NOTE: This graph charts the pH level of the water leaving active chemical drain neutralization system in the Natural Science and Engineering Cleanroom laboratory on the UTD campus. The servo deadband is shown by dashed Blue UL and LL lines. We found that the shifting experimental chemistries caused the discharge pH to drift up and down in time. This required both base and acid neutralization, so early in 2012, we added a base-neutralizing acid system to the servo system controlling the discharge pH. This has stabilized the drift inside the servo dead-band (+/- one unit).

The pH measures the acidity of the water leaving this system and entering the Richardson City sanitary sewer. City pH Limits: UL = 10.5, LL = 5.5

REF: pH=7 is Neutral, pH<7 is acidic, pH>7 is basic (caustic) pH is monitored daily.

NOTE: The fluid discharge rate from the lab is on the order of 2 - 3 gallons per minute.