BaP Screen →

11/30/15 – 12/21/15 → 1.18 mg/L (Assume 2.5 L)

– 21 days

A = 0.0805 m²

$$\frac{(1.18\ mg/L)(2.5\ L)}{(21\ days)(0.0805\ m^2)} = 1.745\ mg/m^2/day$$

$$\frac{1.745\ mg}{m^2 \cdot day} \times \frac{60\ sec}{0.1\ km} \times \frac{110\ km}{m} \times \frac{day}{86{,}400\ sec}$$

$$= 0.0202\ mg/m^3$$

Range = 0.0101 mg/m³ (V1 = 0.2 m/s) – 0.0202 mg/m³ (V1 = 0.1 m/s)

PSCAA ASIL : 0.00048 mg/m³

Ratio to ASIL : $\frac{0.0101}{0.00048} = 21$ $\frac{0.0202}{0.00048} = 42$