

Wyatt Chapel Community Cemetery Prairie View, TX



flickr.com/.../texashistoricalmarkers/400159517/

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Archives Research



- key names associated with the cemetery
- documentation of historic flooding to confirm the oral history of headstones being washed away
- documentation of any epidemics or outbreaks

History of Flooding

Two major flooding events of the Brazo's River could have affected the Wyatt Chapel Cemetery area.

- July 2, 1899 The river crested near Hempstead at 63.6'. The overflow affected 66,000 sq. miles. Property damage was estimated at \$9 million. The highest crest was recorded at Hearne, Texas.
- December 1-5, 1913 The river was at flood stage when 20-25 additional inches of rain fell. The river crested at Hempstead on Dec. 8, 1913 at 66.1'. The flood waters were up to 12 miles wide. This flood was more severe than the 1899 flood.

http://lifeonthebrazosriver.com/Floods.htm Flash Floods of Texas by Jonathan Burnett; Texas A&M University Press

Geology

The site studied is located on the Pleistocene Willis Formation. This formation consists of fluvial sands deposited before the last Ice Age. This sand layer runs around 3-6 ft deep and varies.



odu.edu/ /session 09/handout.ht

The underlying clay layer was formed during the Tertiary time (around 20 mya) and is known as the Tertiary Fleming Clay. The clay is very hard and would be extremely difficult to dig through without modern machinery.

Henning, Alison T. et.al.; Journal of History and Culture 2008; Using Science to Uncover History: A Geophysical Investigation of Wyatt Chapel Cemetery; page 51.

Field Work

GPR

(Ground Penetrating Radar) •Radar shows disturbances & anomalies in the stratigraphy of the soil.

GPS

 (Global Positioning System)
GPS is used to record the actual geographic locations of points of interest.



Integration of GPS & GPR Data



GPR Lines Find Anomaly!! July 22, 2009

Line 21



Line 22

0	20	40	60 I	80
200	×=			
2				
			and a second	

Excavation of Trench



Pebble



Beginning of Clay Layer Intersection of GPR lines 21 & 22

- Several items of interest were discovered.
 - Broken glass ~ 12 inches below
 - Assorted tree roots & organic material ~ 18-36 inches
 - Pebbles ~ 41 inches
 - Cobbles ~ 48 -66 inches
- Primarily found reddish Brazos River sand.
 - Tertiary clay layer found at 66 inches.

Piecing it all together:

Fluvial Interfaces

 Possible evidence of a flooding event was uncovered at depths of 56 & 58 inches.

 These events probably occurred several thousands of years ago.





Conclusion



- All evidence of the anomaly found at the intersection of lines 21 and 22 point towards natural causes.
- Based on historic records of Brazos River flooding, we can interpret what may have occurred over several thousands of years.
- Additional GPR lines and excavations are recommended closer to the creek bed.