

Lampiran 5 . Pehitungan konsentrasi Timbal (Pb) di udara ambien

A. Tahapan perhitungan konsentrasi Timbal (Pb) di udara ambien

Hari, tanggal : Jumat, 29 maret 2019

Lokasi : Perempatan Kentungan

Waktu : Weekdays

Diketahui :

$$Q_s = 1,171 \text{ m}^3/\text{menit}$$

$$V = 562,304 \text{ m}^3$$

$$\begin{aligned} S &= \text{panjang} \times \text{lebar filter utuh} \\ &= 190 \text{ mm} \times 250 \text{ mm} = 47500 \text{ mm}^2 \end{aligned}$$

$$\begin{aligned} S_t &= \text{panjang} \times \text{lebar filter yang dianalisis} \\ &= 190 \text{ mm} \times 245 \text{ mm} = 46550 \text{ mm}^2 \end{aligned}$$

$$C_t = 0,092 \text{ } \mu\text{g/mL}$$

$$C_b = 0$$

$$C_{pb} = \frac{(c_t - c_b) \times V \times \frac{S}{S_t}}{V}$$

$$\begin{aligned} C_{pb} &= \frac{0,092 - 0, \frac{\mu}{\text{mL}} \times 25 \text{ mL} \times \frac{47500}{465500}}{562,304 \text{ m}^3} \\ &= 0,00417 \text{ } \mu\text{g/m}^3 \end{aligned}$$

