

Brazoria County MUD No. 3  
TPDES Renewal – Plain Language Summary

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.*

Brazoria County Municipal Utility District No. 3 (CN600735948) operates the Silverlake wastewater treatment plant (RN101920486), an activated sludge process plant operated in the single stage nitrification mode. The facility is located at 0.1 mile east of the intersection of Magnolia Street and Cullen Parkway, in Brazoria County, Texas 77584.

This application is for a renewal to discharge at an annual average flow of 2,400,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, sand filters, cloth filters, chlorine contact chambers and a dechlorination chamber.