

Alabama Department of Environmental Management

Administrative Code for Division 6, Volume I Water Division-Water Quality Program Chapter 335-6-10 (Water Quality Criteria)

Summary of Reasons Supporting the Adoption of Proposed Revisions

On June 13, 2025, the Alabama Environmental Management Commission granted a petition that directed the Department to initiate rulemaking to revise toxicity values in ADEM Administrative Code Rule 335-6-10-A, Appendix A, for the following pollutants: Arsenic, Cyanide, 1,3-Dichlorobenzene, 1,3-Dichloropropylene, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrotoluene, Ethylbenzene, Hexachloroethane, Pentachlorophenol, Toluene, 1,2,4-Trichlorobenzene, and Trichloroethylene. The proposed revisions are summarized below:

335-6-10-A Appendix A

- The Department proposes to revise the cancer potency factor for Arsenic from the current value of 1.75 (kg-day)/mg to 32 (kg-day)/mg.
- The Department proposes to revise the reference dose for Cyanide from the current value of 0.02 mg/(kg-day) to 0.0006 mg/(kg-day).
- The Department proposes to revise the reference dose for 1,3-Dichlorobenzene from the current value of 0.0134 mg/(kg-day) to 0.002 mg/(kg-day).
- The Department proposes to revise the cancer potency factor for 1,3-Dichloropropylene from the current value of 0.1 (kg-day)/mg to 0.122 (kg-day)/mg.
- The Department proposes to revise the reference dose for 4,6-Dinitro-2-methylphenol from the current value of 0.00039 mg/(kg-day) to 0.0003 mg/(kg-day).
- The Department proposes to revise the cancer potency factor for 2,4-Dinitrotoluene from the current value of 0.31 (kg-day)/mg to 0.667 (kg-day)/mg.
- The Department proposes to revise the reference dose for Ethylbenzene from the current value of 0.1 mg/(kg-day) to 0.022 mg/(kg-day).
- The Department proposes to revise the cancer potency factor for Hexachloroethane from the current value of 0.014 (kg-day)/mg to 0.04 (kg-day)/mg.
- The Department proposes to revise the cancer potency factor for Pentachlorophenol from the current value of 0.12 (kg-day)/mg to 0.4 (kg-day)/mg.

- The Department proposes to revise the reference dose for Toluene from the current value of 0.2 mg/(kg-day) to 0.0097 mg/(kg-day).
- The Department proposes to remove the reference dose for 1,2,4-Trichlorobenzene but add a cancer potency factor for 1,2,4-Trichlorobenzene of 0.029 (kg-day)/mg.
- The Department proposes to revise the cancer potency factor for Trichloroethylene from the current value of 0.0126 (kg-day)/mg to 0.05 (kg-day)/mg.