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.

mgd x 700 = gpm	gpm 700	= mgd
cfs x 449 = gpm	gpm 449	= cfs

Examples:

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

2. A pipeline has a carrying capacity of 3 cfs. What is the flow in 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 formulae used to calculate the area of a circle.

Area = $3.1416 \times r^2$	Area = $d^2 \times 0.785$	
r = radius	d = diameter	

Examples:

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

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Rachel Sandford

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numbers significant digits raising numbers to powers averages proportions conversion factors flow and detention time and the areas and volumes of different shapes It also explains how to keep track of units of measurement such as inches feet and gallons during the calculations After building a strong foundation based on theoretical math concepts the text moves on to applied math basic math concepts applied in solving practical problems for both water and wastewater operations The material is presented using clear explanations in manageable portions to make learning quick and easy and illustrative real world problems are provided that correlate to modern practice and design Mathematics Manual for Water and Wastewater Treatment Plant Operators Frank R. Spellman, 2023-07-31 To properly operate a waterworks or wastewater treatment plant and to pass the examination for a waterworks wastewater operator s license it is necessary to know how to perform certain calculations All operators at all levels of licensure need a basic understanding of arithmetic and problem solving techniques to solve the problems they typically encounter in the workplace Hailed on its first publication as a masterly account written in an engaging highly readable user friendly style the fully updated Mathematics Manual for Water and Wastewater Treatment Plant Operators Basic Mathematics for Water and Wastewater Operators introduces and reviews fundamental concepts critical to qualified operators It builds a strong foundation based on theoretical math concepts which it then applies to solving practical problems for both water and wastewater operations Features Provides a strong foundation based on theoretical math concepts which it then applies to solving practical problems for both water and wastewater operations Updated throughout and with several new practical problems added Provides illustrative examples for commonly used waterworks and wastewater treatment operations covering unit process operations found in today s treatment facilities

Resources in Education,1984 **Wastewater Operator Examinations**,1992 <u>Wastewater Treatment Plant</u>

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