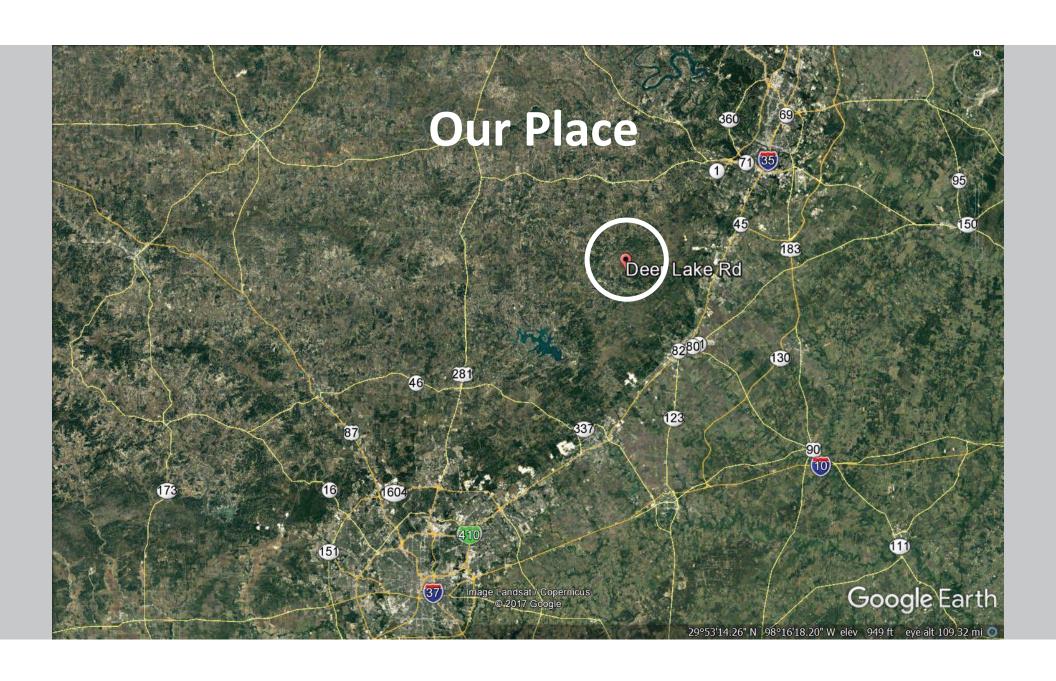
# Trinity Edwards Springs Protection Association (TESPA) and Protecting the Surface Water of the Texas Hill Country

Jim Blackburn

President, Trinity Edwards Springs Protection Association (TESPA)

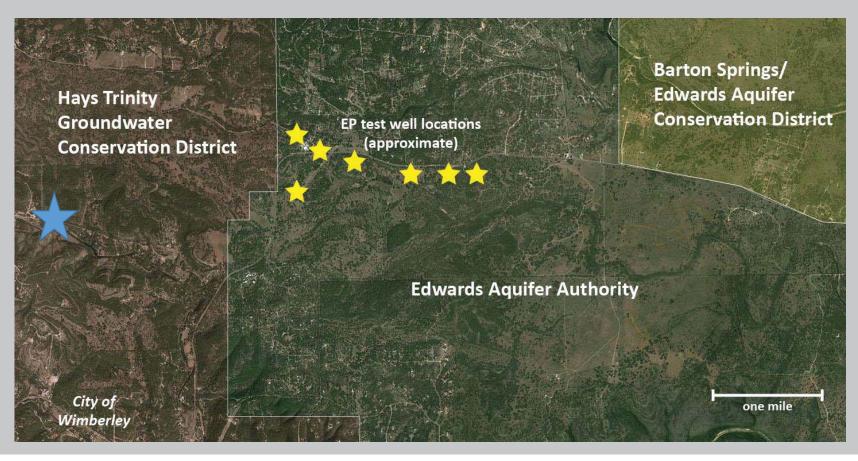
September 21, 2017







# Drawdown From 1.5 mgd = 90 feet 5 miles away – EP Initially Proposed 5.3 mgd



## TESPA Formed To Combat Groundwater Plunder



Trinity Edwards Springs
Protection Association



Vanessa Puig-Williams

Executive Director and General Counsel



Jeff Mundy
Trial Counsel

### TESPA 2015 Litigation vs. EP + Landowners

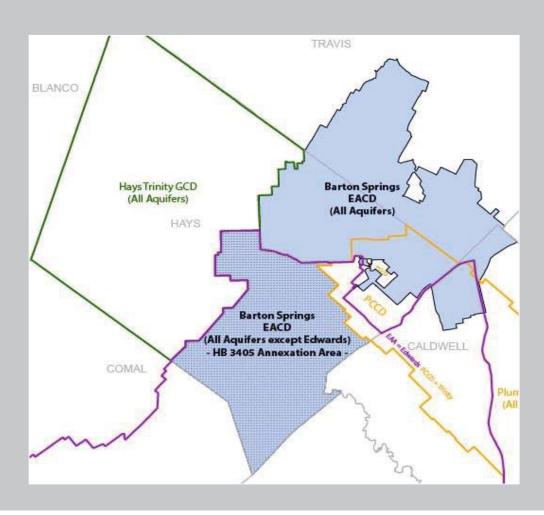
FILED 3/20/2015 10:59:44 AM Beverly Crumley District Clerk Hays County, Texas 15-0598 CAUSE NO. IN THE DISTRICT COURT OF EDWARDS SPRINGS PROTECTION ASSOCIATION. VS. ELECTRO PURIFICATION L.L.C., HAYS COUNTY, TEXAS BRIDGES BROTHERS FAMILY LP NO. BRIDGES BROTHERS, L.L.C., ROY GENE ODELL. EDDIE RAY ODELL, and JUANITA MARIE LIENNEWEBER, ALSO KNOWN AS NITA JUDICIAL DISTRICT LIENNEWEBER PLAINTIFF'S ORIGINAL PETITION REQUEST FOR INJUNCTIVE RELIEF AND JURY DEMAND TO THE HONORABLE JUDGE OF THE COURT: 1. Humans have many wants; they have but very few true critical needs - food, water, and shelter. This case goes to these core critical needs required to support life and maintain the habitability of family homes in this county. "Indeed, the State has the responsibility under the Texas Constitution to preserve and conserve water resources for the benefit of all Texans." Supreme Court Justice, and now Governor, Greg Abbott. 1 Barshop v. Medina County Underground Water Conservation Dist., 925 S.W.2d 618, 623 (Tex., 1996)(authored by

### Key Legal Issues:

- 1. Is EP actually within the jurisdiction of the Hays Trinity Groundwater District?
- 2. Is the Rule of Capture contrary to the Conservation Clause of the Texas Constitution?

### HB 3405: Brought "White Area" under jurisdiction of BSEACD





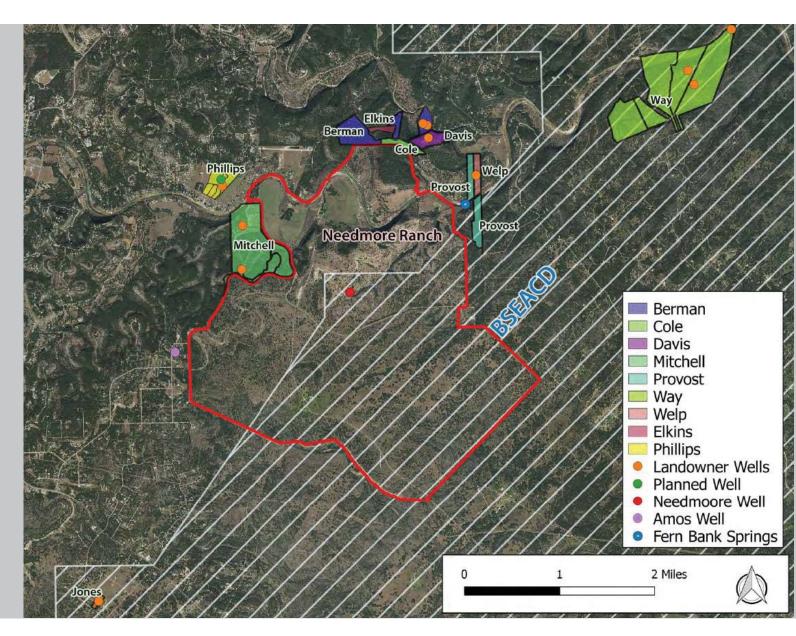
#### **Current Situation**

Application of Needmore MUD for 289,000,000 gallons

**Contested Case Request Granted** 

New Application By EP Pending. Will seek contested case.

# We Are Fighting!!



### A Texan Plan for the Texas Hill Country

(continued from front flap)

and beyond. Using these studies and ecotourism opportunities, Blackburn has formulated a plan that links the economic health to the ecological health of the Texas coast. He argues that in order for an environmental plan to be successful, it needs, at least in part, to be about making money.

But money alone cannot be the motivation for caring about the Texas coast. Through stunning photographs and personal stories about spirituality, litigation, and willpower, Blackburn shares his knowledge of and love for this landscape, encouraging Texans to get to know it better. Deeply informed and accessibly written, A Texan Plan for the Texas Coast weaves together a challenging, but promising plan to protect the coast through a combination of economic motivation, thoughful litigation, informed appreciation, and just simple affection for the beauty and life to be found on the Texas coast.



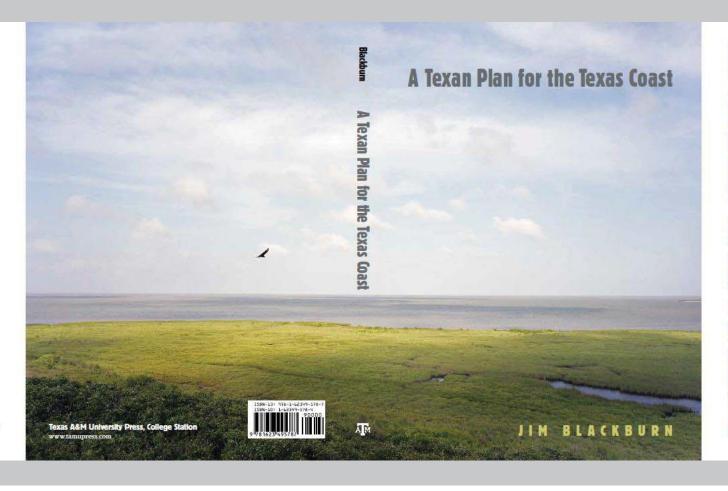
JIM BLACKBURN is professor in the practice of environmental law in the civil and environmental engineering department at Rice University. He is also the codirector of the Severe Storm Prediction Education and Evacuation from

Disaster (SSPEED) Center at Rice University. He has been a practicing environmental lawyer and planner since 1973 and is the author of *The Book of Texas Bays*.

NUMBER THIRTY-ONE
Gulf Coast Books
Sponsored by
Texas A&M University-Corpus Christi

Cover photo by Geoff Winningham

TEXAS A&M UNIVERSITY PRESS College Station



For an environmental plan to be successful in Texas, it needs to be about making money and pursued with resolve and heart.

In this powerful call to action, conservationist and environmental lawyer Jim Blackburn offers an unconventional yet feasible plan to protect the Texas coast. As the state's population continues to increase and natural resources remain finite, both the productivity and natural beauty of the coast are threatened. The biggest threat, Blackburn argues, is that Texans do not really know their coast and, as a result, are in denial about the major threats it faces and unaware that the long-term health of the coast provides significant economic benefits.

To save coastal resources, a successful plan must address the realities of our current world. How can we sustain economic growth and encourage entrepreneurship and protect limited natural resources at the same time? In A Texan Plan for the Texas Coast, Blackburn identifies a path to conservation while supporting the oil and gas industries as well as saving the agricultural and ranching traditions along the coast.

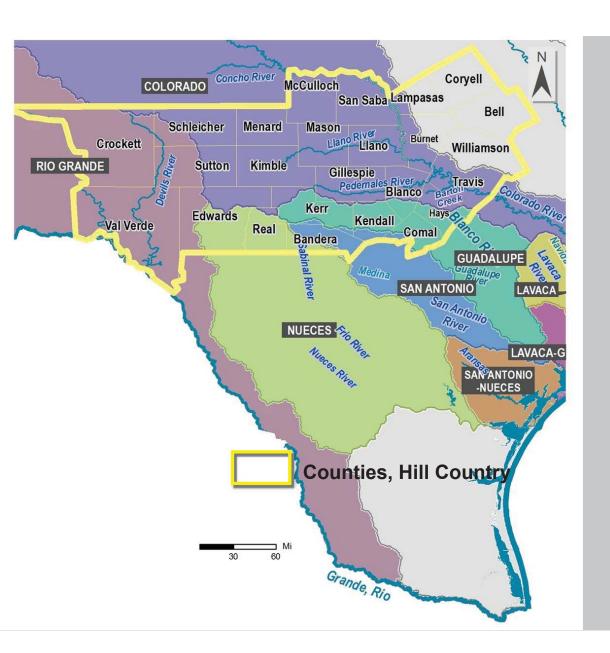
The coast provides immense services through what Blackburn terms its "gray" assets (industrial and development infrastructure) and "green" assets (natural ecological systems) Not only is it the site for unparalleled industrial complexes and international trade, it also offers valuable tourism and recreation opportunities. But we get much more: We get carbon dioxide removed from the air and put into trees and soil. We get fish and shellfish production. We get water storage and recharge. We get flood control. These services are beginning to be appreciated for their dollar values, a trend that might offer Texas farms and ranches the potential for cash flow, which may in turn alter conservation practices throughout Texas

(continued on back flap)

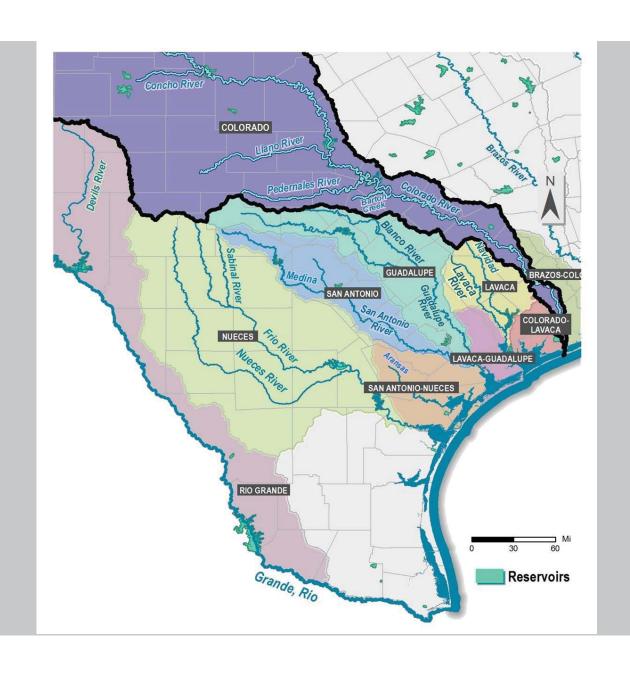
### A Texan Plan for the Texas Hill Country

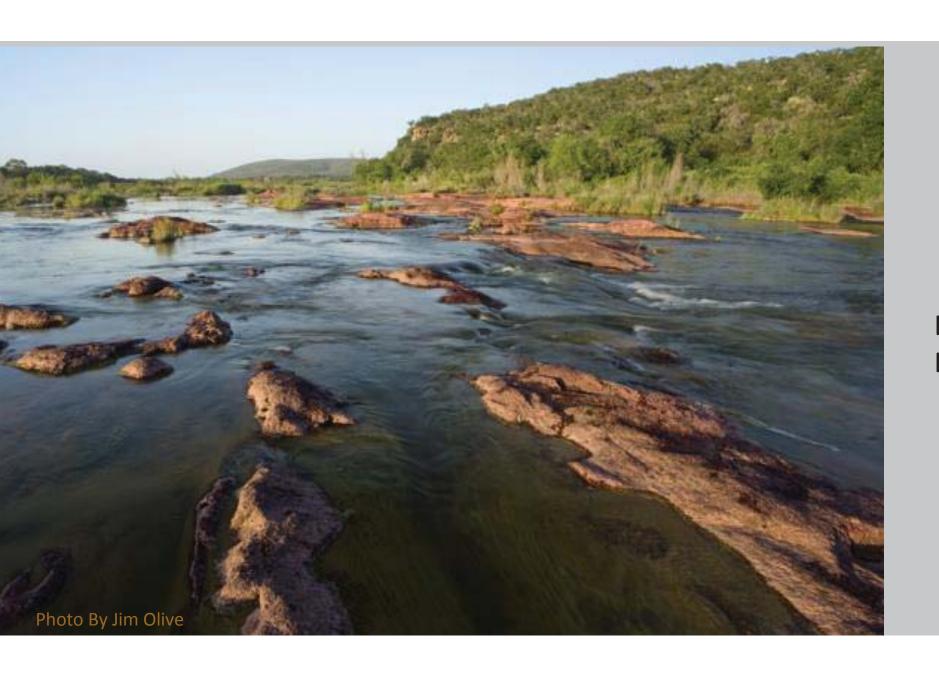
- You have to fight for what is important to you
- If you don't fight for it, you will lose it
- Today you fight with the legal system
- So what are we fighting for?

### Our Property!!!!!!

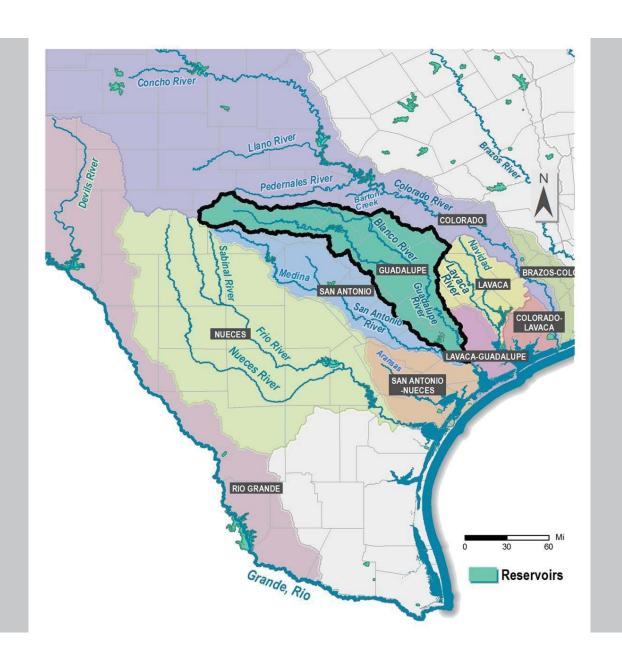


# Surface Water of Texas is Owned By the Public





Llano River

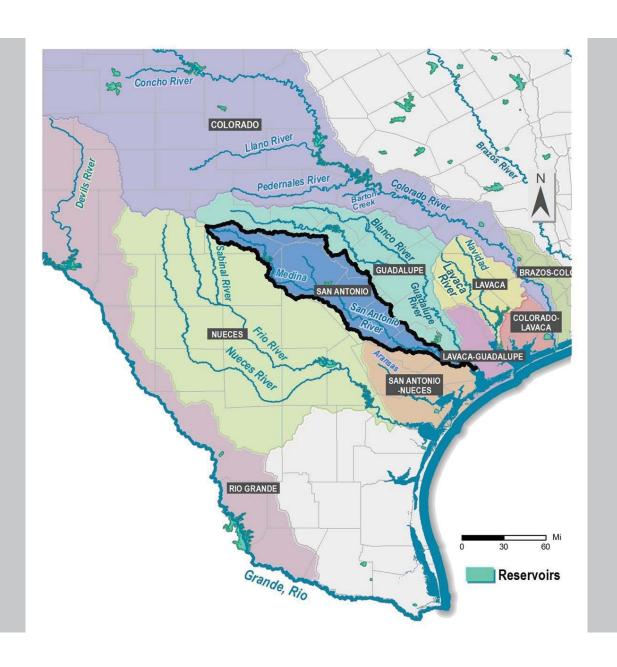




### Blanco River

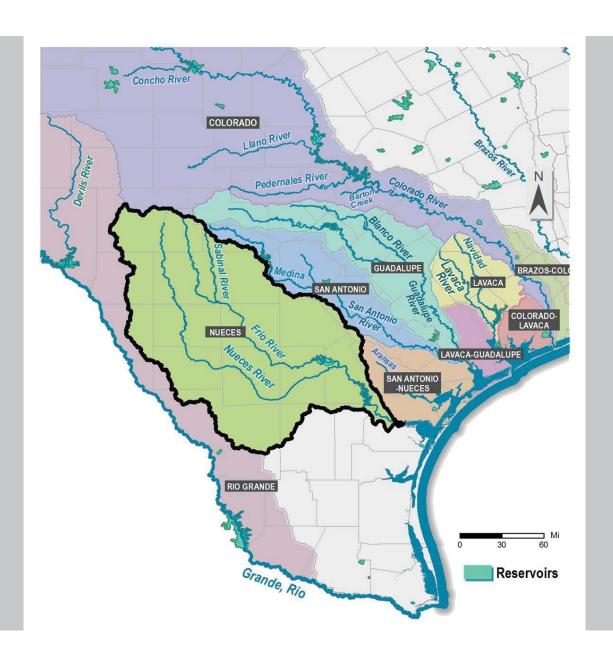


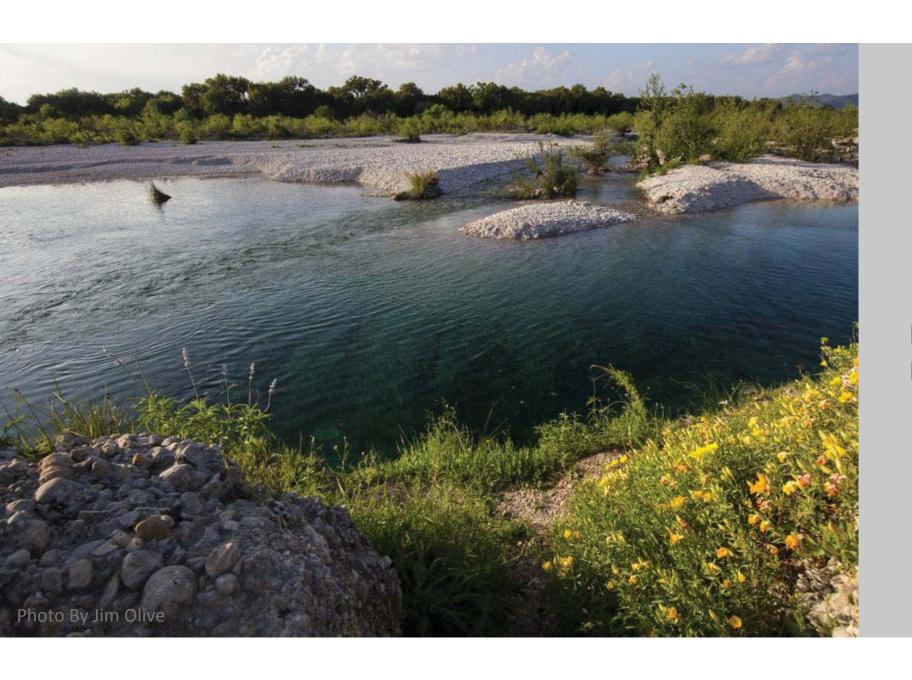
Guadalupe River



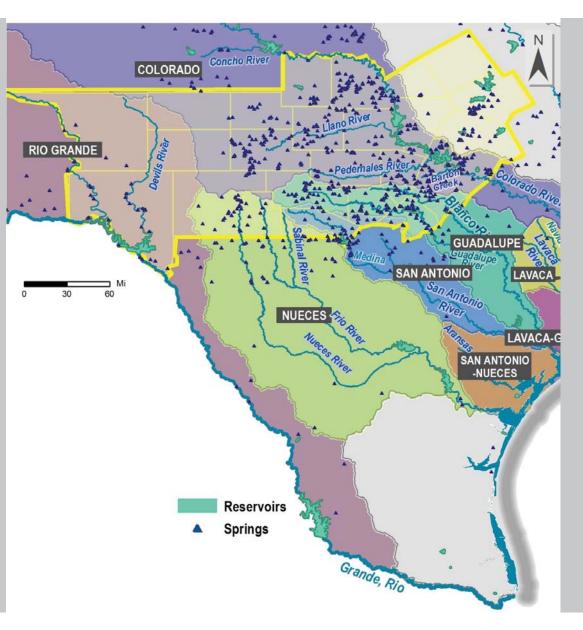


### Medina River





Nueces River



# Surface Water Connected to Groundwater By Springs

If the Springs Don't Flow,
Our Surface Water Public
Property Would Be
STOLEN

### Edwards Aquifer Authority v. Day Texas Supreme Court, 2012

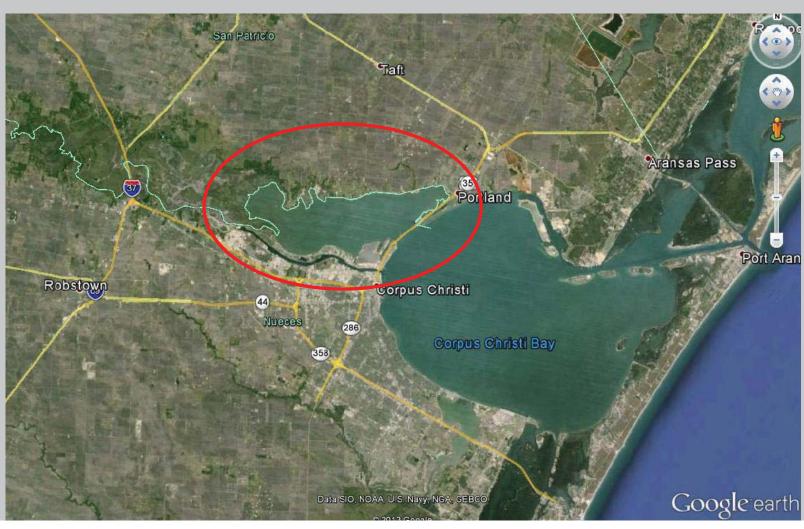
- Created In Situ Property Rights in Groundwater (as opposed to actually capturing it)
- This is both a positive and a negative
- CREATIVITY

### A Texan Plan for the Texas Hill Country

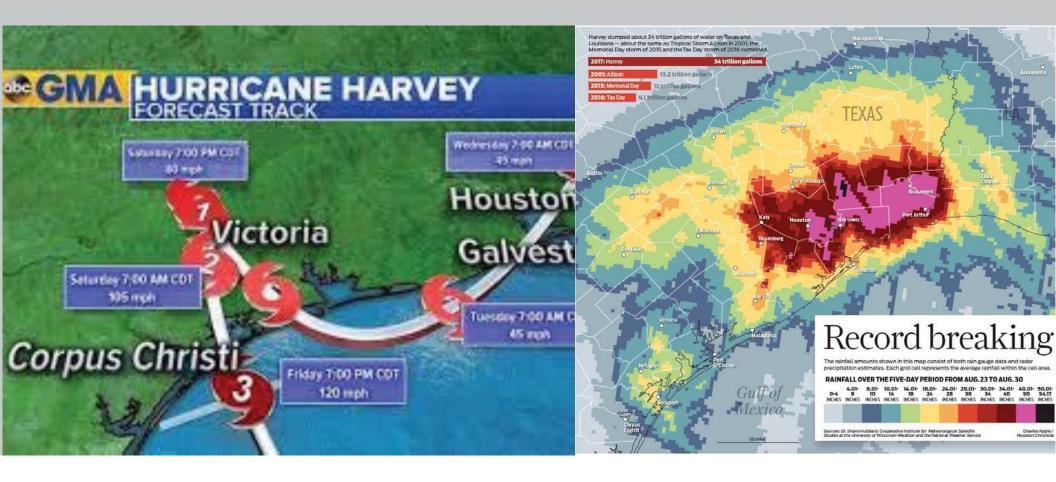
- You have to fight for what is important to you
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- The worst case situation can and will happen



### TCEQ BBEST Study (2011) Finds Nueces Bay Essentially Ecologically Dead

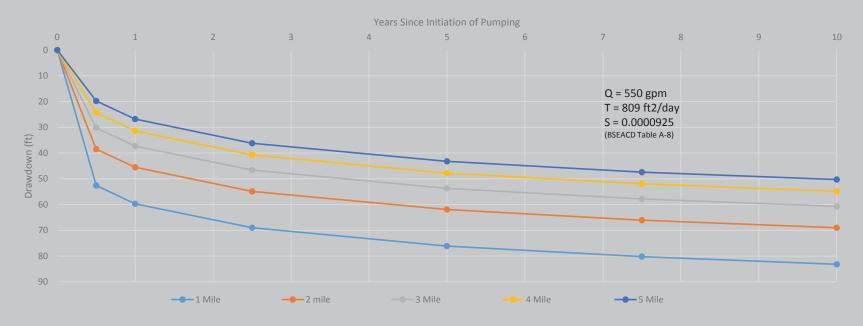


# If We Had Predicted This They Would Have Said We Were Crazy

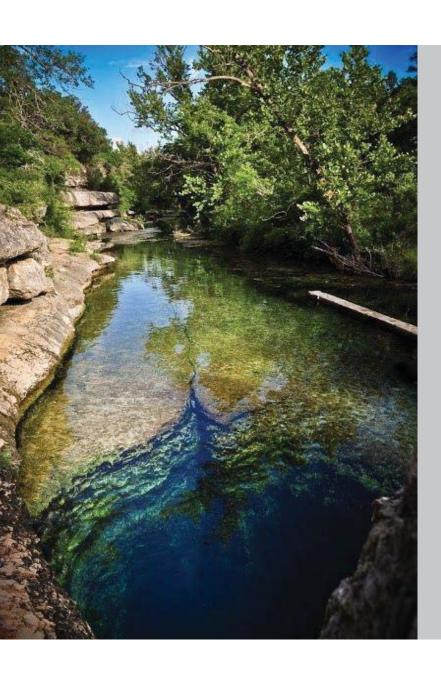


### Worst Case Texas Hill Country Scenarios -You Lose Your Groundwater

Distance-Time Drawdown From Well D



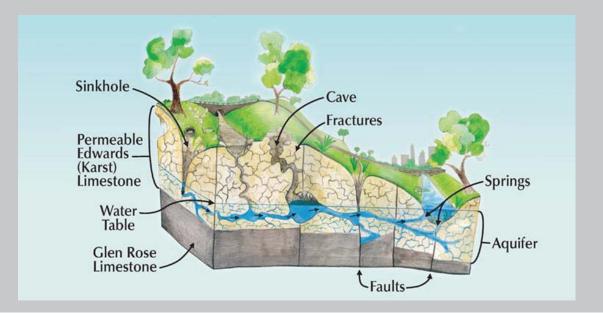
Note: T(ave) w/o Well D



### **Karst Geology**

**Dry Up The Springs** 

**Collapse the Karst Formations** 

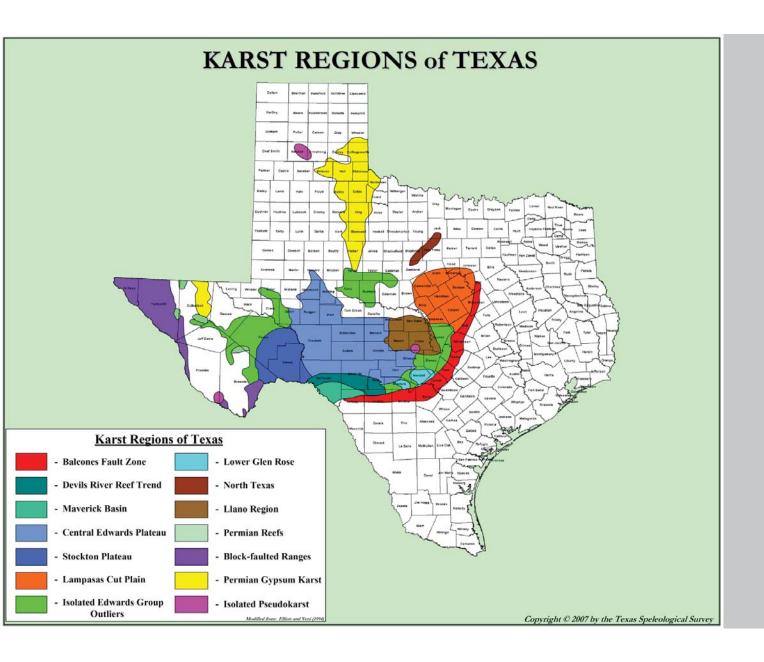


### **Climate Change**

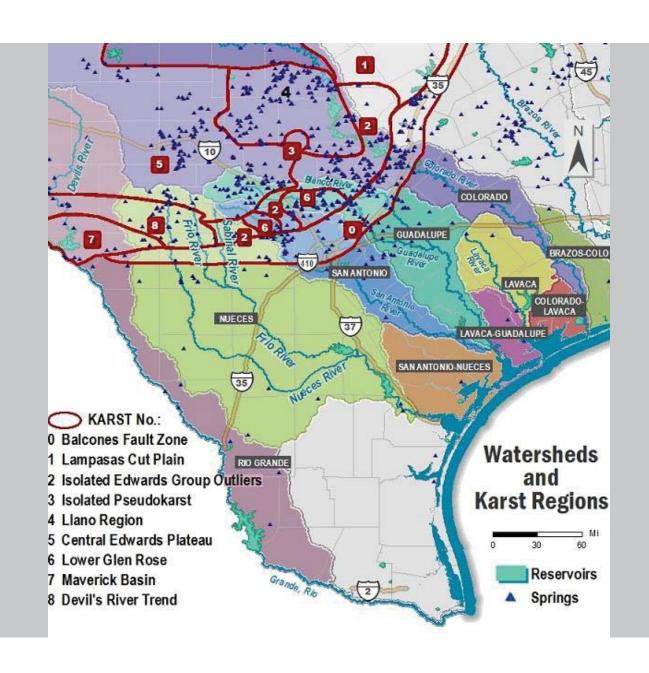
- Weird Weather Is Happening
- Greater Variations In Groundwater Recharge
- Less Dependable Spring Flow
- Projected Decrease in Base Flow

### **Lessons From The Texas Coast**

- You have to fight for what is important to you
- If you don't fight for it, you will lose it
- Today you fight with the legal system
- The worst case situation can and will happen
- Science is your friend



of Texas
a.k.a.
The Texas
Hill Country

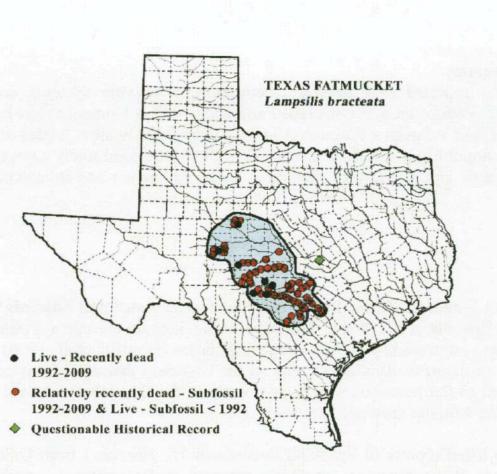


# Golden-Cheeked Warbler Breeding Area Showing Recovery Regions



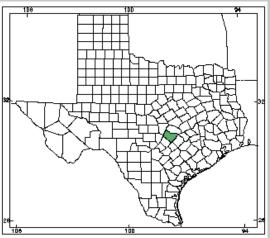


### Texas Fatmucket

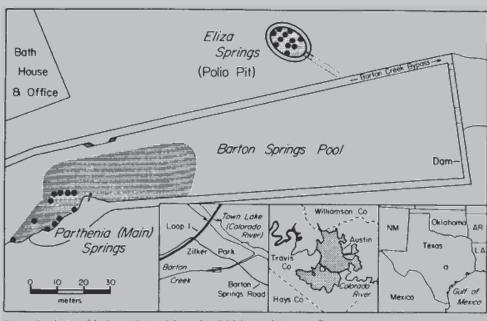








### Barton Springs Salamander

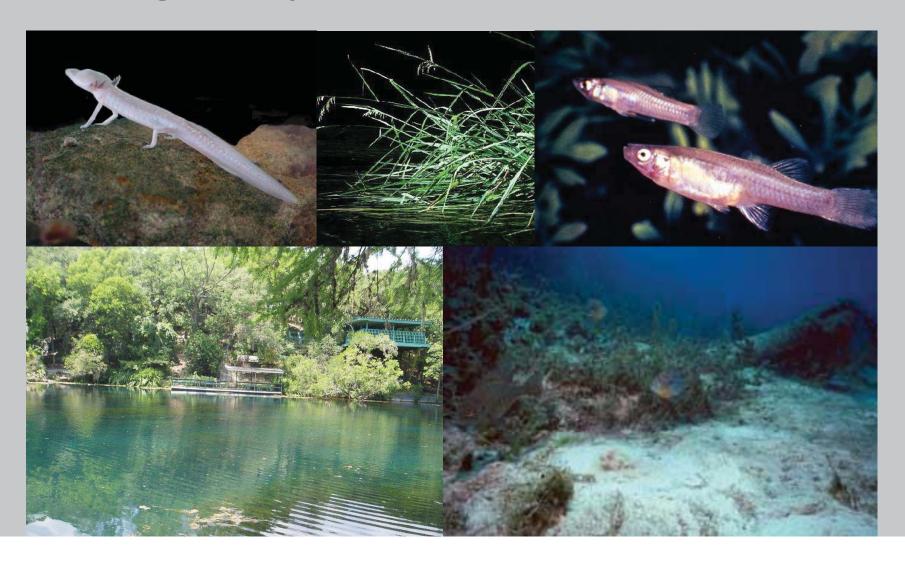


Known distribution of the Barton Springs Salamander. Solid dots mark spring outflows.

### **Lessons From The Texas Coast**

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- Science is your friend
- Federal environmental law is your friend

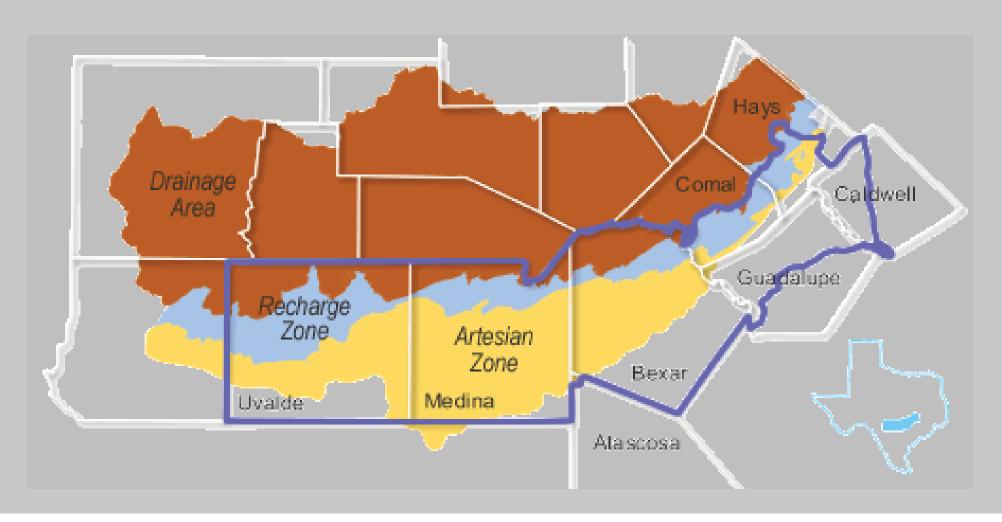
# Endangered Species – Sierra Club v. Babbitt



#### Sierra Club v. Babbitt

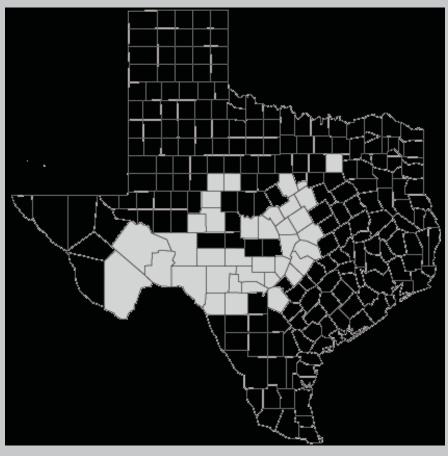
- Suit against U.S. Fish and Wildlife Service for failure to establish minimum drawdown limits on Edwards Aquifer to maintain springs flows at San Marcos and Comal Springs
- Suit filed by Sierra Club, Guadalupe-Blanco River Authority, City of San Marcos and City of New Braunfels
- Led to creation of Edwards Aquifer Authority by the Texas Legislature to regulate groundwater withdrawals
- Led to the adoption of a Habitat Conservation Plan to protect the endangered species of Comal and San Marcos Springs

# **Edwards Aquifer Authority**

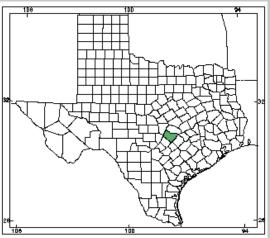


# **Black Capped Vireo Range**

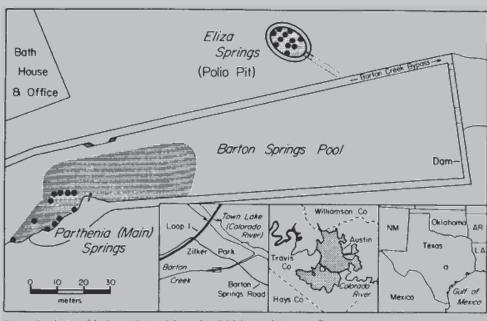








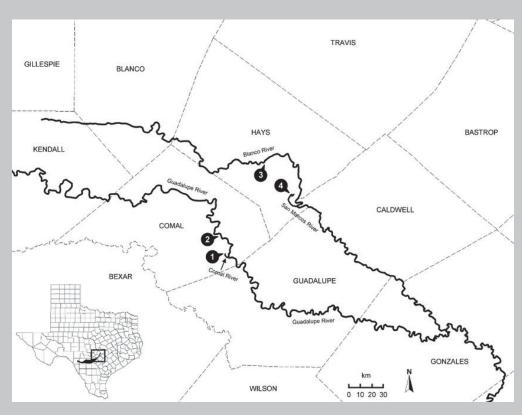
# Barton Springs Salamander



Known distribution of the Barton Springs Salamander. Solid dots mark spring outflows.

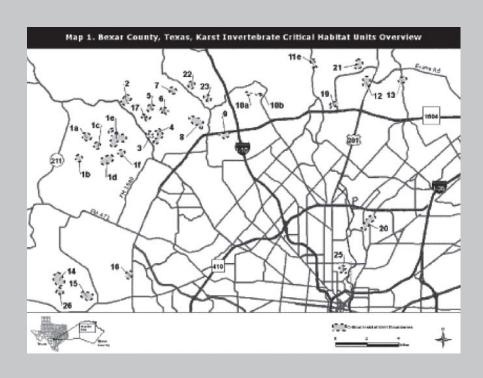
# **Comal Springs Dryopid Beetle**





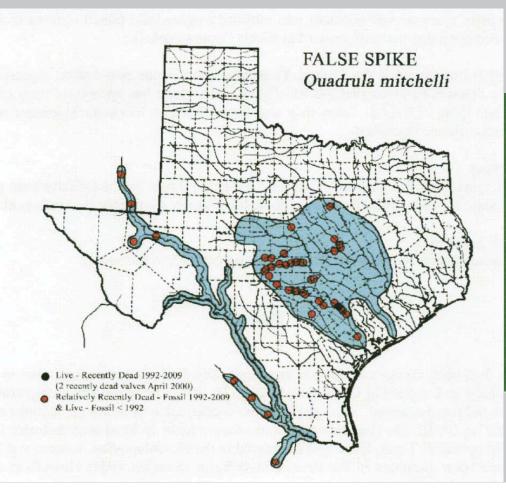
The Comal Springs dryopid beetle was first discovered in 1987 and officially described in 1992 and listed in 1997. .

# Karst Invertebrates Bexar, Travis and Williamson Counties



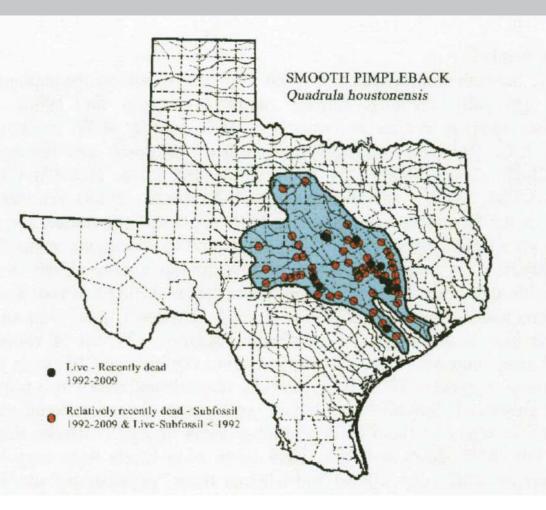
- 1. The USFWS listed seven karst invertebrates from Travis and Williamson County as endangered in 1994, granting them protection under the Endangered Species Act.
- 2. Nine additional karst invertebrates from Bexar County were listed as endangered in 2000.
- 3. Critical Habitat for Bexar County karst invertebrates was designated by the USFWS in 2012.

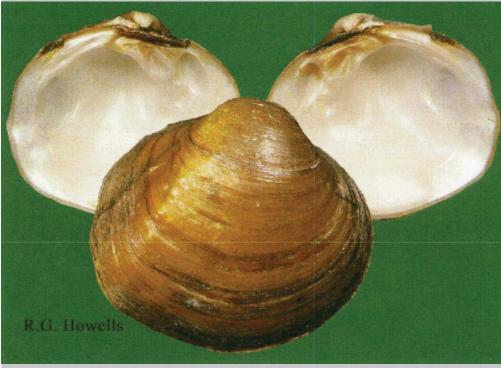
# False Spike



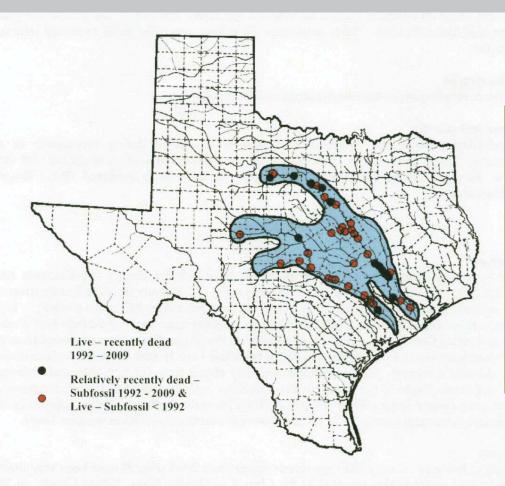


# Smooth Pimpleback



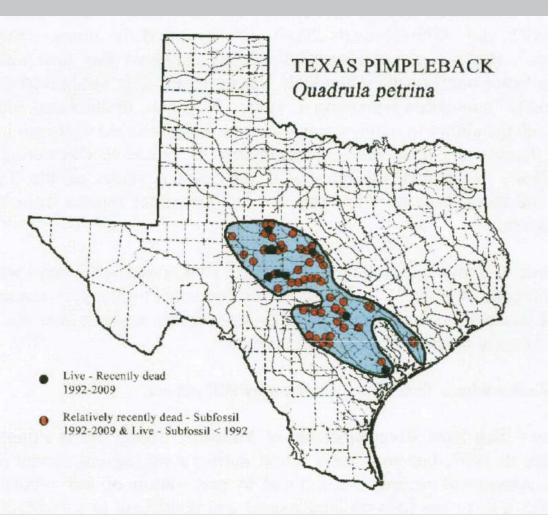


### **Texas Fawnsfoot**





# Texas Pimpleback





# **Commonality Among These Species**

- Water is essential to the survival of these species
- Most require specific springs or riverine flows
- Birds require seeps and springs
- All occur within the Texas Hill Country

# Endangered Species Are The Best Ally of Groundwater, Spring Flow and Surface Water Protection In Texas

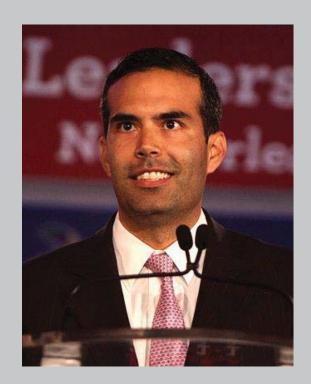
#### **Lessons From The Texas Coast**

- You have to fight for what is important to you
- If you don't fight for it, you will lose it
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- The worst case situation can and will happen
- Science is your friend
- Federal law is your friend
- The government likely is not your friend

#### State Efforts to Delist Golden-Cheeked Warbler



Then-Comptroller Susan Combs filed petition to delist in 2015 based on study by Texas A&M



P. Bush filed lawsuit to compel delisting based on pleadings prepared by Texas Public Policy Foundation

# Current Efforts To Prevent Listing of 6 Mussels



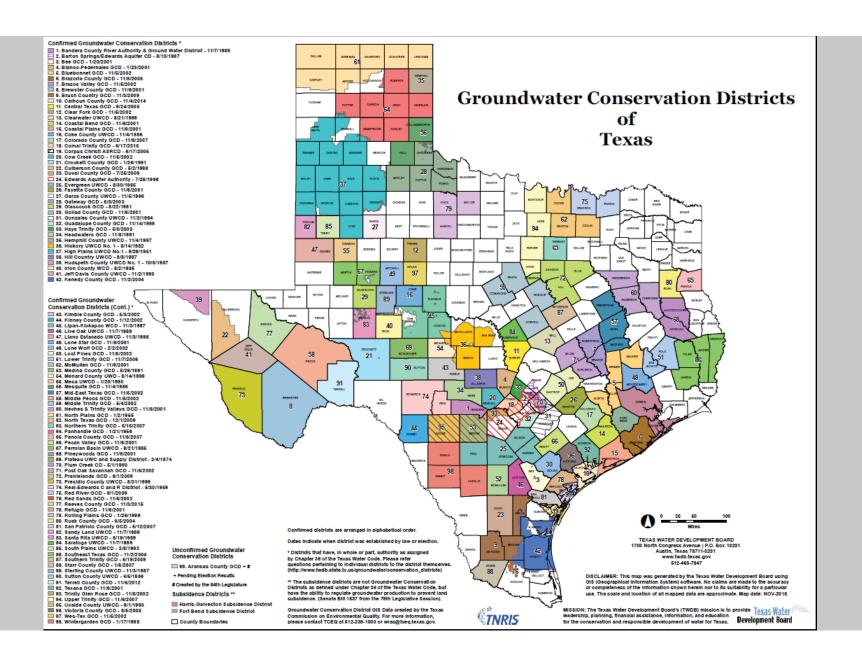
**Effort led by Robert Gulley** 

**Working With Comptroller Glen Hagar** 

Did excellent work on Edwards Aquifer Recovery Implementation Plan

Could lead to protection of mussels and water in exchange for no listing

Could work against mussels and water in the Hill Country and Texas

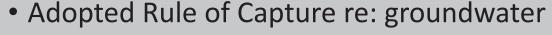


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- Science is your friend
- Federal law is your friend
- The government likely is not your friend
- Be creative and do not fear failure

# Go After The Rule of Capture – It's Bad Law

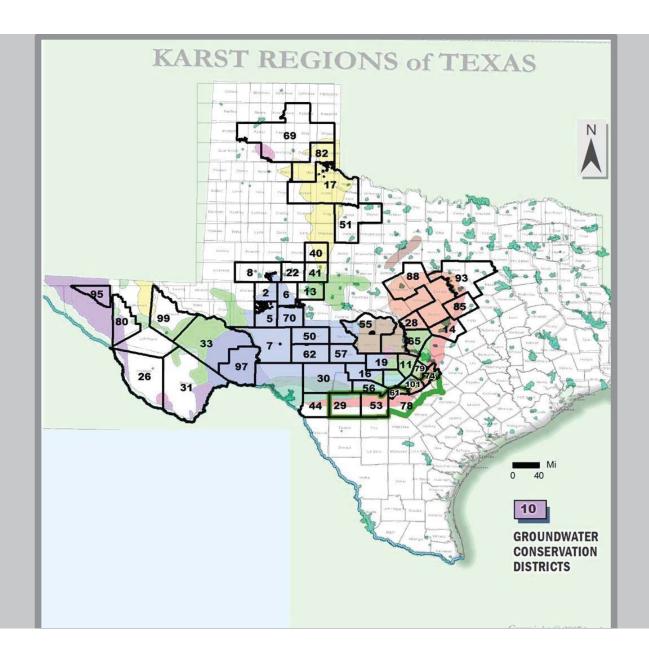
# Adopted in 1904 Houston & Texas Central Railway Co. v. East



- Landowner may take groundwater
- Even if neighbor is negatively harmed
- Damnum absque injuria
- "(1) Because the origin, movement and course of [groundwater] and the causes that govern and direct their movement are so secret, occult and concealed that an attempt to administer any set of legal rules in respect to them would therefore be practically impossible.



Attempt to Compel a
Master Groundwater
District for the Karst
Geological Region
Based on
Endangered Species
Law?



# **Constitutional Lawsuit To Protect Public Property**



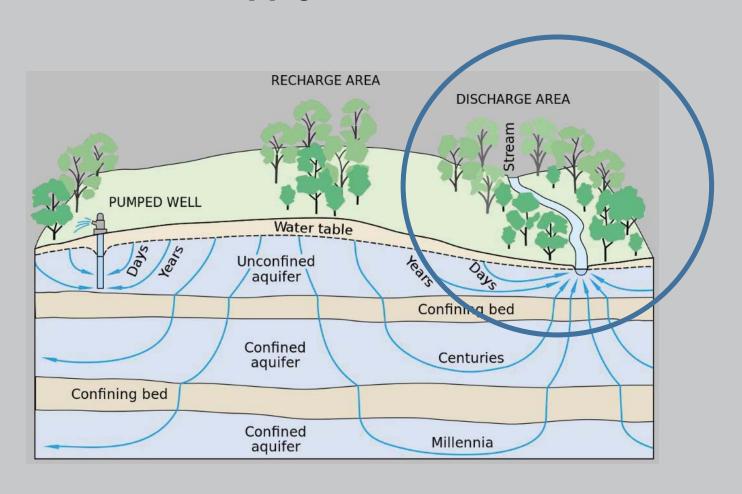
#### **Creative Use of Economics**

- If we can talk money, everyone will listen
- Can we buy rights to springs?
- Can we set up market systems to reward groundwater stewards?
- Can we devise a system of paying landowners for good stewardship decisions?

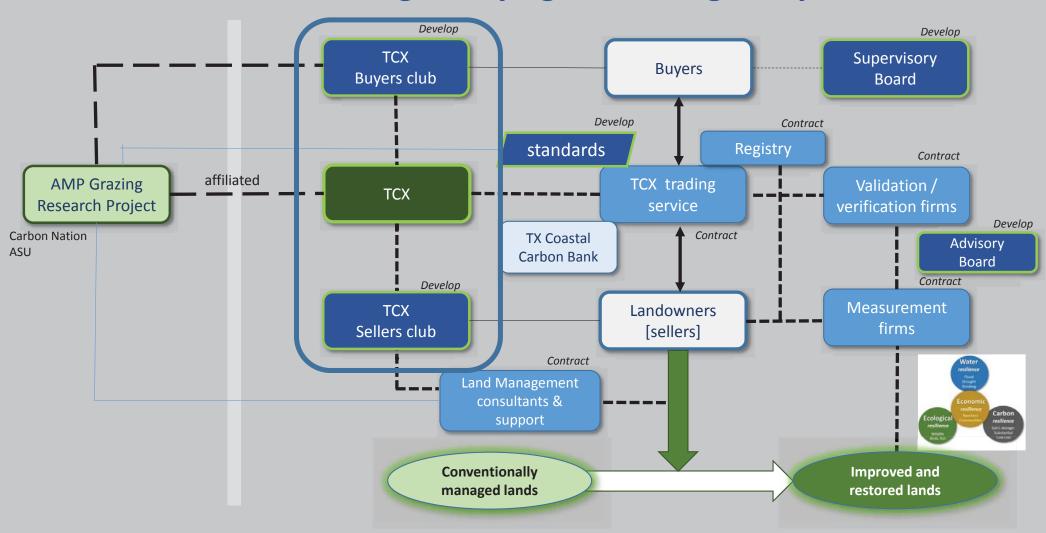


Let's Have
An Ecological
and a Spring
Restoration
Conversation

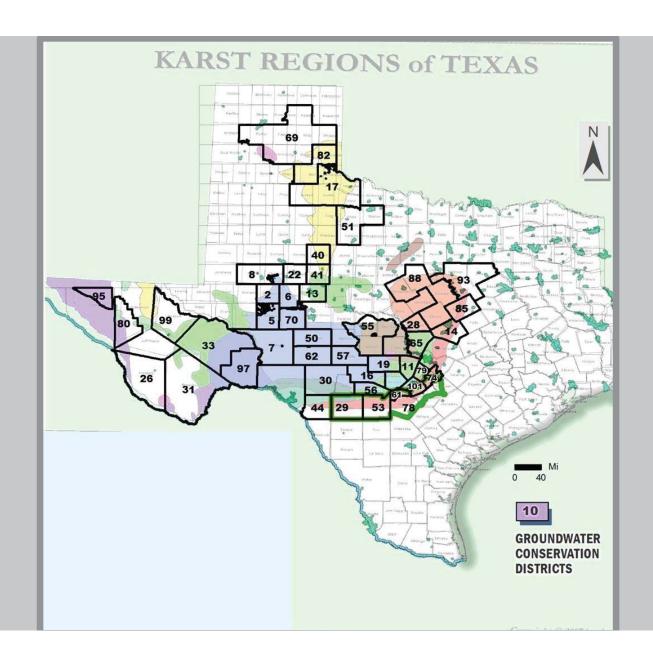
#### **Water Supply Enhancement**



#### The Texas Coastal Exchange: Buying and Selling Ecosystem Services



What About Creating
A Groundwater
District Takings
Defense Fund?
Or Just a
Groundwater District
Defense Fund?



#### **Lessons From The Texas Coast**

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- If you don't fight for it, you will lose it
- Today you fight with the legal system
- The worst case situation can and will happen
- Science is your friend
- Federal law is your friend
- The government likely is not your friend
- Be creative and do not fear failure
- •Just do it and we at TESPA will help you do it!!!!

