OUTLINE

• Overview of Aquifer
  – Climate
  – Geology/Hydrostratigraphy
  – Structure
  – Water levels
  – Streamflow
  – Pumpage
  – Model grid

• GAM schedule
  – SAF meetings
  – Project milestones
AVERAGE ANNUAL PRECIPITATION
STATIONS WITH DAILY STREAMFLOW DATA

Berry Cr.
San Gabriel R.
North Fork
South Fork
Shoal Cr.
PUMPAGE FROM NORTHERN EDWARDS AQUIFER (1999)

- Municipal: 48%
- Domestic: 41%
- Livestock: 1%
- Irrigation: 0%
- Manufacturing: 10%
GEOLOGIC AND HYDROGEOLOGIC UNITS

- Del Rio Clay
- Georgetown Formation
- Edwards Limestone
- Glen Rose Formation
- Comanche Peak Limestone
- Walnut Formation
CROSS SECTIONS

Adapted from Collins (unpubl.)
HYDROGRAPHS
CONCEPTUAL MODEL

LEGEND
- Recharge
- Pumping
- Cross-formational flow
- Surface water-groundwater interaction
- Groundwater flow
- Spring flow

EDWARDS AQUIFER

No flow

Elevation (ft MSL)
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar. 18</td>
<td>SAF Meeting 1</td>
</tr>
<tr>
<td>June</td>
<td>Draft conceptual model</td>
</tr>
<tr>
<td>Sept.</td>
<td>Initial model design</td>
</tr>
<tr>
<td>Dec.</td>
<td>Calibrate steady-state model</td>
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<tr>
<td>Feb.</td>
<td>Calibrate transient model</td>
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<tr>
<td>Mar.</td>
<td>Complete model predictions</td>
</tr>
<tr>
<td>Apr.</td>
<td>Prepare draft report</td>
</tr>
<tr>
<td>Aug.</td>
<td>Present SAF Model Seminar</td>
</tr>
<tr>
<td>June</td>
<td>Deliver Final Product</td>
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2002

2003
## Northern Segment of the Edwards Aquifer
### Stakeholder Advisory Forum 1
#### March 18, 2002

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>1 Cheryl Maxwell</td>
<td>Clearwater UWCD</td>
</tr>
<tr>
<td>2 James Carson Sloan</td>
<td>TNRCC</td>
</tr>
<tr>
<td>3 Teresa Lutes</td>
<td>City of Austin</td>
</tr>
<tr>
<td>4 Roberto Anaya</td>
<td>TWDB</td>
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<tr>
<td>5 Robert Mace</td>
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<td>6 Ian Jones</td>
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<td>7 Ali Chowdhury</td>
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<td>8 David Meesy</td>
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</tr>
<tr>
<td>9 Jennifer Walker</td>
<td>Sierra Club</td>
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</table>
NORTHERN SEGMENT OF THE EDWARDS AQUIFER GROUNDWATER AVAILABILITY MODEL
Stakeholder Advisory Forum #2, June 27, 2002

About 9 people attended the second Stakeholder Advisory Forum for the northern segment of the Edwards aquifer groundwater availability model. These stakeholders represent different state government agencies, the City of Austin, the Clearwater UWCD, and the Sierra Club.

Ian Jones outlined the work conducted as part of construction of the conceptual model. This included brief discussions of climate, streamflow, springs, pumpage, geology, water levels, hydraulic properties, and the model grid. This all was summarized in the conceptual model that outlines our understanding of the working of the aquifer. In the conceptual model precipitation recharges the aquifer where the aquifer rock is exposed at the surface through diffuse infiltration through the soil or by infiltration from intermittent streams. The groundwater generally flows from west to east. Discharge takes the form of spring discharge to perennial streams and rivers and pumpage.

A brief discussion followed the presentation. Questions were related to the structure of the aquifer (elevation of aquifer top and variation of aquifer thickness), and the potentiometric surface (factor influencing groundwater flow paths).