

## 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 :

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

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

$$S = \text{panjang x lebar filter utuh} \\ = 190 \text{ mm x } 250 \text{ mm} = 47500 \text{ mm}^2$$

$$S_t = \text{panjang x lebar filter yang dianalisis} \\ = 192 \text{ mm x } 240 \text{ mm} = 463080 \text{ mm}^2$$

$$C_t = 0,319 \text{ } \mu\text{g/mL}$$

$$C_b = 0$$

$$C_{pb} = \frac{(ct - cb) \times Vt \times \frac{S}{S_t}}{V}$$

$$C_{pb} = \frac{0,319 - 0, \mu\frac{g}{mL} \times 25mL \times \frac{47500}{463080}}{562,304 \text{ m}^3} \\ = 0,0146 \text{ } \mu\text{g/m}^3$$

B. Hasil Perhitungan di masing – masing titik

Kentungan												
Qs	V	Vt	S	St	Cter	Ctpb	Ctzn	Cbcr	Cbzn	Ccr	Cpb	Czn
Jumat												
1,171	562,304	25	47500	46080	0,278	0,31949	0,37844	0,09	0,1954	0,00862	0,01464	0,08389
Sabtu												
1,17827	565,568	25	47500	46550	0,157	0,30482	0,15002	0,09	0,1954	0,00302	0,01375	-0,0205
Minggu												
1,17607	564,513	25	47500	43700	0,125	0,24493	0,64916	0,09	0,1954	0,00168	0,01179	0,21843
Senin												
1,17576	564,364	25	47500	45600	0,57	0,35615	0,25587	0,09	0,1954	0,02215	0,01643	0,0279
Condong Catur												
Qs	V	Vt	S	St	Cter	Ctpb	Ctzn	Cbcr	Cbzn	Ccr	Cpb	Czn
Jumat												
1,17903	568,11	25	47500	45600	0,082	0,35647	1,2923	0,09	0,1954	-0,0004	0,01634	0,05028
Sabtu												
1,17965	566,832	25	47500	46550	0,073	0,43225	0,6367	0,09	0,1954	-0,0008	0,01945	0,01986
Minggu												
1,18329	565,485	25	47500	47500	0,026	0,36533	0,201	0,09	0,1954	-0,0028	0,01615	0,00025
Senin												
1,17464	563,828	25	47500	45600	0,295	0,35775	0,2466	0,09	0,1954	0,00947	0,01652	0,00236