

## VIII. Site Development (5)

### A. Excavation and embankment (e.g., cut and fill) CERM 80-1

Volume  $V$  ( $\text{yd}^3$ , CY)      Density ( $\text{lb}/\text{yd}^3$ ,  $\text{lb}/\text{CY}$ )

Bank (natural state)  $\rightarrow$  swell  $\rightarrow$  Loose (during transport)  $\rightarrow$  shrinkage  $\rightarrow$  Compacted (after compaction)  
(Borrow pit)

$$\text{Swell (\%)} = \frac{\text{Bank density}}{\text{Loose density}} - 1$$

$$\text{Load factor} = \frac{\text{Loose density}}{\text{Bank density}}$$

$$V_{\text{Loose}} = (1 + \text{swell \%}) V_{\text{Bank}}$$

$$\text{Load factor} = (1 + \text{swell \%})^{-1}$$

$$V_{\text{Bank}} = V_{\text{Loose}} \times \text{load factor}$$

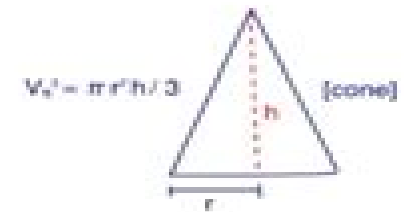
$$\text{Shrink (\%)} = 1 - \frac{\text{Bank density}}{\text{Compacted density}}$$

$$\text{Shrink factor} = 1 - \text{shrink \%}$$

$$V_{\text{Compacted}} = (1 - \text{shrink \%}) V_{\text{Bank}}$$

$$V_{\text{Compacted}} = V_{\text{Bank}} \times \text{shrink factor}$$

$$V_{\text{Bank}} = \frac{W_{\text{dry}}}{\text{Bank density}}$$



Average End Area Method      Pyramid Method (one end area = 0)      Prismoidal Method (irregular surface)

$$V_{\text{yd}} = \frac{L n (A_1 n^2 + A_2 n^2)}{2 (27 \frac{n^3}{\text{yd}^3})}$$

$$V = \frac{L A_{\text{base}}}{3}$$

$$V = \frac{L}{6} (A_1 + 4A_m + A_2)$$

$$V = \frac{A}{4} (\Sigma h_1 + 2 \Sigma h_2 + 3 \Sigma h_3 + 4 \Sigma h_4) \quad h_1 \text{ corner} \quad h_2 \text{ side (none corner)} \quad h_3 \text{ triangle} \quad h_4 \text{ center}$$

### B. Construction site layout and control CERM 81-3

Stake: locate & identify a point

$$\text{BM} + \text{BS} - \text{FS} = \text{TP}$$

$$V = H \tan \alpha$$



### C. Temporary and permanent soil erosion and sediment control (e.g., construction erosion control and permits, sediment transport, channel/outlet protection) CERM 80-10

Erosion: removal of soil from its original location by water, wind and/or gravity

| Types of Erosion | Erosion Control    | Sediment Transport  | Channel Protection  | Outlet Protection |
|------------------|--------------------|---------------------|---------------------|-------------------|
| Raindrop         | mulch              | silt fence          | velocity: Manning's | rock apron        |
| Sheet            | vegetation         | compost filter sock | grass               | stilling basin    |
| Rill             | slope roughening   | hay bales           | turf mat            |                   |
| Gully            | channel protection | sediment basin      | riprap              | Permit            |
| Channel          |                    | inlet protection    | concrete            | NPDES             |

# Civil Transportation Pe Exam Equation Cheat Sheet

**Shahin Mansour**



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