



PROJECT BRAZOS- ADDRESSING BRAZOS RIVER EROSION



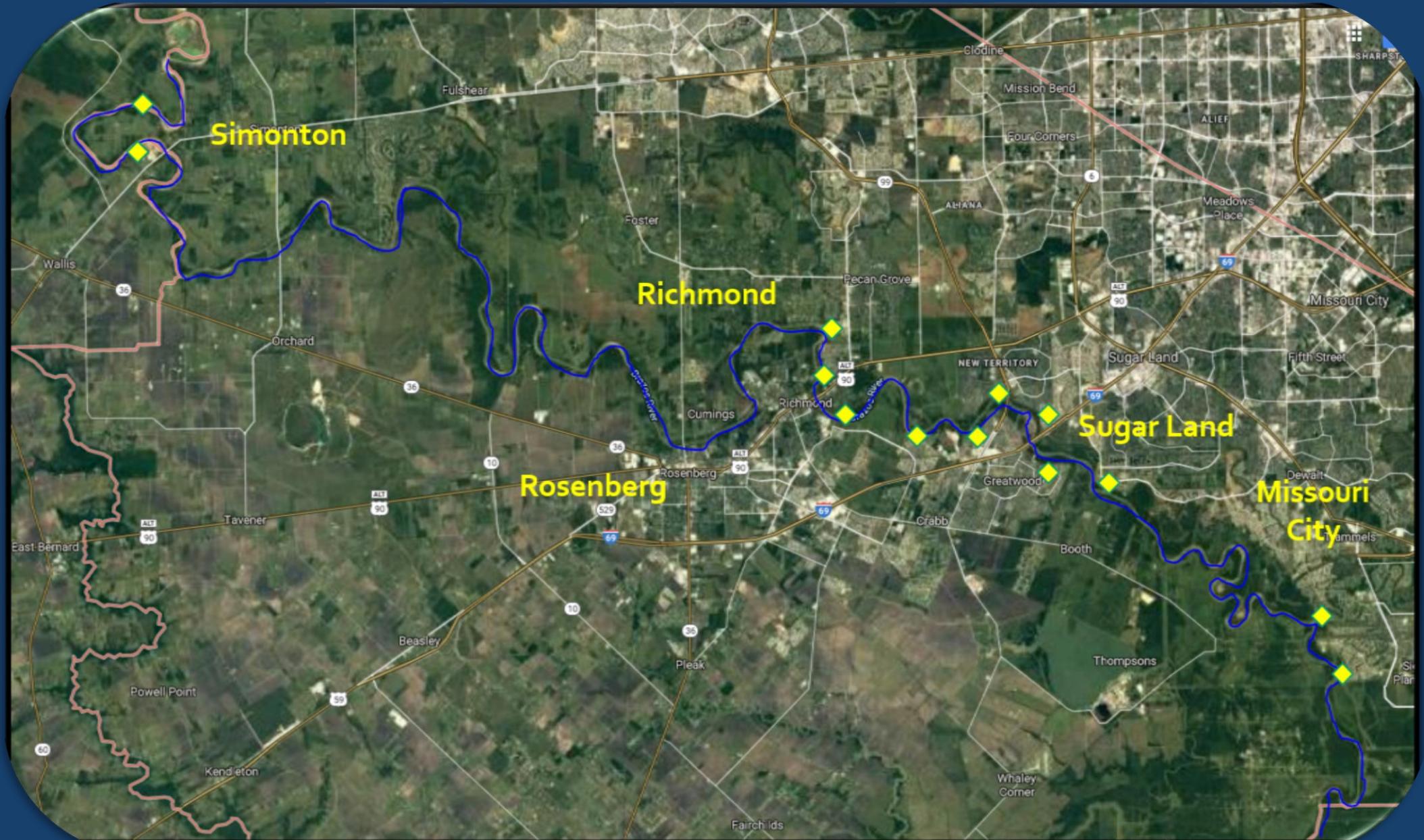
KEN R.
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Fort Bend County - Precinct 4

HUITT-ZOLIARS

13 CRITICAL EROSION AREAS ALONG 89 MILES OF RIVER COUNTY AND REGION WIDE IMPACT



13 Critical Erosion
Areas



PROJECT BRAZOS- STAKEHOLDERS*

County

- Fort Bend County
- FBC Drainage District
- FB Toll Road Authority
- Surrounding Counties

City

- Sugar Land
- Simonton
- Richmond
- Rosenberg
- Missouri City

Special Districts

- Levee Improvement Districts # 6,7, 10, 11, 17, Sienna Plantation
- Municipal Utility Districts # 121, 140

Other

- Texas Dept. of Transportation
- Gulf Coast Water Authority
- Center Point Energy
- Union Pacific Rail Road
- US Army Corps of Engineers – ERDC and Galveston District
- Brazos River Authority

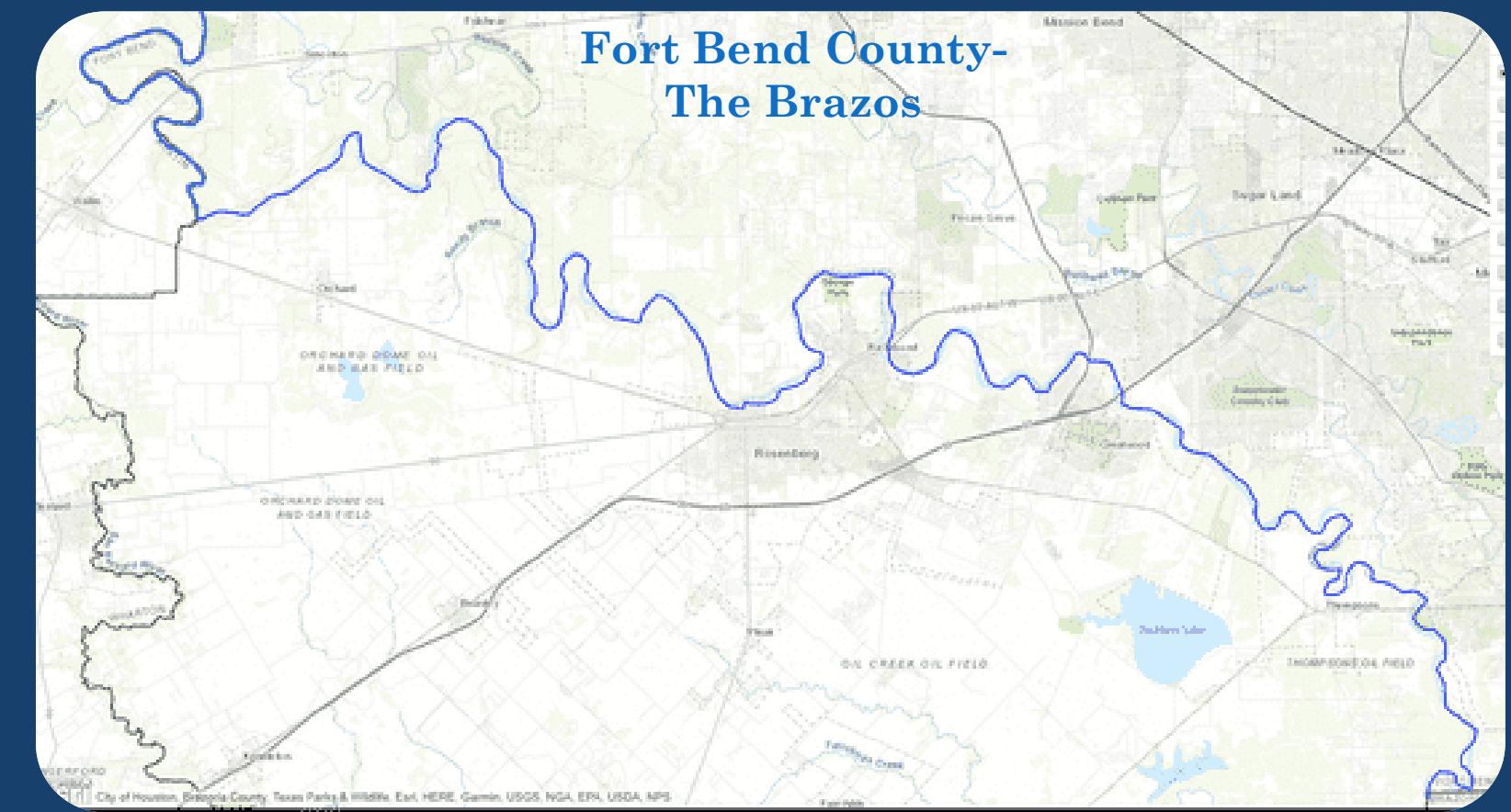


* Not a full list of Stakeholders



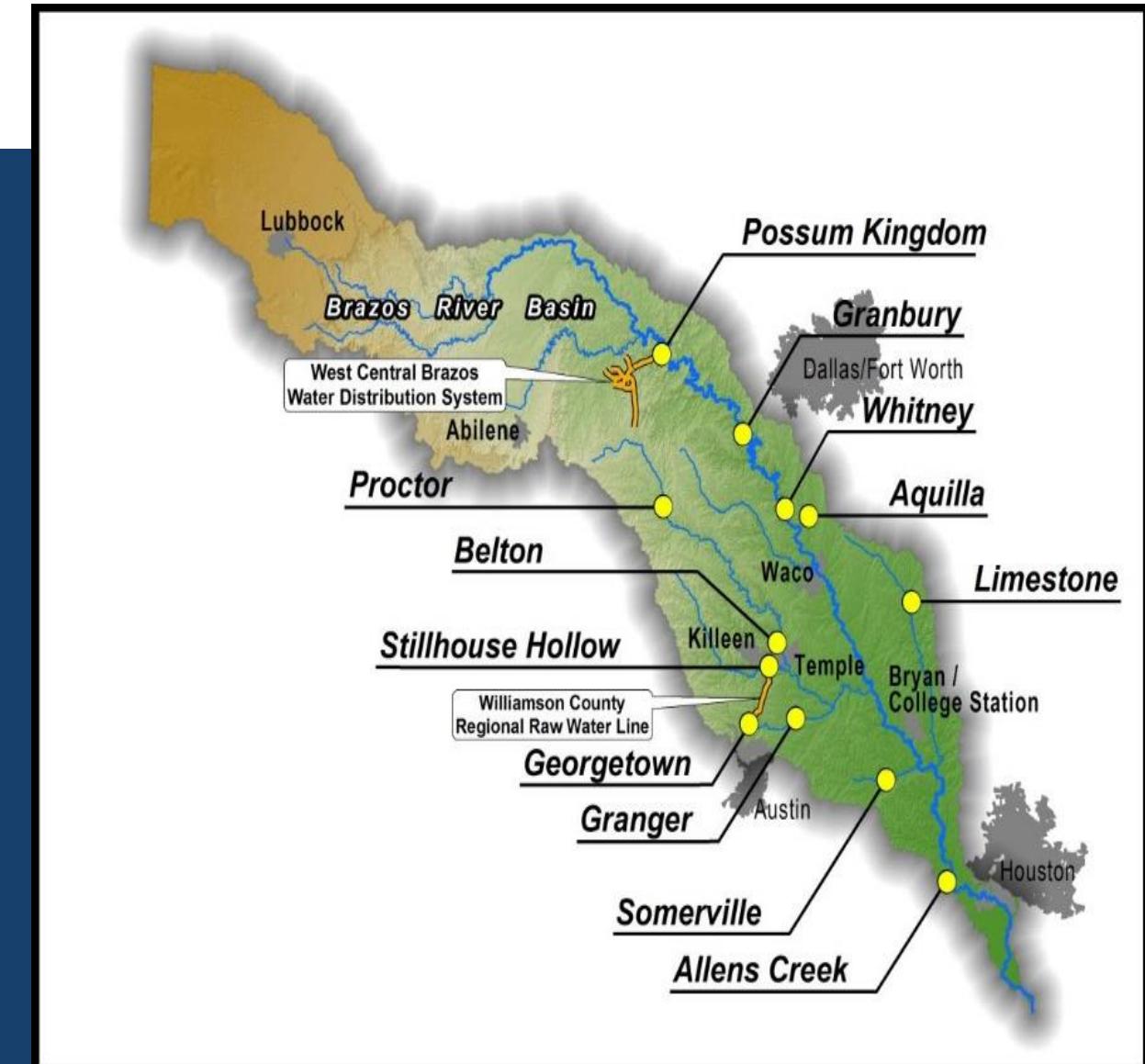
AGENDA

- Presentation
- Aerial View (Drone Video) of Erosion
- Questions and Answers
- Field Visit

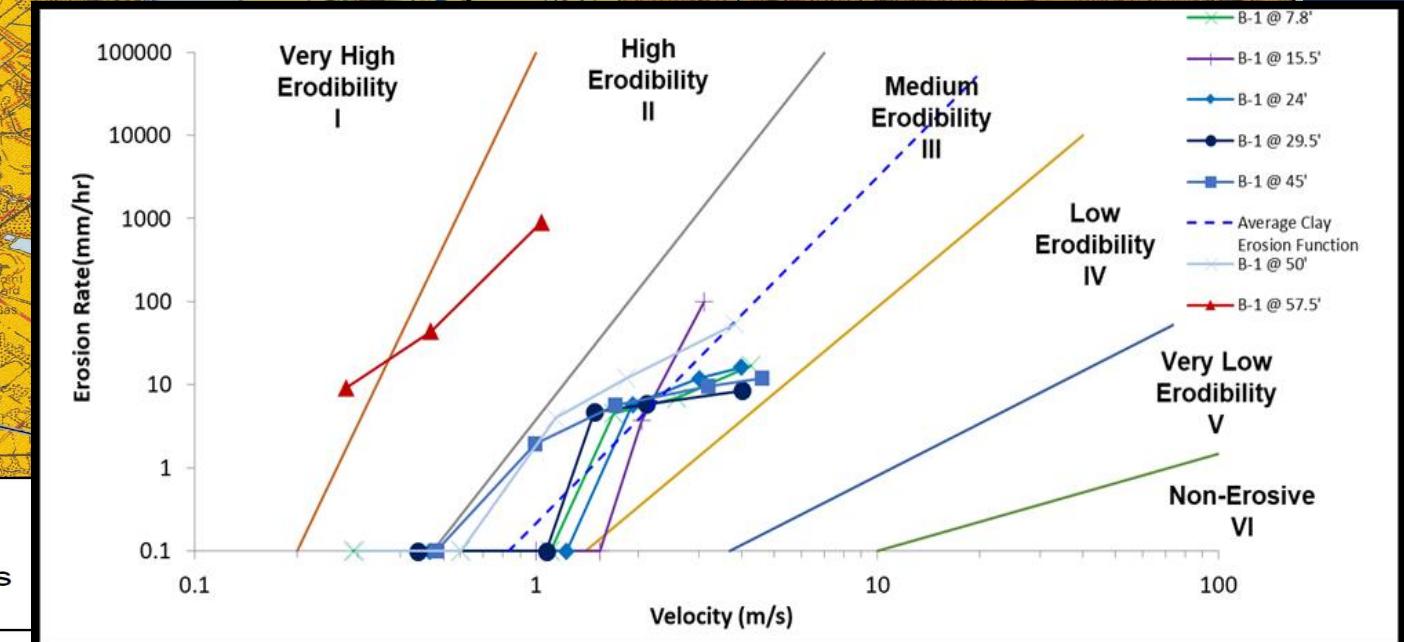
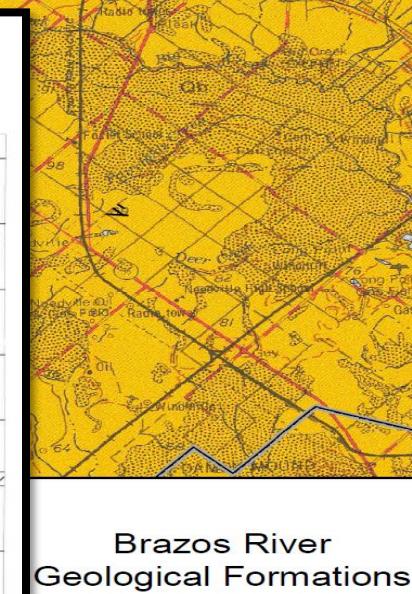
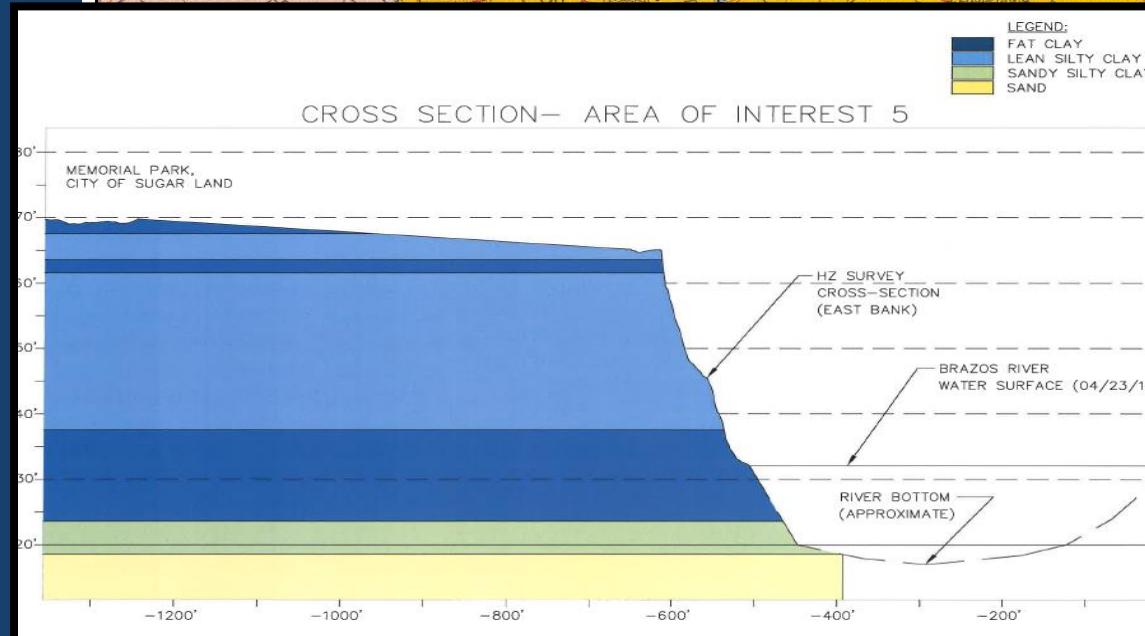
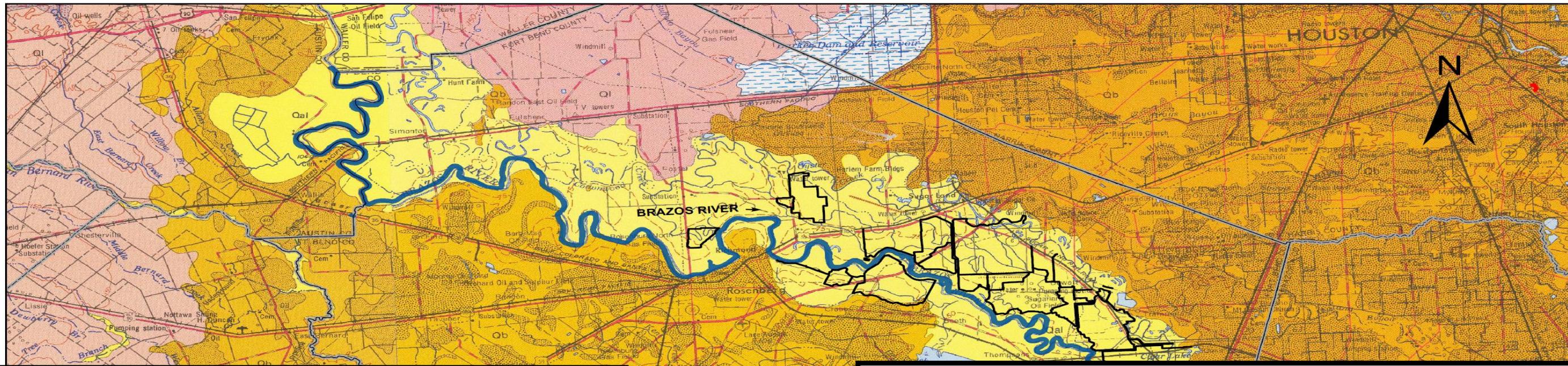


THE BRAZOS RIVER – ONE OF TEXAS' LARGEST RIVERS

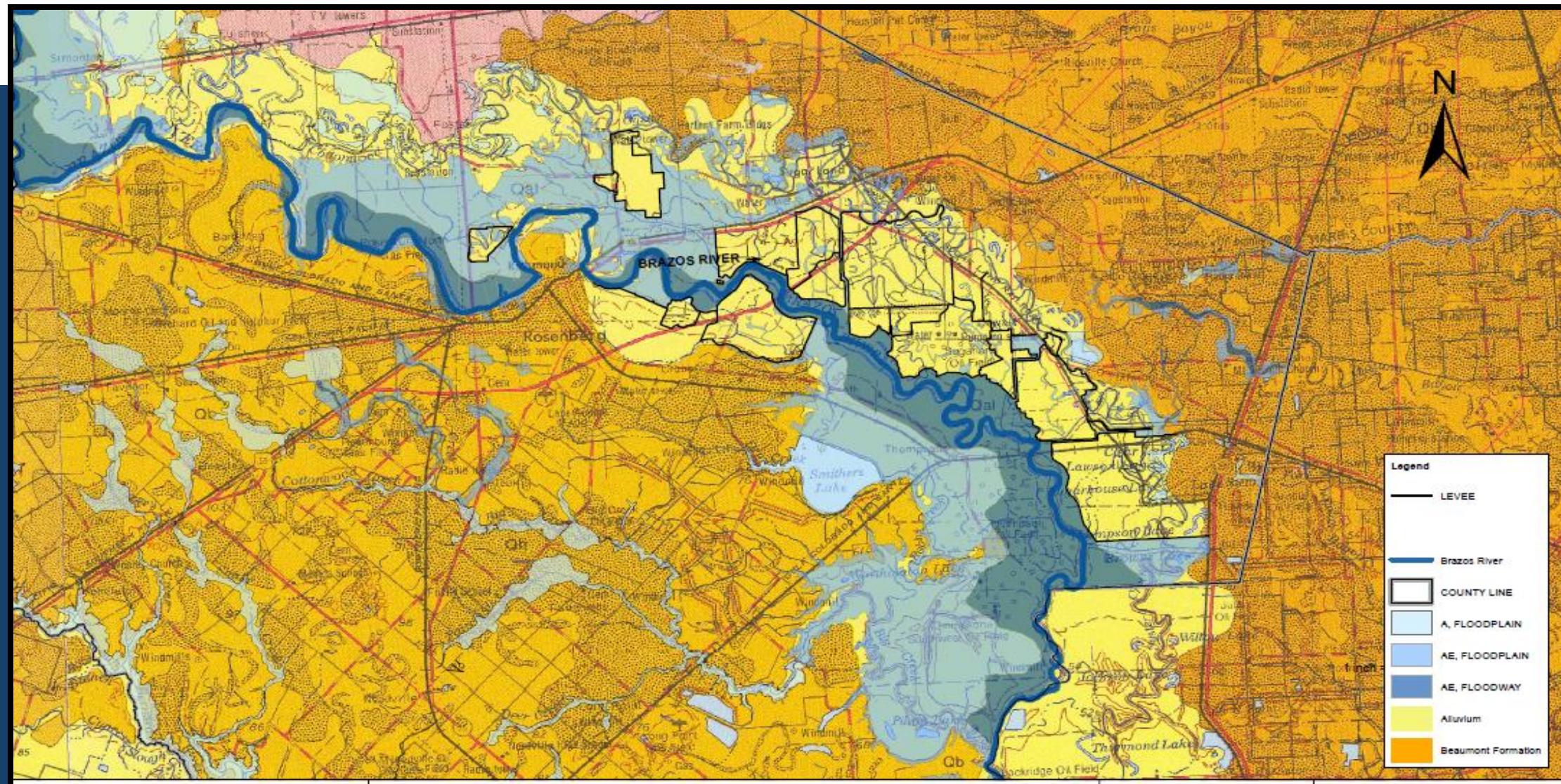
- Stretches more than 1,280 miles from the New Mexico to the Gulf of Mexico in Freeport
- 11th longest river in the US
- System includes
 - 11 reservoirs
 - 8 US Army Corps of Engineers (flood control)
 - 3 Brazos River Authority (water supply)
- Approximately 89 miles of the Brazos River runs through Fort Bend County



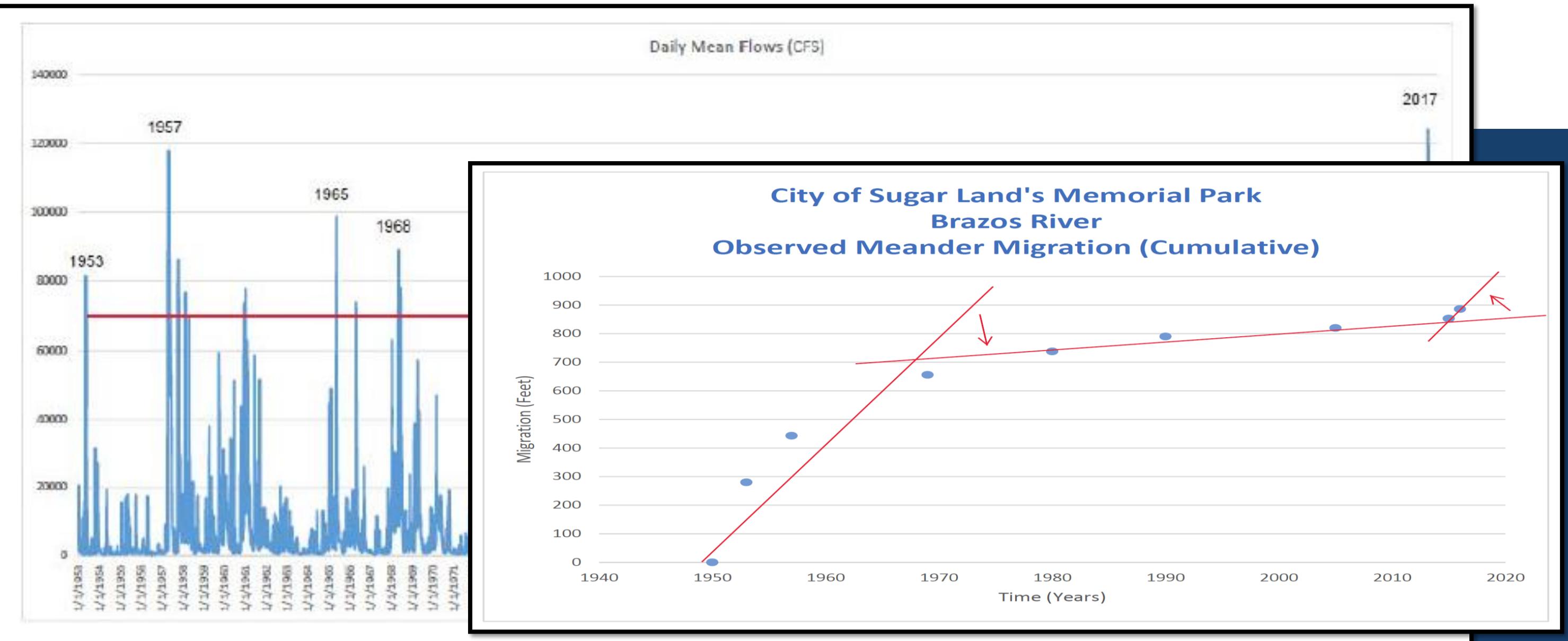
GEOLOGIC FLOODPLAIN BOUNDARY



CURRENT FLOODPLAIN BOUNDARY



FLOW HISTORY OF THE BRAZOS RIVER



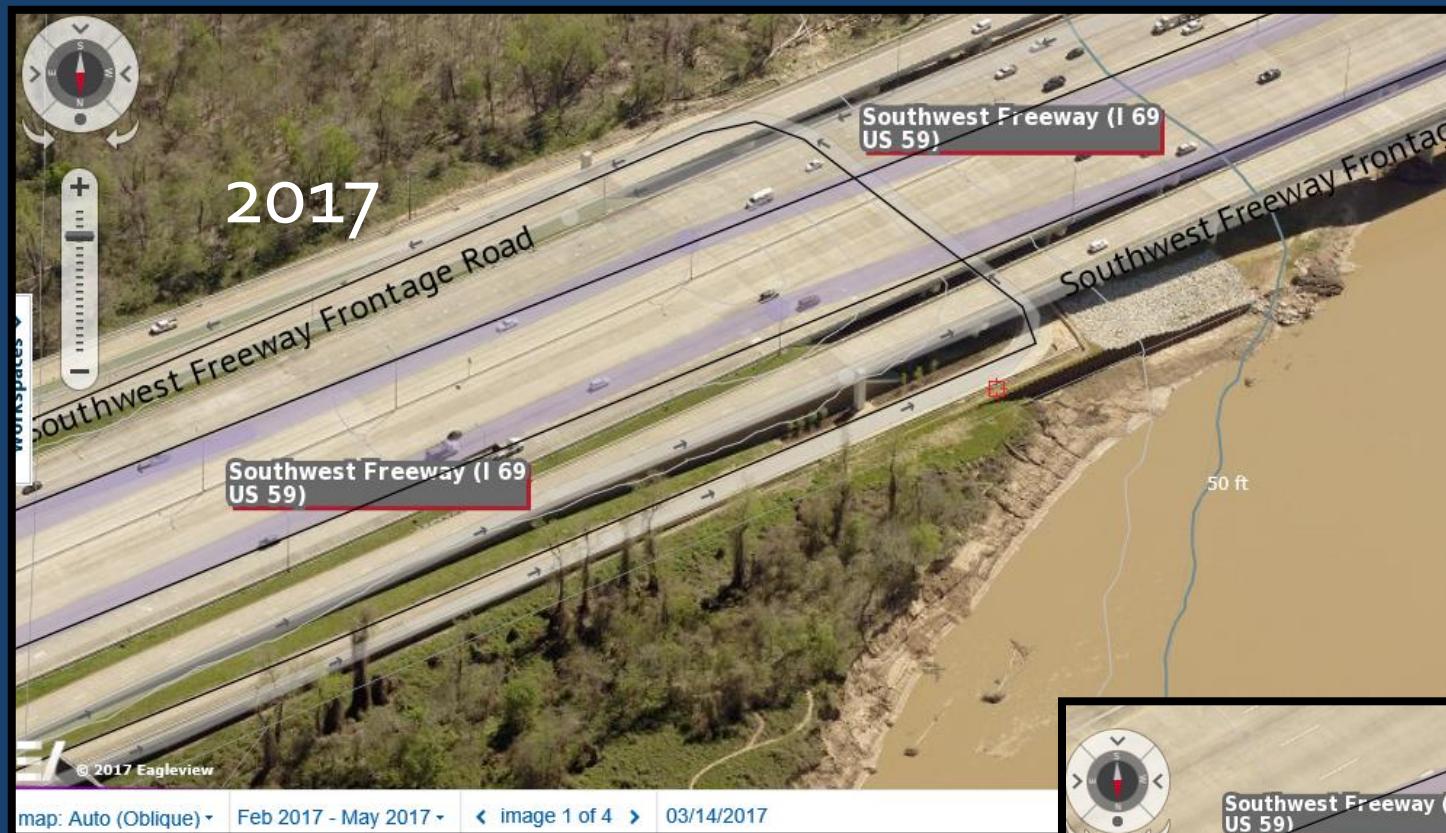


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IS 69/ SH 59- Hurricane Evacuation Route



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ESTIMATED IMPACT ON FORT BEND COUNTY



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AREAS OF IMPACT	* IMPACT IN DOLLARS
State Highway 99 Bridge, US 90A, & New Territory Neighborhood	1.3 B
Interstate 69/SH 59, Brazos Turnaround, University of Houston Sugar Land, & Telfair Neighborhood	1.2 B
Interstate 69/SH 59, Brazos Turnaround & Great Wood Neighborhood	1.1 B
Sienna Plantation Neighborhood - North	1.1 B
Sienna Plantation Neighborhood - South	1.1 B
Memorial Park – Sugar Land	600 M
Memorial Hermann Hospital, River Park Neighborhood & River Park Shopping Center	300 M
Dell Webb Community & Veranda Neighborhood	250 M
River Park West Neighborhood	200 M
River's Edge Neighborhood - North	200 M
River's Edge Neighborhood - South	200 M
Union Pacific Rail Road Bridge	5.5 M
FM 1093 Bridge	2.5 M
TOTAL	\$8 Billion



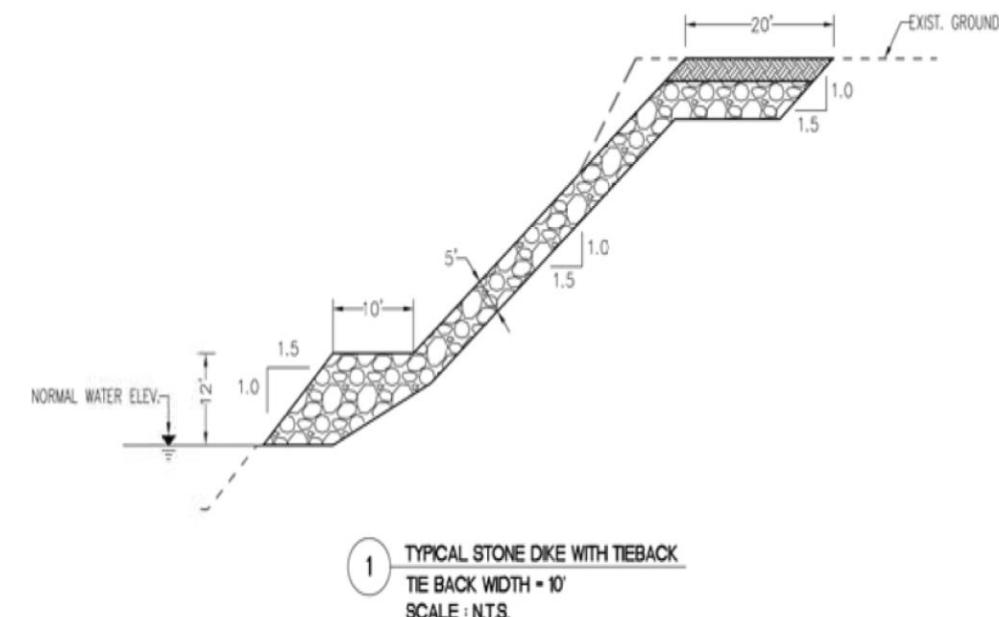
* Approximate Property Value at Risk

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PROPOSED IMPROVEMENT – STONE TOE DIKE & TIE BACK

- Environmentally Friendly
- Economical
- Coordinated with the US Army Corps of Engineers

Total Estimated Project Cost \$360 M



Homochitto, MS- River Repair



USACE-ERDC
(2014)



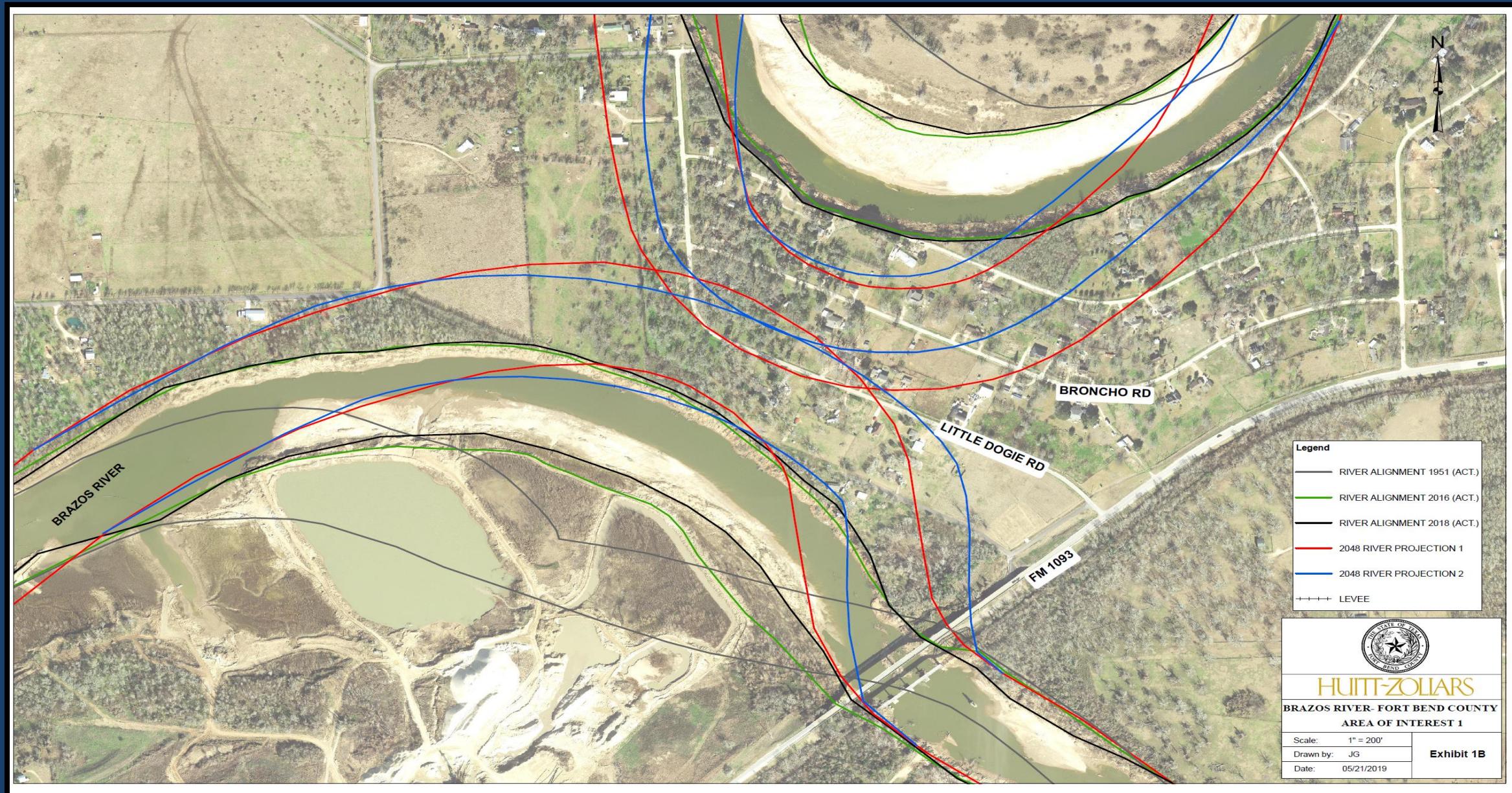
USACE-ERDC
(2018)

Site Locations

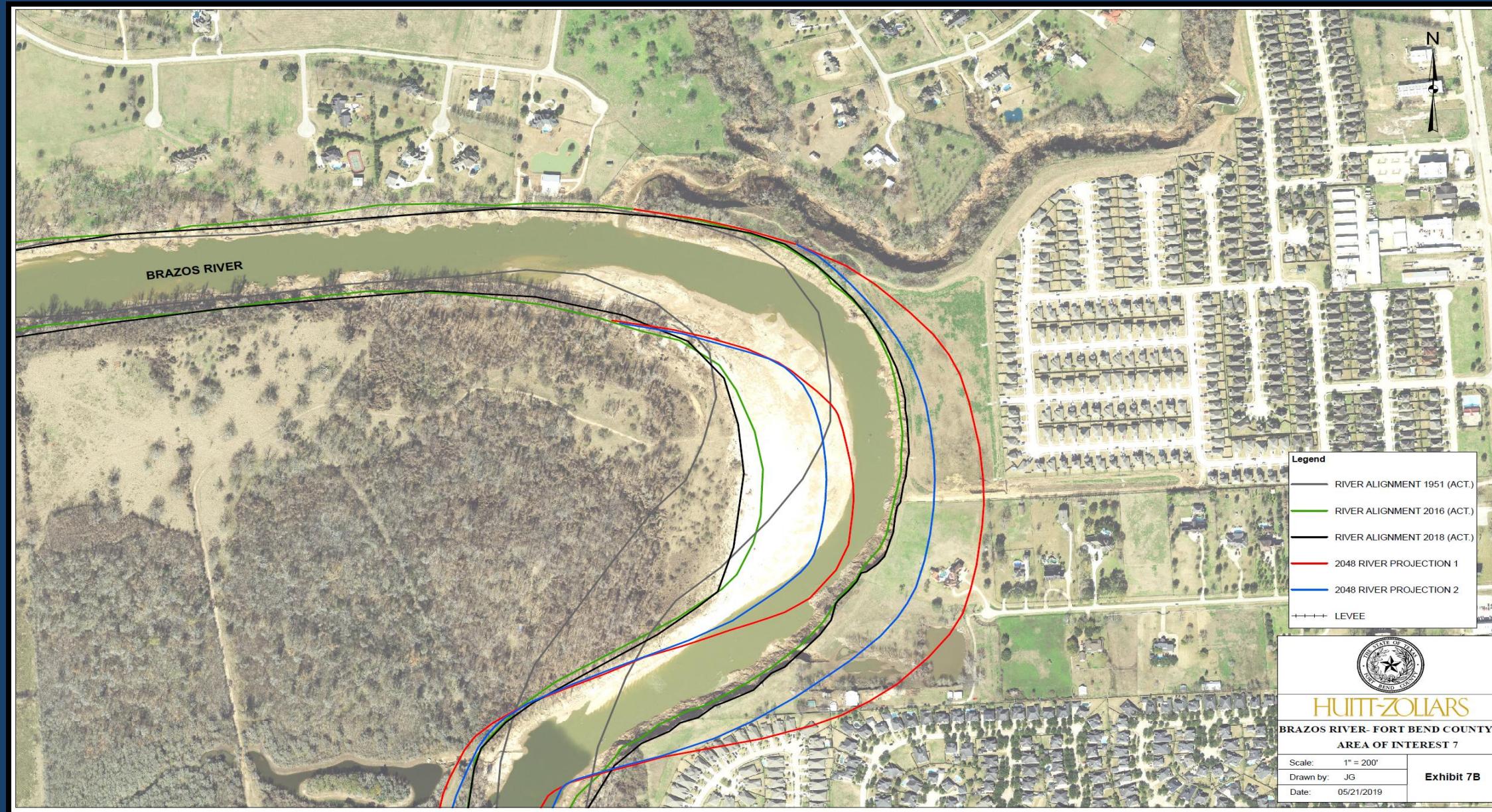


Site	<u>Location (side of river is based on looking upstream)</u>
1	Meander Upstream of FM 1093 Bridge – right side
2	FM 1093 Bridge and UPRR Bridge – right side
3	Fort Bend County Municipal Utility District 140 North – right side
4	Fort Bend County Municipal Utility District 140 South – right side
5	Fort Bend County Levee Improvement District No. 6 – left side
6	Fort Bend County Municipal Utility District No. 121 – left side
7	Fort Bend County Levee Improvement District No. 10 – left side
8	Fort Bend County Levee Improvement District No. 7 – right side
9	Fort Bend County Levee Improvement District No. 17 – right side
10	Fort Bend County Levee Improvement District No. 11 – left side
11	City of Sugar Land Memorial Park – right side
12	Sienna Plantation Levee Improvement District North – right side
13	Sienna Plantation Levee Improvement District South – right side

Probable positions of the Brazos River bank in 2048 – Site 1 and 2



Probable positions of the Brazos River bank in 2048 – Site 3



Probable positions of the Brazos River bank in 2048 – Site 4



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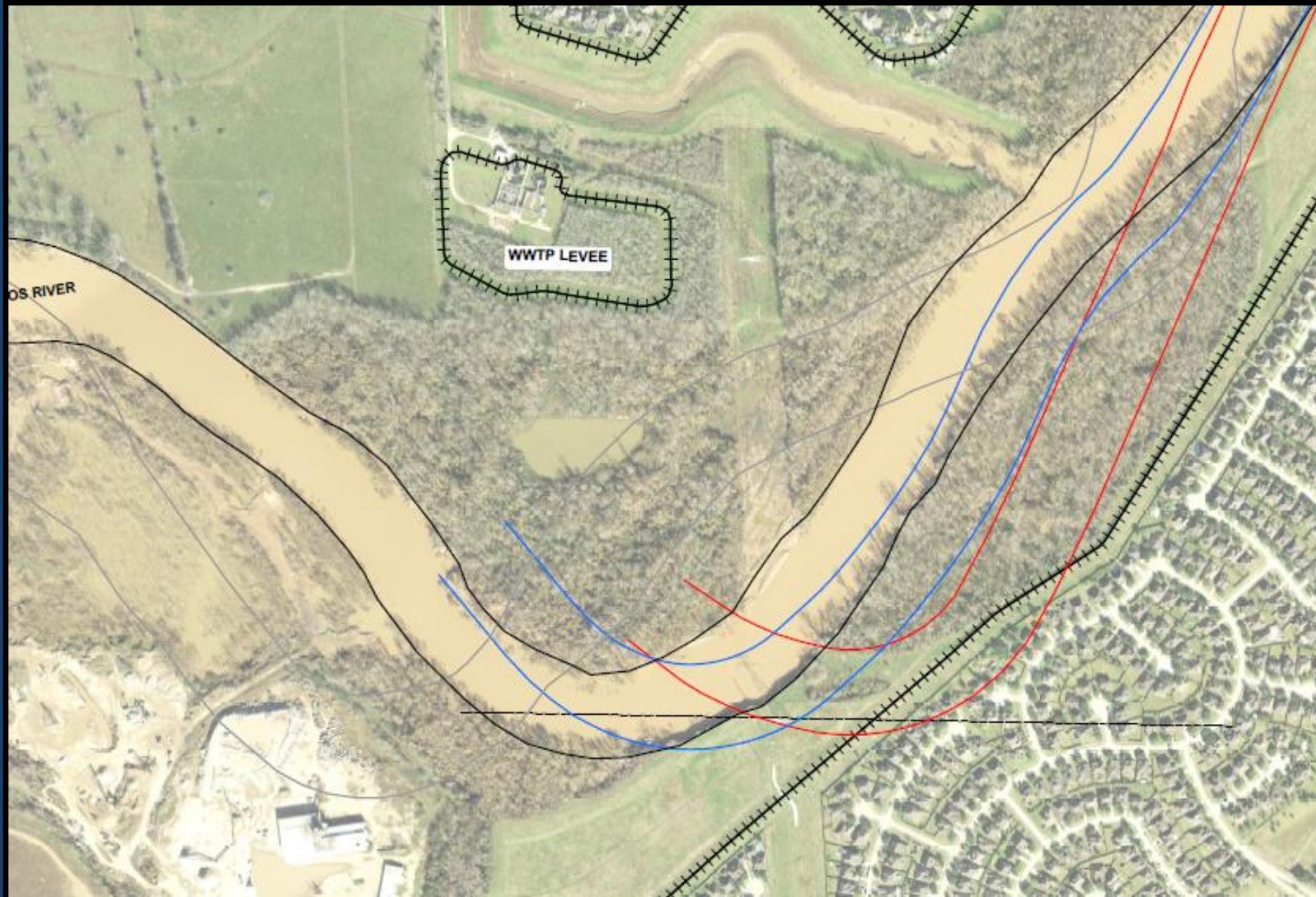
Probable positions of the Brazos River bank in 2048 - 5



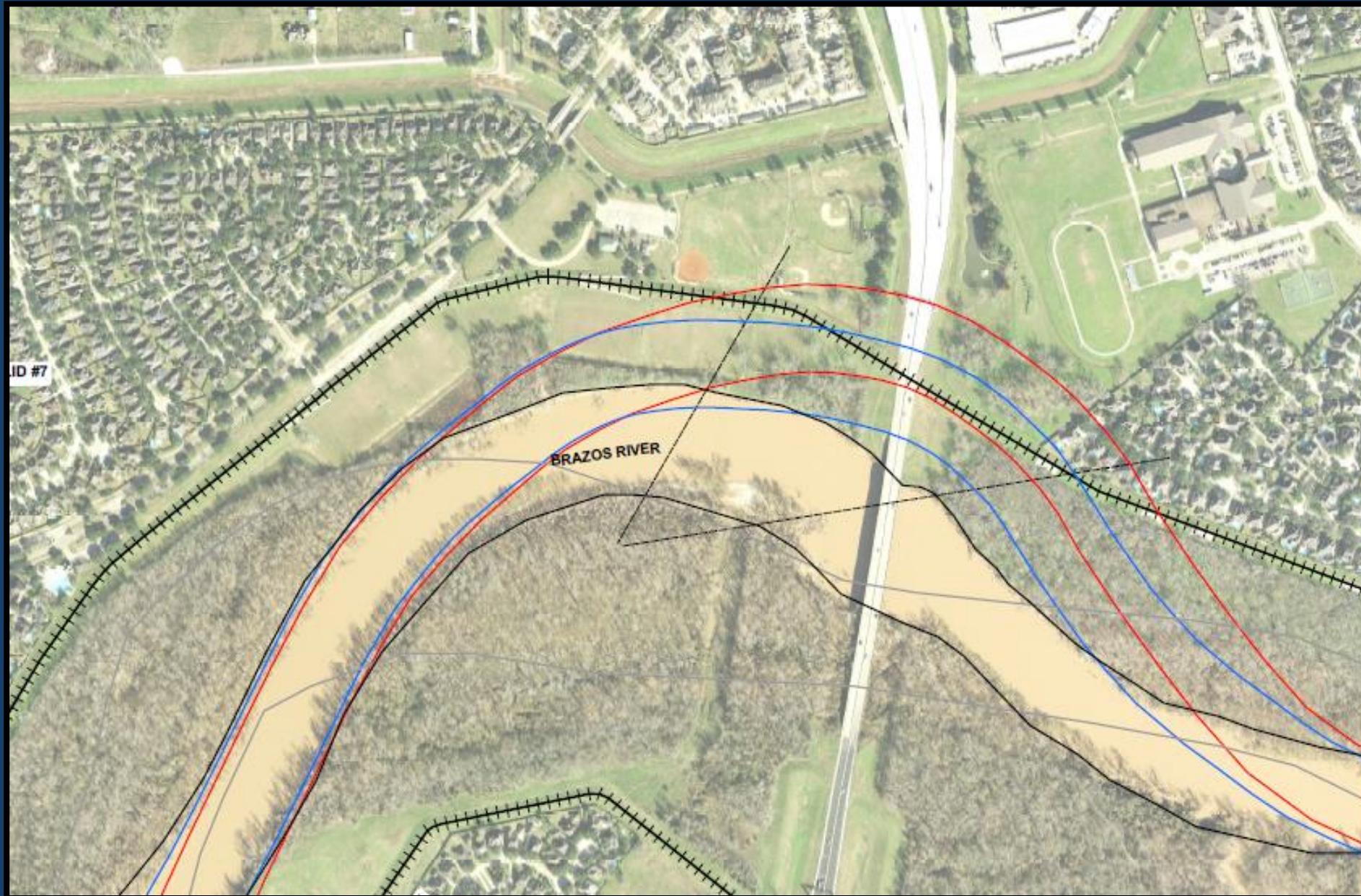
Probable positions of the Brazos River bank in 2048 – Site 6



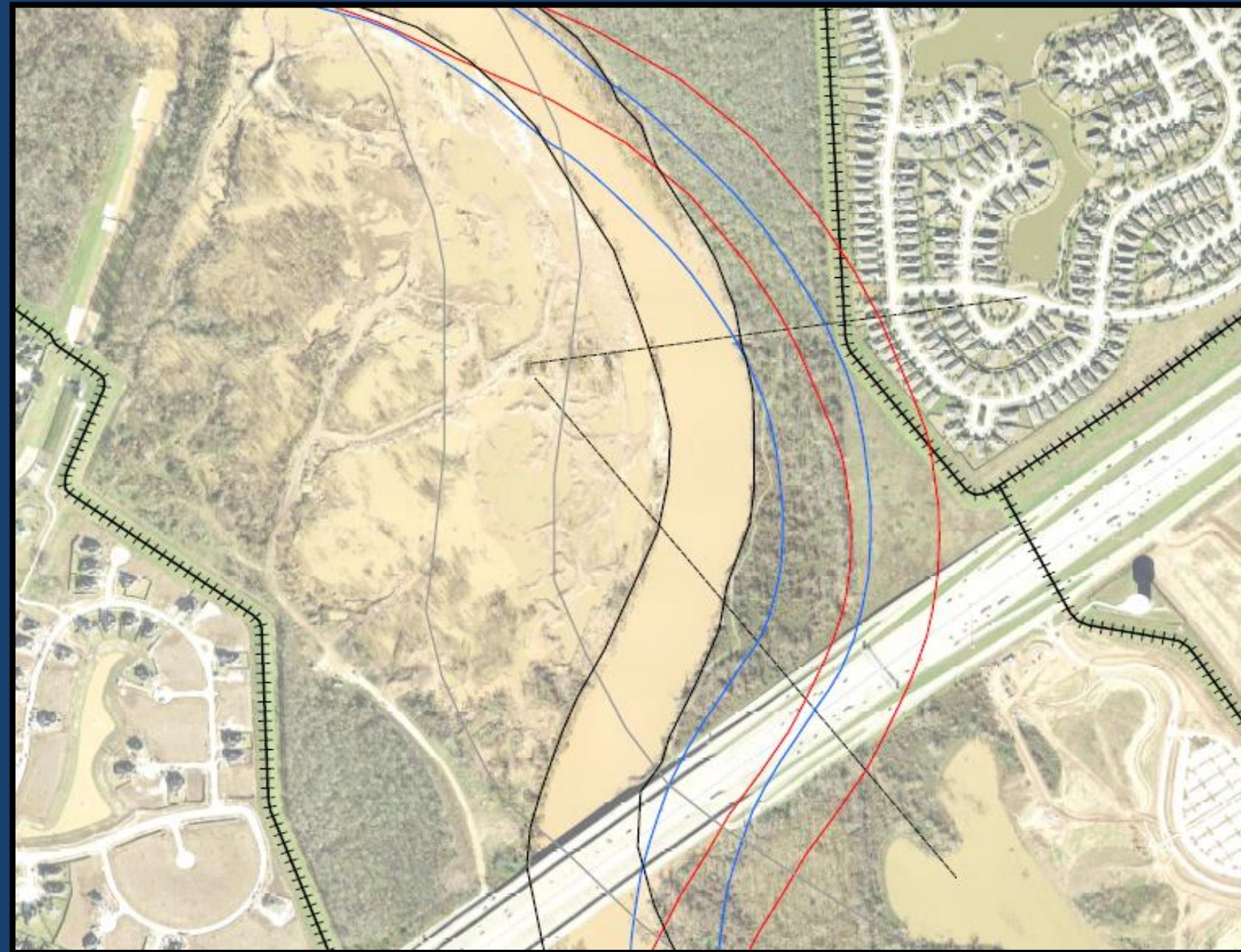
Probable positions of the Brazos River bank in 2048 – Site 7



Probable positions of the Brazos River bank in 2048 – Site 8



Probable positions of the Brazos River bank in 2048 – Site 9

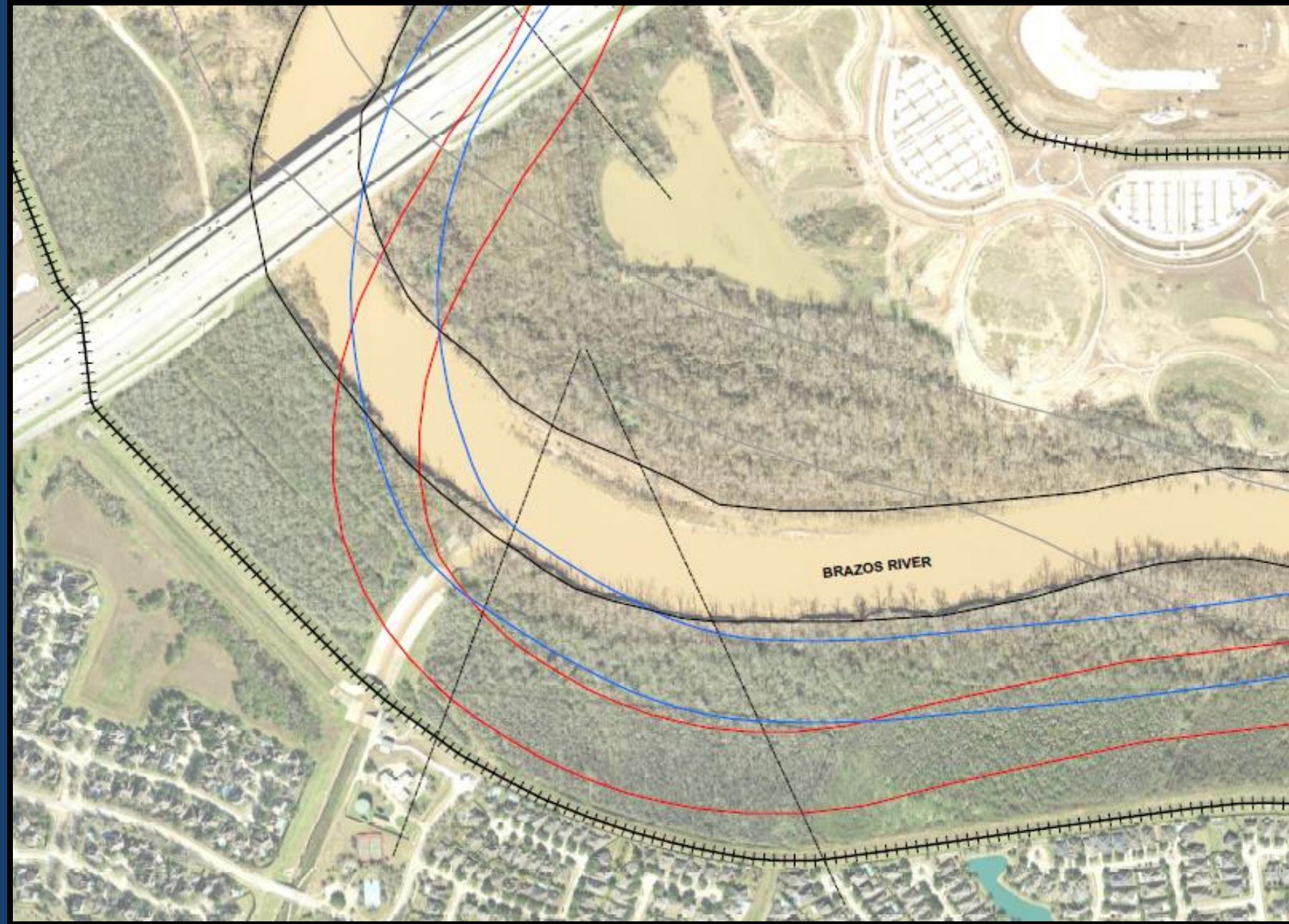


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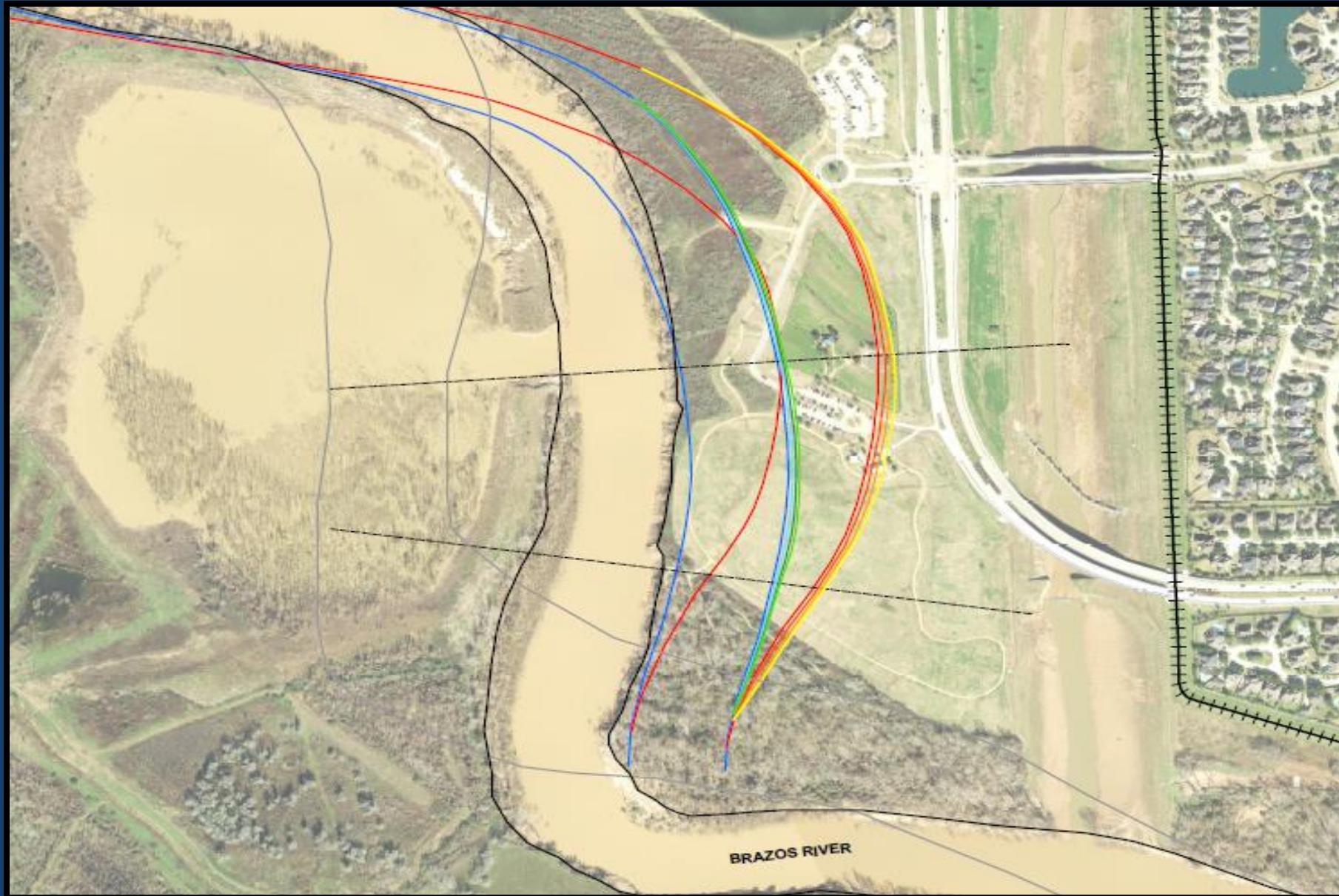


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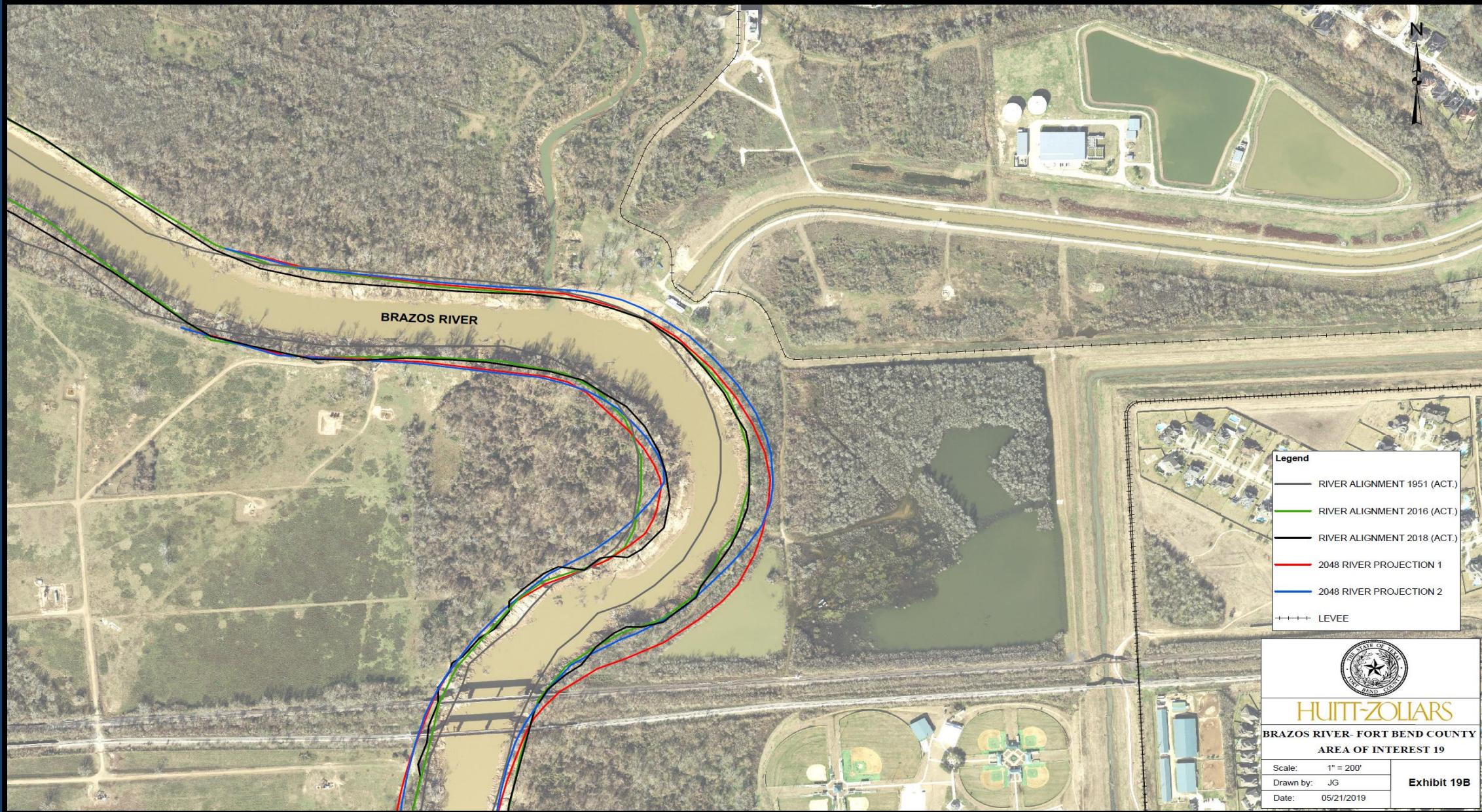
Probable positions of the Brazos River bank in 2048 – Site 10



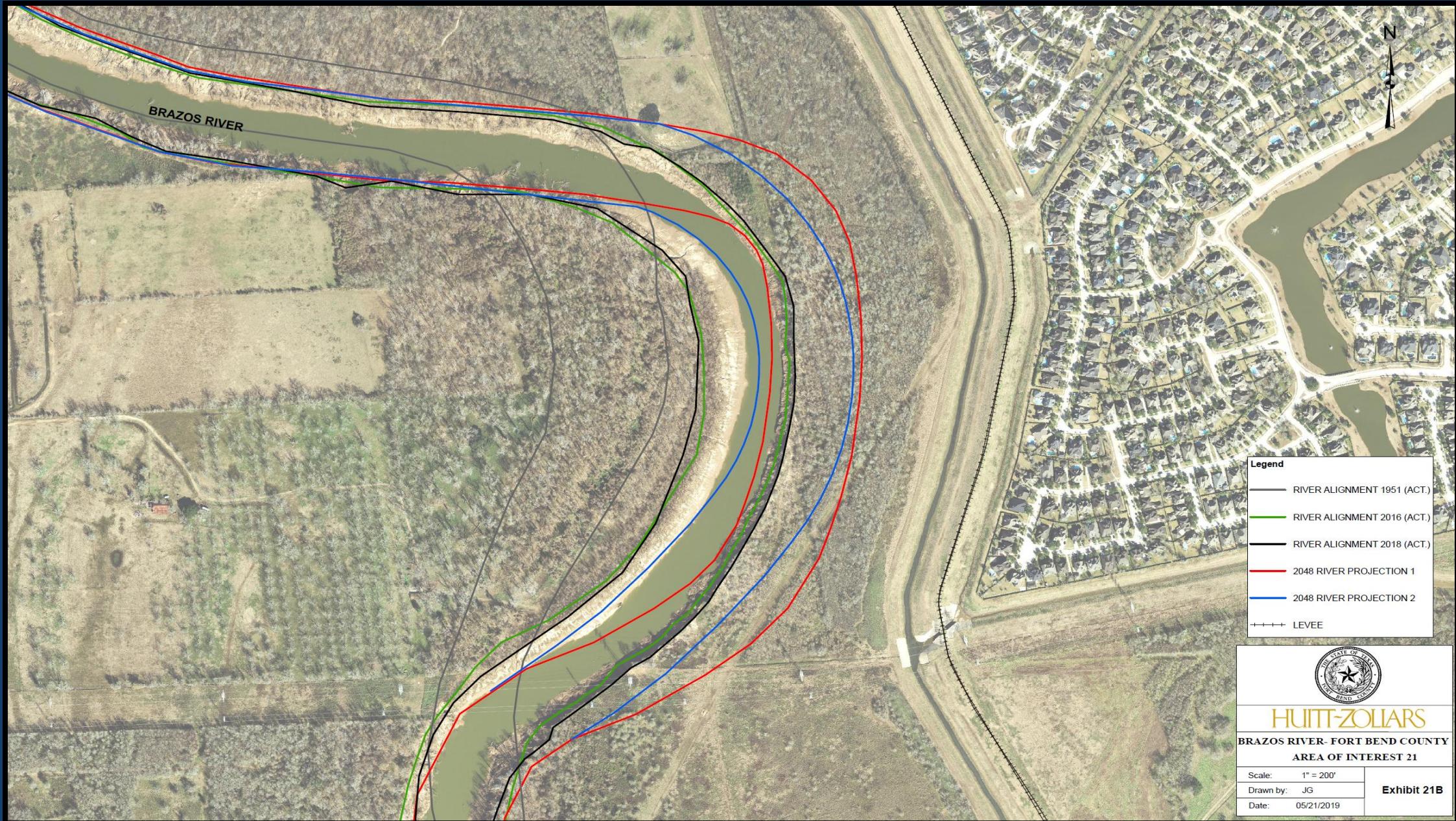
Probable positions of the Brazos River bank in 2048 – Site 11



Probable positions of the Brazos River bank in 2048 – Site 12



Probable positions of the Brazos River bank in 2048 – Site 13



YOUR ASSISTANCE IS VITAL

Impact

- \$8 Billion in Infrastructure
- 700,000+ Residents

Solution

\$360 Million

State

- Senate Bill 7
- Senate Bill 8
- Proposition 8

Federal

- General Land Office (GLO) Funding



THANKYOU

Next on the Agenda

- Questions and Answer
- Field Visit

