ABSTRACT

A method and system for deriving purified water efficiently through the improvement of the flow in the flock channel area of a high rate water treatment plant comprising a coagulation-flocculation area, sedimentation process area and a filtration process area, is provided. In particular, fins are positioned across the outlet of the flock channel area within the sedimentation process area to keep the water flow as even as possible, and thereby allowing for the flock that has been formed to resist being broken up into several smaller pieces when flowing from the coagulation-flocculation area to the sedimentation process area. As such, the purified water output that flows out of the plant after the final stage of filtration is cleaner and of a better clarity standard even after only one round, which therefore allows for higher cost savings and efficiency overall.

[FIG. 1]