

**From:** Les Galbraith  
**Sent:** Friday, March 11, 2005 2:50 PM  
**To:** 'rmartel@mountpolley.com'  
**CC:** Les Galbraith; Ken Brouwer  
**Subject:** answers to questions

Ron:

1) For the south embankment, do we need to construct Zone F, T, C and the drain c/w with sump in stage 4?

[Les Galbraith] The drains and sump need to be installed prior to placing the Zone C material and should be installed while KP is on site. Placing the shell zone material at the South Embankment also requires that the foundation be properly prepared, inspected and approved by KP prior to placement of material. Geotextile also needs to be installed on top of the approved subgrade prior to fill placement. These items require QA/QC as discussed in the technical specifications. The extension of the shell zones at the Main and Perimeter Embankments only include Zone C material (no filter materials) as we are expanding, not creating, the downstream shell zones there. Constructing the shell zone at the South Embankment involves raising Zones T and F concurrently with the Zone C. The construction of the filter zone is critical and requires QA/QC by Knight Piesold, this is why Farid is on site now and why we would like to get this done during Stage 4. The foundation preparation also applies to the Main and Perimeter Embankments where Zone C material is placed on natural ground as the downstream toe is extended to the ultimate toe.

2) With a water elevation of 945.8m projected after spring runoff of 2006...are there any concerns with not putting in zone F and T in the main and perimeter

embankments this year, the same question would be asked about the south embankment if the answer to 1 is no.

[Les Galbraith] No concerns

3) Thanks for your e-mail below...to date we have been end spilling tailings at chainage CH25+00 along the main embankment,, it may be too early to tell, however,if the need be, we may request that Harvey brainstorm with us an optimized system to distribute tailings to the west end of the main embankment...

[Les Galbraith] It may be possible to extend the pipeline you have now further along the Main Embankment. The "Y" concept we discussed doesn't work as the friction losses are greater in smaller pipes as compared to larger pipes. The easiest way to extend the pipeline further along the ME is to add on the existing pipeline that is there. You could extend the pipeline in 100 or 200 m increments, and if there are no problems with the tailings deposition keep going. Surges from the mill or excess water inflow at the drop box could still overload the line and result in some spillage at the drop-box. Spillage at the drop box is really the indicator that there is a problem. The fewer high and low spots along the embankment and the less material that is allowed to settle and "set-up" in the line, the better the chance of it operating well. This may not get the tailings discharge point to the west side of the ME though but it may get you further than you are now.

4) Les, can you list the zone volume estimates per dam?

[Les Galbraith] Yes. We will include these volumes in the report.

5) On the section drawings of the main and perimeter dam...how would we practically build the zone S "wedged" section located on the inside of zone c and along the current embankment?

[Les Galbraith] I assume you mean the wedge located inside of zone S. The zone S wedge will be tied into the existing core and zone U in benches. The base of the wedge will be overbuilt to facilitate placement and compaction of the zone S material. This will be worked out during the construction program.

6) If we deposited tailings to an elevation above elevation 943, say to an elevation of 944, would we have to excavate the tailings along the dam to accommodate zone S tie in.

[Les Galbraith] Maybe, depending on how high the beach is compared to the crest. However, depositing tailings to 944 is probably not a good idea given that the current crest is at 944 and you need roughly 1.4 m of freeboard.

7) Can we overbuild zone S downstream ( 1:1) in 2005 to facilitate zone F and T tie-in at a latter date?

[Les Galbraith] We may be able to steepen this slope a little but it is not a big savings in material as you have to excavate down 1 m to get to the top of the filter zone material anyways. I would leave the slope at 2:1 as it may allow us to push the Stage 4 crest elevation slightly above 948 if required.

Les Galbraith, P.Eng.  
Senior Engineer

*Knight Piésold Ltd.  
1400 - 750 West Pender  
Vancouver, B.C.  
Canada V6C 2T8  
Phone: +1 604 685 0543  
Fax: +1 604 685 0147*

<http://www.knightpiesold.com> (new web site)

This communication, including any attachments, is intended only for the use of the intended recipient(s) and is confidential. If the reader of this communication is not the intended recipient, any dissemination, distribution or copying of this communication is strictly prohibited. Knight Piésold does not warrant the accuracy of this communication. If you receive this communication in error, please notify the sender by return e-mail and delete this communication from your system.