Use the quotient property, $\log_b \frac{M}{N} = \log_b M - \log_b N$, and then simplify, using the fact that 1, $000 = 10^3$.

$$\log_{10}\left(\frac{x}{1,000}\right) = \log_{10}x - \log_{10}1,000 = \log_{10}x - 3$$