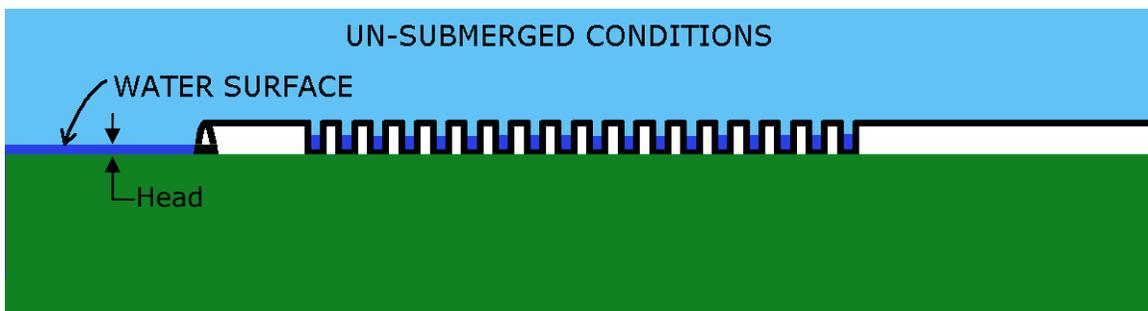


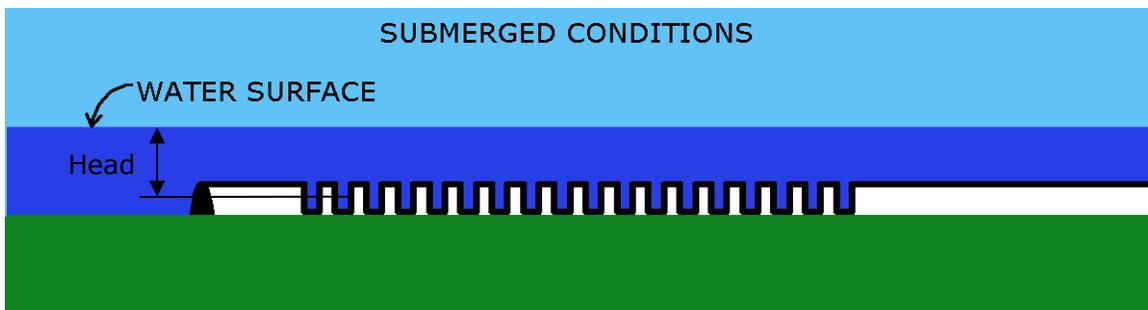
Explanation of Technical Terms applicable to IPGC performance.

The meaning of the word "Head", which is labeled on the vertical (or Y) axis of the performance curves, is defined below for 1) Un-Submerged Conditions (an un-pressurized flow state), and 2) Submerged Conditions (a pressurized flow state).

- 1) When the surface of the water flowing into the slits is below the tops of the slits, an un-submerged condition is occurring such that water can freely pass through the IPGC slits into the conveyance pipe. The acting "Head" in un-submerged conditions is the depth of water measured from the ground surface to the water surface. The maximum "Head" for un-submerged conditions is the point at which the height of water is equal to the height of the slits, measured from the surface of the ground relative to the top of the slits. The first data pair graphed on all performance curves represents the maximum "Head" (or height of water) and calculated Flow Rate. The flow rate through the slits, for un-submerged conditions, is calculated using a mathematical relationship known as the weir equation.



- 2) Once the surface of the water rises above the tops of the slits, submerged flow conditions will result. The height of water that submerges the slits, measured from the centroid of the slit to the water surface, is the acting "Head" at that point in time.



In submerged conditions, there is not a maximum value for the "Head". The flow rate through the slits in submerged conditions is calculated using a mathematical relationship known as the orifice equation. All data pairs graphed (following the first data pair) represent submerged conditions. In order to create the submerged portion of the performance curves, the Head value was assumed in 0.25-foot increments in order to calculate the flow rate that could theoretically pass through the slits.

In both un-submerged and submerged conditions, as the Head Value (or height of water) increases, so does the flow rate that will pass through the open slits.