

## Louisiana Standards for Water Works Construction, Operation and Maintenance Committee

### ***Subcommittee Report***

Part: 9

Report Date: April 14, 2014

Chair: Rusty Reeves

Members: Jim Hagan, Rick Nowlin

All Present: Caryn Benjamin, Pat Valega, & Byron Braud

#### Overview of Meeting Discussion:

- Main discussion points –
- a. Whether the standards applied to Design Standards or Sanitary Surveys
- b. Use of Pilot Studies

#### TOP TEN SUBCOMMITTEE RECOMMENDATIONS:

- Page 125 & 126 -- 9.3 PRECIPITATIVE SOFTENING SLUDGE sub section f & g
- f. Mechanical dewatering of sludge may be considered. ~~Pilot studies on a particular plant waste are required.~~ Mechanical dewatering shall be preceded by sludge concentration and chemical pre- treatment.
- g. Calcination of sludge may be considered. ~~Pilot studies on a particular plant waste are required.~~

- Page 126 --9.4 ALUM SLUDGE

Lagooning may be used as a method of handling alum sludge. Lagoon size can be calculated using total chemicals used plus a factor for turbidity. Mechanical concentration may be considered. ~~A pilot plant study is required before the design of a mechanical dewatering installation.~~ Freezing changes the nature of alum sludge so that it can be used for fill. Acid treatment of sludge for alum recovery may be a possible alternative. Alum sludge can be discharged to a sanitary sewer. However, initiation of this practice will depend on obtaining approval from the owner of the sewerage system as well as from the regulatory agency before final designs are made.

- Page 126 --9.4.1 Lagoons

Lagoons ~~should~~ shall be designed to produce an effluent satisfactory to the regulatory agency and should provide for

- Page 127 9.4.2 Mechanical dewatering
  - b. Mechanical dewatering shall ~~should~~ be preceded by sludge concentration and chemical pre- treatment. – ~~undetermined~~ -- full Committee Discussion --DS

SUBCOMMITTEE RECOMMENDATIONS for committee deliberation:

- ALL RECOMMENDATIONS

Listed below is the only comment received from the Webinar:

If the list of disposal options listed is intended to be all inclusive, then I believe that a statement is needed that DHH, in coordination with other regulatory agencies shall review and approve any methods of handling waste that are not specifically listed in this document.