

*** DRAFT - NOT YET FILED ***

3745-1-44

Whole effluent toxicity provisions.

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, federal rules and federal statutory provisions referenced in this rule, see rule 3745-1-03 of the Administrative Code.]

[Comment: See rule 3745-2-09 of the Administrative Code for whole effluent toxicity water quality based effluent limit calculation procedures.]

(A) Protection of aquatic life - whole effluent approach.

- (1) An acute toxicity level of 0.3 acute units (TU_a) shall apply outside the mixing zone to limited resource water, warmwater, exceptional warmwater, coldwater, seasonal salmonid, and modified warmwater habitat use designations in accordance with this chapter and the following:

$$\text{TU}_a \equiv 100/\text{LC}_{50}$$

Where:

LC₅₀ = the median lethal concentration as defined in rule 3745-2-02 of the Administrative Code.

- (2) A chronic toxicity level of 1.0 chronic toxic units (TU_c) shall apply outside the mixing zone to warmwater, exceptional warmwater, coldwater, seasonal salmonid, and modified warmwater habitat use designations, where:

$$\text{TU}_c \equiv 100/\text{IC}_{25} \text{ for all chronic endpoints, except that:}$$

TU_c = 100/(geometric mean of NOEC and LOEC) for survival or mortality endpoints using daphnid species when this is more restrictive than the TU_c value resulting from the definition based on IC₂₅.

(B) The chronic toxicity level does not apply to limited resource water use designations.

(C) For undesignated waters, an acute toxicity level of 0.3 TU_a and a chronic toxicity level of 1.0 TU_c shall apply outside of the mixing zone.

(D) Acute toxicity within the mixing zone shall be regulated by paragraph (B) of 3745-33-07 of the Administrative Code.

Replaces: Part of 3745-2-09

Effective:

Five Year Review (FYR) Dates:

Certification

Date

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