

Lower Rio Grande, Rio Grande Estuary and Lower Laguna Madre

Basin and Bay Expert Science Team,

26-27 May 2011 meeting

Agenda

Thursday 26 May 2011

- I. 0900-0910 – Introductions and minutes
Review and approval of minutes from 20 April 2011
- II. 0910–930 Project Administration
 - A. SAC Report (Cory Horan and/or R. Brandes)
 - B. Draft Budget (Hudson DeYoe)
- III. 0930-1000 Workshop overview (DeYoe)
 - a. Prioritization of areas- LLM, Rio Grande tidal, Rio Grande above tidal, Arroyo Colorado, resacas (this is just a list)
 - b. Decisions to be made
 - c. Assignments from meeting
 - d. Timeline review
- IV. 1000-1200 Hydrology
 - A. Rio Grande (from Anzalduas to gulf) and Arroyo Colorado hydrology data (Jude Benavides and Carlos Marin)
 1. Period of records, preliminary analysis of patterns (is flow increasing, decreasing, when was there a significant change in any trend), if there appear to be patterns, what may be causing the patterns. Rainfall data- patterns in annual rainfall.

1045-1100 Break

- B. LLM hydrology and TxBlend model (Carla Guthrie, TWDB)
 - 1. Update on the current status of hydrodynamic modeling for the Lower Laguna Madre, Arroyo Colorado tidal, South Bay, Brownsville Ship Channel and Rio Grande tidal. TxBlend was run for the freshwater inflow analysis that TWDB and TPWD did about 7 years ago. It would be useful to know if TWDB is revising the model used for the work 7 years ago, and if not, we may consider the previous work to be the best available work. Has the model been applied anywhere other than the Lower Laguna Madre?

1200-1245 Break and working lunch

V. 12:45-17:45 Ecological Data Review

Presenters provide a brief summary of biological data available and what it tells us about ecological health, how a sound environment might be defined in each particular system, and any known relationships between flow and ecological structure and function of each water body.

- A. Lower Laguna Madre
 - Fauna (Mark Lingo and Bob Edwards)
 - Primary producers (Warren Pulich and Hudson DeYoe)
- B. Rio Grande tidal (Mark Lingo and Warren Pulich)

Break 1500-1515

- C. Rio Grande above tidal (Bob Edwards and Mark Lingo)
- D. Resacas (Dave Buzan, Mark Lingo and others)
- E. Arroyo Colorado tidal and above tidal (Mark Lingo)

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VI. 8:30-10:30 Water quality data (TCEQ rep, Roger Miranda, Hudson DeYoe)

Discuss availability of water quality data, relationships between water quality and changes in flow.

- A. LLM
- B. Rio Grande (tidal and above)
- C. Arroyo Colorado

VII. 10:30 – 11:30 Mexico water rights issues (Roger Miranda, TWDB)

VIII. 11:30 – 12:00 Review assignments, meeting dates and schedule