

## **Wastewater Exam Preparation Course Grade I/II– TBD at Clean Water Services in 2021**

Michael T. Fritschi – Instructor

**GOAL of COURSE:** Prepare Operators to pass their certification exams.

**Distance learning:** Distance learning option will require the recorded course to be played back in real time and online submission of quizzes and practice exam.

<b>Tentative Time</b>	<b>Subject Day 1</b>
08:00	Introduction to the Grade I/II Exam
08:30	Basic Wastewater Math Necessities
09:45	Break
10:00	Sanitary Sewer Volumes, Flowrates, and Velocities
11:30	Group Exercise
12:30	Lunch Break
13:00	Davidson Pie Method for Determining Mass, Concentration, Volume (and flowrate)
14:00	Break
14:15	Influent Loading, Preliminary Treatment, and Primary Treatment
15:30	Group Quiz #1 – Primary Sludge Removal
16:00	System Maintenance
17:00	End of Day

<b>Tentative Time</b>	<b>Subject Day 2</b>
08:00	Pumps and Lift Stations
09:30	Group Quiz #2 - Pumps
10:00	Break
10:15	Secondary Treatment Systems
11:30	Sewer Construction
12:30	Lunch Break
13:00	Wastewater Disinfection and Laboratory Testing
14:00	Operations Tools and Equipment
14:30	Break
14:45	Practice Exam
17:00	End of Course