



# ***Allens Creek Reservoir Update***

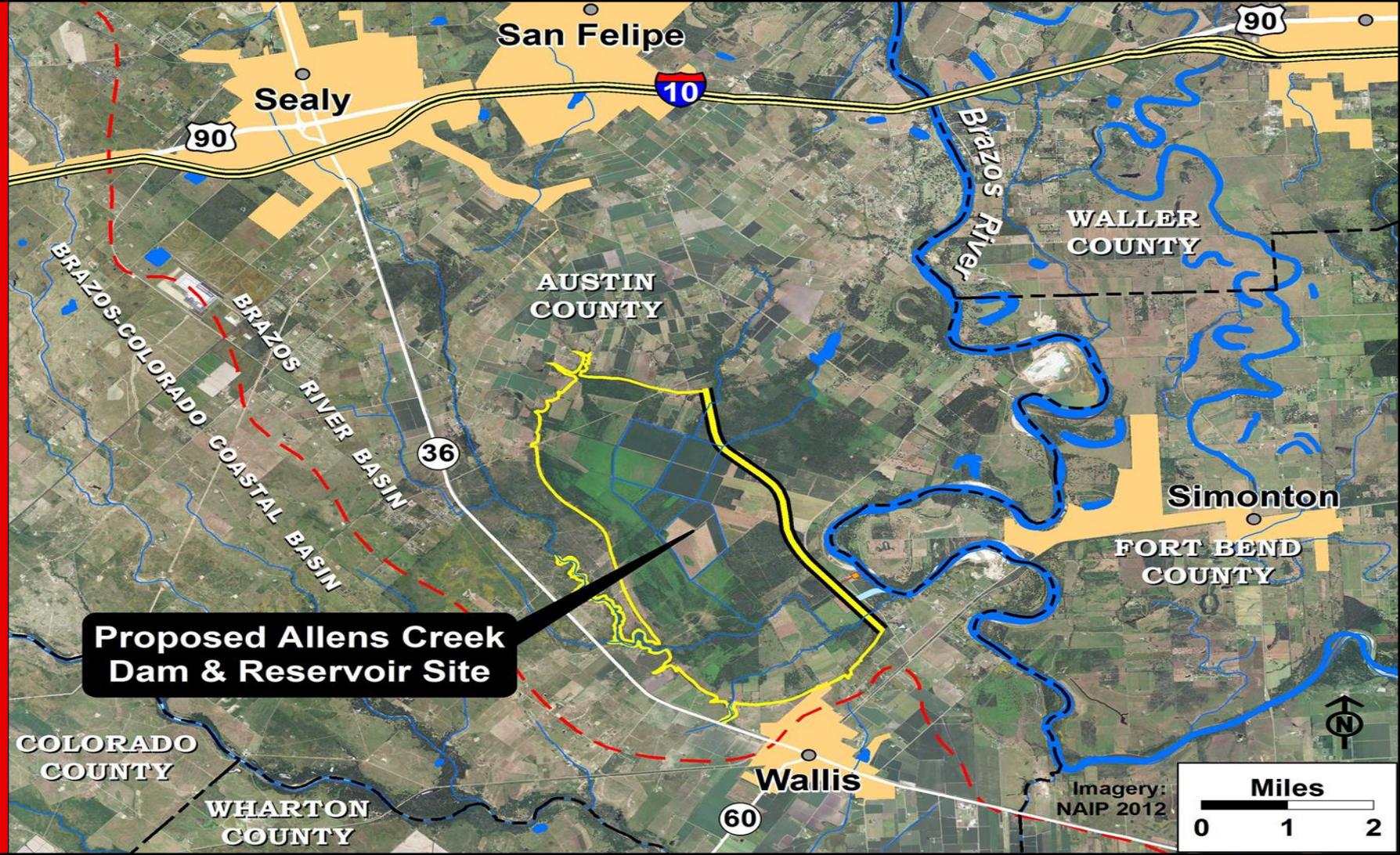
***Presented by  
David Collinsworth  
Central and Lower Basin  
Regional Manager***

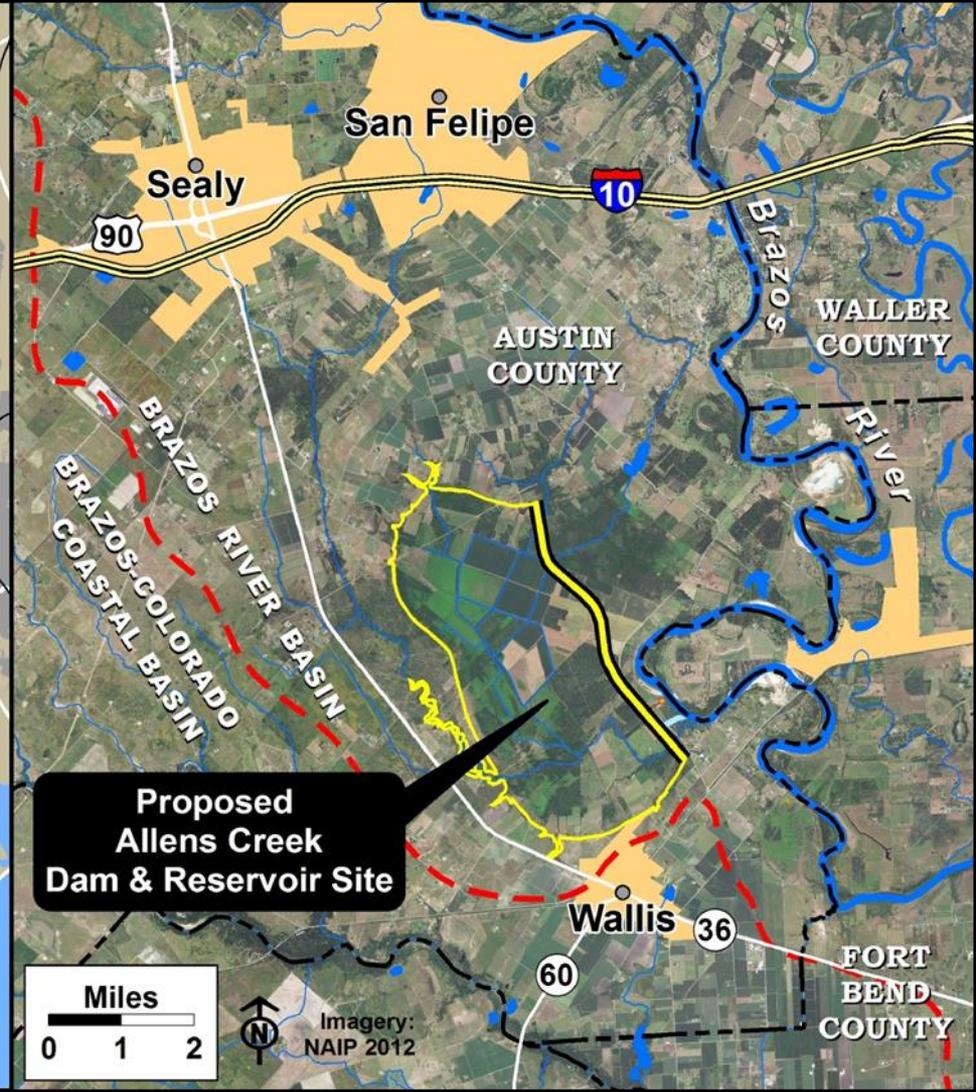
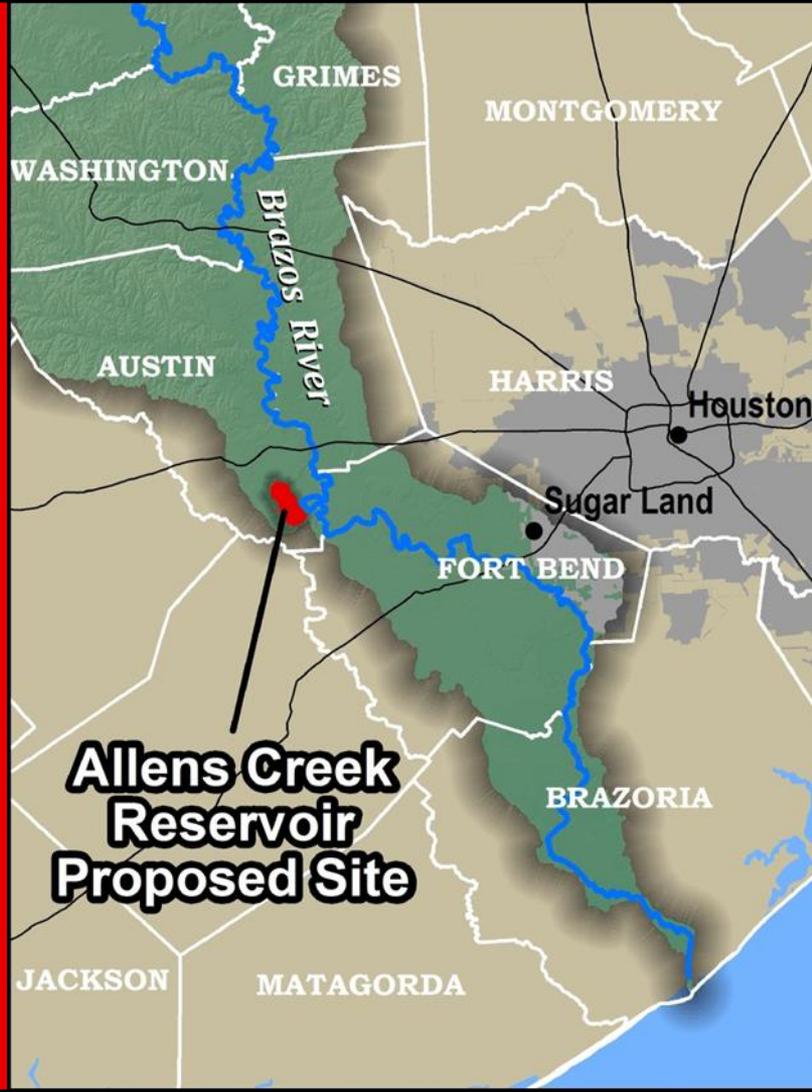
***Meeting Date: January 25, 2016***



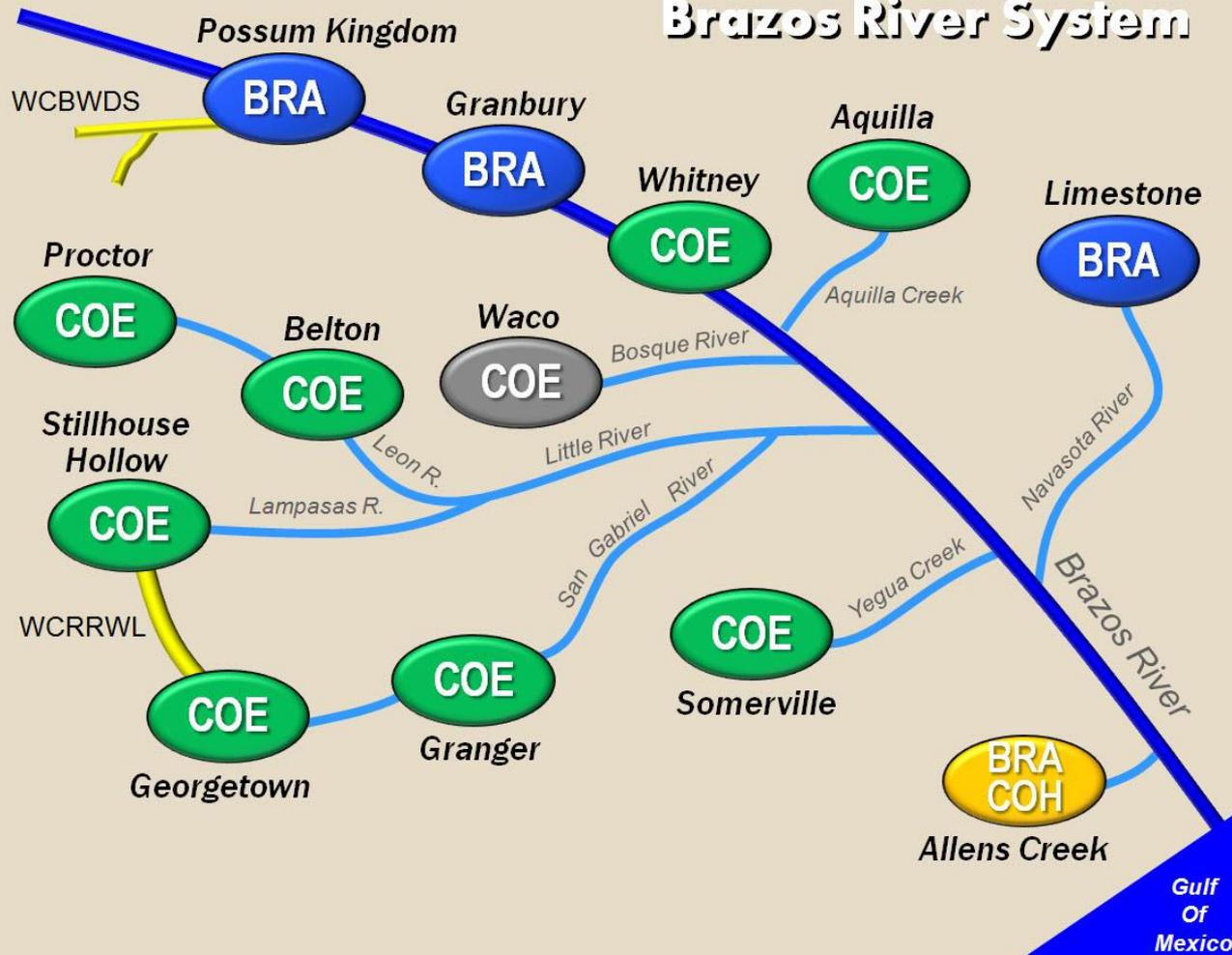
# ***Allens Creek Reservoir***

- **Project Review**
  
- **Projects**
  - **Permitting**
  - **Levee**
  - **River Pump Station(s)**
  - **Discharge Structure**
  
- **Allens Creek Challenges**
  
- **Proposed Budget and Timeline**  
**\$300,000,000 + and 8-10 Years**





# Brazos River System



DRAWING NOT TO SCALE



# ***Allens Creek Reservoir***

- **Montgomery Watson Harza**
  - **97 Reservoir Projects in USA**
    - **Project Manager: Completed 5 Similar Projects in 10 Years**
    - **Lead Designer: 9 Off-Channel Reservoirs**
    - **Lead Pump Designer: 40 Years Experience**

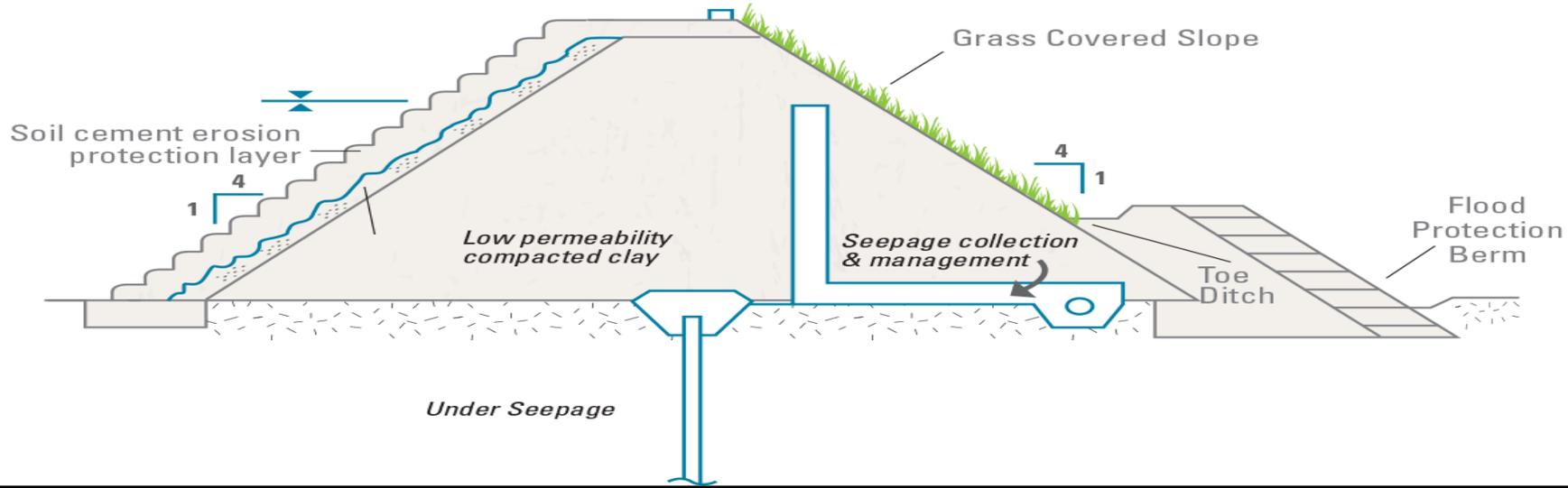


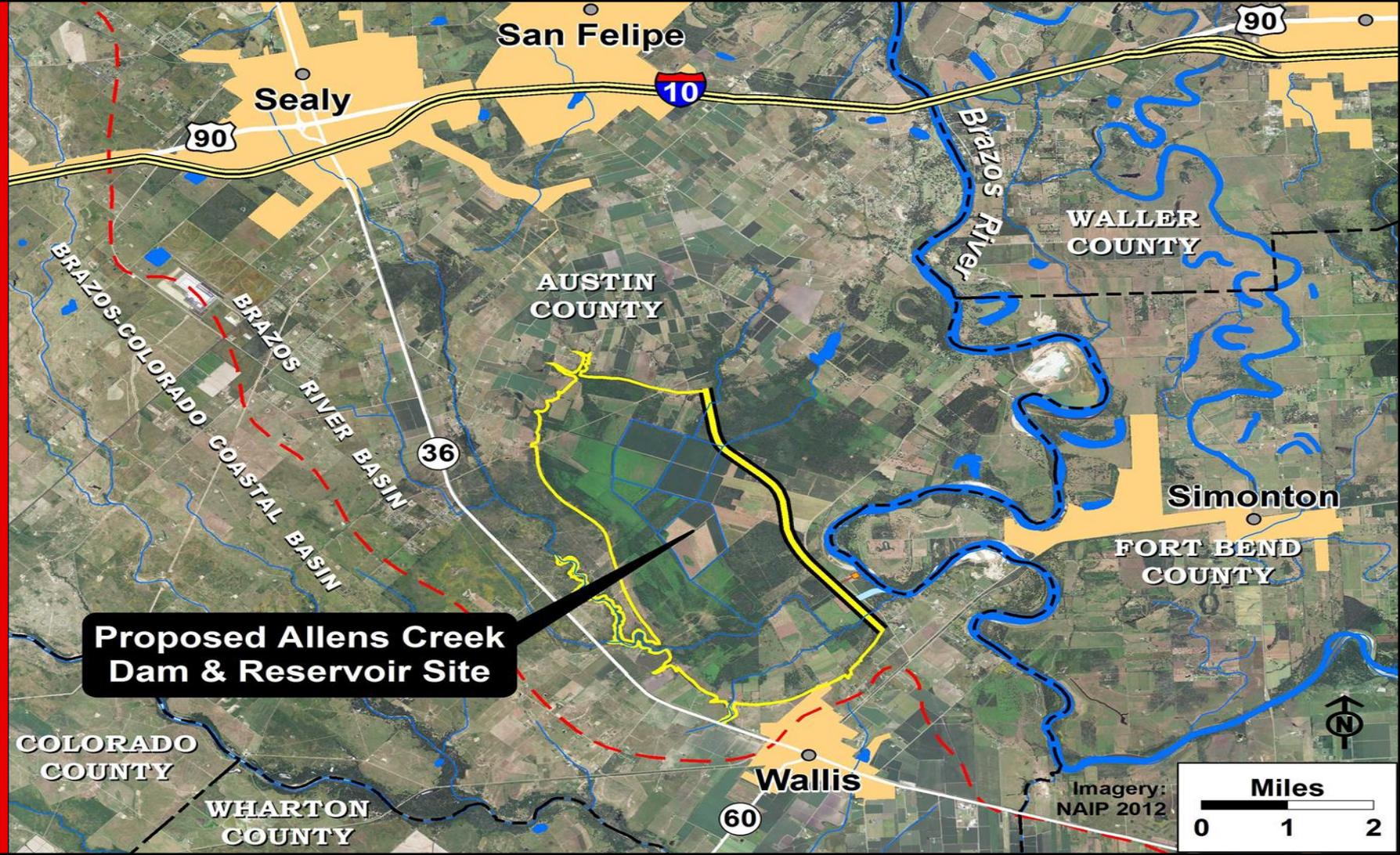
# ***Allens Creek Reservoir***

- **SWCA**
  - **Permit Manager: 50 Permits in Galveston USACE Office in 10 Years**
  - **Over 65 Staff in Houston Office**
- **Fugro, Carollo, Arts+Labor, John Chance, Inc., Northwest Hydraulic Consultants, & Percheron**

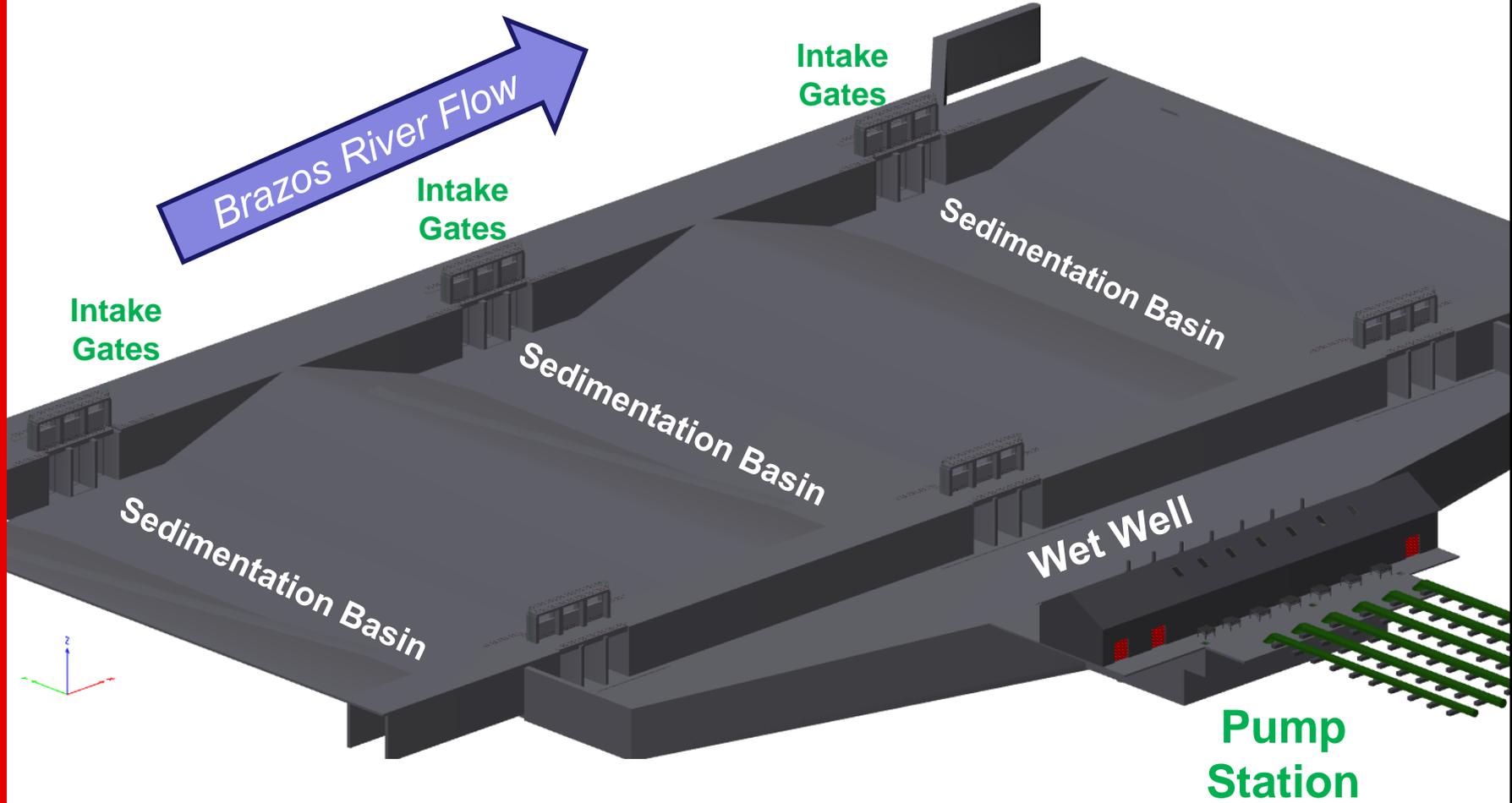


# Embankment Dam





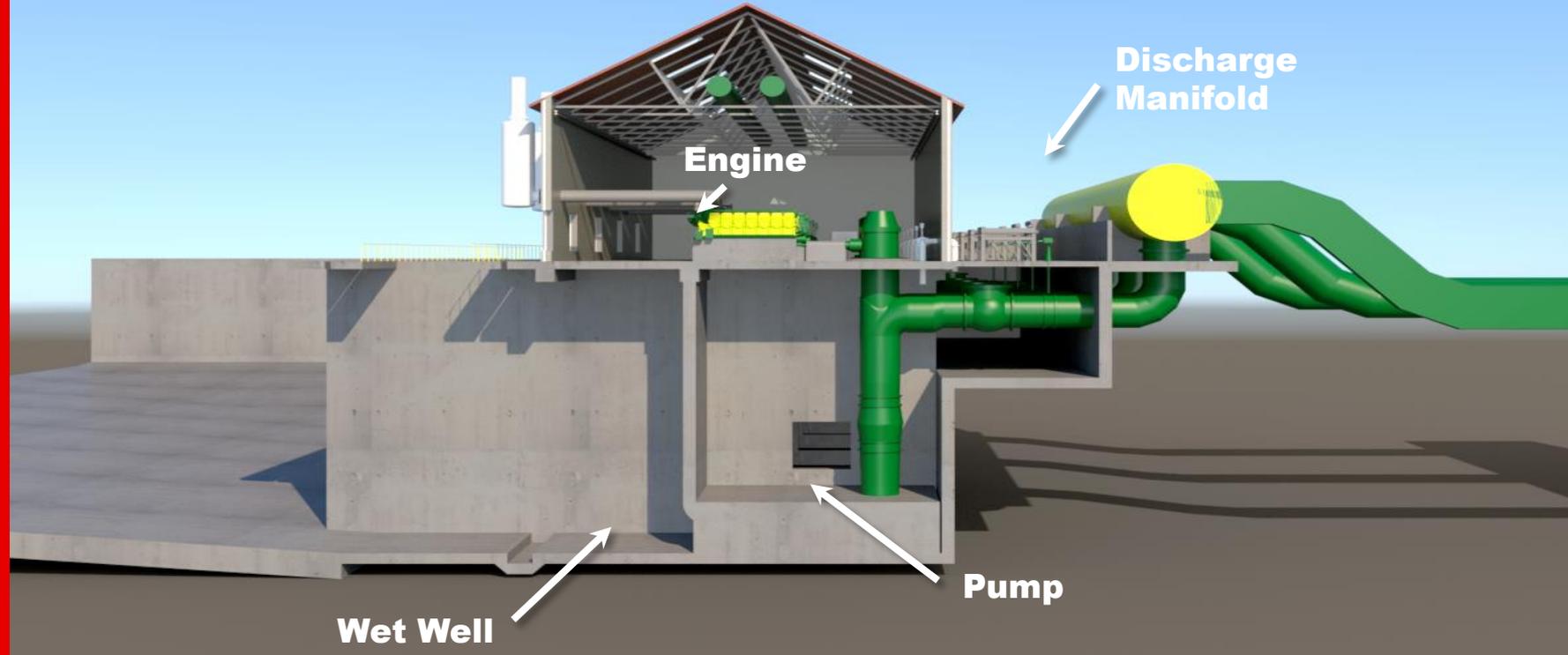
# Intake and Sedimentation Basin

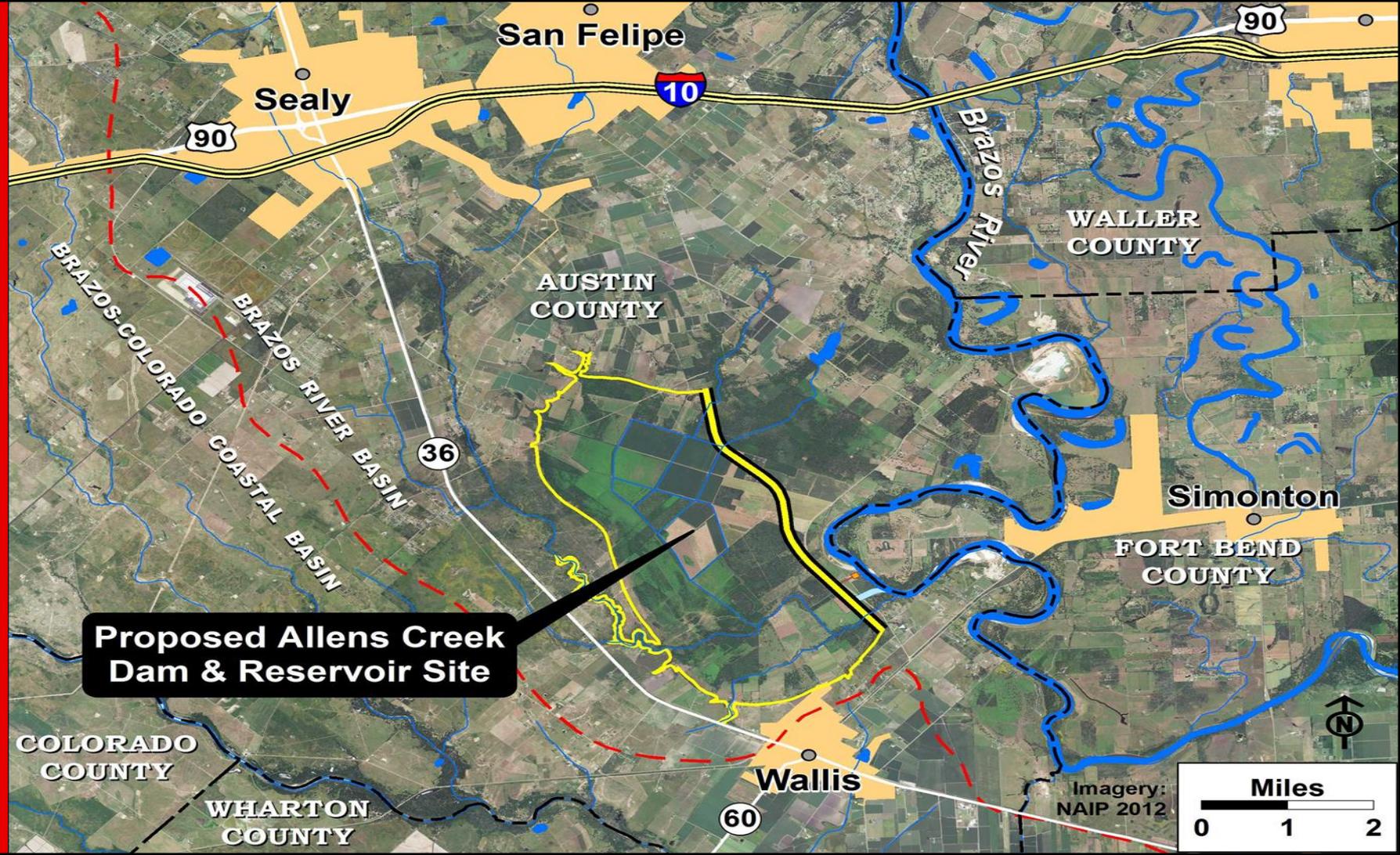




# Pump Station

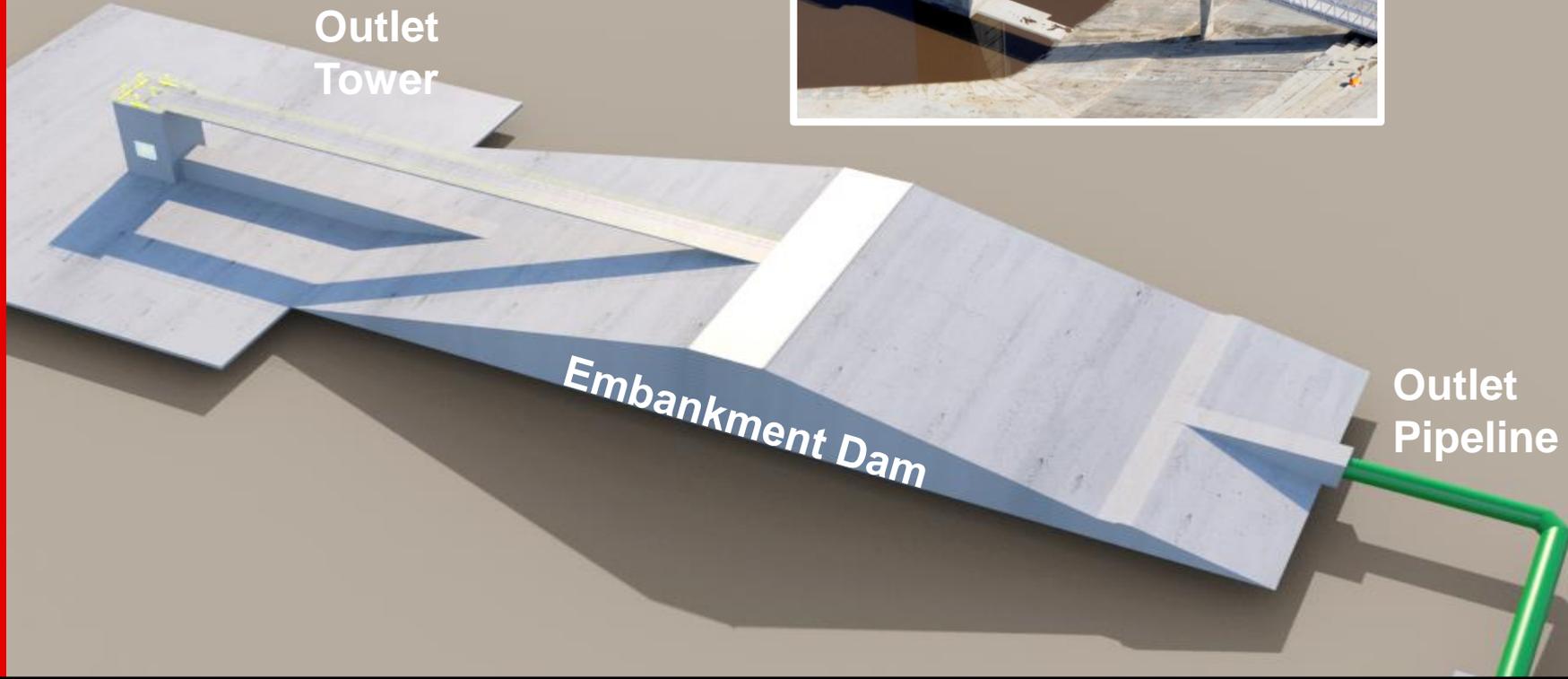
Brazos River Authority





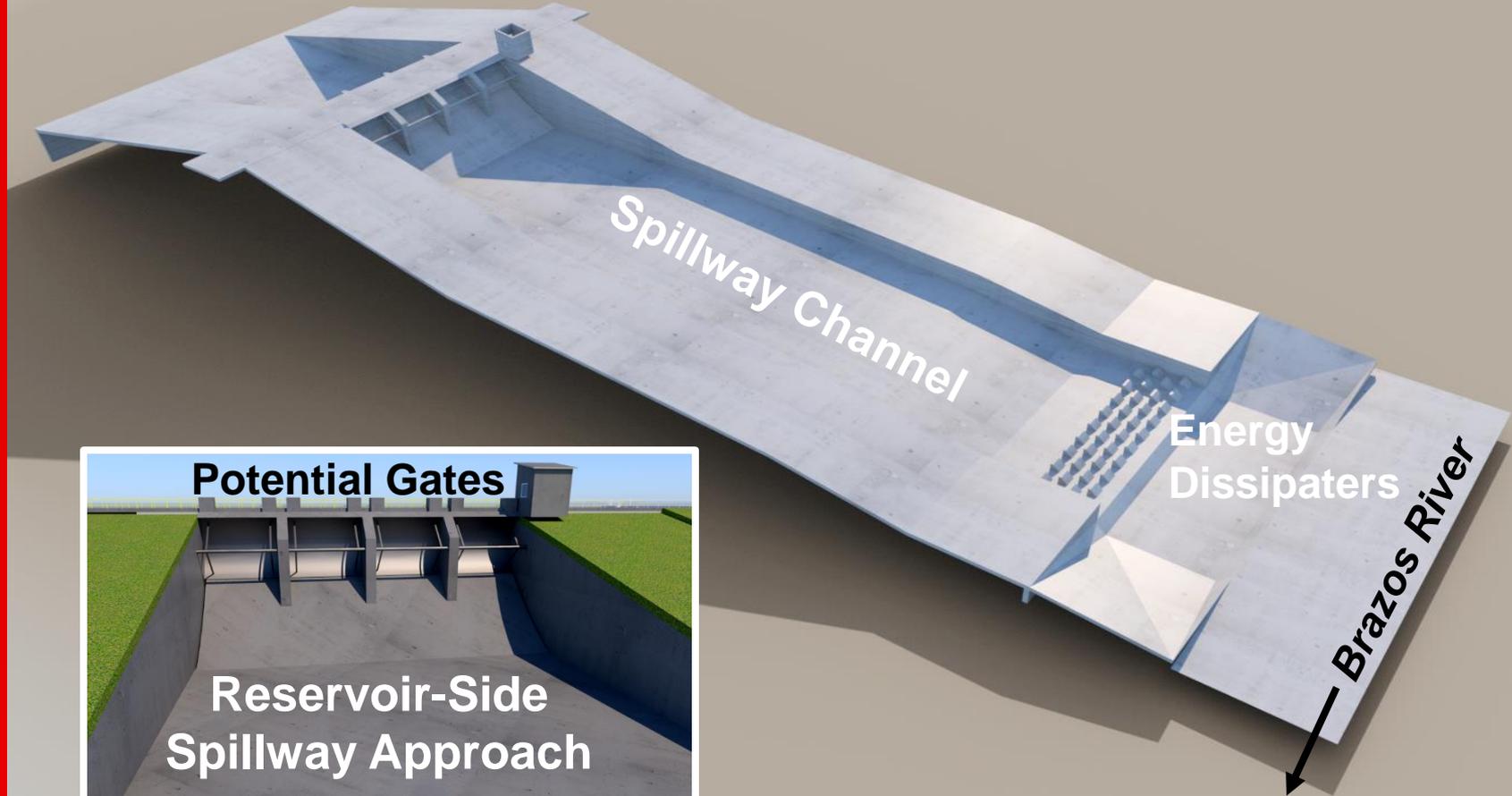


# ***Reservoir Outlet***



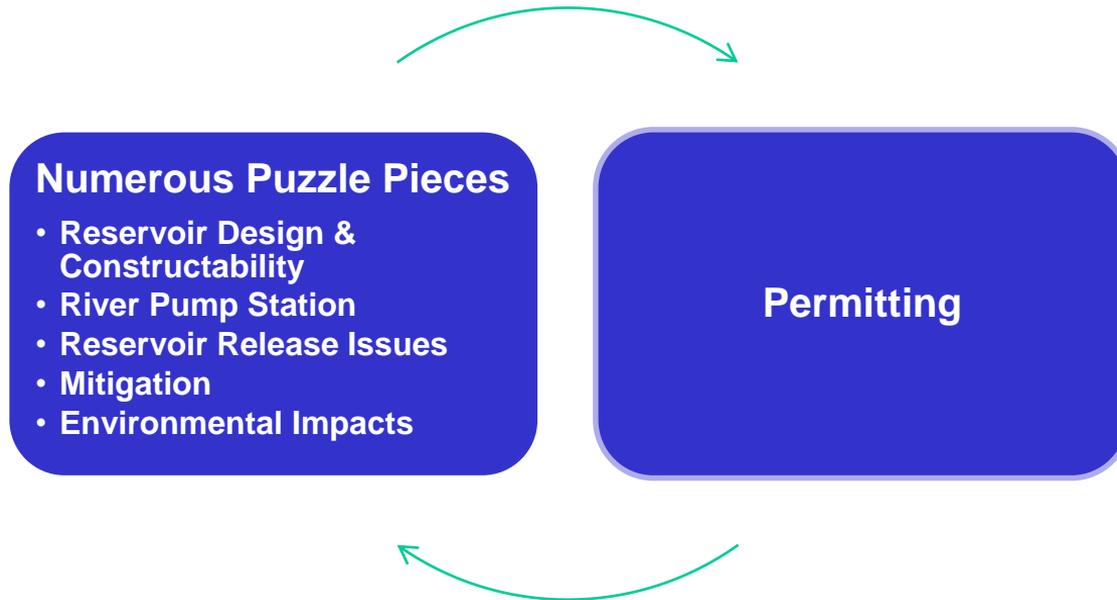


# Spillway





# Challenges





# ***Allens Creek Reservoir***

## **Project Phases & Timeline:**

- **Phase I            Environmental Assessments and 30% Design (2016-2019\*)**
- **Phase II            Permit Approval Process, Public Interaction, Archaeological Relocation, Construction Preparation (2019-2021)**
- **Phase III            Construction (2021-2024)**

*\*Assumptions are critical.*



# *Allens Creek Reservoir*

## **Estimated Project Cost:**

Phase I & II	\$80,000,000
Phase III	\$200,000,000
Mitigation	>\$25,000,000



# *Allens Creek Reservoir*

## **Next:**

- Continue Time Sensitive Environmental Work
- Finalize Agreement and Scope with MWH
- Formalize Interlocal with City of Houston
- Prepare a Funding Plan to Present to the Board in April
- Board Approval in April



# Brazos River Authority