

The Commission adopts the latest addition of the "Recommended Standards for Sewage Works", published by the Great Lakes-Upper Mississippi Board of State Sanitary Engineers, with the following modifications, as basic design criteria for wastewater treatment plants in the State of Arkansas. Exceptions to these criteria will only be approved by the Department when fully justified. This Minute Order supersedes Minute Order Order No. 73-36 passed on September 28, 1973.

Chapter 20 - Design of Sewers

Combined Sewer Interceptors

Combined sewers will not be approved.

Chapter 80 - Biological Treatment

Waste Sludge Facilities

Activated sludge treatment plants of 10,000 gallons per day or more capacity shall be provided with an aerated waste sludge holding tank or other sludge disposal facility.

Chapter 90 - Disinfection

Disinfection shall be required when necessary to meet the State Water Quality Standards for the receiving stream or to protect public water supplies and recreational use areas.

Chapter 100 - Wastewater Treatment Ponds (Lagoons)

Basis of Design

The maximum design loading rate for the primary cell(s) will be thirty (30) pounds of BOD<sub>5</sub> per acre per day, with a minimum surface area of one (1) acre.

Multiple Units

- a. Two cell systems must be followed by sand or rock filtration, or other solids removal devices.

The second cell of a two-cell system will be designed on the same biological loading rate as a primary cell, with at least thirty (30) days detention time.

- b. For three (or more) cell systems, the cells following the primary will have a combined detention time of at least thirty (30) days. The final cell shall be designed to facilitate solids reduction and to minimize algae growth.

COMMISSIONERS

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Control Structures and Interconnecting Piping

Control structures shall be provided for interconnecting cell piping and for final cell effluent flow. The structures shall have the ability to vary the water depth in each cell a range of, at least, twenty-four (24) inches. Non-corrosive stop-logs, slide gates, or slide tubes are the devices that shall be utilized to regulate the wastes level. A baffle of the same type material as the control devices shall extend a minimum of six (6) inches below the low-water surface.

Appendix - Ground Disposal of Wastewaters

Land treatment of wastewater shall be in accordance with the Land Application Guidelines as promulgated by this department and the Arkansas Department of Health.

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*Jim Shell*

SUBMITTED BY: JIM SHELL

DATE PASSED 4/4/80