**The Oklahoma Nitrogen Removal Program**

The Oklahoma Department of Environmental Quality manages the NPDES surface water discharge program and state ground water discharge permit programs. Based on communication with the Oklahoma Department of Environmental Quality there are four municipal or publicly owned wastewater treatment facilities that are NPDES major dischargers, (over one million gallon per day average flow) that have total nitrogen limits. The municipal wastewater treatment plants have nitrogen limits that range from 13- 25 mg/l total nitrogen and these facilities do not require supplemental carbon to achieve the limit for total nitrogen at this time.

The Oklahoma department of Environmental Quality does not have a published nutrient strategy and covers nutrient in the overall state water quality plan that looks at impaired waterways. The nutrient limits for the four municipal wastewater treatment plants were developed as part of the impaired waterway total maximum daily loading (TMDL) report in the northeastern portion of the state.

There are eight wastewater treatment facilities that serve meat packing and fertilizer manufacturing plants in Oklahoma. The wastewater treatment facilities at the meat packing plants with an NPDES permit are covered under the EPA industry standard nitrogen limit of 103 mg/l total nitrogen average monthly limit and 147 mg/l maximum monthly limit. Facilities discharging to the ground water are covered under a state discharge permit. Two meat processing facilities are currently using glycerin as the supplemental carbon source to achieve permit limits. Seaboard Foods of Guymon, Oklahoma and Tyson Foods of Broken Bow, Oklahoma.