

Meeting Notes

Upper Black Squirrel Recharge Study Meeting of July 17, 2006

1. The purpose of the meeting was to discuss history of UBS studies, obtain input from interested parties and USGS and to provide Colorado Geological Survey with enough information to prepare a rough draft scope of work.
2. Attendees included: Pat Wells, CSU; Kevin Lusk, CSU; Carl Schueler, El Paso County Planning; Sean Chambers, Sunset Metro; Ken Watts, USGS; Matt Sares, CGS; Andy Moore, CWCB; Peter Barkman, CGS; Kip Petersen, Cherokee Metro; Jim Culichia, attorney for Cherokee; Pat Edelman, USGS; Ralf Topper, CGS; Bill Louis, EPC Attorney; and Gary Barber, EPCWA.
3. Gary gave the group a brief overview of the history of discussion, the potential to receive a \$40,000 grant from CWCB and the requirement for matching dollars to the grant. Participating districts need a draft scope of work, and estimated study cost, for budgeting in August, 2006. A preliminary plan for the study includes the following milestones:

<u>August, 2006</u>	<u>October, 2006</u>	<u>March, 2007</u>	<u>July, 2007</u>
Draft Scope & budget estimate	District budget hearings	Begin Study	CWCB funds available

<u>March, 2008</u>	<u>June 30, 2008</u>
Colo. Springs Utilities possible contribution	Study Completion required

4. Ken Watt provided a summary of his work studying UBS and some general statements about the potential for recharge, storage and recovery.
5. Ralf Topper gave a summary of the alluvial aquifer storage study by CGS in 2004 and briefly discussed the requirements of SB 193 to update that work. He then reviewed a history of studies in the basin, which started in the 19th century.
6. The development of a scope of work needs to compare the opportunity against the potential detriments to determine if the recharge concept has merit. The group reached consensus on the following outline to shape the draft scope of work:

A. Opportunity

1. Volume

- a. Historic dewatering and volume potential for recharge
- b. Practical volume available considering

- 1) Phasing
- 2) Locations
- 3) Land uses and land ownership
- c. Support of an annual demand of 20,000 af per year
 - 1) Reflects SWSI Gap for El Paso County plus replacement of Denver Basin sources
 - 2) Carryover factor of 2.5 x means 50,000 af storage requirement
 - 2. Recharge rate
 - 3. Recovery/Retention/Losses
- B. Detriments
 - 1. Water Quality Impacts
 - 2. Heterogeneity of materials
 - 3. Locations
 - a. Land Use
 - 1) Existing
 - 2) Future/Planned
 - 4. Raising the water table
 - 5. Negative impacts on current supply systems
- C. Source Water
 - 1. Effluent
 - 2. Ag water from rotating crop management
- D. Management of recharge/recovery
 - 1. Legal
 - 2. Operational
 - 3. Tribute (contribution) to system

7. Action Items

- Sean Provide wastewater treatment permit info at Santa Fe Springs to Ralf
- Kip Drop another copy of summary data by Gary's office
- Ken Identify 3-D model and methods to access
- Gary E-mail list and meeting notes
- Gary Draft budget and allocation of costs to participants (\$60,000)
- Ralf Draft Scope of Work by mid-August, Gary to distribute to interested parties for budgeting

8. The next meeting will tentatively be in November assuming the districts have committed to fund the project at their October budget hearings.