



Proper Closure of Earthen Manure Storage Structures

October 21, 2011

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

When confined animal facilities cease operation, earthen manure storage and treatment structures must be closed properly to ensure that they pose little risk to the environment. Surface water and groundwater must be protected from manure and wastewater during and after closure of lagoons, settling basins and waste storage ponds. This webcast will present examples and challenges of properly closing earthen manure storage and treatment structures, and discuss regulatory requirements for pre and post closure procedures. This live presentation will be of interest to technical service providers, extension educators, regulatory agency personnel, crop consultants, producers, and manure haulers and applicators. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) has been submitted.*



Karl VanDevender is a professional engineer in Arkansas and a professor in the University of Arkansas' Department of Biological and Agricultural Engineering. Since 1992, he has held an extension appointment with a focus on livestock and poultry manure management to address environmental and production concerns. Dr. VanDevender holds a B.S. and M.S. in Agricultural Engineering from Mississippi State University and a Ph.D. from the University of Arkansas. Phone: (501) 671-2244; Email: kvan@uaex.edu

Tommy Bass is a Livestock Environment Associate Specialist at Montana State University. A native of Georgia, he holds degrees from the University of Georgia and Montana State. His current responsibilities include providing education and technical assistance to producers and other stakeholders regarding manure and nutrient management, AFO/CAFO compliance, and matters of air and water quality related animal agriculture. Phone: (406) 994-5733; tmbass@montana.edu



Catherine Nash is the NRCS agricultural waste specialist and air quality specialist engineer at the Texas State Office. She has been involved in the closure of lagoons associated with a caged egg-laying facility in South Central Texas in a partnership effort with the Texas State Soil and Water Conservation Board. She assisted with surveying, developed 3-D models, developed site-specific construction specifications, drafted a closure report and assisted with the contracting for the completion of this project. She holds a B.S. in Agricultural Engineering from Texas A&M. Phone: (254) 742-9915; Email: Catherine.Nash@tx.usda.gov

Jeremy Seiger is an Environmental Scientist with the U.S. EPA, Region 6. His primary responsibility is the enforcement of the Clean Water Act to ensure compliance with rules and permits. Jeremy has conducted many investigations into the impact of CAFO operations on surface and groundwater quality, several of these have evolved into significant enforcement cases which resulted in lagoon closures. He earned a M.S. in Plant and Soil Sciences from Oklahoma State University. Phone: (214) 665-8044; Email: Seiger.Jeremy@epamail.epa.gov



Terry Medley is the Chief of the Livestock Waste Management Section at the Kansas Department of Health and Environment. Previously, he worked with the NRCS in Hutchinson and Manhattan, Kansas as well as for Tetra Tech EMI in Lenexa, KS. While with the NRCS, he was responsible for the design and construction oversight of soil and water conservation practices including livestock waste management systems. At Tetra Tech EMI, he was a design engineer and contract manager for water resource projects. He holds a B.S. degree in Agricultural Engineering from Kansas State University. Phone: (785) 296-0075; Email: tmedley@kdheks.gov

Saqib Mukhtar is a Professor and Interim Associate Head of Extension at Biological and Agricultural Engineering Department, Texas A&M University. As Texas AgriLife Extension Engineer, his outreach education and research interests are in engineering systems related to water quality, air quality, and manure management related to livestock and poultry feeding operations. He received his M.S. and Ph.D. in Agricultural Engineering from Iowa State University. Saqib will serve as the moderator for this webcast. Phone: (979) 458-1019, Email: mukhtar@tamu.edu



How Do I Participate?

On the day of the webcast, go to http://www.extension.org/pages/Live_Webcast_Information to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: http://www.extension.org/pages/How_Do_I_Participate_in_a_Webcast%3F.

Links For More Information:

* Closure of Lagoons and Earthen Manure Storage Structures <http://tammi.tamu.edu/lagoonclosure.pdf>

* NRCS Standard: Closure of Waste Impoundments http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_025881.pdf