

**ERRATA for**  
***PE Civil Water Resources and Environmental Practice Exam***  
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**Revisions are shown in red.**

**Question 12, p. 9:**

Select the **two** that apply.

**Question 66, p. 39:**

The primary clarifier of a trickling filter plant receives 1,000 lb of solids daily. The clarifier has a solids capture rate of 90% and produces an underflow sludge concentration of 9% (**SG = 1.05**). The volume of primary sludge (ft<sup>3</sup>/day) is most nearly:

- ☐ A. 2
- ☐ B. 80
- ☐ C. **150**
- ☐ D. 210

**Solution 12, p. 52:**

The following options are correct.

Option B: Polyvinyl chloride pipe (PVC) is commonly used for small sewers.

Option D: Vitrified clay pipe (VCP) is old technology but could be used.

**THE CORRECT ANSWERS ARE: B, D**

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**Solution 66, p. 75:**

Refer to the Sludge Production section in the *PE Civil Reference Handbook*.

Using equation  $V_S = \frac{M}{P_S S_S g_w}$

Use SG of sludge = 1.05

$$M = 1,000 \text{ lb/day} (0.9) = 900 \text{ lb/day}$$

$$P_S = 0.09$$

$$S_S = 1.05$$

$$g_w = 62.4 \text{ lb/ft}^3$$

$$V_S = \frac{900 \text{ lb/day}}{(0.09)(1.05)(62.4 \text{ lb/ft}^3)} = 152.6 \text{ lb/ft}^3$$

$$V_S = 153 \text{ lb/ft}^3$$

$$\text{Round to tens digits} = 150 \text{ lb/ft}^3$$