

43. The volume removed in one year is

$$V = (75 \times 10^4 \text{ m}^2) (26 \text{ m}) \approx 2 \times 10^7 \text{ m}^3$$

which we convert to cubic kilometers:

$$V = (2 \times 10^7 \text{ m}^3) \left( \frac{1 \text{ km}}{1000 \text{ m}} \right)^3 = 0.020 \text{ km}^3 .$$