

## Part 529 – Pollution Abatement and Air Quality Improvement

### AL529.0 General

A. Management of air emissions as follows:

1. Settling Ponds for Solids Separation. - Settling ponds used to separate solids from swine waste may produce more odor and fly problems than other liquid storage facilities or than other types of animal wastes when the hydraulic detention time is less than 45 days. The settling pond/lagoon system also complicates management of the waste since the sludge collected in the settling pond and the excess liquid in the lagoon must both be land applied; thus, two types of equipment may be needed.

The settling pond/lagoon combination shall not be used for swine wastes unless approved in advance by the state conservation engineer. When landowner preference or other factors require a swine waste management system with a solids settling pond, the landowner will be presented a letter indicating the following:

- Excessive odors and fly problems may be a problem with this type system which could result in litigation by neighbors or others.
- Management of the system will be more complicated than conventional waste storage ponds and lagoon systems because solids and excess liquids will have to be disposed of separately.
- Struvite buildup in pumps and pipes may be a problem.

The letter to the owner must be included in the conservation plan. In addition, the O&M portion of the conservation plan must clearly address the need for frequent removal of solids from the settling pond and the need to apply excess liquids to the land.

The minimum detention time for this type system will be 45 days.

2. Waste Storage Ponds for Swine Wastes. - Due to the odor levels associated with high volatile solid loading rates typically found in swine waste storage ponds, it is not recommended that waste storage ponds be designed for swine operations and are generally not approved by ADEM. Under certain conditions of small size and remote location, a waste storage pond for swine waste may be considered with approval of the state conservation engineer.