

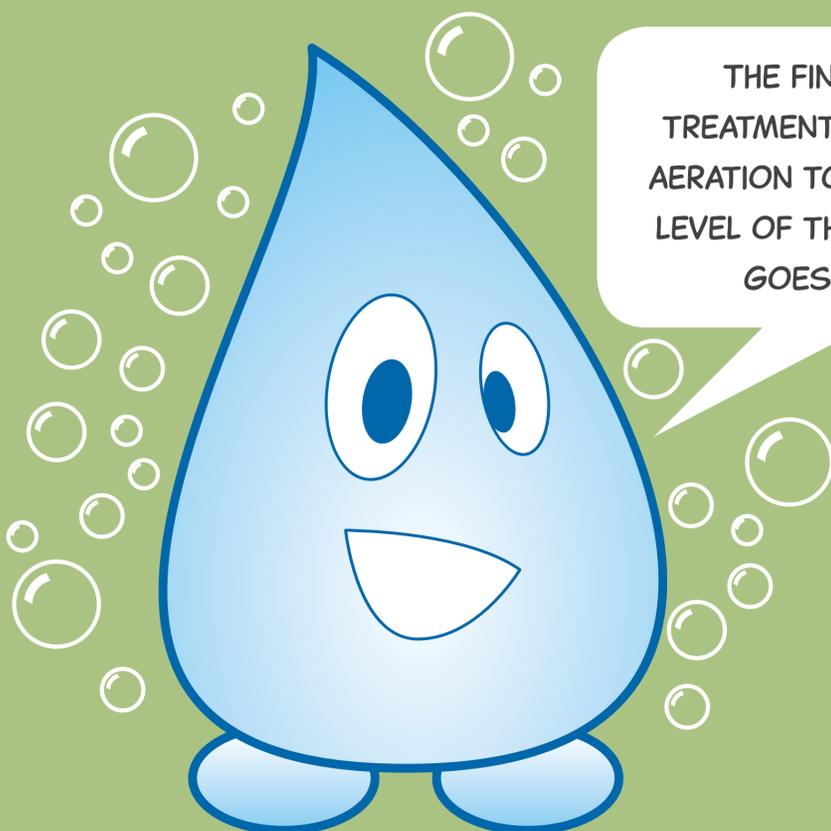
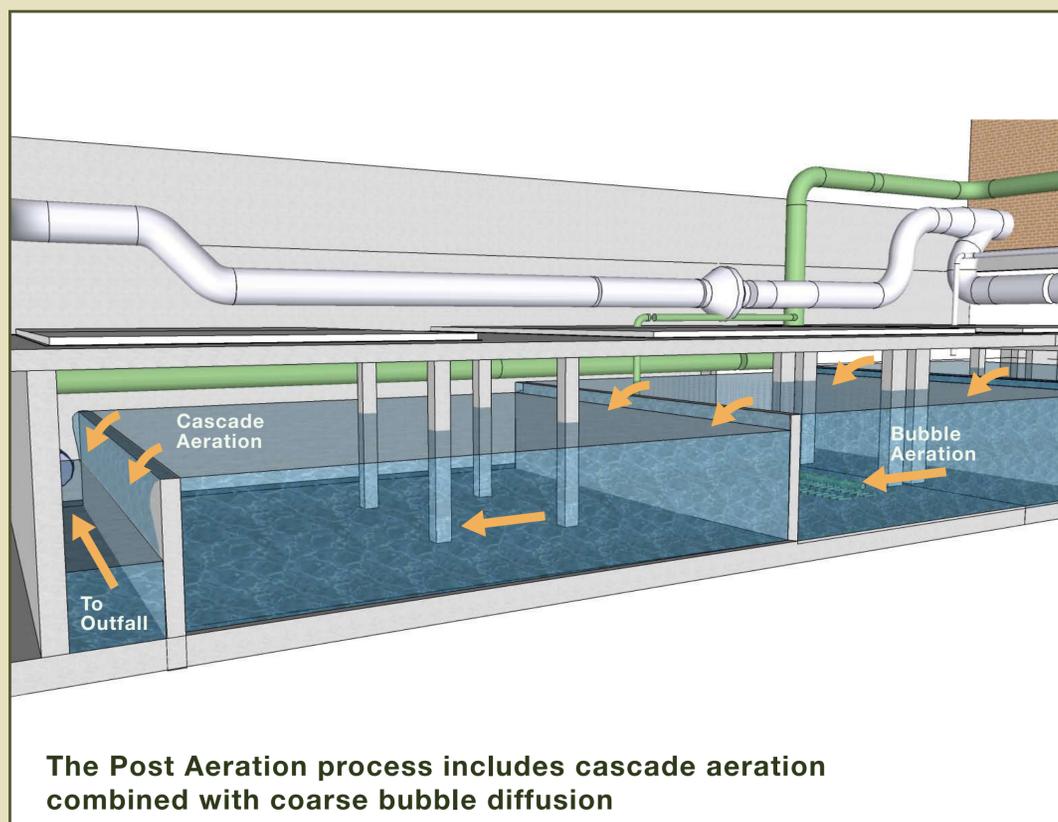
# Post Aeration



Johns Creek Environmental Campus

Following disinfection, the treated flow enters into the final step in the treatment process: post aeration. This process ensures that the dissolved oxygen level of the treated effluent meets the State of Georgia standard (greater than 6.0 mg/L) before it is discharged to the Chattahoochee River. The state standard is set to minimize the occurrence of low dissolved oxygen levels in the river that can have negative effects on wildlife.

Post aeration at the Johns Creek Environmental Campus is accomplished using cascade aeration. Water flows over a series of walls creating a waterfall effect. The cascading water creates mixing that raises the oxygen level in the water. A supplemental aeration grid bubbles air into the process during low flow conditions.



THE FINAL STEP IN THE TREATMENT PROCESS IS POST AERATION TO RAISE THE OXYGEN LEVEL OF THE WATER BEFORE IT GOES TO THE RIVER

## Post Aeration Process Design Parameters

Primary Aeration Process	Cascade Aeration
Number of Stages	3
Depth Range of Stages	10-13 ft
Secondary Aeration Process	Coarse Bubble Diffusers
Number of Diffusers	432
Volume of Basin	620,000 gal