

FACT SHEET

Septic Tank Calculations: Assume people use about 100 gallons of water /day = 0.0001 MGD (Million Gallons per Day)

Assume BOD concentration coming out of septic tanks is approximately 40 mg/l

Calculations: $40\text{mg/l} \times 8.44$ (conversion of mg to pounds per MGD) $\times 0.0001 = 0.03376$ pounds BOD/day/individual

Assume 3.5 people use one septic tank = $3.5 \times 0.03376 = 0.11816$ pounds BOD/day/septic tank

Paper mill is permitted to put out a BOD of 4,500 pounds per day or the equivalent of **38,135** septic tanks dumping directly into Perdido Bay. There are only 75,000 septic tanks in Escambia County

Sewage Treatment Plant: Assume people use about 100 gallons of water / day = 0.0001 MGD

Assume the BOD that comes out of a sewage treatment plant has a BOD of 15 mg/l (This is not tertiary treatment)

Calculations: $15\text{mg/l} \times 8.44 \times 0.0001 = 0.01255$ pounds/day/individual

Paper mill puts out a BOD of 4,500 pounds per day or the equivalent of **358,565** people on a sewer system which treats to a BOD of 15 mg/l