TIER II ACUTE AND CHRONIC AQUATIC LIFE VALUES FOR METHYLAMINE

Standard:

The procedures described in the Tier II methodology indicate that, except possibly where a locally important species is very sensitive, aquatic organisms should not be affected unacceptably if the four (4) day average concentration of methylamine does not exceed 860 μ g/L more than once every three (3) years on the average and if the one (1) hour average concentration does not exceed 7,700 μ g/L more than once every three (3) years on the average.

Calculations:

Acute Aquatic Life:

$$SAV = lowest GMAV/SAF$$

Lowest GMAV =
$$338,269 \mu g/L$$

SAF = 21.9

$$SAV = 338,269/21.9 = 15,446 \mu g/L$$

$$SMC = SAV/2 = 15,446/2 = 7,700 \mu g/L$$

Chronic Aquatic Life:

$$SCV = SAV/SACR$$

$$SACR = 18$$

$$SCV = 15,446/18 = 860 \mu g/L$$

Notes:

NONE

Genus Mean Acute Value <u>(μg/L)</u>	<u>Species</u>	Species Mean Acute Value (µg/L)	eference Number
338,269	Cladoceran <u>Daphnia magna</u>	163,000	1
	Cladoceran <u>Daphnia magna</u>	702,000	1

References:

1. Kuhn,R., M.Pattard, K.Pernak, and A.Winter 1989. Results of the Harmful Effects of Selected Water Pollutants (Anilines, Phenols, Aliphatic Compounds) to Daphnia magna Water Res. 23(4):495-499

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