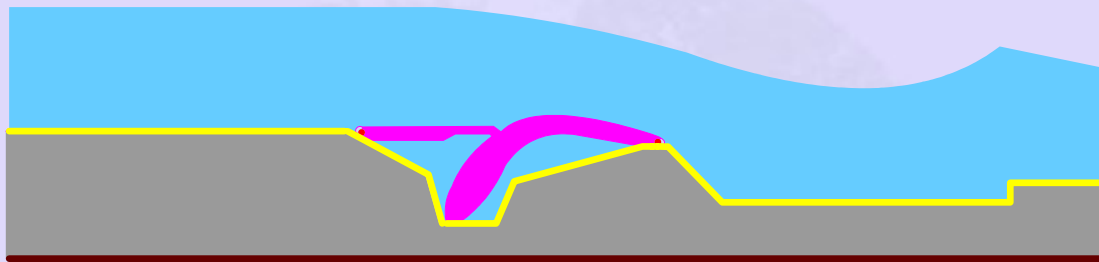
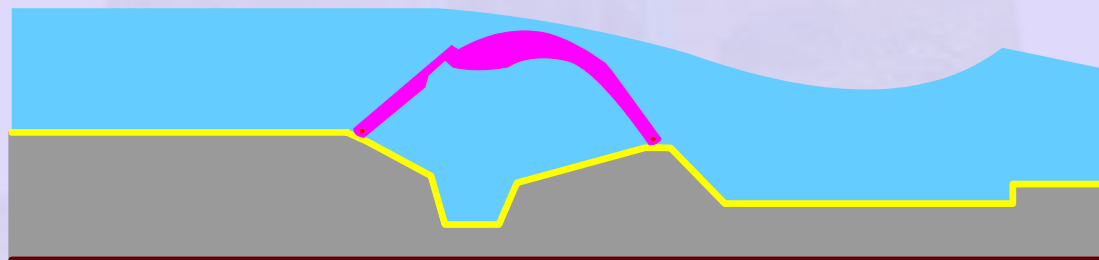


14.9 Bear-trap weir

Hydro-electric developments of rivers require weirs that hold the water back behind a damming structure. Such weirs, while serving utilitarian purposes, must be so designed as to preserve the natural amenities of the locality. The bear-trap weir, developed by Voith according to a swiss patent, meets the requirements, and even under drifting ice conditions the Voith bear trap weir provides dependable services. As the river discharge varies, the bear trap crest is automatically raised or lowered so as to maintain a constant head water level.



Lowered position of bear-trap weir for flood disposal



Raised position of bear-trap weir for flood disposal