

Mathematics For Wastewater Operators

The understanding of the mathematics of wastewater treatment is an important tool for all wastewater system operators. This chapter covers most of the major categories of math calculations that are important to know for both certification and daily operations of wastewater systems. The examples range from basic problems like flows, velocities and detention times, that might appear on a Grade 1 or 2 exam, to more complex problems that could be found on a Grade 3 or 4 exam. The advanced levels will also have more problems related to wastewater treatment processes like F:M ratios and MCRT problems.

FLOW

The amount of water moving through the system can be measured in one of three different units. They are gpm (gallons per minute), mgd (millions of gallons per day), and cfs (cubic feet per second). The conversions are listed below.

$$\begin{array}{rcl} \text{mgd} \times 700 & = & \text{gpm} \\ \text{cfs} \times 449 & = & \text{gpm} \end{array} \qquad \begin{array}{rcl} \frac{\text{gpm}}{700} & = & \text{mgd} \\ \frac{\text{gpm}}{449} & = & \text{cfs} \end{array}$$

Examples:

1. A system averages 2.0 mgd. How many gallons per minute is the daily average?

$$\begin{array}{l} \text{A. Convert mgd to gpm} \\ 2.0 \text{ mgd} \times 700 = \mathbf{1400 \text{ gpm}} \end{array}$$

2. A pipeline has a carrying capacity of 3 cfs. What is the flow in gpm?

$$\begin{array}{l} \text{A. Convert cfs to gpm} \\ 3 \text{ cfs} \times 449 = \mathbf{1347 \text{ gpm}} \end{array}$$

3. A lift station pumps 350 gpm. How many mgd will it pump?

$$\begin{array}{l} \text{A. Convert gpm to mgd} \\ \frac{350 \text{ gpm}}{700} = \mathbf{0.5 \text{ mgd}} \end{array}$$

AREAS

In order to calculate volumes of circular tanks and velocities in pipes, the area of the circle must first be determined. There are two basic formulae used to calculate the area of a circle.

$$\begin{array}{rcl} \text{Area} & = & 3.1416 \times r^2 \\ r & = & \text{radius} \end{array} \qquad \begin{array}{rcl} \text{Area} & = & d^2 \times 0.785 \\ d & = & \text{diameter} \end{array}$$

Examples:

1. A sedimentation basin is 60 feet in diameter. What is the surface area of the tank?

$$\begin{array}{l} \text{A. Calculate the area} \\ 3.1416 \times 30' \times 30' = \mathbf{2830 \text{ square feet}} \\ 60' \times 60' \times 0.785 = \mathbf{2830 \text{ square feet}} \end{array}$$

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Christian G. Meyer



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