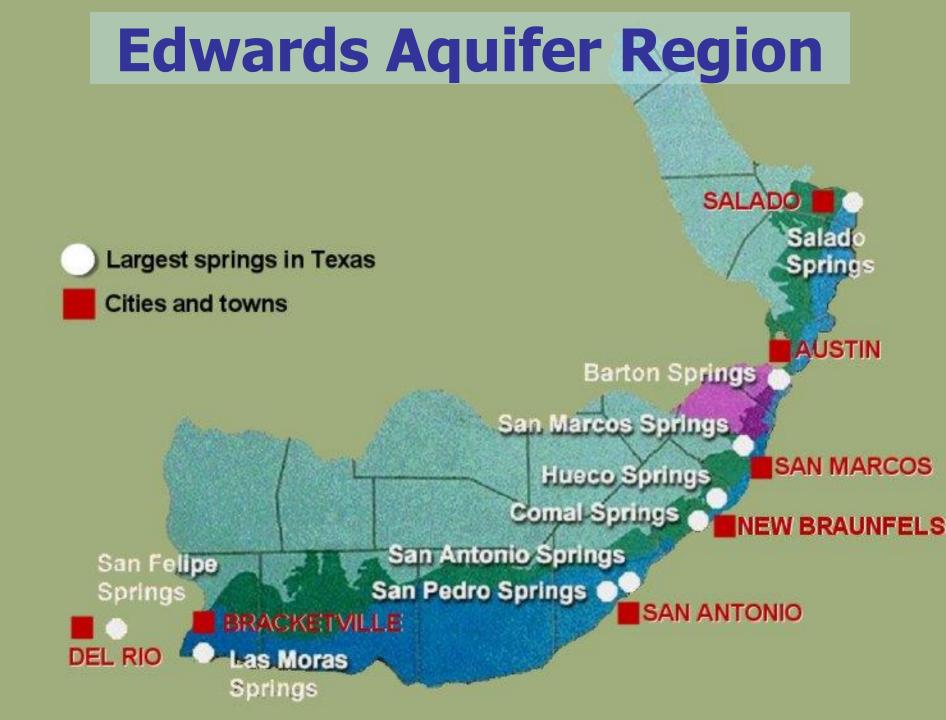
# The Edwards Aquifer Ecosystem The Heart of Texas





### Edwards Aquifer Region

BARTON'S CABIN ON SPRING CREEK

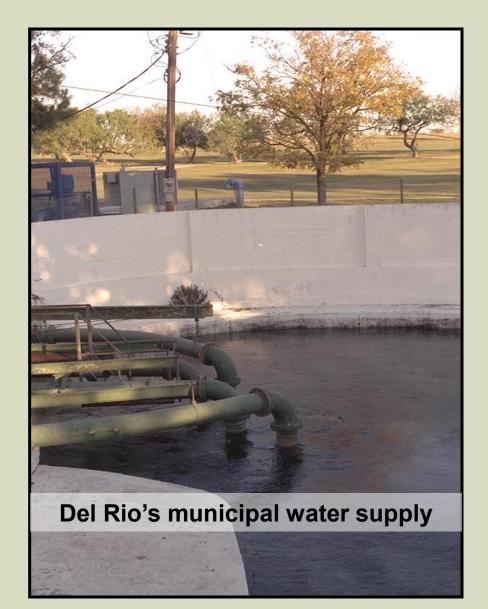
OLORADO RIVER

Original Proposal for Capital City, 1839

Home to over 50 plant and animal species that live nowhere else in the world.

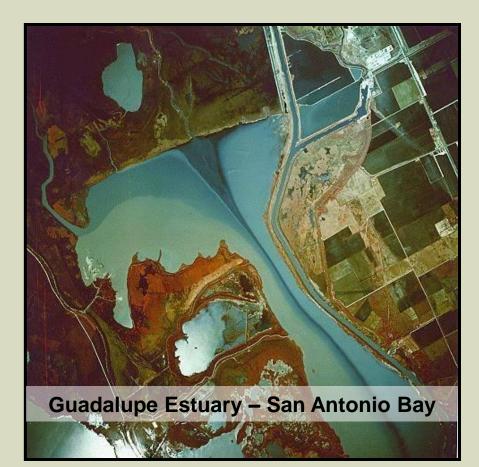


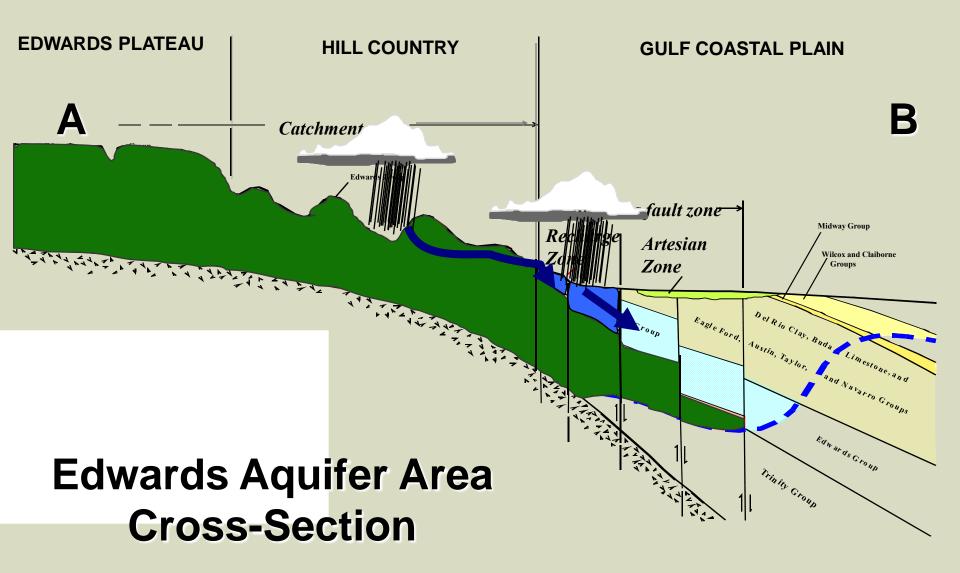
Providing the sole source of drinking water for over 1.7 million citizens.



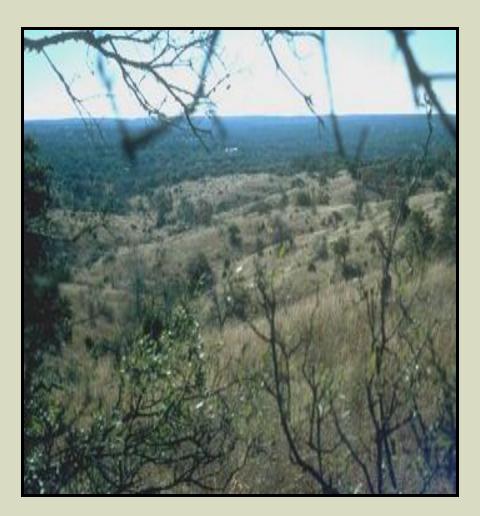
Sustaining essential freshwater flows to bays and estuaries during times of drought







#### Thin to non-existent Hill Country soils . . .





#### ... rapid, groundwater recharge...



#### ... rapid open channel flow ...





... provides minimal filtration of pollutants that enter the aquifer . . .



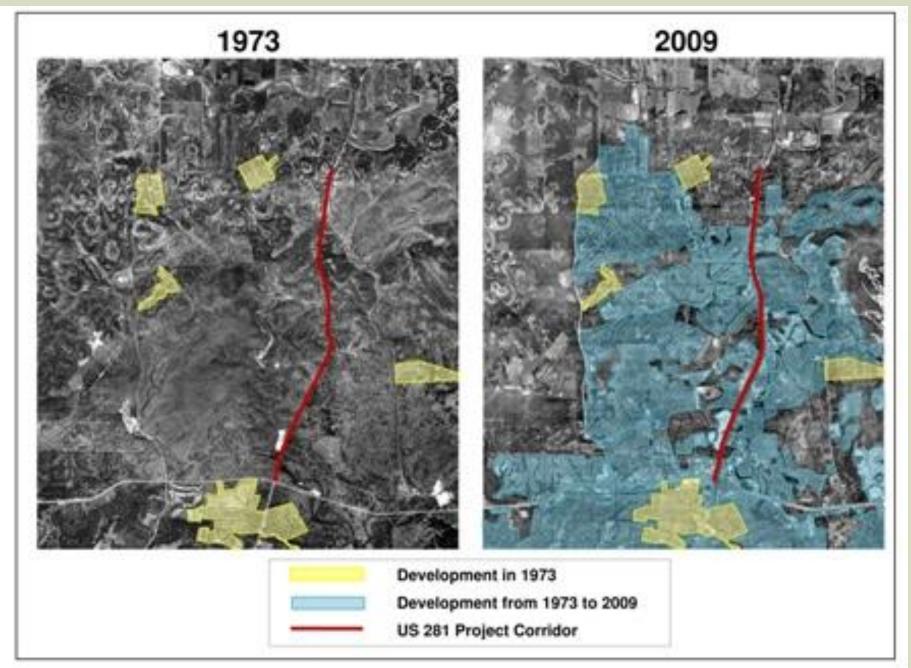
... combine to make the Edwards Aquifer more vulnerable to pollution than any other major aquifer in Texas.

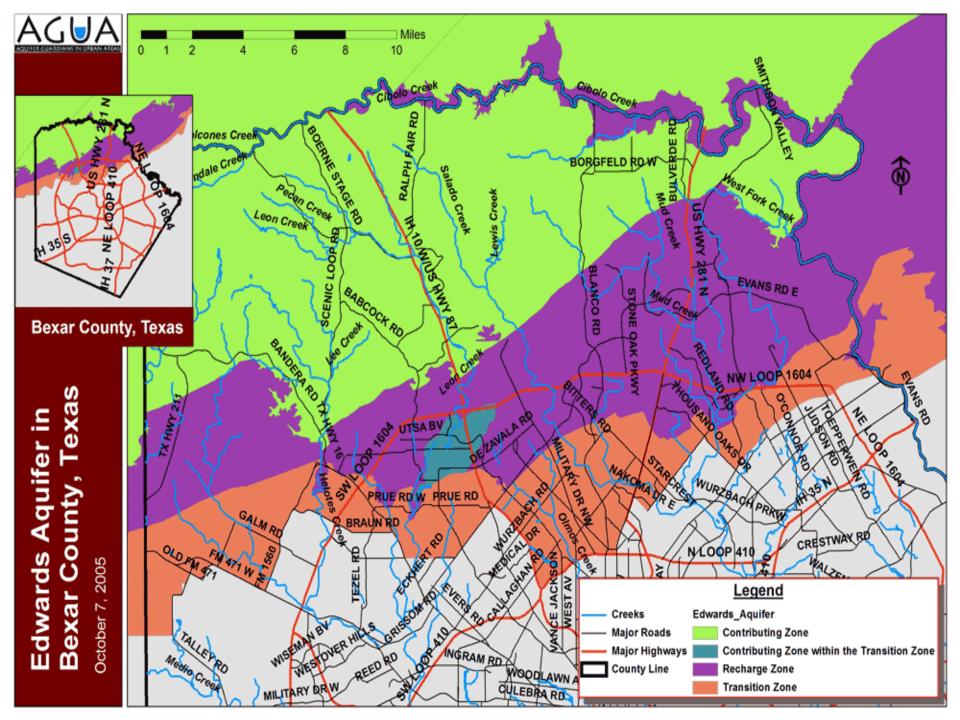


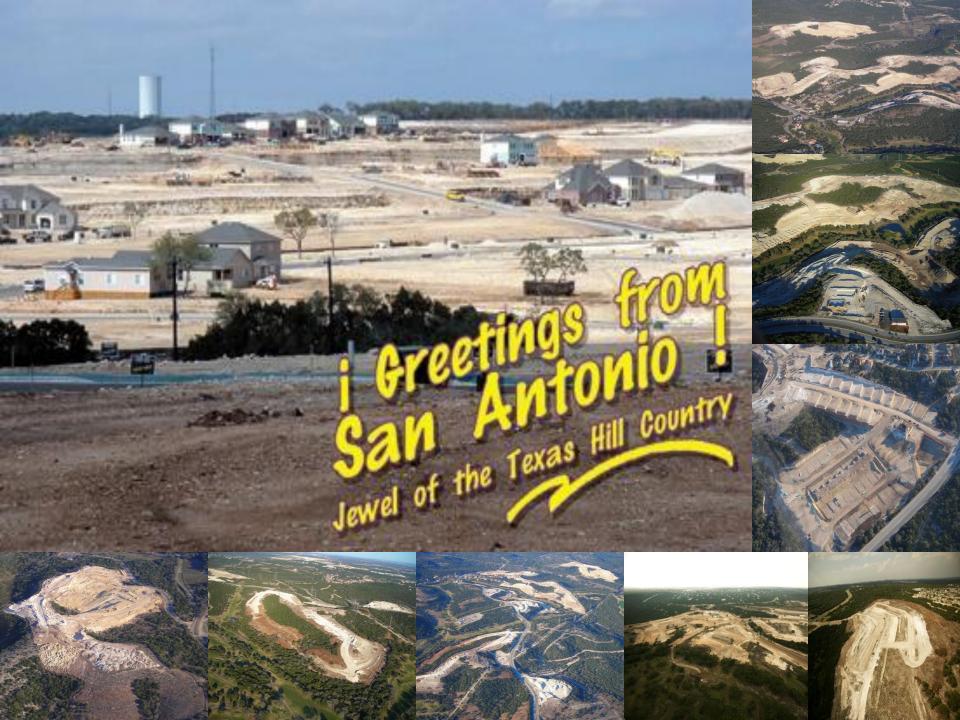
# Rapid, unsustainable urbanization threatens pollution of the Great Springs of Texas.

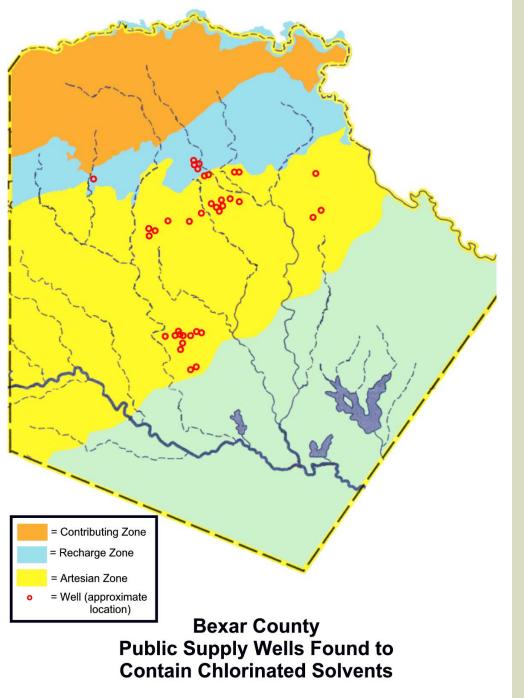


#### US 281 on the Edwards Aquifer Recharge Zone in San Antonio, Texas

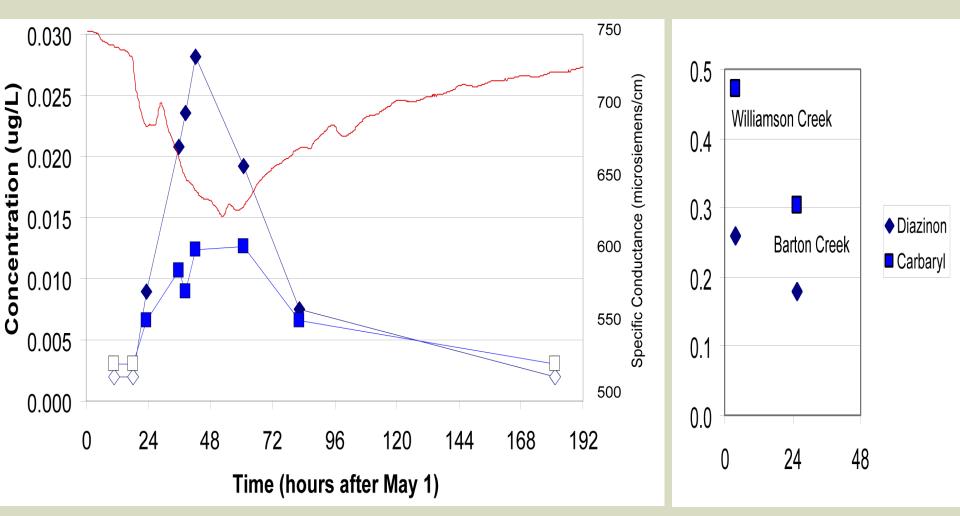






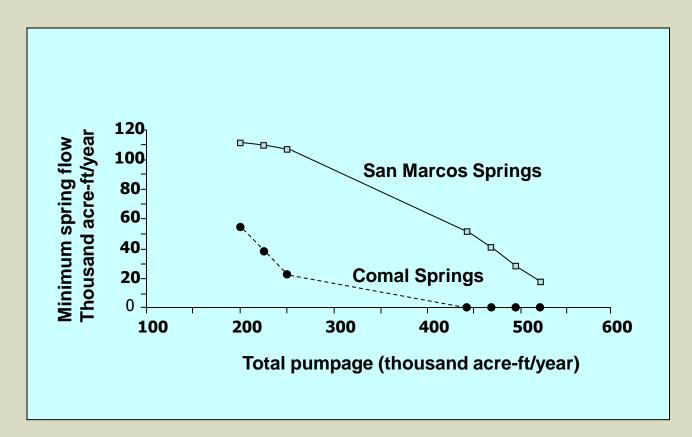


## Carbaryl and Diazinon in Barton Springs



# Edwards Aquifer Ecosystem **A Treasure at Risk**

Rapid, unsustainable urbanization threatens to overpump the aquifer.



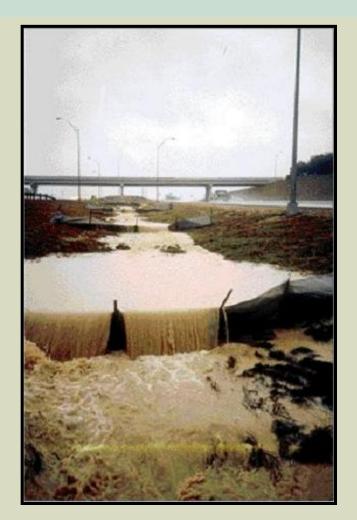
# Edwards Aquifer Ecosystem **A Treasure at Risk**

# Rapid, unsustainable urbanization is pushing aquatic species to the brink of extinction



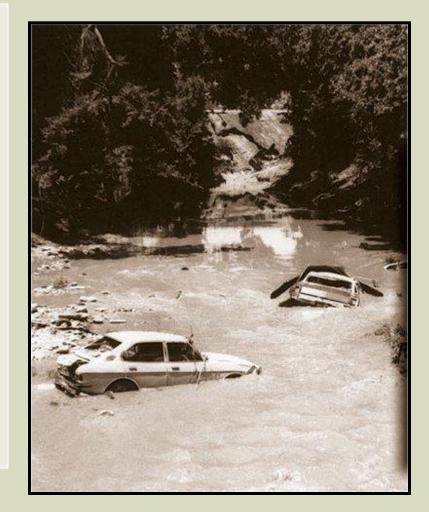
# **A Need for Action**

Current measures are inadequate: Structural controls often fail to prevent pollution.



# **A Need for Action**

**Current** measures are inadequate: Increased impervious cover increases stormwater flows, erosion, and flooding.



**Pollutants found in Barton Springs** or Contributing Stream Sediments Above Levels which are Toxic to Aquatic Life

#### **Heavy Metals**

Arsenic Cadmium Copper Lead Mercury Silver

P-P'-DDD P-P'-DDE P-P'-DDT Aldrin Endrin **Beta-BHC Delta-BHC** PCD

Pesticides

hlordane Spray

**Heptachlor** Epoxide Gamma-BHC (lindane)

#### **Polyaromatic hydrocarbons**

Benzo(A)anthrocene Benzo(B)fluoranthene Benzo(K)fluoranthene Benzo(A)pyrene Chrysene Dibenz(AH)anthracene Fluoranthene Phenanthrene Pyrene

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The Woman Who Ratted Out Enron by PAMELA COLLOFF

### **A Need for Action**

- Rapid regional population and urban growth predicted to continue.
- 4 out of the nations 10 fastest growing counties are within Texas Hill Country
- Multiple jurisdictions with no coherent plan or vision for the region

## **A Need for Action**

#### Based on regional scientific consensus

"Government, private corporations and citizens should act promptly to direct urban development away from the aquifer through control of infrastructure investment...."

"Restrict impervious cover to levels to levels that will sustain existing water quality." (<12%)

## **A Need for Action**

#### Based on regional economic consensus

1. Cartana

**Chamber of Commerce's "New Century Economic Report" confirms that a high quality environment is necessary for a healthy economy** 

# Save It, Don't Pave It

For more information about GEAA and our member groups visit <u>www.AquiferAlliance.org</u>

You may contact me: Annalisa Peace 210-320-6294 annalisa@aquiferalliance.org