
From: Ostritchenko, Dmitri
Sent: Wednesday, July 16, 2014 6:59 PM
To: Luke Moger
Subject: RE: TSF Water Management Plan

Luke,

Sorry for the delayed responds with regard to your email. I wanted to make sure I had a chance to talk about it with Andrew as he is the technical advisor for this project.

The proposed plan is acceptable provided that the MEM is satisfied with utilizing 1.1 m freeboard limit. One comment was that the plan should be elaborated slightly to include the timeline of water re-diversion events and projected construction timeline moving forwards as best as possible.

On the daily reports please add the following parameters:

Pond Elevation _____m (already being reported)

Effective Core Elevation _____ m (Lowest core elevation, including the abutments)

In addition, we would recommend, if not already implemented putting together a quick excel sheet tracking the pond elevation and effective core elevation with a 10 day moving average projection and anticipated core construction projection. This would assist with visualizing and tracking the freeboard and anticipating upcoming freeboard problems.

Also, we would recommend that the OMS manual be revised slightly to ensure that the OMS freeboard alert levels and contingency procedures are outlined in a bit more detail.

Below I have attached a sample of the Alert Levels and Contingency Procedures utilized at other facilities, these will need to be customized for your purposes. Do let us know if you would like our assistance with your OMS manual revision, and if there is anything else that you might require, or need assistance with.

Alert Levels

Four alert levels have been established, as follows:

Diminishing IDF Storage - Tailings pond water reaches a level that, when projected using the 10-day moving average, will be at the permitted water level for that elevation of the dam within 10 days.

IDF Storage Depleted – Tailings pond water reaches the maximum permitted level for that elevation of the dam.

IDF Storage Surpassed – Tailings pond water reaches a level 0.5 m above the maximum permitted level.

Diminishing Freeboard – Tailings pond water: Is projected to be at the effective crest level within 10 days based on the rate of increase over the previous 24 hours or over the previous 10 days, whichever is greater; or, Rises to within 0.5 m of dam crest.

Contingency Procedures

Diminishing IDF Storage

Notify the mill to take reasonable actions to maximize pond reclaim and minimize fresh water inputs.

Notify Design Engineer.

Notify MEM.

Allocate sufficient equipment resources to dam construction to maintain adequate rates of progress.

Survey the water level daily.

IDF Storage Depleted

Concentrate all mine equipment resources on dam construction.

Notify Design Engineer (AMEC).

Notify MEM. Send daily reports while the water level is at or above the permitted level.

Notify the BC Ministry of Environment (MOE) and the Federal Department of Fisheries and Oceans (DFO).

IDF Storage Surpassed

Notify Design Engineer.

Notify MEM.

Notify MOE and DFO.

Monitor pond rise, concentration resources on dam construction and raising, and begin preparations for emergency discharge of water using the reclaim system should rise continue.

Diminishing Freeboard

Notify Design Engineer.

Notify Emergency contacts (police, MEM, MOE, DFO) of possible dam failure.

Maintain 24-hour visual observation of water levels and survey at 6-hour intervals.

Evacuate the valleys downstream of both the Dams as per the water level predictions for initial water release listed on MAP01 in Appendix E.

Use reclaim system, seepage return systems (as siphons), and/or temporary facilities for emergency discharge of surplus water from the impoundment.

Thanks,

Dmitri Ostritchenko, P.Eng.

Geotechnical Engineer

AMEC Environment & Infrastructure

Phone: (250) 564-3243 Cell: (250) 612-9867

From: Luke Moger [mailto:lmoger@mountpolley.com]

Sent: Monday, July 14, 2014 3:10 PM

To: Ostritchenko, Dmitri

Subject: TSF Water Management Plan

Hi Dmitri;

As per my last correspondence with MEM, I would like to move forwards with a joint plan for freeboard management to tie off this 2014 incident as we continued with >1.3m freeboard.

As an update, we have introduced the Springer Dewatering (West Ditch) flow back into the TSF, but the Cariboo water has yet to be pumped.

I would like to propose the following:

- Continued daily monitoring of pond elevation (through daily reports) and reporting to AMEC
- Phased dewatering of Cariboo Pit, aiming on maintaining 1.3m freeboard
 - o Left at AMEC and MPMC discretion to continue, with communication to MEM if freeboard drops below 1.1m (we will be in the clear for freeboard once we get this next 'lap' of till on, but I think if we start

introducing water or have a storm event in the meantime, we may dip to 1.2m, and I don't want to trigger it at this level knowing that we are holding at just over 1.3m at the lowest spots).

Is this outline acceptable to AMEC? If so, I will draft up something a bit more formal.

Kindest Regards,

Luke



Luke Moger, PMP
Project Engineer, Mine Operations
Mount Polley Mining Corporation
PO Box 12
Likely, BC V0L 1N0
Canada

Direct: +1 (250) 790-2215 ext. 2113

Fax: +1 (250) 790-2613

E-mail: LMoger@MountPolley.com