

Figure 2.3.1-1 Site Map of STP 3 &amp; 4

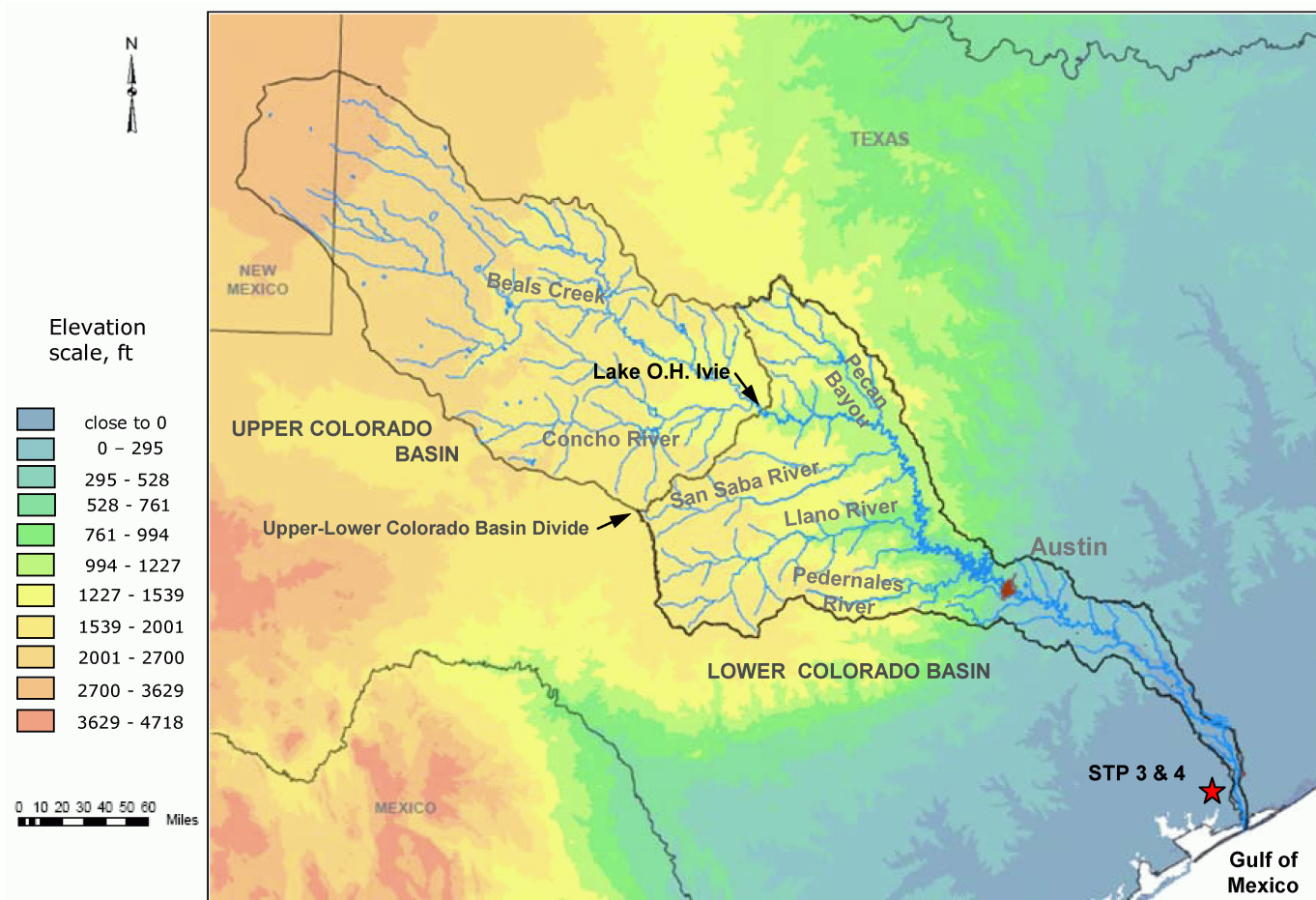


Figure 2.3.1-2 The Colorado River Basin (Reference 2.3.1-2)



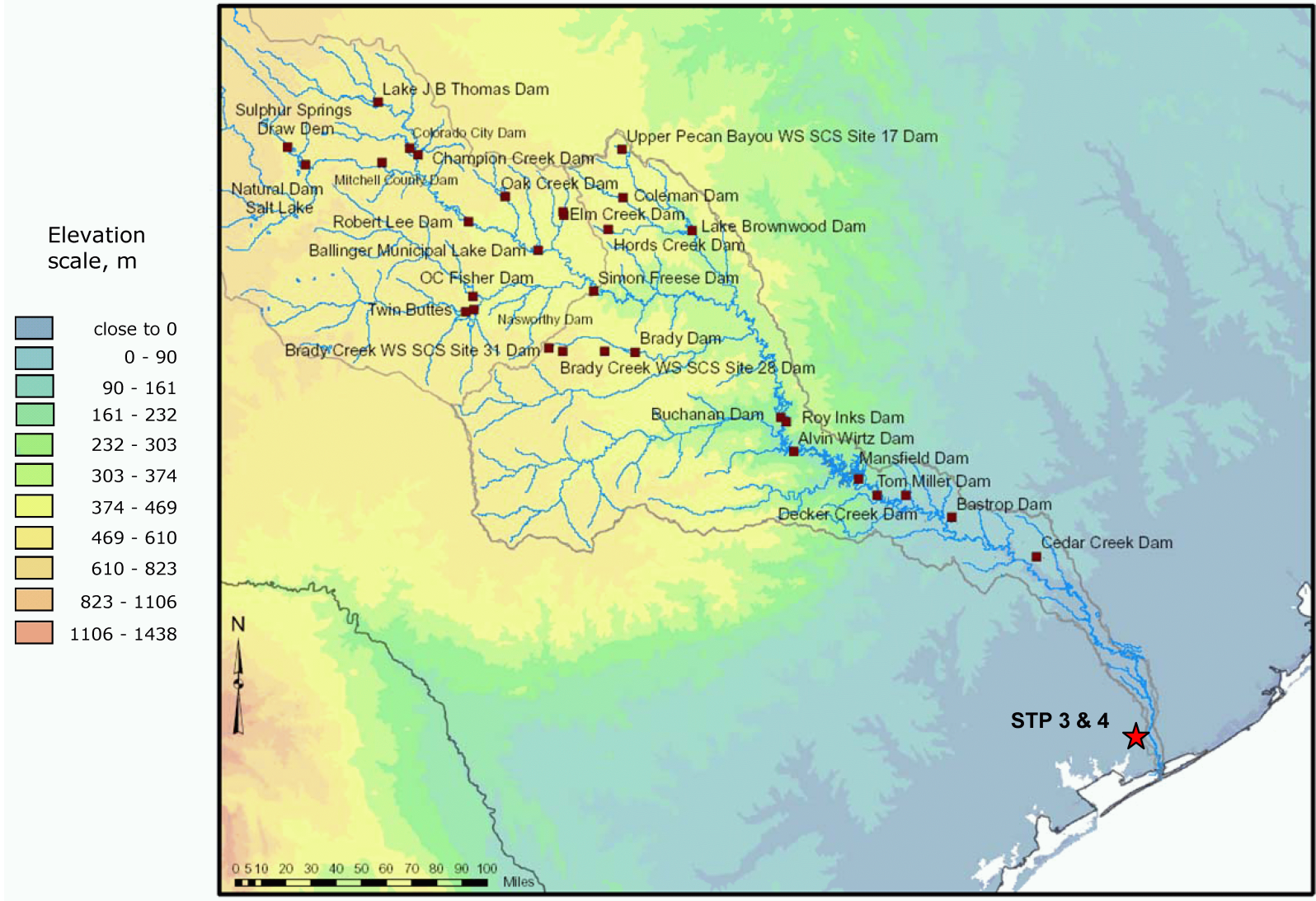


Figure 2.3.1-3 Major Dams in the Colorado River Basin (Location of Dams from Reference 2.3.1-4)

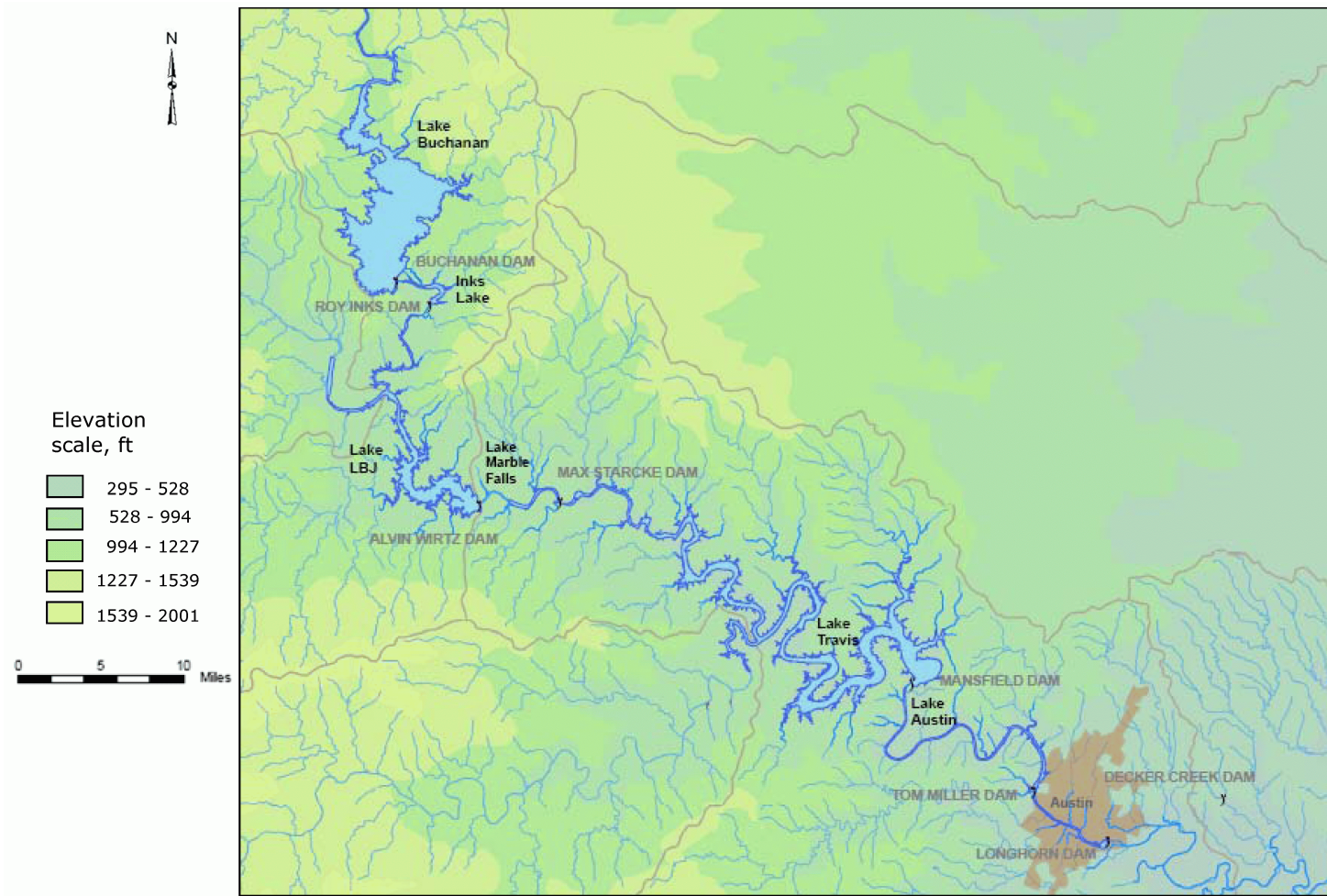


Figure 2.3.1-4 The Highland Lakes and Dams in the Lower Colorado River Basin (Reference 2.3.1-5)



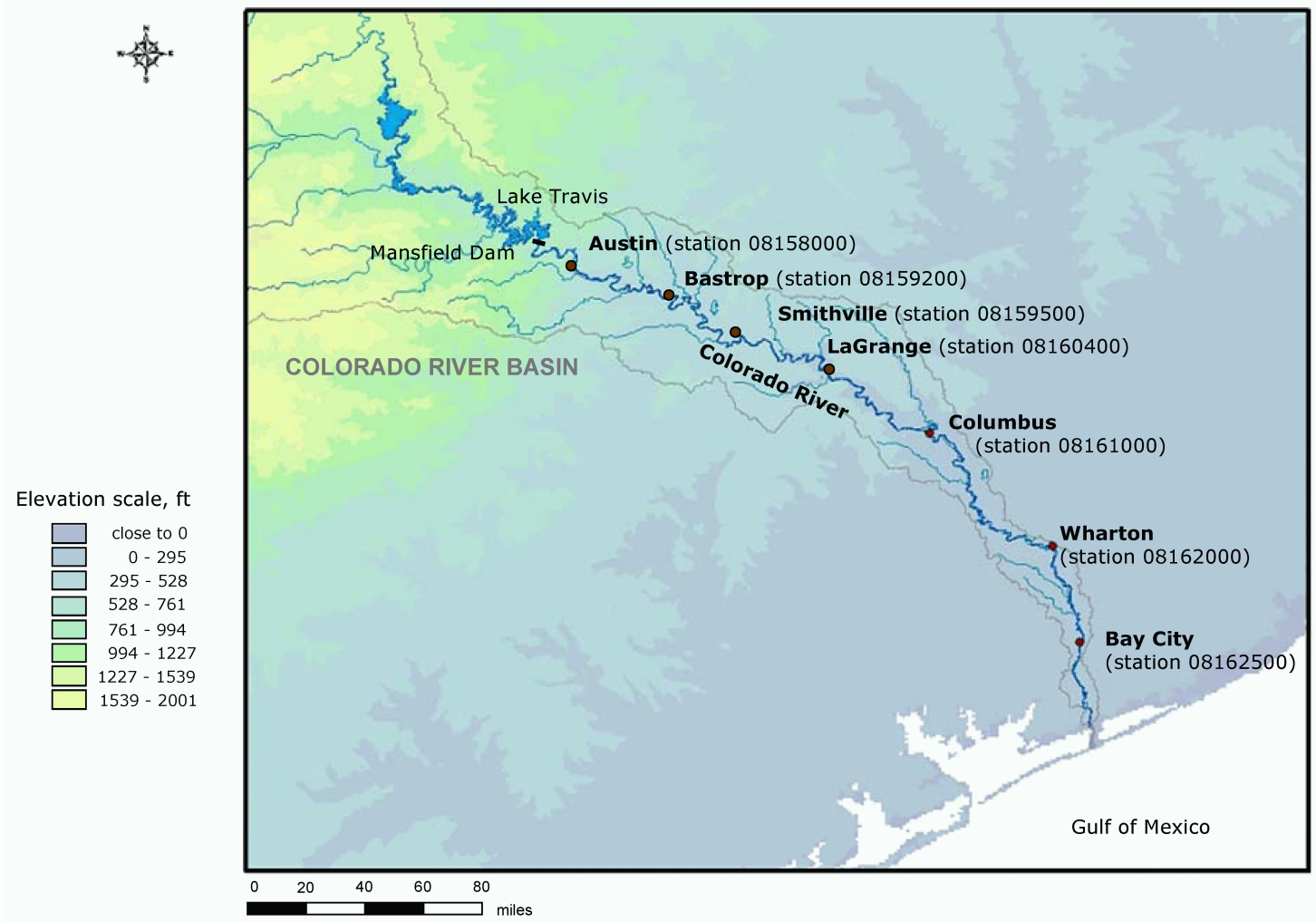


Figure 2.3.1-5 Colorado River Streamflow Gauging Stations Downstream of Mansfield Dam (Reference 2.3.1-6)

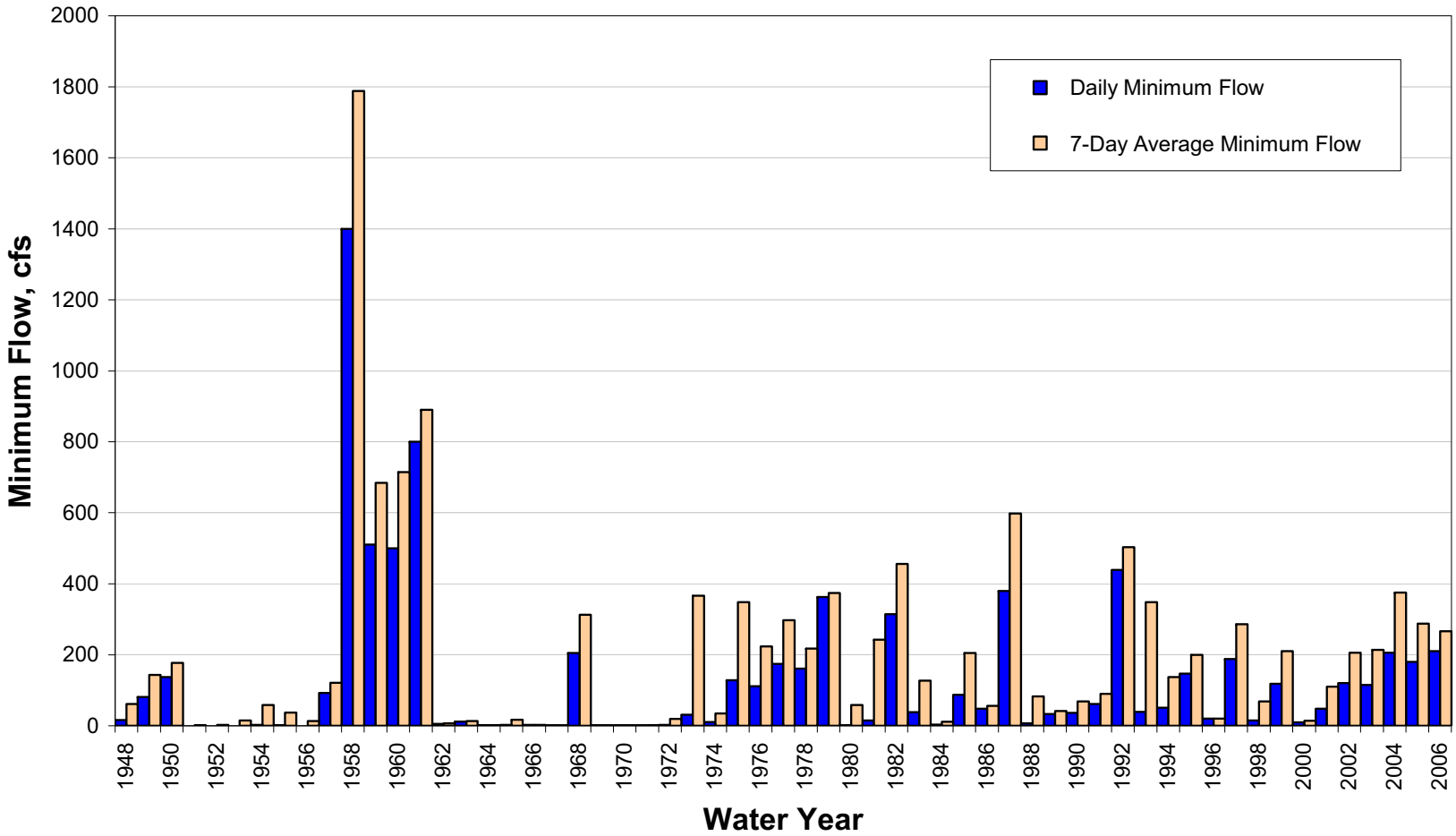


Figure 2.3.1-6 Minimum Daily and 7-Day Flow at Bay City for the Period 1948-2006 (Reference 2.3.1-10)



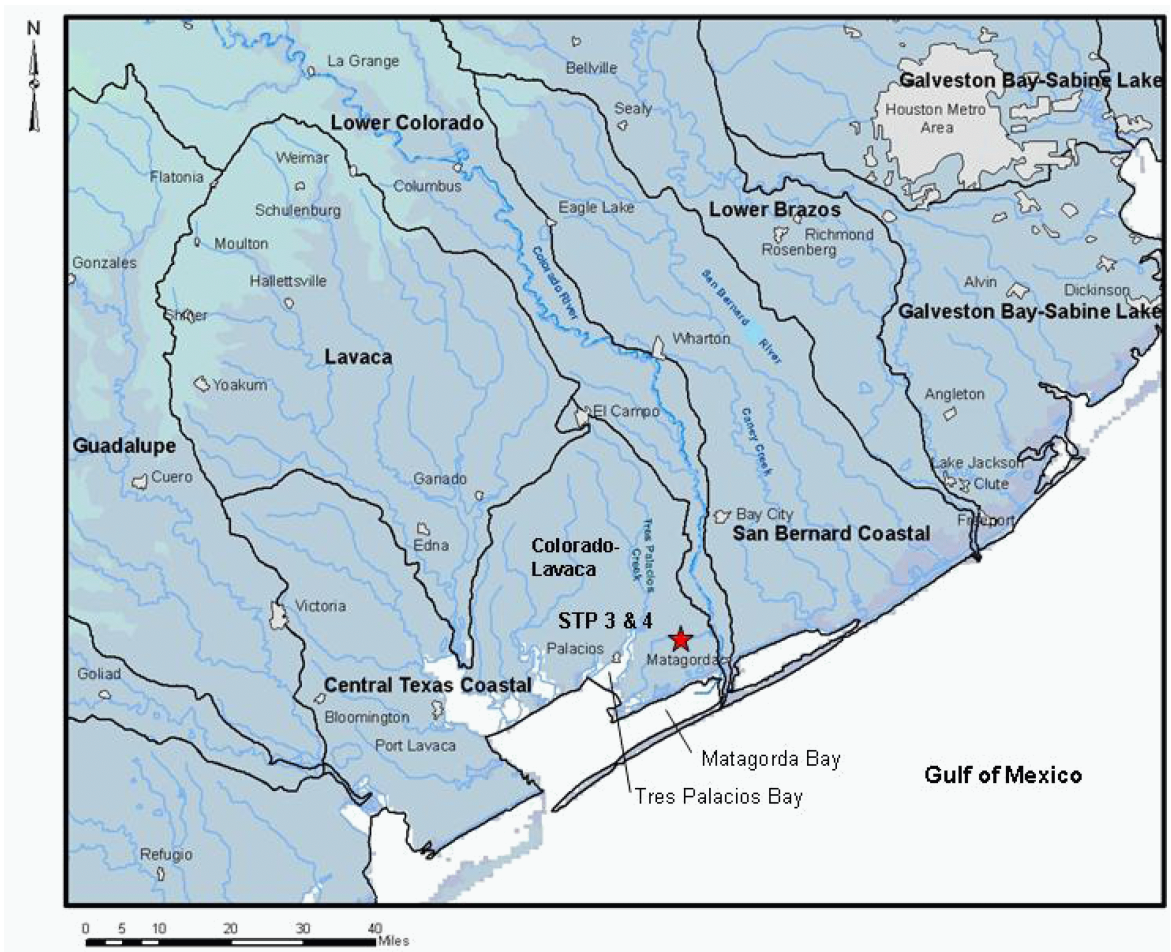


Figure 2.3.1-7 River Basin Map of Texas (Reference 2.3.1-41)

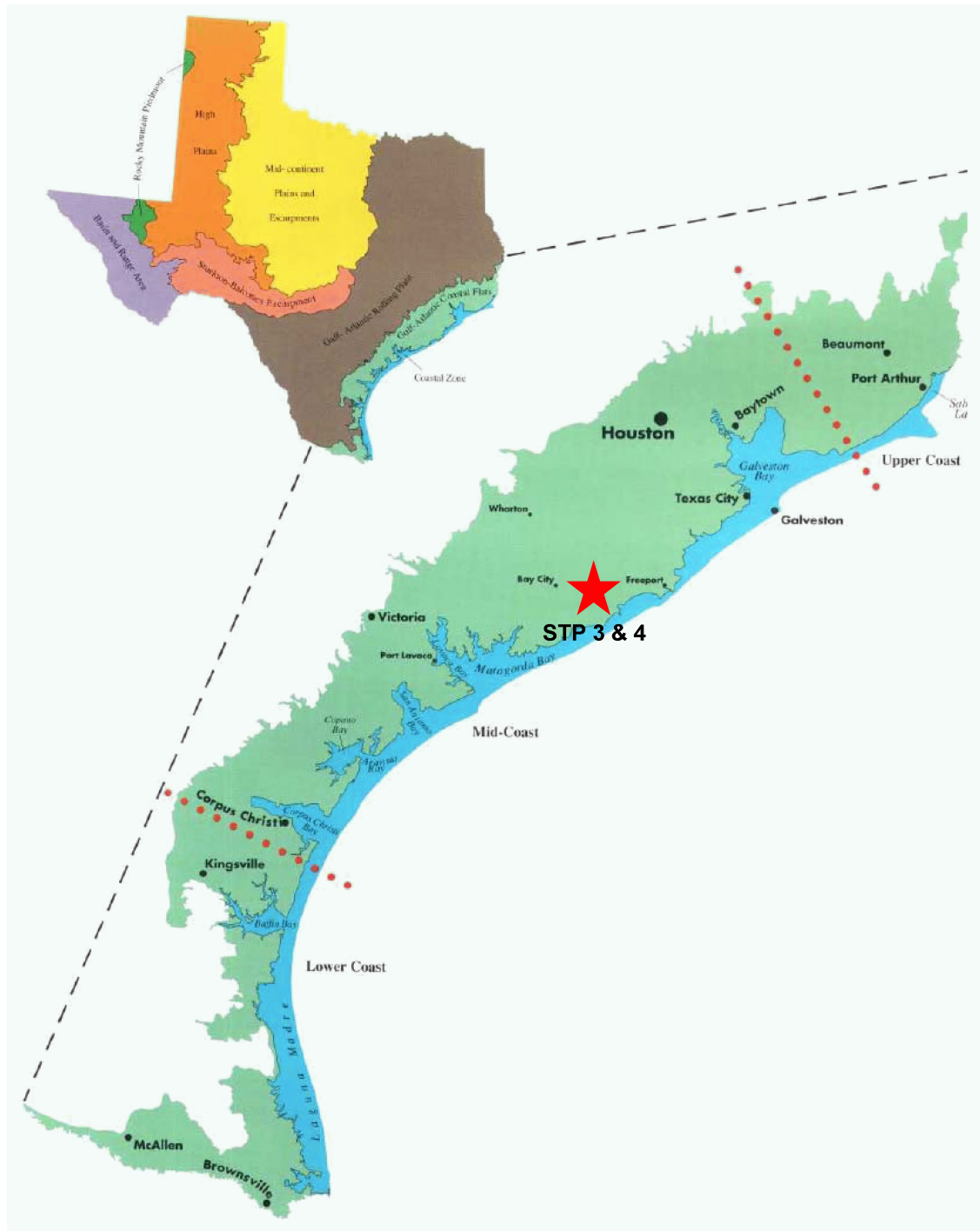


Figure 2.3.1-8 Texas Coastal Wetland Study Area (Reference 2.3.1-13)



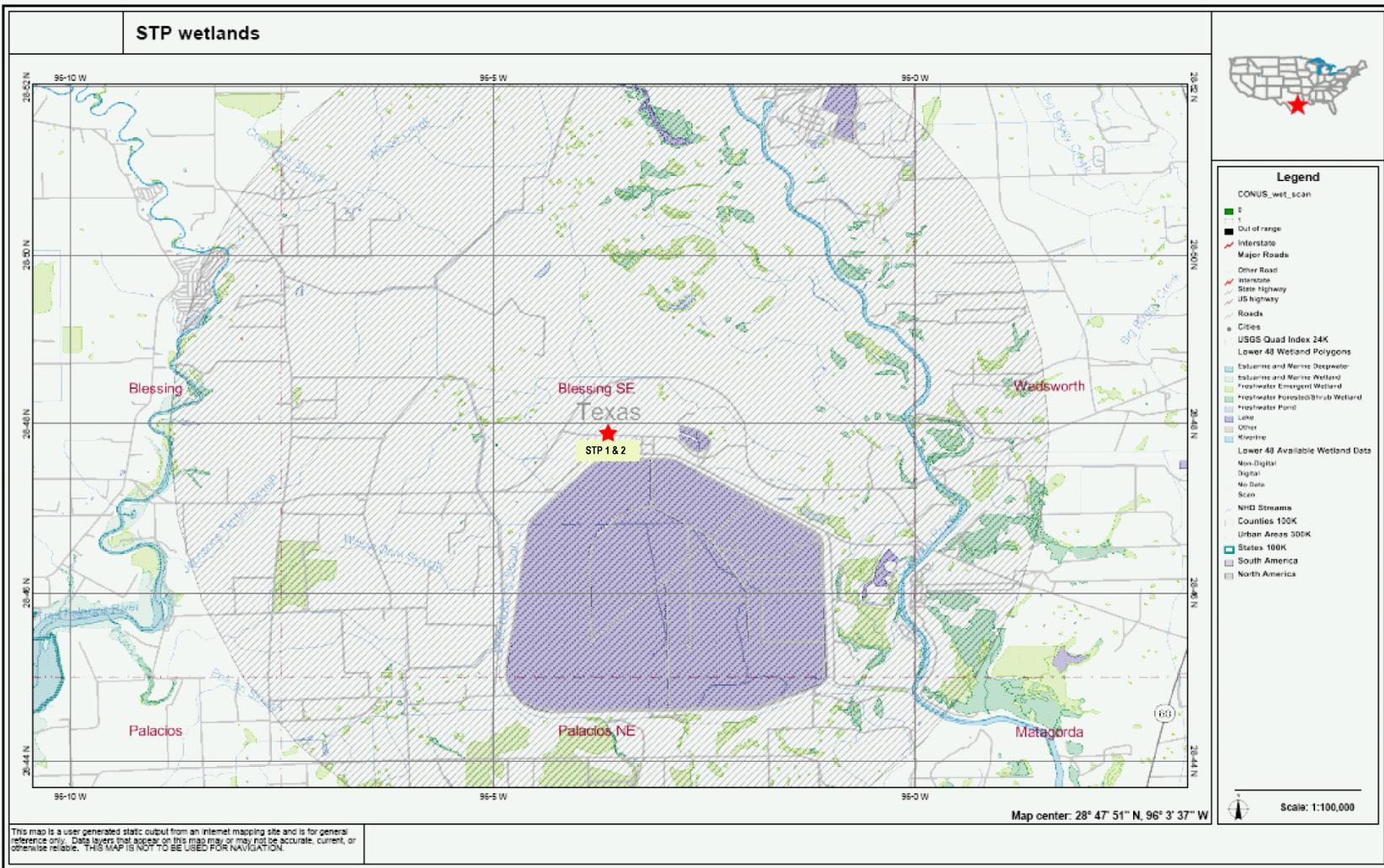


Figure 2.3.1-9 Wetland Distribution within 6 Mile Radius of STP 3 & 4 (Reference 2.3.1-15)

2.3.1-82

Hydrology

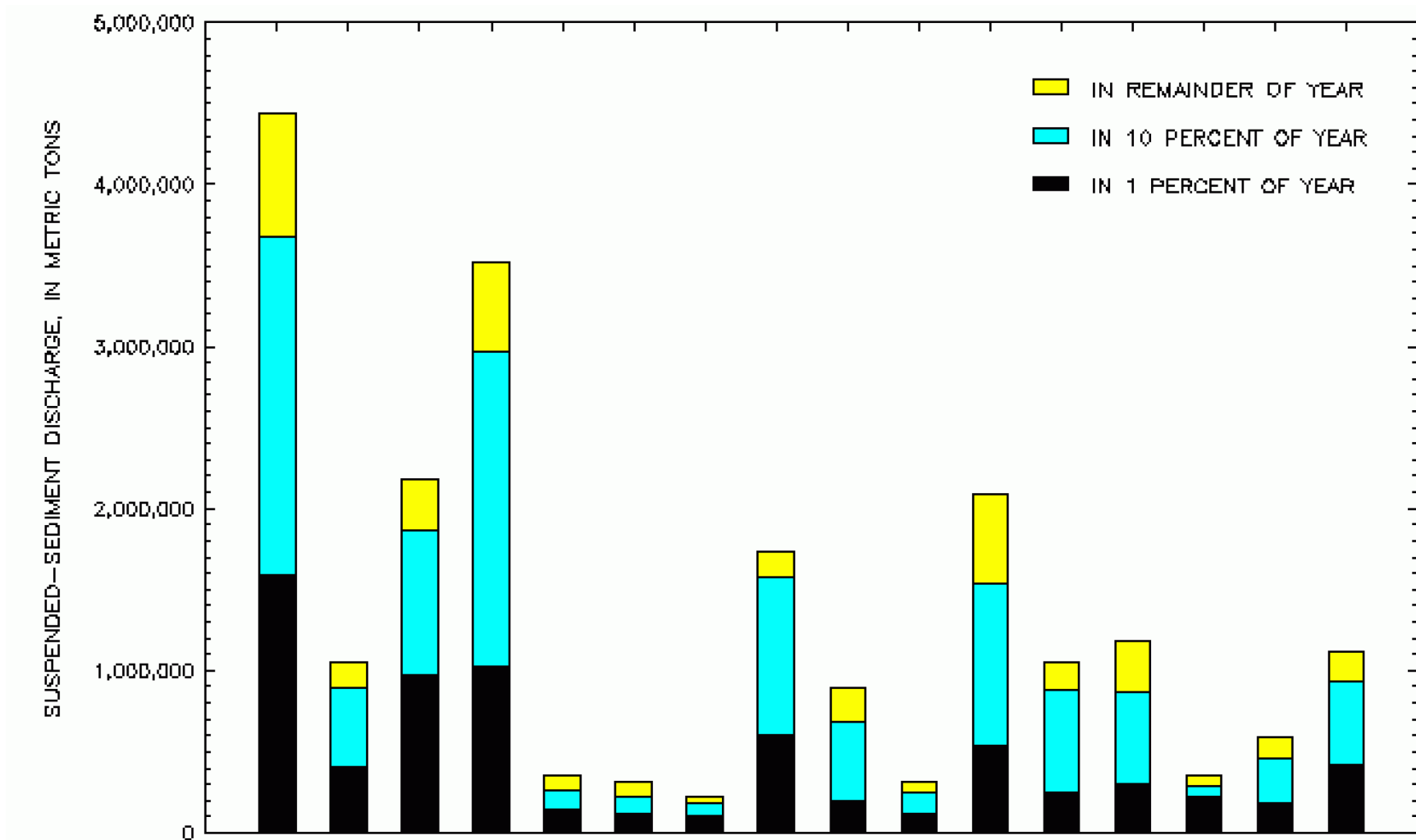
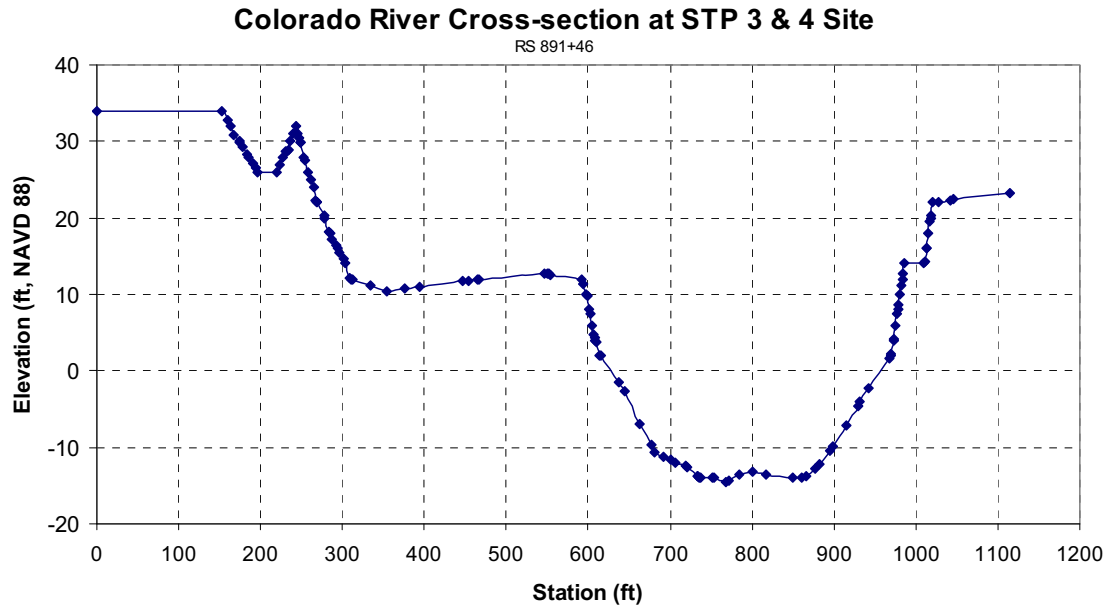


Figure 2.3.1-10 Histogram of Suspended Sediment Load Data on the Colorado River at Columbus Station (Reference 2.3.1-16)





**Figure 2.3.1-11 Cross Section of the Colorado River Channel near the Intake Structure**

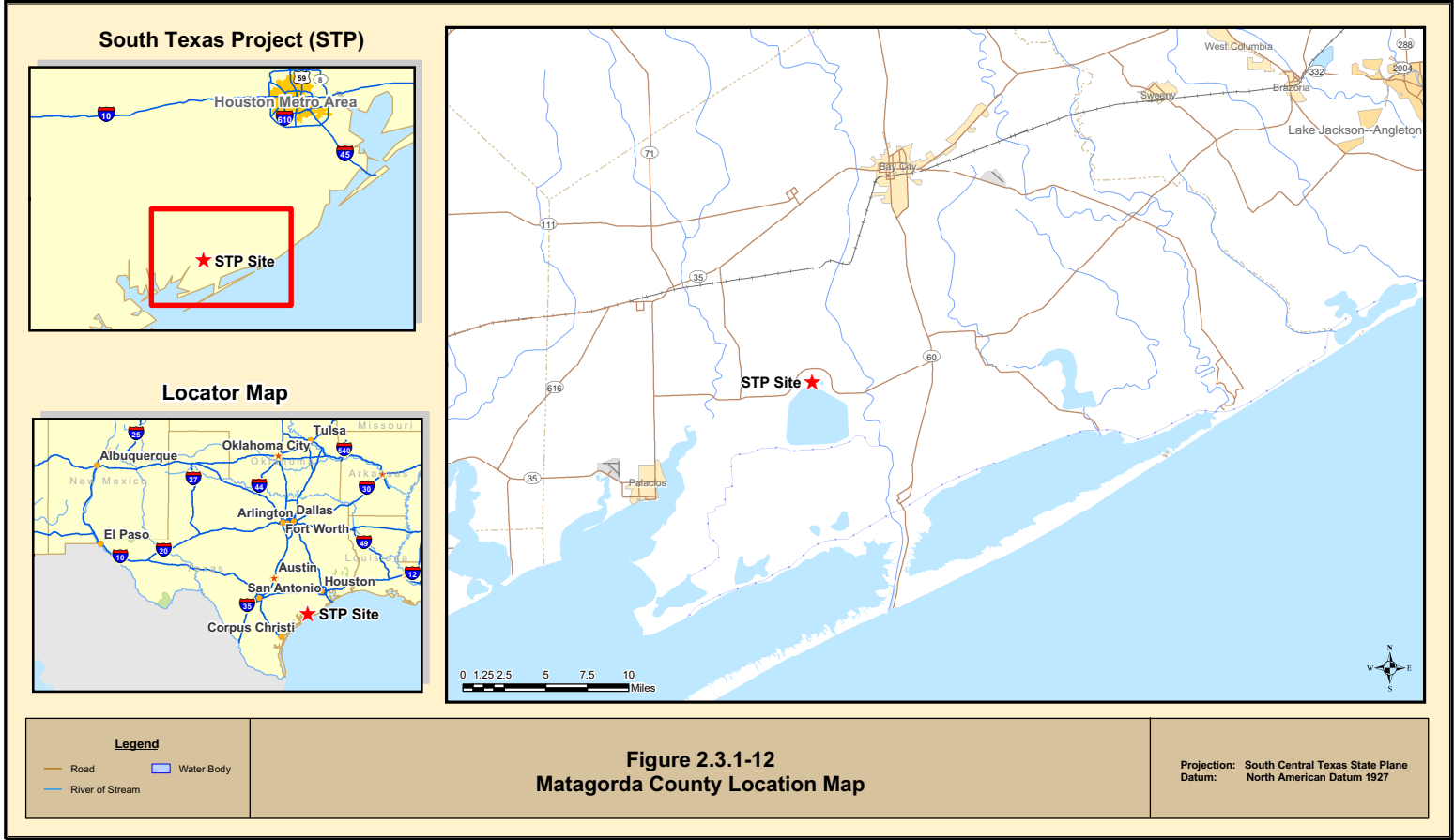


Figure 2.3.1-12 Matagorda County Location Map

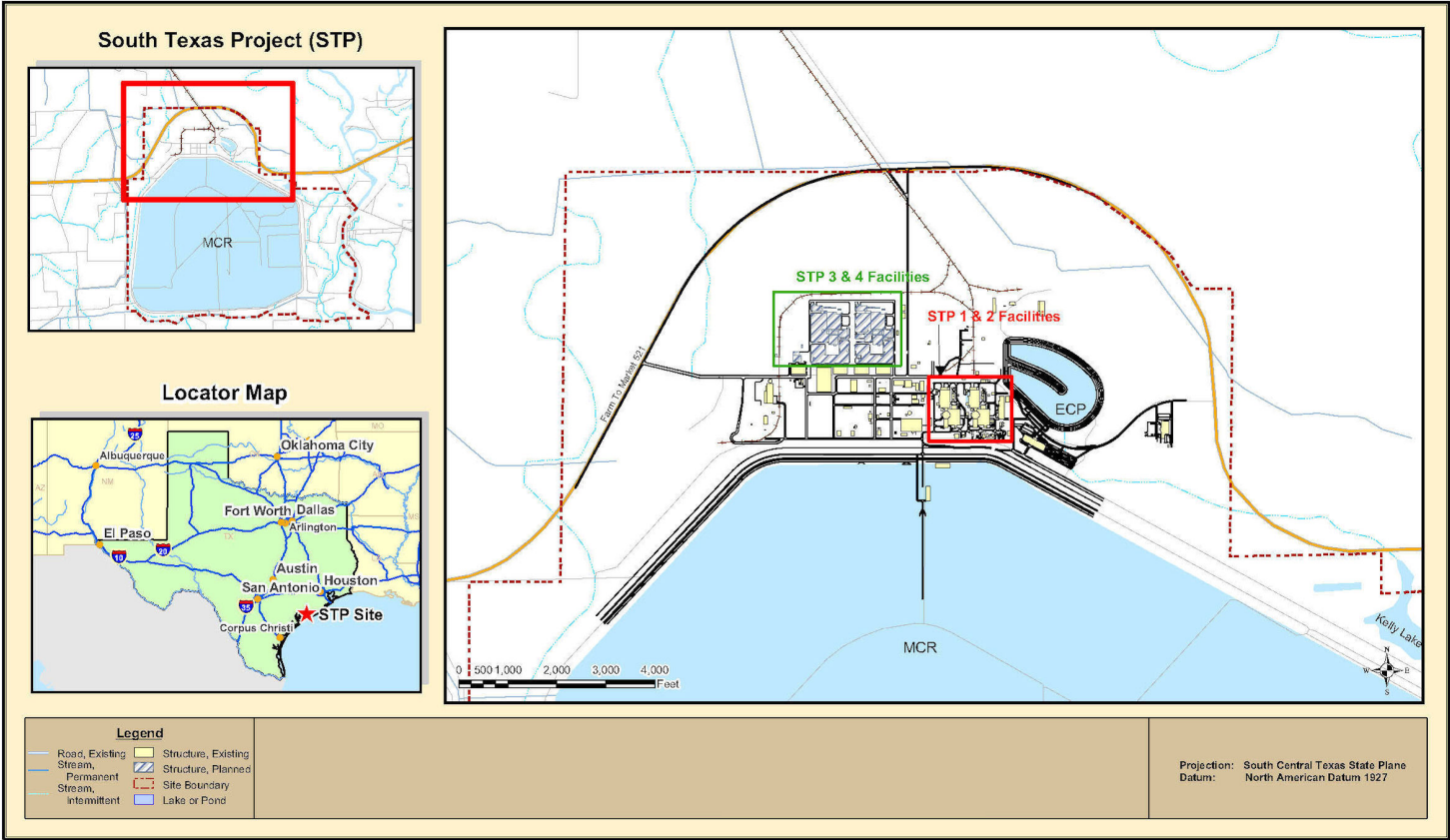


Figure 2.3.1-13 STP Facility Location Map



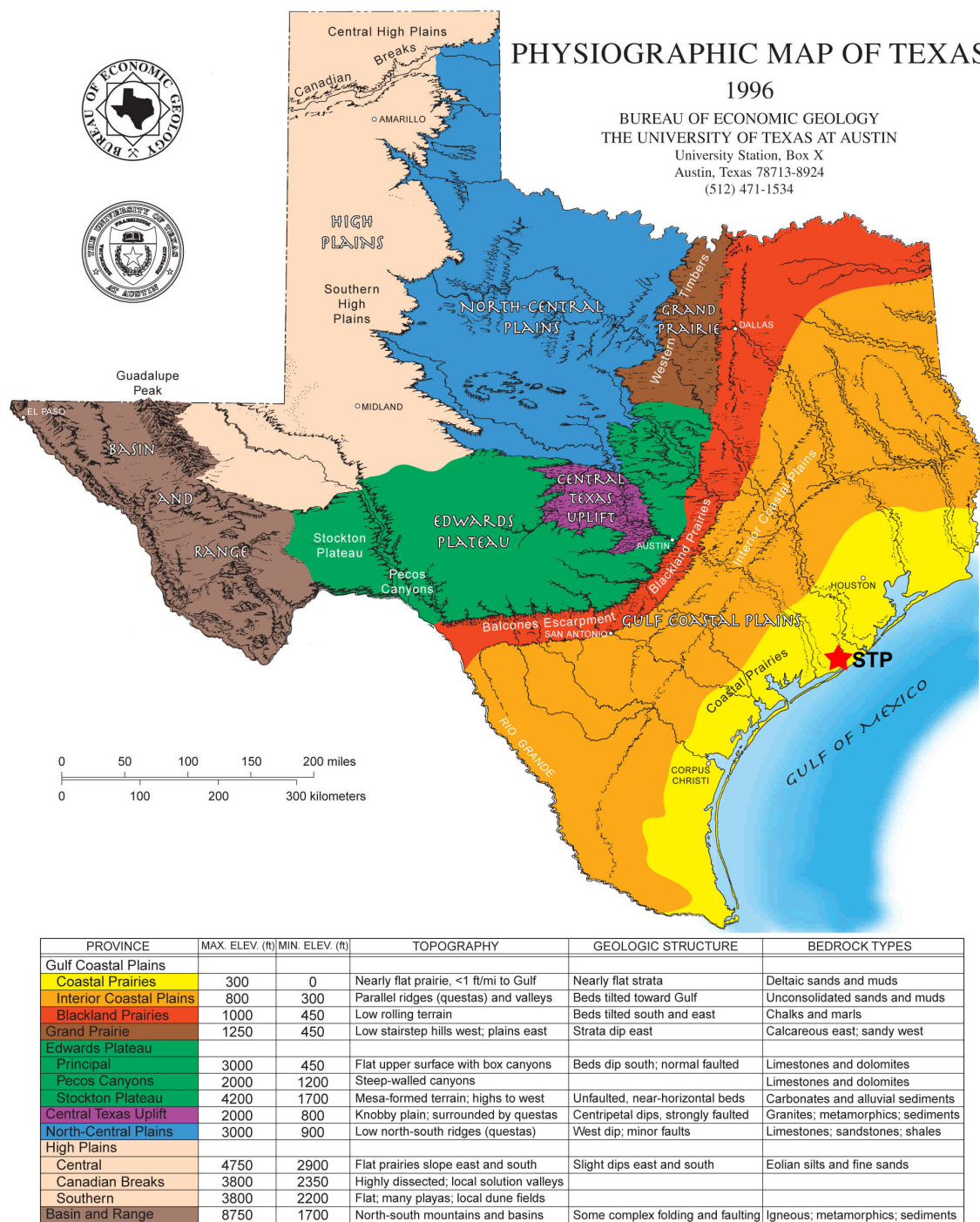


Figure 2.3.1-14 Physiographic Map of Texas (modified from Reference 2.3.1-20)

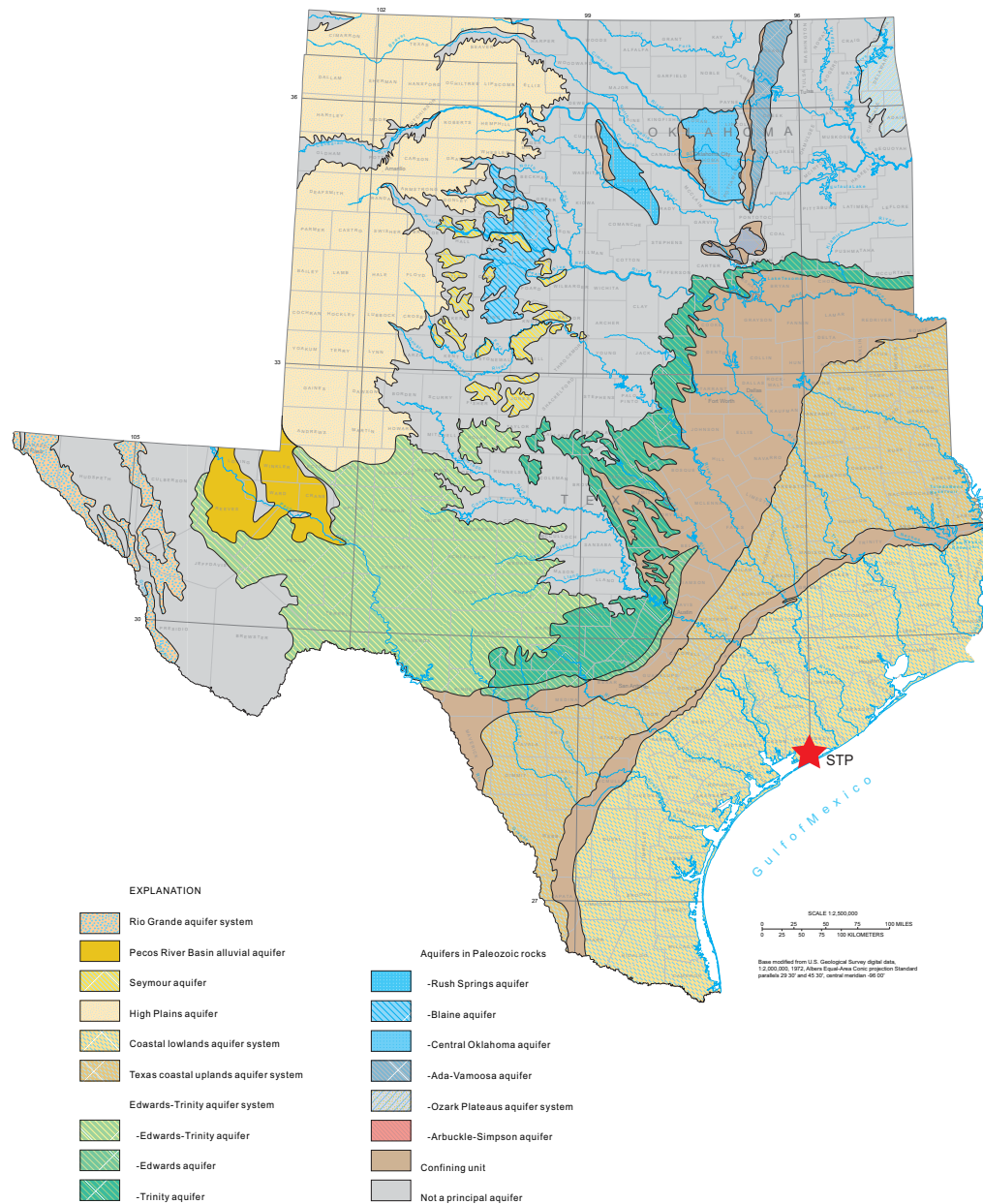


Figure 2.3.1-15 Aquifers of Texas (modified from Reference 2.3.1-21)

Era	System	Series	Stratigraphic unit Modified from Baker, 1979	Lithology	Hydrogeologic unit commonly used in Texas Modified from Baker, 1979	Hydrogeologic nomenclature used in this report Modified from Weiss, 1992	
Cenozoic	Quaternary	Holocene	Alluvium		Chicot aquifer	Permeable zone A	Coastal lowlands aquifer system
		Pleistocene	Beaumont Formation Montgomery Formation Bentley Formation Willis Sand	Sand, silt, and clay		Permeable zone B	
				Sand, silt, and clay		Permeable zone C	
	Tertiary	Pliocene	Goliad Sand	Sand, silt, and clay	Evangeline aquifer	Permeable zone C	
		Miocene	Fleming Formation	Clay, silt and sand	Burkeville confining unit	Zone D confining unit [1]	
			Oakville Sandstone				
			Catahoula Sandstone or Tuff [2]	Sand, silt, and clay	Catahoula confining unit (restricted)	Permeable zone D	
			Anahuac Formation [1]	Clay, silt and sand		Zone E confining unit [1]	
			Frio Formation [1]	Sand, silt, and clay		Permeable zone E	
		Oligocene	Frio Clay [3]	Vicksburg Formation [1]	Vicksburg-Jackson confining unit	Vicksburg-Jackson confining unit	
		Eocene	Jackson Group Whitsett Formation Manning Clay Wellborn Sandstone Caddell Formation	Clay and silt			

[1] Present only in the subsurface

[2] Called Catahoula Tuff west of Lavaca County

[3] Not recognized at surface east of Live Oak County

**Figure 2.3.1-16 Correlation of USGS and Texas Nomenclature (modified from Reference 2.3.1-2)**