

Figure 6 Ideal Condition of Drawdown

1. **Risk of dike breaching during pumping when outside water level is above +3.8 m MSL.** If pumping starts before the outside water level reaches +3.8m MSL, then there is a higher risk of dike breaching during pumping. The failure of dike will raise the inside water level to match the outside water level within a very short period with schematic shown in Figure 7. During repair of dike, the inside water level will equilibrate with the outside water level. Once the pumping has restarted, then the drawdown will continue. The consequence of the dike breaching with high outside water level is ***considered minor*** with minimum risk to safety, but there will be a loss in pumping time. Therefore, an early start in pumping is considered acceptable with some risk in time loss if the dike failed.

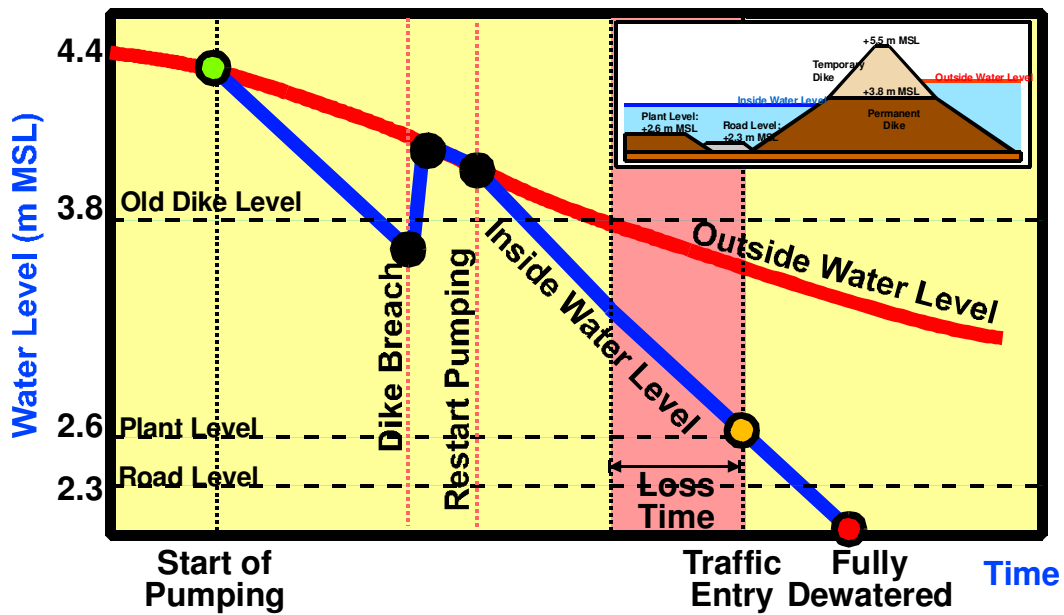


Figure 7 Water Level Condition during Dike Failure

2. **Expected condition of drawdown.** A linear water drawdown within the estate will not be unlikely due to leakage through the dike at the top section (new fill) and low hydraulic head for full flow when the water reaches lower level. Figure 8 shows the possible stages of dewatering. During the initial pumping, large leakage through the new fill is expected, then the lowering of water will be low. To meet a particular target date, it may be necessary to increase the pumps half way through the dewatering process. For the low head condition in Stage 3, it will be necessary to distribute the mobile pumps over the boundaries for shortest the drainage paths which shall be discussed in detail soon.

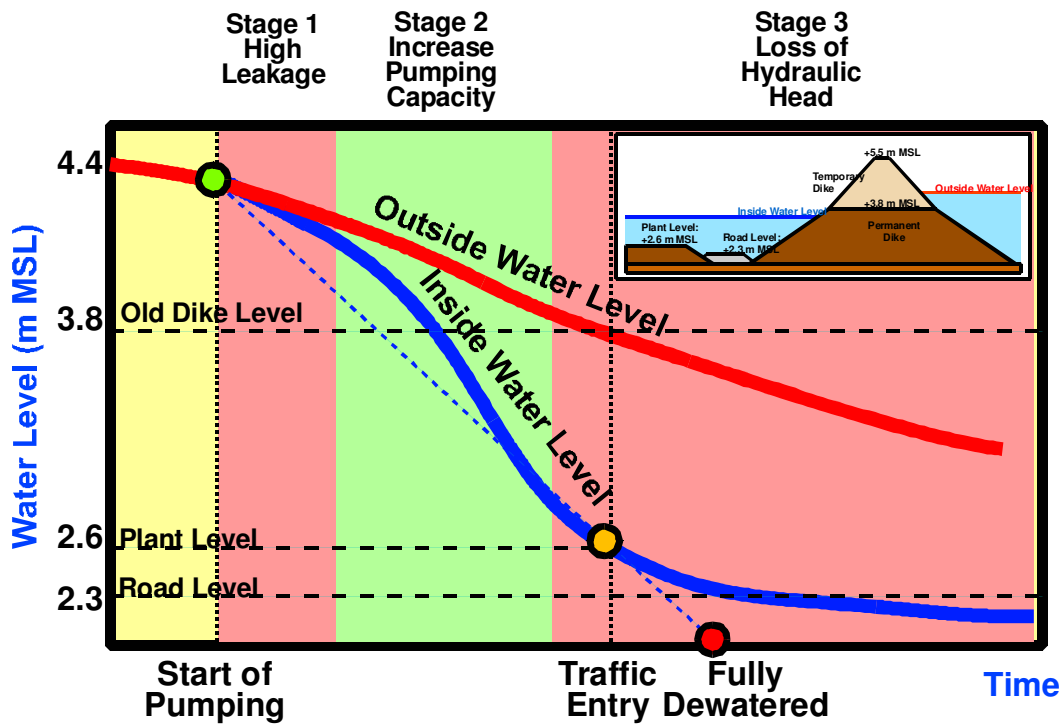


Figure 8 Expected Drawdown Time Curve

3. **Evacuation Plan.** Though the criteria for outside and inside water levels are specified, an evacuation plan or precautionary plan should be drawn out and implemented. The personnel entering the estate during the period when the outside water level is still at high level, should fully understand the evacuation plan. Hitech should work on this plan at this soonest so that those personnel have sufficient time to be briefed on the procedure.
4. **Closure of SME entrance culvert and Gate 1 entrance culvert.** It was suggested by Sino-Thai during the meeting on 7<sup>th</sup> November with involved parties that the culverts at SME and Gate 1 entrances should be blocked so that the maintenance of the some sections of the eastern dike can be omitted. This suggestion may require further discussion with the involved parties.

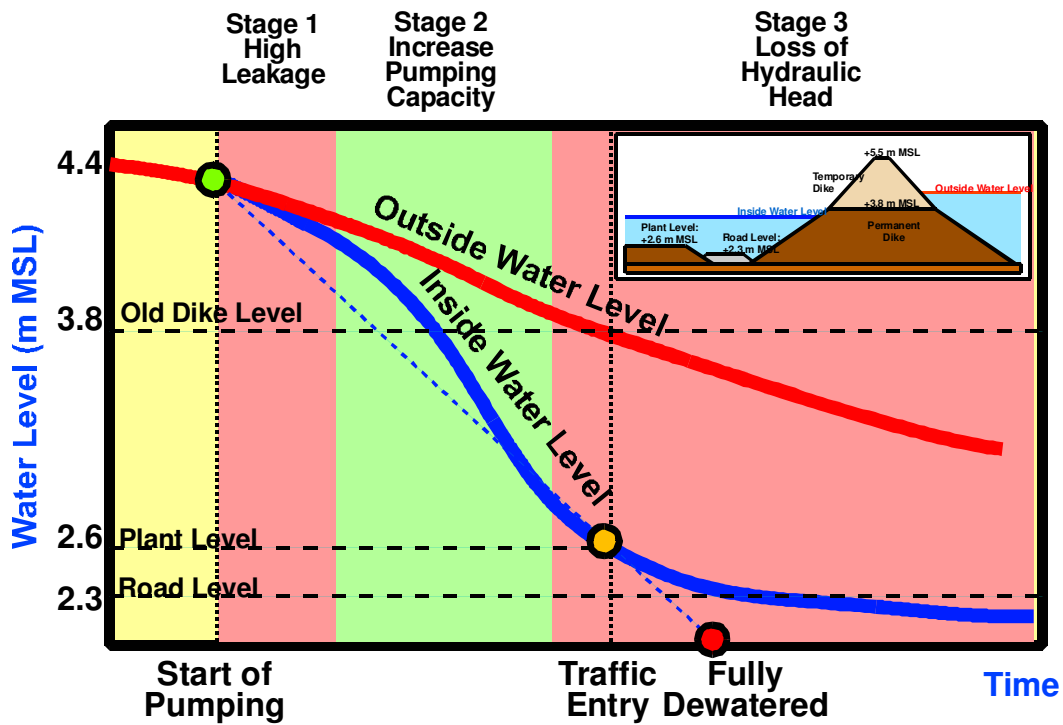


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