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CHAPTER 2 SOLUTIONS

2-1 Expected life of landfill

Given: 16.2 ha at depth of 10 m, 765 m³/d dumped 5 days per week, compacted to twice delivered density

Solution:

a. Mass balance diagram



b. Total volume of landfill

$$(16.2 \text{ ha})(10^4 \text{ m}^2/\text{ha})(10 \text{ m}) = 1.620 \times 10^7 \text{ m}^3$$

c. Volume of solid waste to 1/2 delivered volume after it is compacted to 2 times its delivered density

$$(765 \text{ m}^3/0.5) = 382.5 \text{ m}^3$$

d. Annual volume of solid waste placed in landfill

$$(382.5 \text{ m}^3)(5 \text{ d/week})(52 \text{ wk/y}) = 9.945 \times 10^7 \text{ m}^3/\text{y}$$

e. Estimated expected life

$$\frac{1.620 \times 10^7 \text{ m}^3}{9.945 \times 10^7 \text{ m}^3/\text{y}} = 16.29 \text{ or } 16 \text{ years}$$

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