

ABSTRACT

A water treatment system includes an aeration tank (1) for converting wastewater containing organic substances into
5 sludge-laden treated water by aerobic treatment; an ozone supply unit (2) for feeding ozone into the sludge-laden treated water drawn out from the aeration tank (1); and a bubble detector (5) for detecting the condition of bubbles produced by reaction between the fed ozone and the sludge. The ozone treatment is controlled by
10 utilizing as an indicator for sludge volume reduction effect the increase rate of bubbles detected by the bubble detector (5), so that the water treatment system is able to vary the amount of ozone feed depending on the conditions of water treatment.