

Figure: 30 TAC §217.155(a)(3)

Equation F.2.

$$O_2R = \frac{1.2(BOD_5) + 4.3(NH_3 - N)}{BOD_5}$$

Where:

O₂R = Oxygen requirement, pound (lb) O₂/lb five-day biochemical oxygen demand (BOD₅)

BOD₅ = BOD₅ concentration, milligrams per liter (mg/L)

NH₃-N = Ammonia nitrogen, mg/L

Table F.3. - Minimum O₂R for Lower BOD₅ Loadings

Process	O₂R, pounds (lbs) O₂/lb BOD₅
Conventional Activated Sludge Systems that are not Intended to Nitrify	1.2
Conventional Activated Sludge Systems that are Intended to Nitrify and Extended Aeration Systems (including all Oxidation Ditch Treatment Systems)	2.2