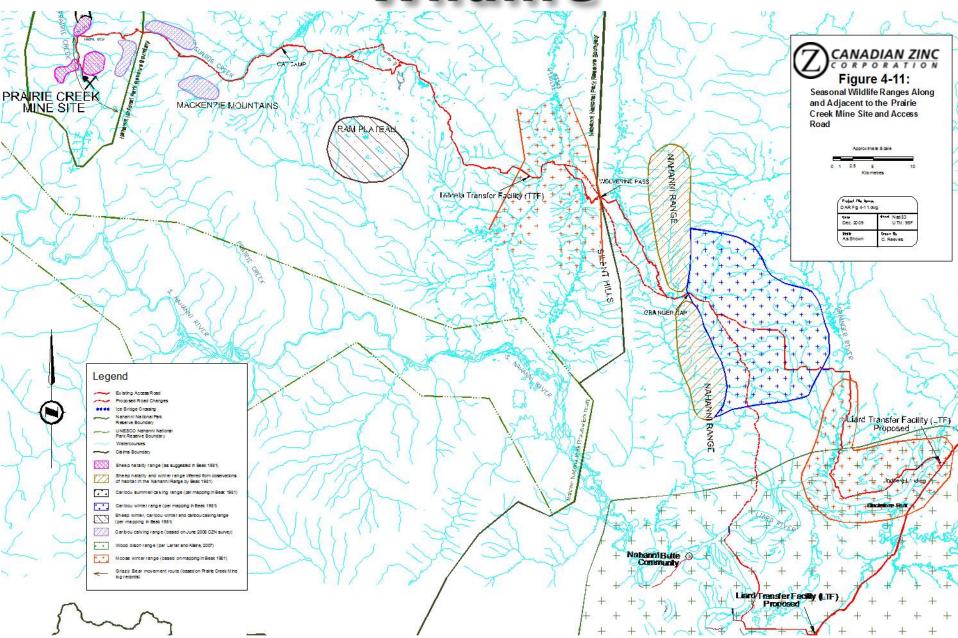
Expected Liard Facility Transfer Traffic

From	Trips	Period	
	per Day	From	То
Mine	58	January 15	March 6
Mine	37	March 6	April 15
Fort Nelson	14	January 15	October 15 *





Wildlife



Wildlife

Residual effects:

- Potential for effects on Dall's sheep lambing activity during the spring (May-June) with air traffic;
- Potential for collisions with Dall's sheep, woodland caribou and wood bison associated on access road; and,
- Potential for grizzly bear-human encounters at the Mine site.



Wildlife Mitigation

- Wildlife Management and Monitoring Plan
- Flight Impact Management Plan
- Speed limits, warning signs for potential collision zones. Traffic stops when wildlife near roadway
- Minimize attractants to bears. Warning and encounter management.
- No hunting/fishing by employees.



Mine Closure

- Completely fill Mine to stop portal drainage
- Cover Waste Rock Pile, limit seepage
- Treat/Monitor groundwater until quality stable and groundwater discharge will not have significant impacts
- Remove buildings and infrastructure
- Restore natural floodplain





- Fill in underground mine
- Cover for Waste Rock Pile
- Remove buildings and infrastructure
- Restore natural floodplain



Economic Benefits

- Priority hiring for the community
- Annual set—aside non-competitive contracts
- Priority on contracts
- Annual revenue
- Percentage of project's profits
- Education funds
- Anchor tenant in Band office
- On-going annual community events



Social Issues Programs

- Money Management
- Health Awareness
- Coordinating Family Assistance
- On-going Community Event Sponsorship
- Youth Workshops
- Traditional harvesting opportunities





Mahsi Cho

