

KB/FM.

See F.M. notes

1. Groundwater
 - K.P. study.
2. Lake - is it a G.W. recharge
 - how can it be checked

Questions (Board. design basis.)

- ① "Operating criteria" (pre Aug 26) - water dam phase
- ② " " (post Aug 26) (now)
- ③ Potential for access lead under the dam being generated
- ④ Efficient collection in the surface pond

What contingency plans for pressure relief
D/S of dam, monitoring of flows & pressure?

Priority

Paper study geology, hydrogeology, geotech, then design - does it matter if there is a connection - if it matters, then check it out.

Stability analyses - what pressures applied to analysis.

[Fund - review of - (stratigraphy in Sept 7) - internal & foundation drainage.]

- critical to backfill trenches
what's required to seal, backfill - trenches, boreholes? - answer required.

Upstream & downstream
(entry) (exit)

- thought needed to method of drilling + sealing

- dam zoning + drainage
- relief wells. - lab work to check existing ones.
 - geotextiles - may blind
 - may allow cratering
 - may not be a problem

- monitoring.

- internal drainage

13. Relief well / + trench on D/S side of existing dam - neutralize existing wellson + supplement & + to work as "cut off collection" for E.C.P.

14. As built.

14.A

16 Limited x section

- inclusion of interior + to drain.

18 Till cracking

- drying / shrinkage
- loose cover - capillary break
- 18" could dry in a few sunny weeks + crack to that depth
- timing, what happens between rows + how water goes in
- generally not a problem.

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20. Both starter + ultimate.

- settlement, lateral movements.
- cracking potential (till will be brittle)
- internal drainage / crack stopper
- internal deformation + effect on pipes
- what needed to make plumbing work.

21. Drain system for raising.

The application includes the following:

Letter report entitled Borehole Logs for PRW 96-1 to 4 by Knight Piesold, dated July 30, 1996;

Letter report entitled Geotechnical Information Obtained from 1996 Borehole Investigation by Knight Piesold, dated July 26, 1996;

Letter report entitled CPT Investigations @ Main Embankment by Knight Piesold, dated July 30, 1996;

Weekly report entitled Mt. Polley Tailings Embankment Foundations by Knight Piesold, dated July 26, 1996;

Letter report entitled CPT Investigation by Knight Piesold, dated July 29, 1996.

CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the application and amends condition 3 Tailings Impoundment as follows:

Work System

3. ~~A.~~ Tailings Impoundment

- c) ~~d~~ The Tailing Storage Facility Stage I (b) design revisions and construction to elevation 934 metres are approved. These design revisions include the embankments, foundation drainage, basin liner, barge reclaim system, and seepage collection pond. All construction shall be supervised by the design consultant.
- ~~e~~ The toe drain conveyance pipes and extensions in the main embankment and perimeter dyke are not approved and shall be reviewed as part of an overall dam design review.
- f) ~~e~~ The freeboard above the maximum pond operating level shall include 1 metre for wave run-up and storage for the 24 hour PMP.

.../3

August 13, 1996

- g) ~~h~~ The Permittee shall submit to the Chief Inspector an 'as built' report for tailings dam construction as soon as possible after construction and no later than March 31 of the year following.

The Permittee shall obtain permission from the Chief Inspector prior to storage of water, tailings, or supernatant within the impoundment.

- j) ~~i~~ The main embankment seepage collection pond shall be constructed and operated to ensure stability.

All other conditions of Permit 200 remain the same.

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