

Collaboration between the San Antonio River Authority and the San Antonio Bay Partnership

January 22, 2020



SARA Goals and Objectives

2013 – Implement strategies that improve and protect environmental flows.

2018 – Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.





Creation of SABP

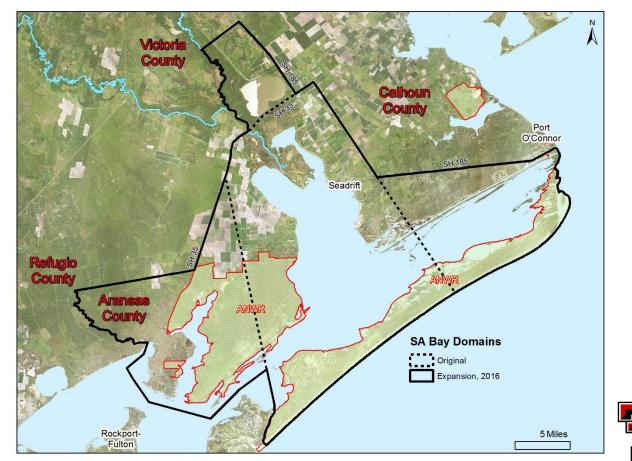
- SARA provided staff support to assist in the creation of the SABP
- Provided \$4,000 in startup funds for 501(c)(3) application fee and other professional services
- Provided \$25,000 local match to a Coastal Management Program Grant to develop a Habitat Conservation and Coastal Public Access Plan for the San Antonio Bay System

Ongoing SARA Support

- Sponsor for San Antonio Bay Day since 2012
- Provided a \$25,000 annual Challenge Grant since 2012 to match other fundraising efforts by the SABP
- Funded facilitation services for SABP strategic planning process
- Collaborate on educational activities regarding bay and estuary issues to the San Antonio River watershed
- Total financial support for SABP is \$242,160

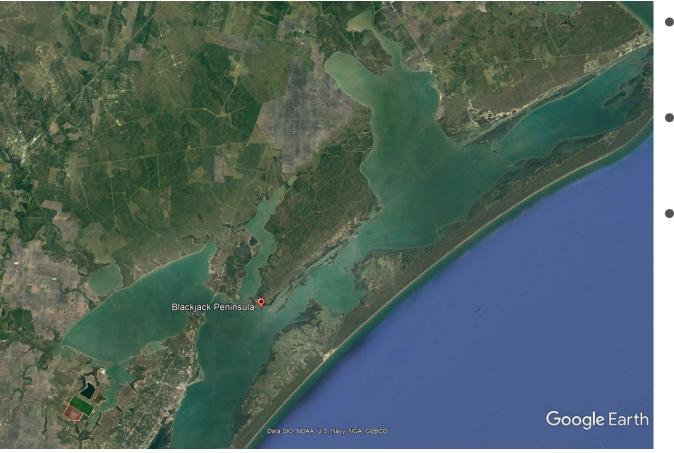
EDYS San Antonio Bay Model

- Initiated March 2011
- Ecological Dynamic Simulation (EDYS)
- Integrate hydrological and ecological responses to aid in decision making





St. Charles Bay Marsh Restoration Study



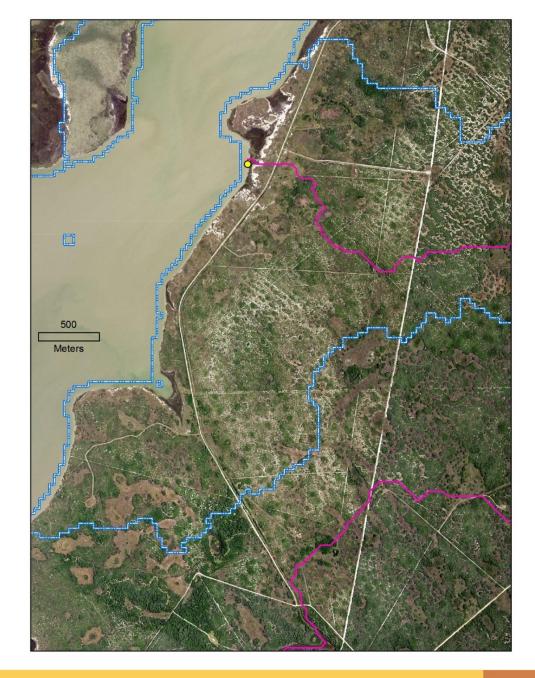
- Four-mile stretch along NW edge of Blackjack Peninsula.
- Restoration of marsh between road and St. Charles Bay.
- Evaluate various designs relative to:
 - Road location
 - Flow of surface freshwater
 - Vegetation plantings





St. Charles Bay Marsh Restoration Study

- Three main watersheds
- Road impacts northern watershed
- Concentrates upland drainage to marshes
- Limits tidal inundation



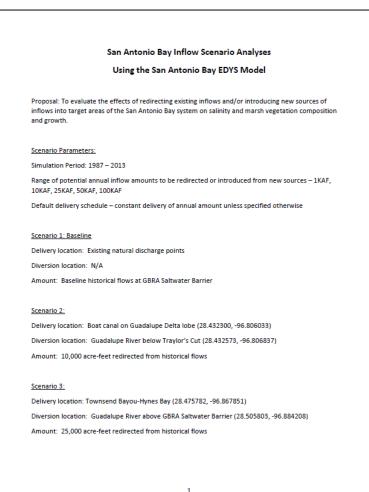


SA Bay Inflow Scenarios Analysis

- Sensitivity Analysis of additional Inflow to Bay
- 8-10 Inflow Scenarios
- Simulate effects on marsh vegetation productivity and species composition
- Input from GBRA, SA Bay Partnership, Meadows Center-TX State, National Wildlife Federation, International Crane Foundation and Harte Research Institute

SA Bay Inflow Scenarios Analysis

- Baseline Inflow 1987-2013
- Initial Scenario 25,000 AF/yr additional inflow
- Increase or decrease additional inflow based on initial results
- Vary locations of inflow for potential refugia





Questions?



Photo Courtesy of Martin Reid

