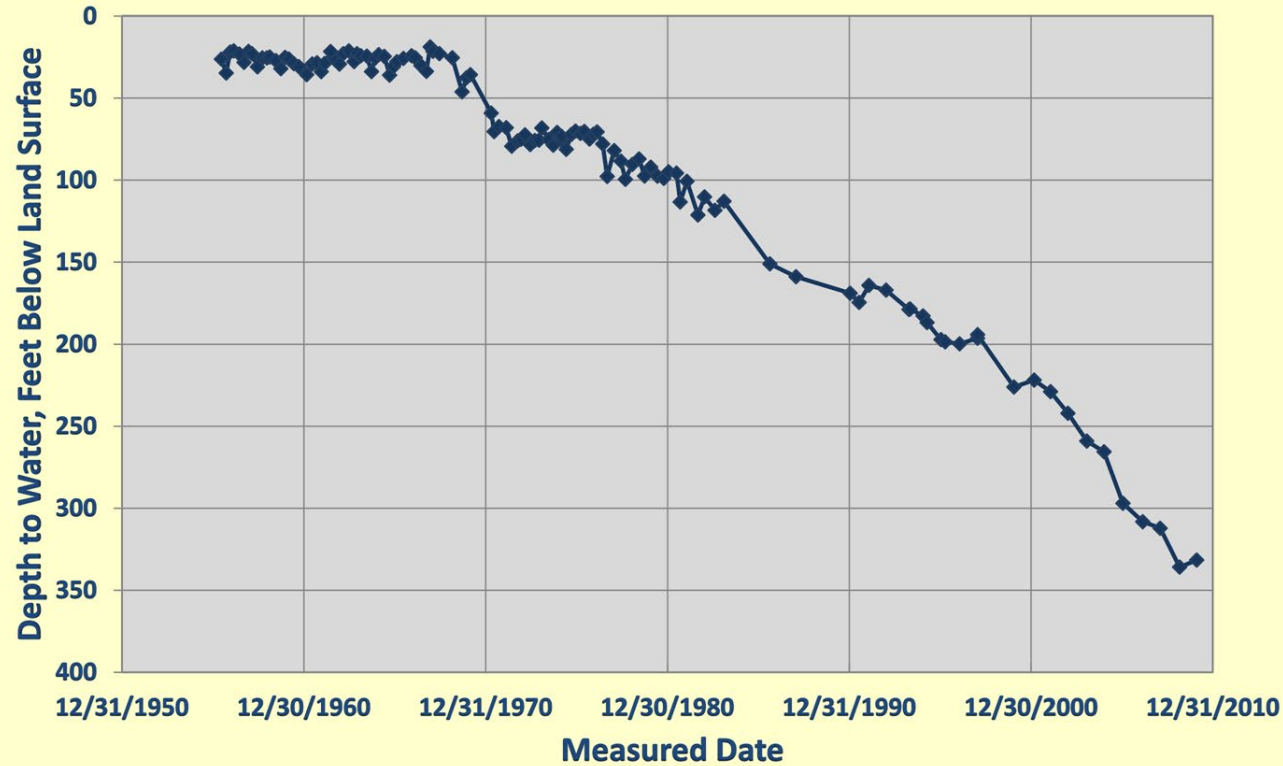
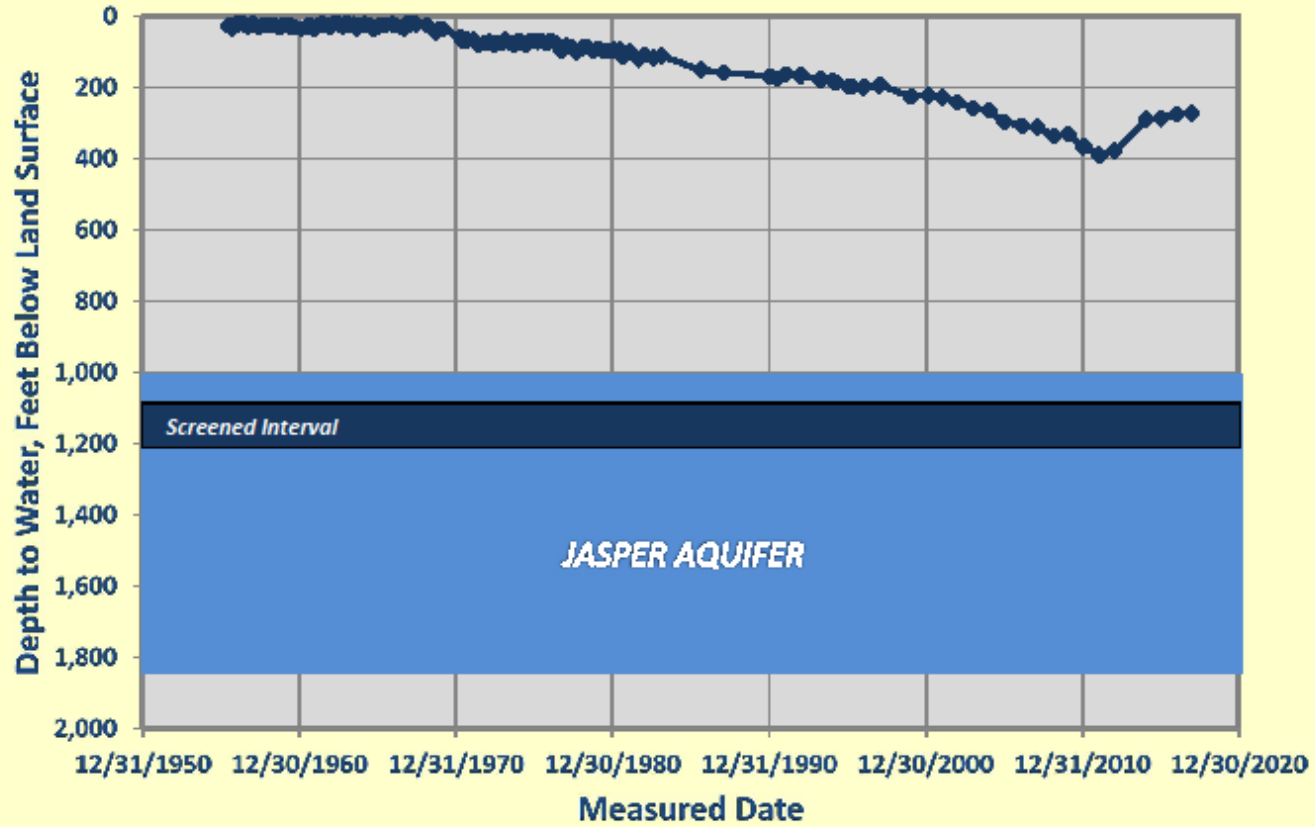
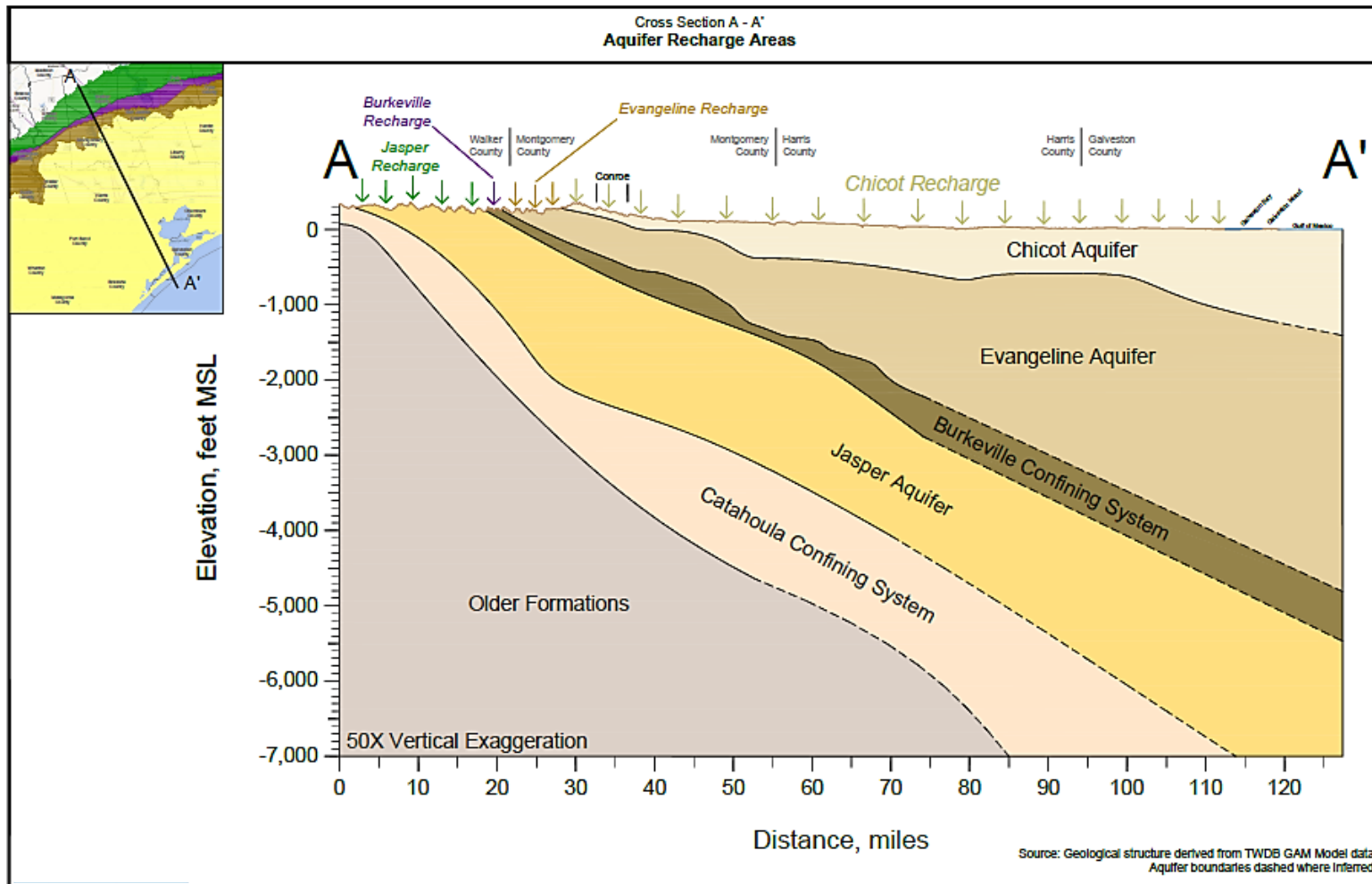


### 60-45-504 (City of Conroe) Hydrograph Jasper Aquifer, Upper Unit



### 60-45-504 (City of Conroe) Hydrograph Jasper Aquifer, Upper Unit

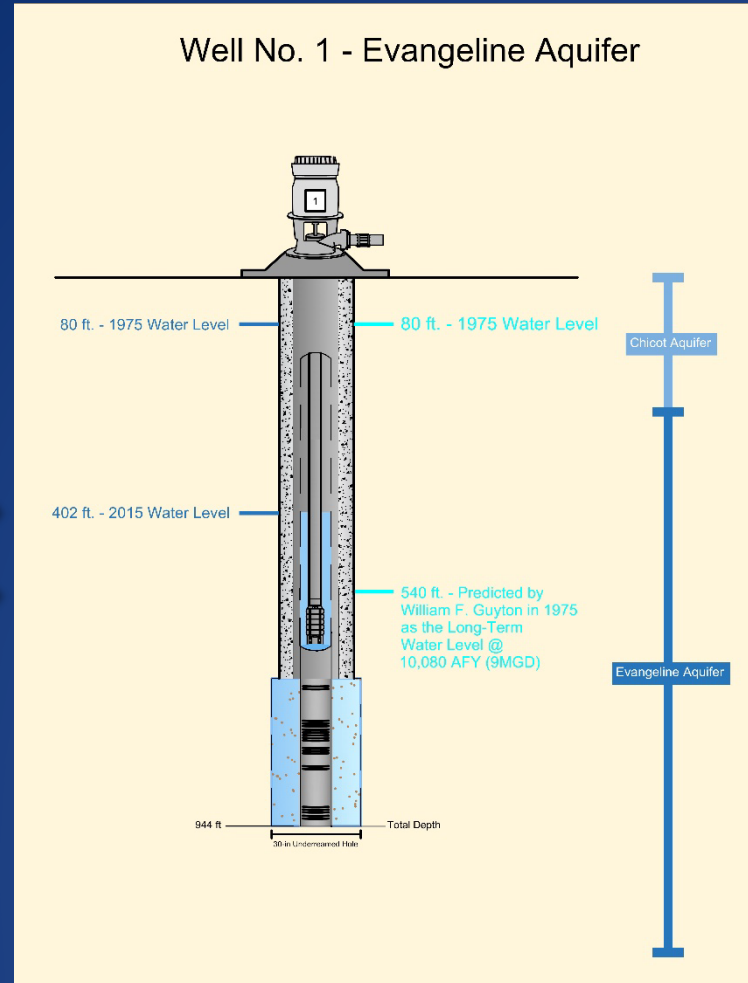




Predicted Pumping in  
Woodlands of 10,000 AFY

Actual Pumping Probably  
Close to Predicted

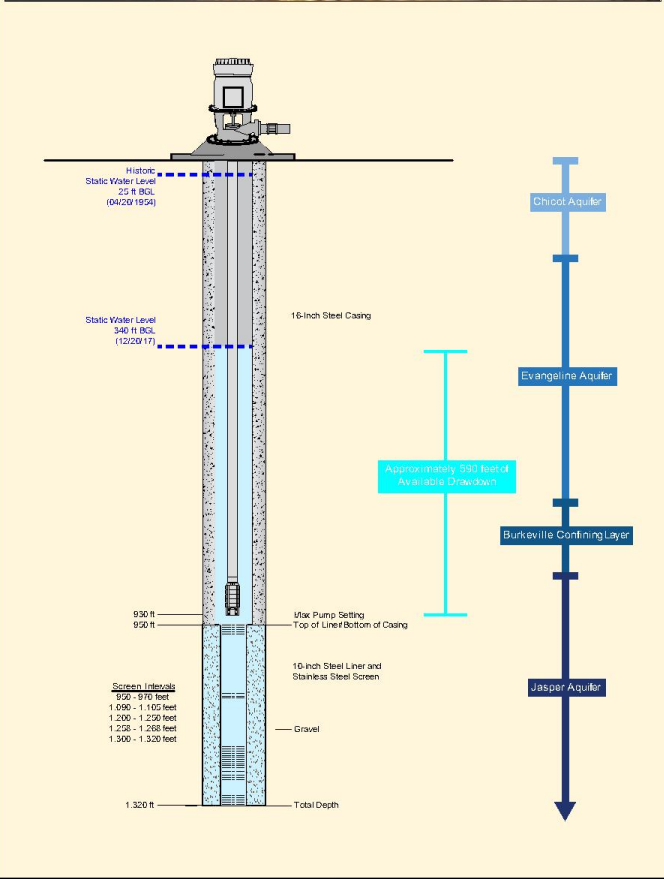
**ACTUAL** ➔  
**PREDICTED** ➔




**Guyton's  
Predictions were  
CONSERVATIVE**

SJRA – THE WOODLANDS – EVANGELINE AQUIFER WELL – State Well Number 60-53-709

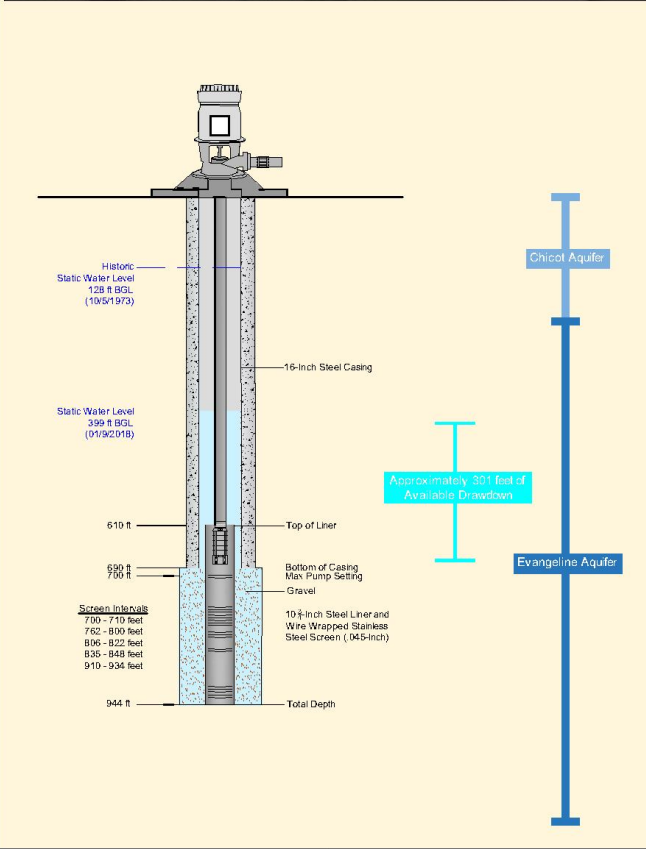
*City of Conroe*  
**Well Diagram**  
 Well Number 4 - Upper Jasper Aquifer  
 State Well Number 60-45-503




<b>Well Location</b>	<b>State Well Number: 60-45-503</b>
Location: 30° 18' 29" N, 095° 27' 24" W	 <small>Professional Hydrogeologists • Water Resources Specialists</small>

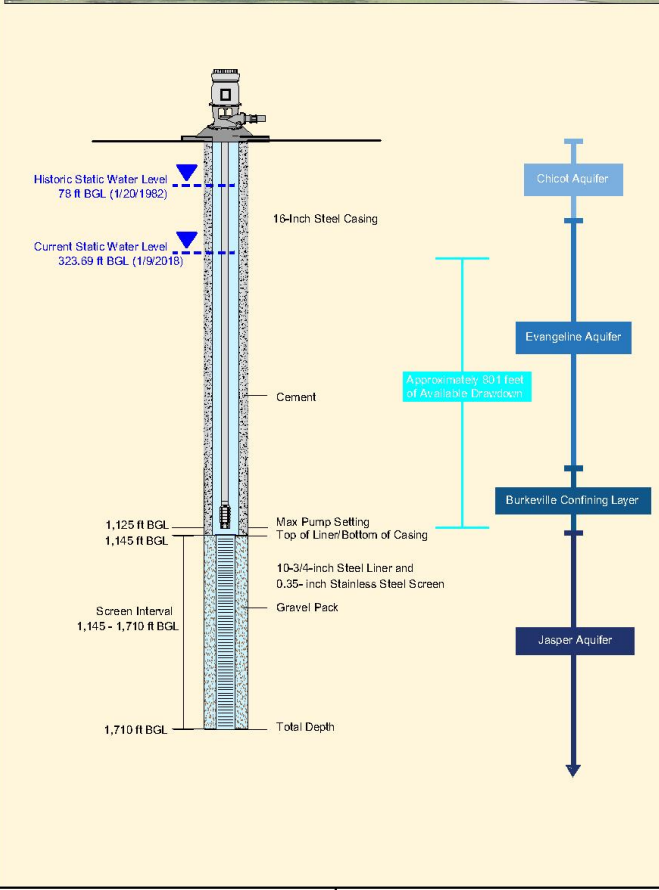



*The Woodlands*  
**Well Diagram**  
**SJRA Woodlands Well No. 1 - Evangeline Aquifer**  
**State Well Number 60-53-709**



<b>Location Summary</b>	<b>State Well Number 60-53-709</b>
Location: 30° 08' 24" N, 095° 27' 47" W	 Professional Hydrogeologists • Water Resources Specialists

*The Woodlands*  
**Well Diagram**  
**SJRA Well No. 2 - Jasper Aquifer**  
**State Well Number 60-53-713**



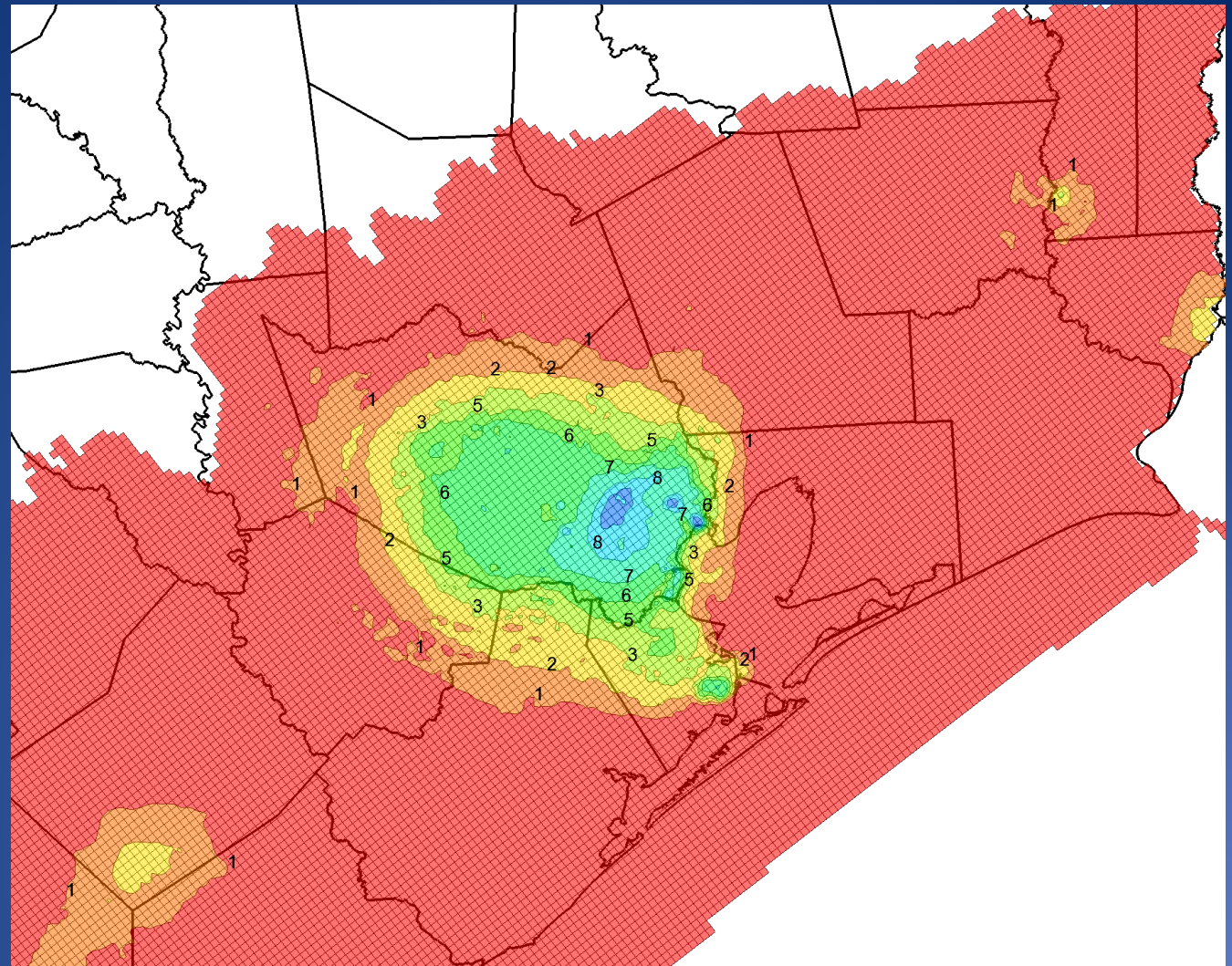
<b>Well Location</b>	<b>State Well No: 60-53-713</b>
<b>Location:</b> 30° 08' 27" N, 095° 27' 47" W	 Professional Hydrogeologists • Water Resources Specialists

Feet of Head	Per Thousand Gallons	Average Pumping Rate (Million Gallons Per Day)							
		1	2	5	10	15	20	25	30
100	\$0.06	\$20,075.00	\$40,150.00	\$100,375.00	\$200,750.00	\$301,125.00	\$401,500.00	\$501,875.00	\$602,250.00
200	\$0.11	\$40,150.00	\$80,300.00	\$200,750.00	\$401,500.00	\$602,250.00	\$803,000.00	\$1,003,750.00	\$1,204,500.00
300	\$0.16	\$58,400.00	\$116,800.00	\$292,000.00	\$584,000.00	\$876,000.00	\$1,168,000.00	\$1,460,000.00	\$1,752,000.00
400	\$0.21	\$76,650.00	\$153,300.00	\$383,250.00	\$766,500.00	\$1,149,750.00	\$1,533,000.00	\$1,916,250.00	\$2,299,500.00
500	\$0.26	\$94,900.00	\$189,800.00	\$474,500.00	\$949,000.00	\$1,423,500.00	\$1,898,000.00	\$2,372,500.00	\$2,847,000.00
600	\$0.31	\$113,150.00	\$226,300.00	\$565,750.00	\$1,131,500.00	\$1,697,250.00	\$2,263,000.00	\$2,828,750.00	\$3,394,500.00
700	\$0.36	\$131,400.00	\$262,800.00	\$657,000.00	\$1,314,000.00	\$1,971,000.00	\$2,628,000.00	\$3,285,000.00	\$3,942,000.00



	Debt Service	O&M	Power	Treatment	Total	Annual Cost
<b>1 MGD</b>						
\$1,000,000	\$0.21	\$0.11	\$0.26	\$0.15	\$0.73	\$267,491
\$5,000,000	\$1.06	\$0.21	\$0.26	\$0.15	\$1.68	\$613,697
\$7,500,000	\$1.59	\$0.83	\$0.26	\$0.15	\$2.83	\$1,033,460
\$10,000,000	\$2.12	\$1.11	\$0.26	\$0.15	\$3.64	\$1,328,063
<b>2 MGD</b>						
\$5,000,000	\$0.53	\$0.28	\$0.26	\$0.15	\$1.22	\$888,506
\$7,500,000	\$0.79	\$0.42	\$0.26	\$0.15	\$1.62	\$1,183,110
\$10,000,000	\$1.06	\$0.55	\$0.26	\$0.15	\$2.02	\$1,477,713
\$15,000,000	\$1.59	\$0.83	\$0.26	\$0.15	\$2.83	\$2,066,919
\$20,000,000	\$2.12	\$1.11	\$0.26	\$0.15	\$3.64	\$2,656,126
<b>5 MGD</b>						
\$5,000,000	\$0.21	\$0.11	\$0.26	\$0.15	\$0.73	\$1,337,456
\$10,000,000	\$0.42	\$0.22	\$0.26	\$0.15	\$1.06	\$1,926,663
\$20,000,000	\$0.85	\$0.44	\$0.26	\$0.15	\$1.70	\$3,105,076
\$30,000,000	\$1.27	\$0.67	\$0.26	\$0.15	\$2.35	\$4,283,488
\$50,000,000	\$2.12	\$1.11	\$0.26	\$0.15	\$3.64	\$6,640,314

# Total Land Surface Subsidence 1890-2010



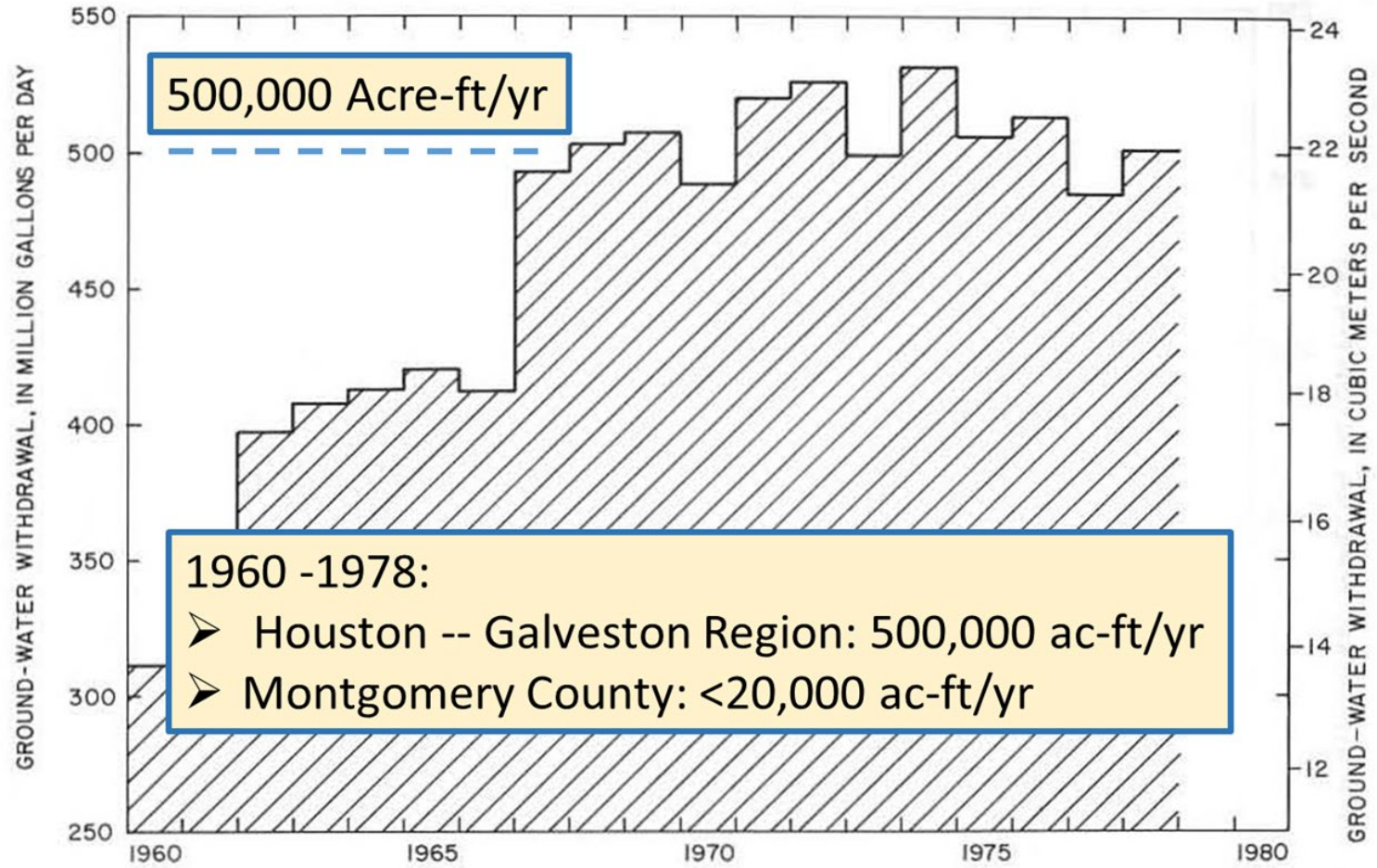
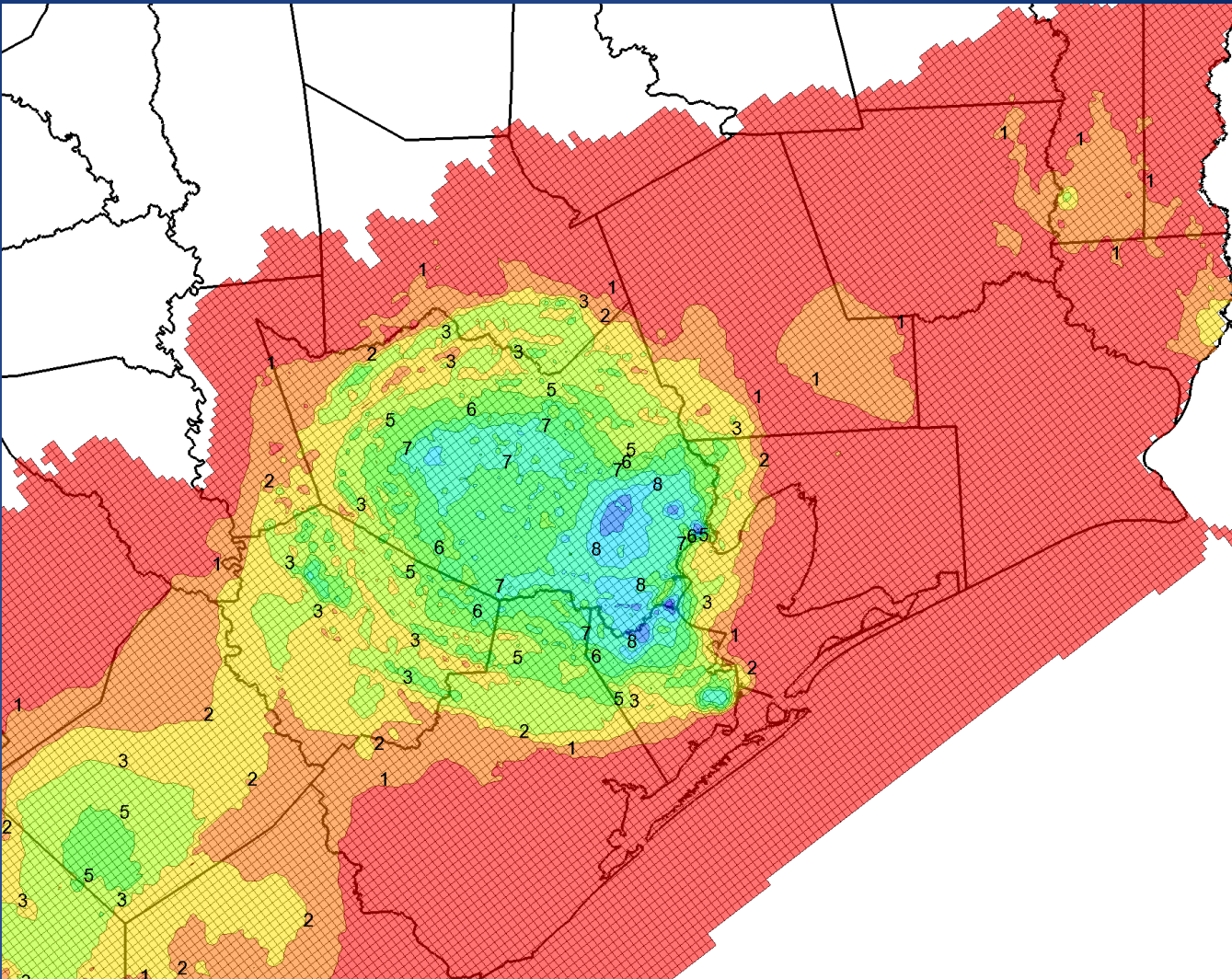


Figure 2.—Withdrawals of Ground Water in the Houston-Galveston Region, 1960-78



# Total Land Surface Subsidence 1890-2070



# Total Land Surface Subsidence 2010-2070

