

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.

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

Examples:

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

A. Convert mgd to gpm
 $2.0 \text{ mgd} \times 700 = 1400 \text{ gpm}$

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

A. Convert cfs to gpm
 $3 \text{ cfs} \times 449 = 1347 \text{ gpm}$

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

A. Convert gpm to mgd
 $\frac{350 \text{ gpm}}{700} = 0.5 \text{ mgd}$

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 formulas used to calculate the area of a circle.

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

Examples:

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

A. Calculate the area
 $3.1416 \times 30^2 \times 30^2 = 2830 \text{ square feet}$
 $60^2 \times 0.785 = 2830 \text{ square feet}$

Wastewater Math Study Guide With Answers

Rachel Sandford

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Math for Wastewater Treatment Operators, Grades 3 And 4 John Giorgi,2011-01-12 *Resources in education ,1983-10*

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Books in Print Supplement ,1985 **Commission Regulation of Small Water Utilities ,1984** **The Publishers' Trade List Annual ,1981** **The Digester, Over the Spillway ,1981** *Lumpy Water Math* Jerry Grant,2007-04-27 Lumpy Water Math was written to help wastewater treatment plant operators and collection system operators with the basic problem solving ability needed to evaluate and control these systems This understanding will help the operator use math in day to day operation as well as help prepare for certification exams The math will be helpful to water supply and distribution system operators as the math used is basically the same The instruction begins with basic instruction in solving for areas and volumes detention time flow calculations hydraulic and organic loading and progresses to specialty areas such as activated sludge and laboratory calculations The book includes tips for making problem solving and use of calculators easier Typical state design standards are listed so that problem answers can be compared to accepted values The book includes many practice problems with answers given in the appendix to help operators become proficient in basic problem solving **Books in Print ,1994** **Small Wastewater System Operation and Maintenance** Kenneth D. Kerri,1997 This manual is designed to train operators in the practical hands on aspects of safely operating and maintaining

small wastewater collection treatment and disposal systems It focuses on the knowledge and skills needed to operate and maintain several types of package wastewater treatment processes It also describes various effluent disposal options how to perform basic lab procedures and how to administer a small wastewater system *Virginia State Publications in Print* ,1981

Prentice Hall Science Explorer: Teacher's ed ,2005 **Whitaker's Book List** ,1987 Water Rights and Quality,
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