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# Common Biological Problems with Wastewater Treatment/From Lagoons to Activated Sludge: Kerri McCabe (Arkansas Department of Environmental Quality Office of Water Quality) Arkansas Water Works & Water Environment Association Presentation

## Arkansas Environmental, Energy, and Water Law Blog

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Kerri McCabe of the Arkansas Department of Environmental Quality Office of Water Quality undertook a presentation titled *Common Biological Problems with Wastewater Treatment: From Lagoons to Activated Sludge* (“Presentation”) at the Arkansas Water Works & Water Environment Association Conference.

Ms. McCabe’s *Presentation* encompassed four parts:

- Part I – What is biology and its role in wastewater treatment?
- Part II – Types of biological wastewater treatment plants
- Part III – The biological “players” involved in wastewater treatment
- Part IV – Common biological problems with wastewater treatment

Ms. McCabe’s *Presentation* addressed a number of issues such as:

- What is biology?
- Importance and description of the natural water cycle
- The wastewater cycle
- Wastewater reclamation & reuse in the hydrologic cycle
- Detailed discussion of wastewater treatment
- Biological wastewater treatment systems
- How a rural lagoon system works
- Biological wastewater treatment – Biofilm
- Biological wastewater treatment – Activated Sludge
- Major biological players in wastewater treatment
- Bacteria

- Protists
- Fungi
- Animals
- Plants
- Common biological problems with wastewater treatment
- Algal problems in lagoon systems
- Biofouling in biofilm reactor systems
- Bacterial problems in activated sludge systems
- Biological Phosphorous Removal
- Controlling biological problems

[Click here to download a copy of the slides from the \*Presentation\*.](#)