



Across

- 3. cfs/1.55
- 5. The impeller housing of a centrifugal pump
- 7. Closing the discharge valve on a positive displacement pump would cause motor the amperage to _____
- 8. A ball forced through a sewer line.
- 13. Shoring must protude _____ inches above the top of the excavation.
- 15. The minimum scouring velocity normally used for sanitary collection lines is ___ f/s.
- 17. Hydrogen sulfide gas smells like _____.
- 18. A sewer _____ to a water line, must have a

minimum of 10 feet of separation.

- 20. A Parshall flume is a type of _____
- 21. Spacer ring in a pump packing gland to improve seal water distribution is a _____ ring.
- 22. A device used to test the percent deflection in a sewer pipe between manholes is known as what?
- 23. Leakage of seal water around the packing on a centrifugal pump is required because it acts as a(n) _____?
- 24. 26,928 gallons per hour of flow is equal to 1 _____.

Down

- 1. Shoring is required for any trench over _____ feet deep.
- 2. The flushing water pressure in a water-lubricated wastewater pump should be _____ PSI more than the pump discharge pressure.
- 3. 5,280 feet
- 4. To sample for pH, you should collect a _____ sample.
- 6. Who must review plants for final approval before a new sewer can be constructed?

- 7. Liners are installed in sewers to correct problems caused by _____
- 9. Closing the discharge valve on a centrifugal pump would cause motor the amperage to _____
- 10. amps x volts
- 11. rise/run
- 12. A PH of 7 is _____
- 14. A(n) _____ is required for any CSO outfall pipe.
- 16. What must be done before any work is to be done on a piece of equipment?
- 19. A PH of 6.0 is