

Texas Watershed Coordinator Roundtable
“Bacteria Dynamics, Assessment Methods, and BMPs”

July 27, 2011

9:30 a.m. — 3:30 p.m.

LCRA Dalchau Service Center, Austin, Texas

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| 9:30 – 9:40 a.m. | Welcome & Introductions [Kevin Wagner, Texas Water Resources Institute] |
| 9:40 – 9:50 a.m. | Stakeholder Questions Regarding Bacteria [Mel Vargas, Parsons] |
| 9:50 – 10:40 a.m. | Effect of Fish and Wildlife on Bacterial Levels <ul style="list-style-type: none">• The role of fish as sources and vectors of bacteria and the influence of bat colonies on indicator bacterial levels [Dr. George Guillen, Environmental Institute of Houston, University of Houston—Clear Lake]• Evaluation of fecal indicator bacteria loadings from a wildlife point source and sediment resuspension in inland streams [Dr. Michael Barrett, Department of Civil, Architectural, and Environmental Engineering, University of Texas] |
| 10:40 – 11:00 a.m. | Networking Break |
| 11:00 – 11:50 a.m. | Environmental Effects on Bacterial Survival and Growth <ul style="list-style-type: none">• Fate and transport of <i>E. coli</i> in rural Texas landscapes and streams [Dr. Saqib Mukhtar, Department of Biological and Agricultural Engineering, Texas A&M University]• Relationship between Bacteria and Conventional Water Quality Parameters [Dr. Hanadi Rifai, Civil and Environmental Engineering Department, University of Houston] |
| 11:50 – 12:30 p.m. | Catered working lunch (or bring your own) [RSVP required] |
| 12:30 – 1:20 p.m. | Methods for evaluating bacteria sources and loads <ul style="list-style-type: none">• Comparison of <i>E. coli</i> methods [Emily Martin, Soil and Aquatic Microbiology Lab, Texas A&M University]• Arroyo Colorado Bacteria Indicator Study [Rocky Freund, Nueces River Authority] |
| 1:20 – 2:10 p.m. | Effect of management and land use on bacterial concentrations and loading <ul style="list-style-type: none">• Effects of ag management, land use, and watershed scale on <i>E. coli</i> concentrations [Dr. Terry Gentry, Soil and Crop Sciences Department, Texas A&M University] |

- Effects of fencing, alternative water, grazing management, and other ag BMPs on bacteria loading [Kevin Wagner, Texas Water Resources Institute]

2:10 – 2:30 p.m.

Networking Break

2:30 – 2:55 p.m.

Bacterial Regrowth

- Effect of carbon on bacterial regrowth [Dr. Jacqui Peterson, Soil and Crop Sciences Department, Texas A&M University]

2:55 – 3:15 p.m.

Roundtable discussion of implications of research findings to watershed planning and implementation [Facilitated by Mel Vargas, Parsons]

- How do these findings affect your watershed planning efforts?
- What are other questions regarding bacteria (i.e. current research needs)?

3:15 – 3:30 p.m.

Wrap-Up [Kevin Wagner, Texas Water Resources Institute]

- State Bacterial Source Tracking Conference
 - February 28-29, 2012 at T Bar M in New Braunfels
- Upcoming training opportunities
 - Texas Watershed Steward Program
 - Next Texas Watershed Planning Short Course
 - Next Roundtable (January 2012)
- Other Announcements