



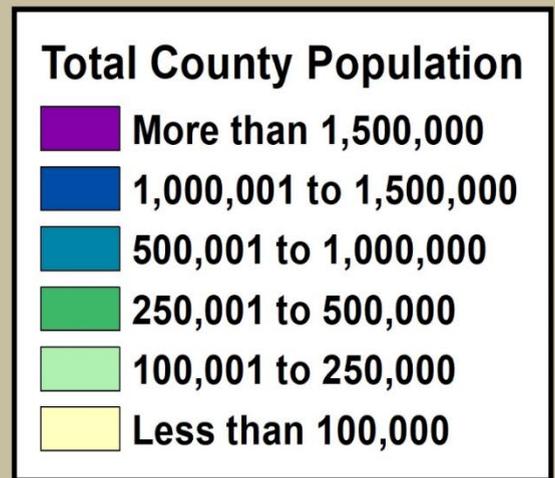
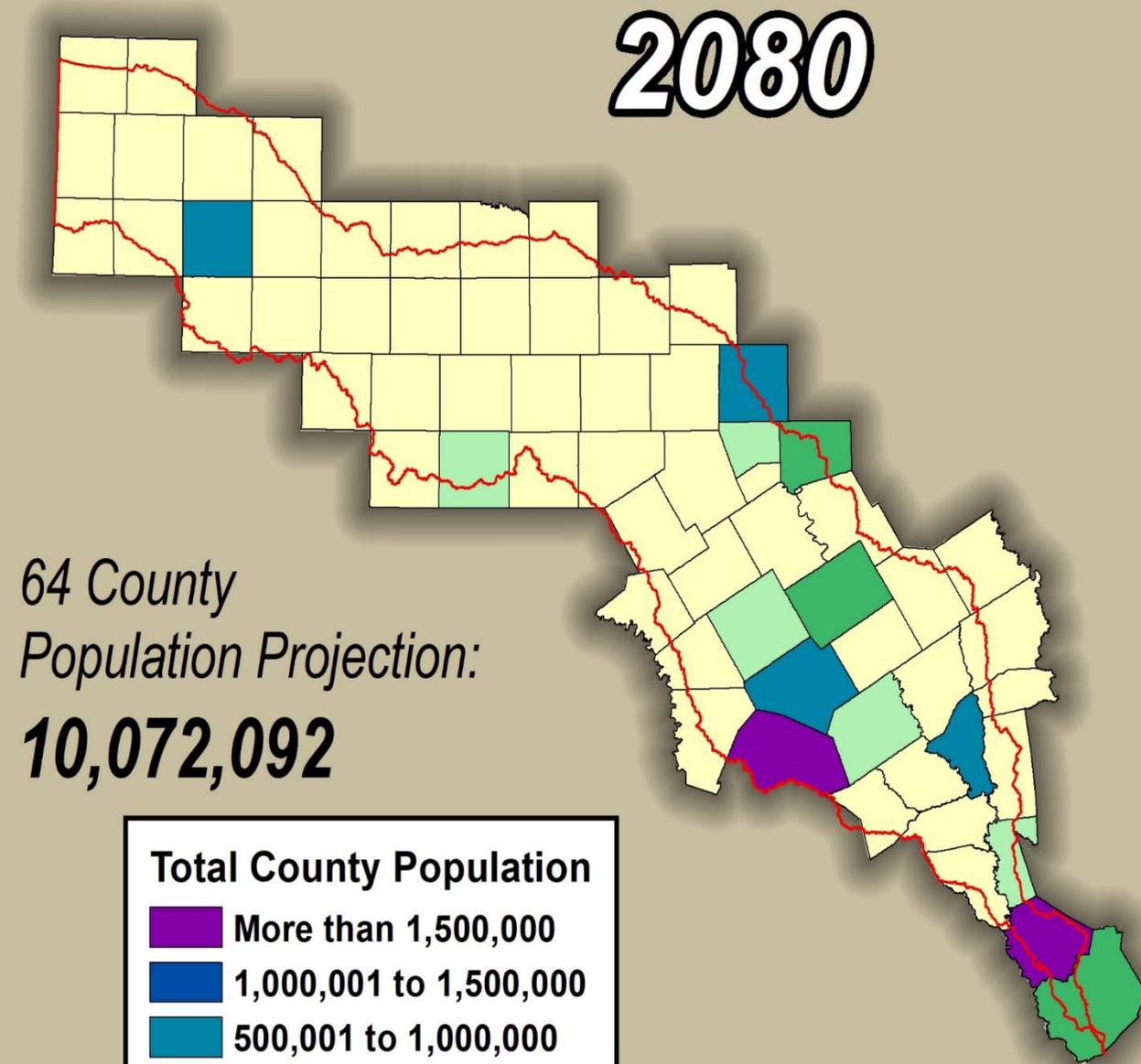
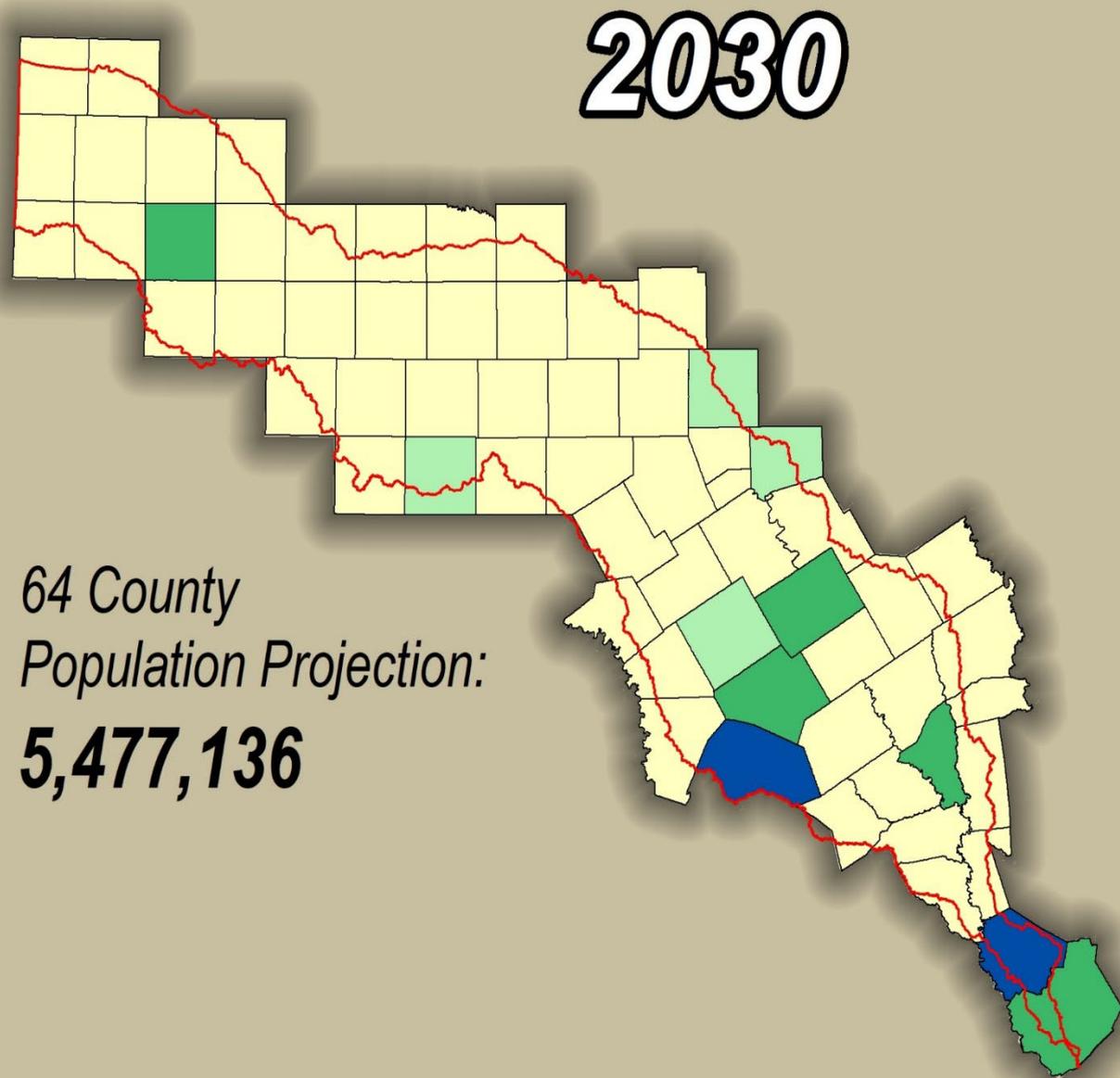
Allens Creek Reservoir Project

***Presented by
Jon King
Chief Strategic Officer***



Brazos Basin Population Growth

Projected Increase: 4,594,956

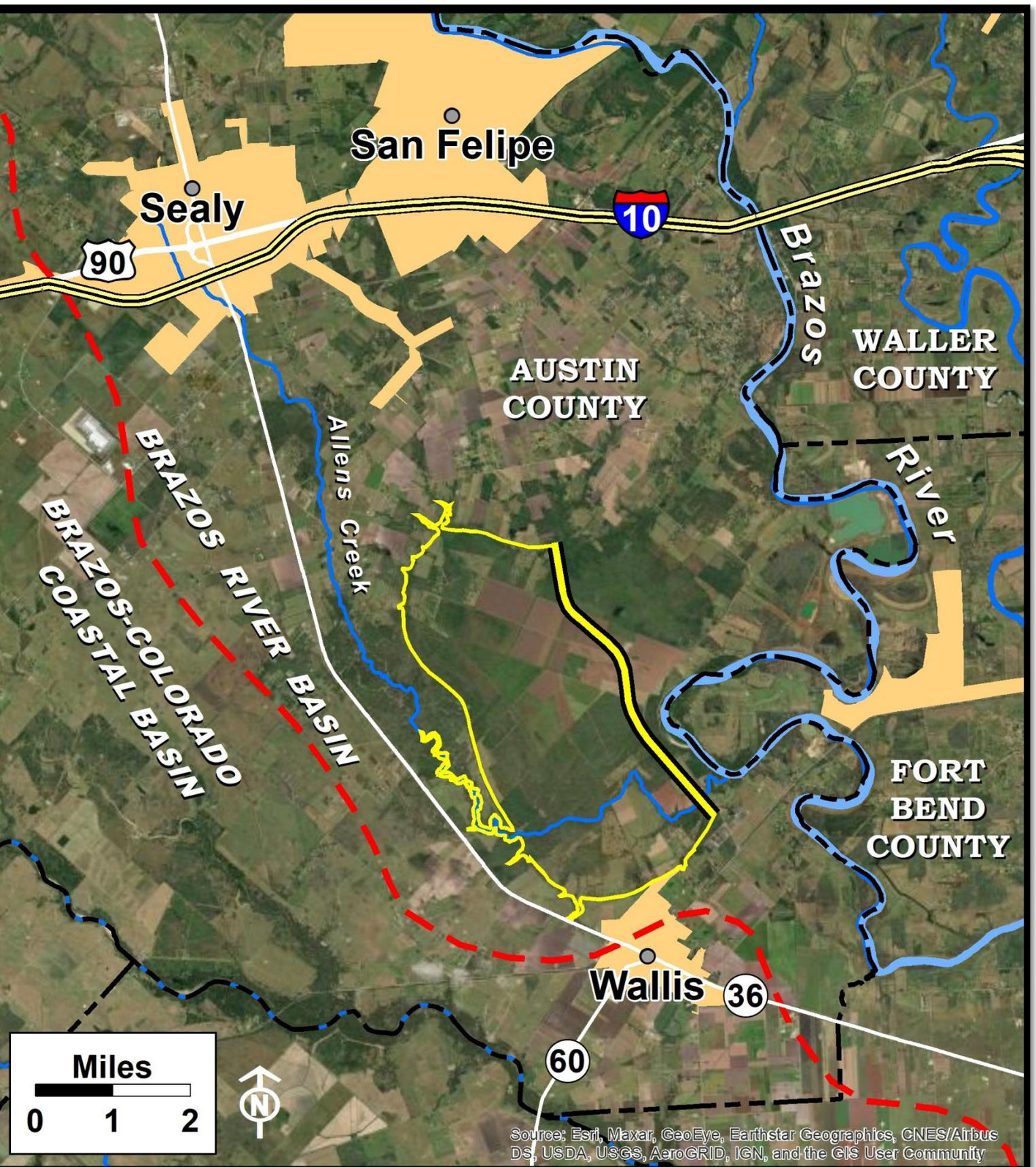


Prepared by



IGCR\Population\CountyPopProjections-2030to2080-widescreen-v2.mxd

Source: 2026 Regional Water Plan Board-Adopted Population Projections (Texas Water Development Board)





Allens Creek Reservoir Project Overview

Austin County

- *BRA Sole Ownership*
- *Property - Over 9,500 Acres*

TCEQ Water Right Permit

- *Impound – 145,533 af*
- *Divert – 2,200 cfs*
 - *Two Potential Intake Locations*
- *Yield – 99,650 af/yr*

Project Features

- *Embankment*
- *Spillway*
- *Intake*
- *Pump Station*



Permitting and Preliminary Design

- **Supports Permit Application**
- **Preliminary Engineering**
 - **Alternatives Analysis**
- **Studies and Evaluations**
 - **Environmental & Cultural**
- **Public Engagement**

Final Design

- **After Permit Issuance**
- **Final Design for Project Components**
 - **Embankment**
 - **Intake and Pump Station**
 - **Conveyance Pipeline**
 - **Outfall Structures**

Construction

- **Procurement**
- **Construction**
- **Commissioning**
- **Turnover**



Next Tasks:

Survey and Utility Corridor Study

- **Terrestrial and Bathymetric**
- **Define Major Utilities**
- **Supports Design**

Geomorphic Study

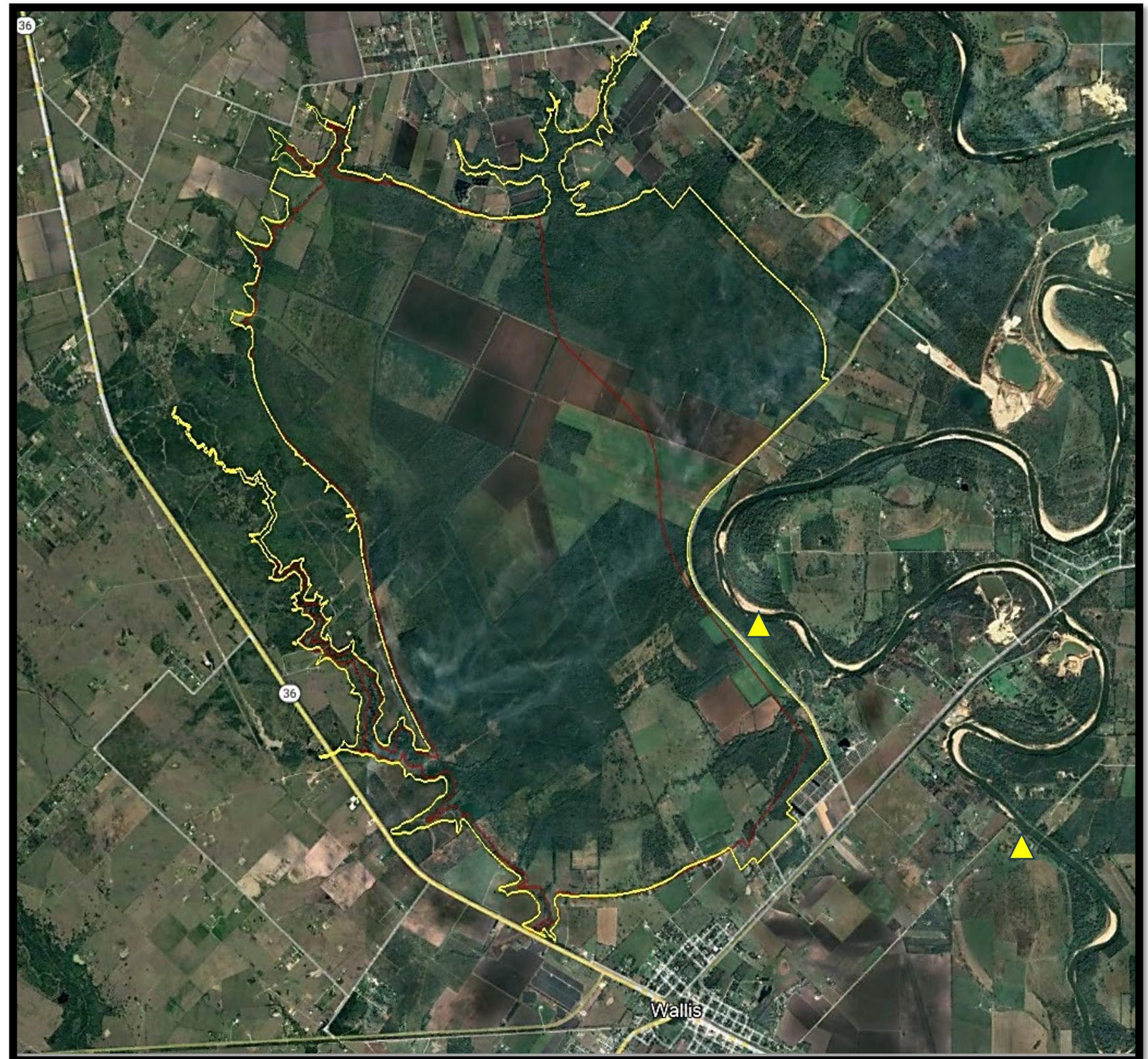
- **Evaluate Stability of Pump Station Alternatives**
- **Informs Pump Station Siting**

Preliminary Cultural and Environmental Study

- **Provide Baseline Data**
- **Informs Future C&E Studies**

Preliminary Geotechnical Investigation

- **Explore General Geologic Parameters**
- **Supports Permitting and Design**





Next Tasks:

Survey and Utility Corridor Study

- Terrestrial and Bathymetric
- Define Major Utilities
- Supports Design

Geomorphic Study

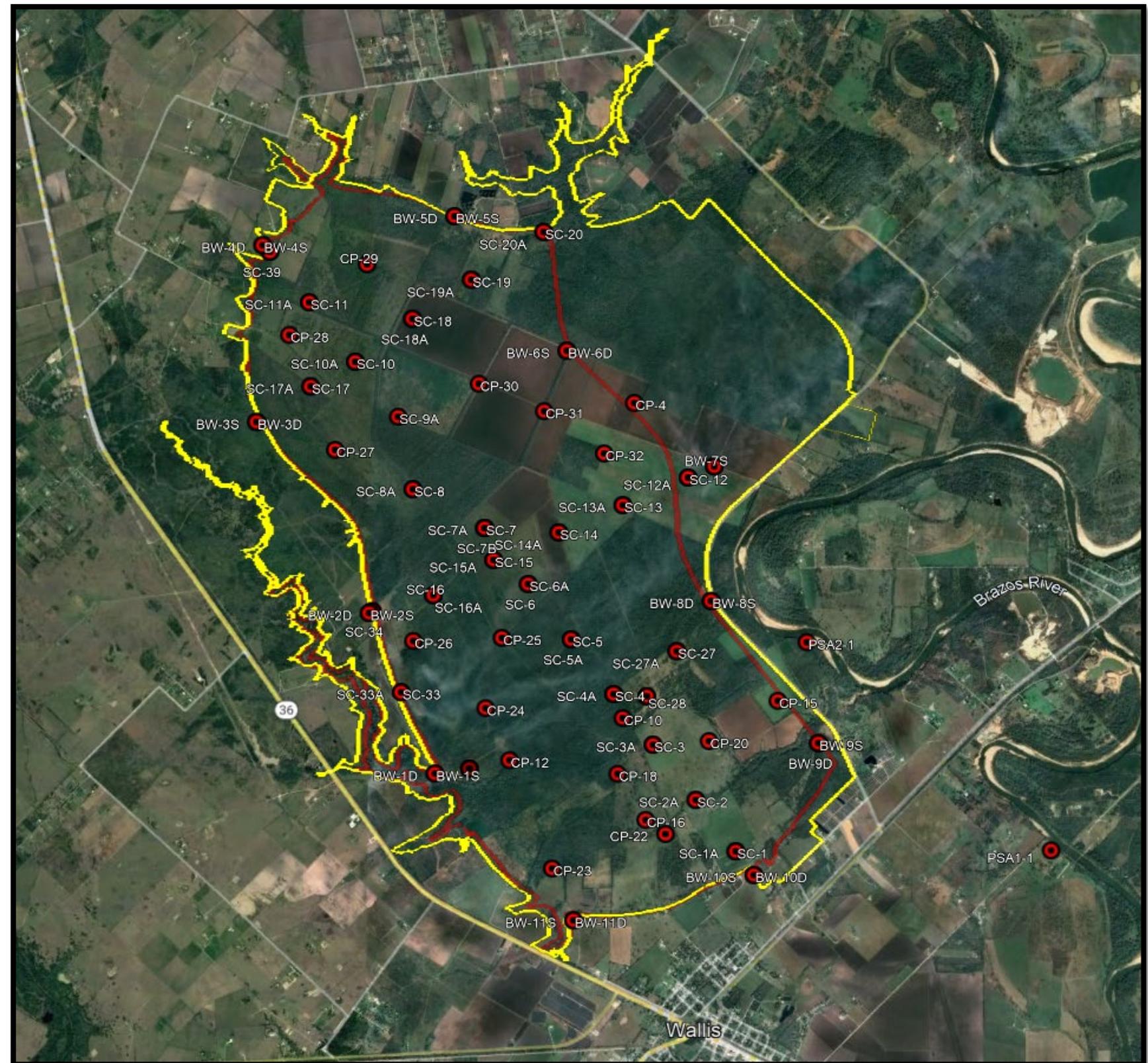
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Preliminary Geotechnical Investigation

- Explore General Geologic Parameters
- Supports Permitting and Design





Brazos River Authority



1995

Image U.S. Geological Survey

Google Earth



Brazos River Authority



2024

Image © 2025 Airbus

Google Earth

Gannett Fleming

Overview:



- Founded in 1915
- 3,300+ Employees
- Worked with BRAs since 2017

Project Team includes:

- HDR, Rife line, Northwest Hydraulic Consultants, Terracon, Fugro, BIO-West

OUR TEAM'S RELEVANT EXPERIENCE INCLUDES:



FEDERAL PERMITTING

1,000+

IDIQ contracts supporting the planning, design, construction and remediation of critical water supply structures



TEXAS STATE PERMITTING

50+

permit actions over the past 10 years, including numerous water resource projects in the Brazos River basin and the Gulf Coast Plains



WATER RESOURCE ANALYSIS

35+

Studies and safe yield investigations, from a single reservoir to complex composite systems



RESERVOIR DESIGN

800+

includes award-winning reservoir projects with innovative design and construction techniques



EARTHEN EMBANKMENT DESIGN

500+

ranging from small, 15-foot-high earthfill dams to those reaching 300 feet in height



RIVER INTAKES

100+

from passive in-channel screen installations to concrete streambank intakes to dam intake type structures



PUMP STATION DESIGN

500+

with capacities from 60 gpm to 225 mgd, and motor sizes from 5 to 3,000 hp



SURFACE WATER CONVEYANCE DESIGN

50+

from simple drop spillways to integrated intake / spillway structures

THE GANNETT FLEMING TEAM

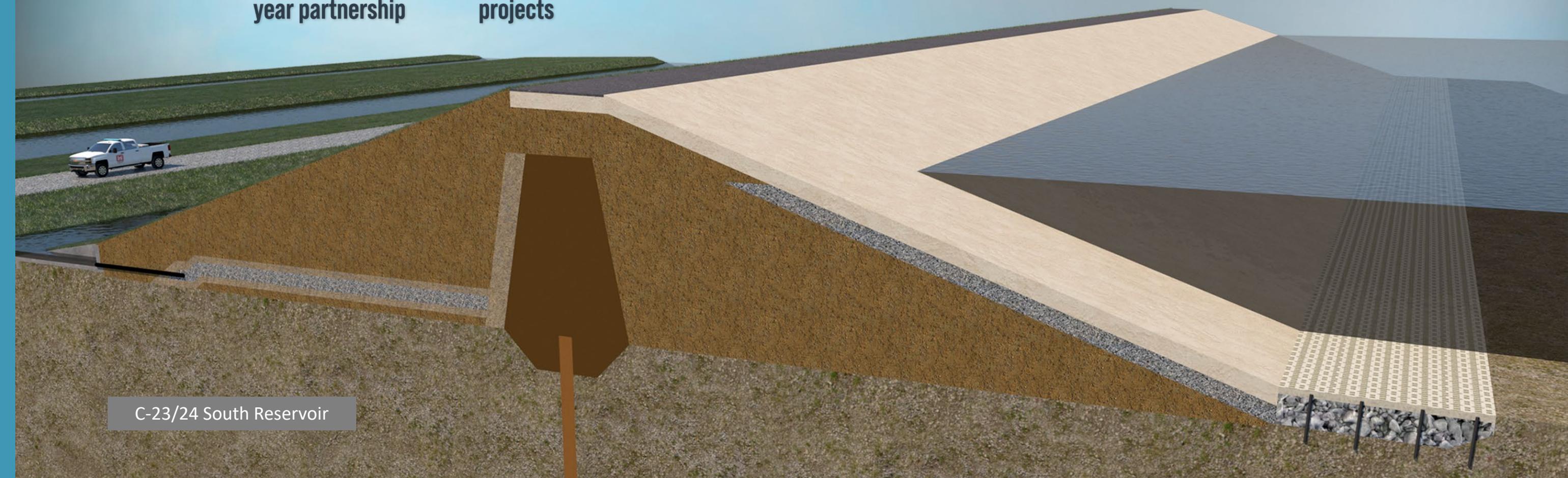


25+
year partnership

80+
projects

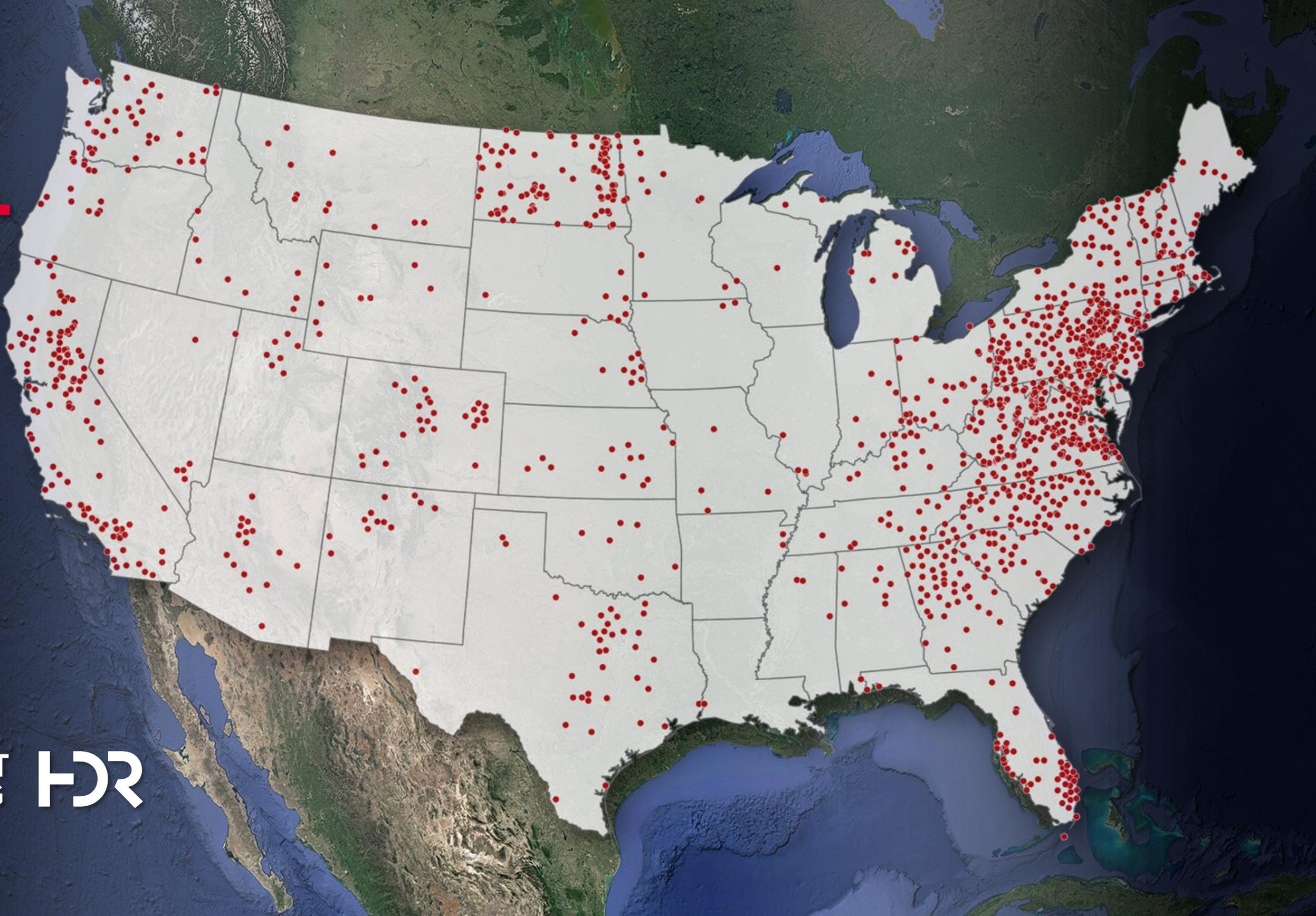
A collection of partner logos and project statistics. The logos include nhc, ARS ENGINEERS, INC., D. HERTEL & Associates, LLC, BIO-WEST, IEC Integrated Engineering & Constructor, Terracon, FUGRO, rifeLine, and CCM CONSTRUCTION COST MANAGEMENT. The statistics are: 100+ BRA projects and 200+ collaborative projects.

C-23/24 South Reservoir



3K+

**RESERVOIR
AND DAM
PROJECTS**



Task Breakdown

- Task 1 –
Survey Services & Utility
Desktop Study
- Task 2 –
River Geomorphology &
Sediment Transport Studies
- Task 3 –
Cultural & Environmental
Investigations
- Task 4 –
Geotechnical Investigations

Task 1 – Survey Services & Utility Desktop Study

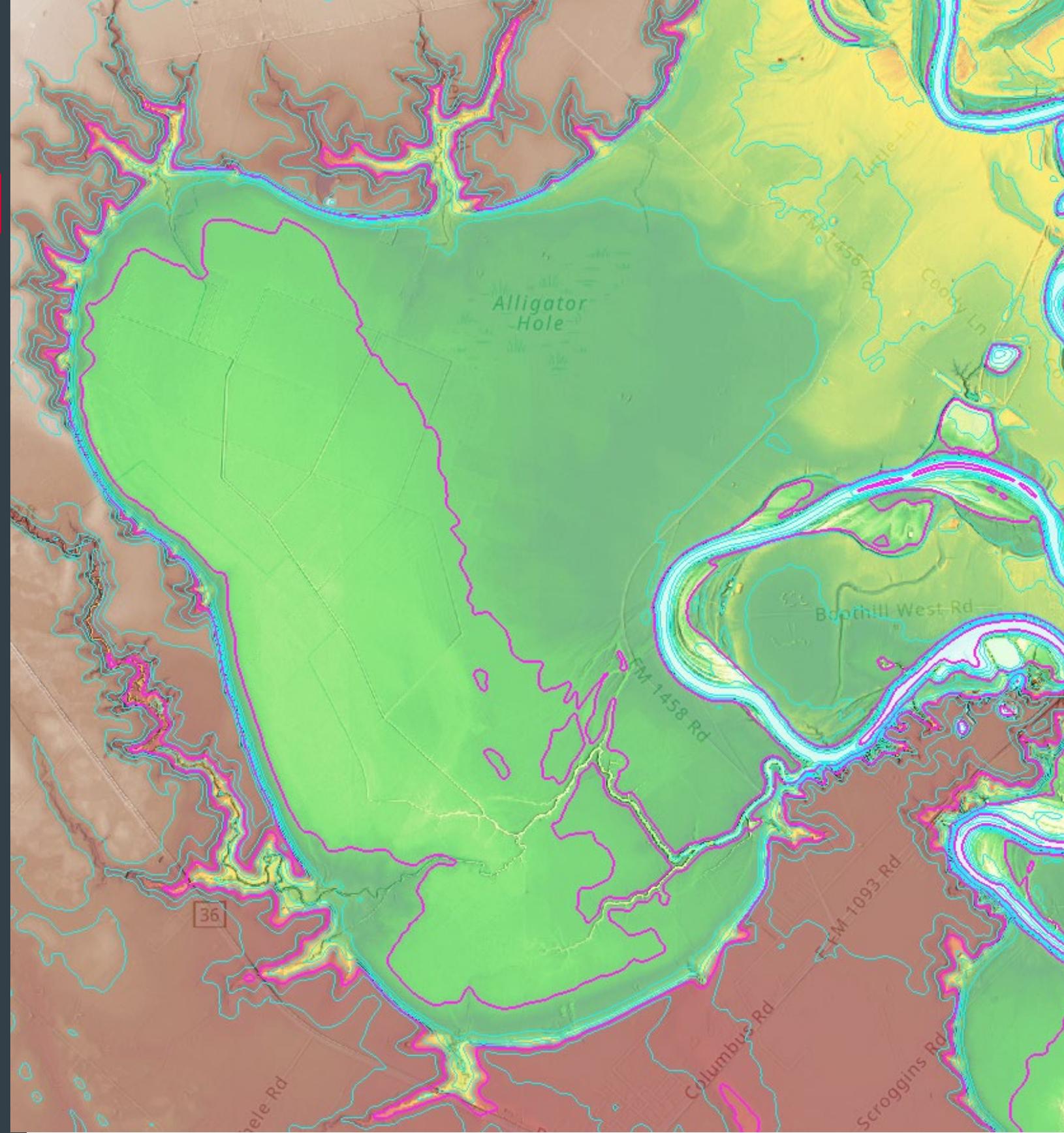
- Property Boundary
- Topography
- Planimetrics
- Bathymetry
- Right of Way
- Geotechnical Locates
- Utility Desktop Study



Task 1 – Survey Services & Utility Desktop Study

BENEFITS

- Develop accurate topography for assessment of conceptual design alternatives
- Streamline future permitting and design activities
- Confirm accuracy of parcels and BRA property boundaries
- Identify known utilities within the property and evaluate potential impact to reservoir design



Task 2 - River Geomorphology & Sediment Transport Studies

- Data Collection & Field Inspection
- Collect Flow Velocity Profiles in the Brazos River
- Geomorphic Assessment of Potential Meander Cutoff & Bank Migration
- Hydraulic Modeling to Evaluate Bank Stability
- Preliminary Sediment Transport Assessment



Task 2 – River Geomorphology & Sediment Transport Studies - **BENEFITS**

- Informs pump station location selection
- Assists with determining life cycle costs & benefits of pump station alternatives
- Informs embankment protection design



Task 3 – Cultural & Environmental Investigations

- Data Collection and Desktop Evaluations
- Preliminary On-site Resource Documentation
- Geotechnical Investigation Compliance



Task 3 – Cultural & Environmental Investigations

BENEFITS

- Data will inform conceptual designs & alternative analyses
- Streamline the planning of future events for permit application process
- Reduce uncertainty regarding future environmental & cultural investigations
- Document environmental & cultural resource compliance of geotechnical services



Task 4 – Geotechnical Investigations

- Drilling & Sampling
- Foundation Permeability Field Testing
- Laboratory Testing
- Data Analysis & Reporting



Task 4 – Geotechnical Investigations

BENEFITS

- Reduce uncertainty in conceptual designs
- Assess foundation material strength
- Develop understanding of site permeabilities
- Gather compressibility & strength data related to problematic expansive clays
- Identify potential borrow sources



Schedule

| Task | 2025 | | | | | | | | | | | 2026 | | | | | | | | | | | |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | | |
| NTP | | | ◆ | | | | | | | | | | | | | | | | | | | | |
| Survey | | | | | | | | | | | | | | | | | | | | | | | |
| Boundary & Bathymetry & Topography | | | █ | | | | | | | | | | | | | | | | | | | | |
| Planimetrics | | | | | | | | █ | | | | | | | | | | | | | | | |
| Utility Desktop Study | | | █ | | | | | | | | | | | | | | | | | | | | |
| Geomorphology | | | | | | | | | | | | | | | | | | | | | | | |
| Data Gathering & Field Inspection | | | █ | | | | | | | | | | | | | | | | | | | | |
| Geomorphic Assessment | | | | | █ | | | | | | | | | | | | | | | | | | |
| Sediment Transport Assessment | | | | | | | | | █ | | | | | | | | | | | | | | |
| Cultural & Environmental | | | | | | | | | | | | | | | | | | | | | | | |
| Data Collection | | | █ | | | | | | | | | | | | | | | | | | | | |
| Desktop/Remote Sensing Evaluations | | | | █ | | | | | | | | | | | | | | | | | | | |
| Preliminary On-Site Resource Documentation & Reporting | | | | | █ | | | | | | | | | | | | | | | | | | |
| Geotechnical | | | | | | | | | | | | | | | | | | | | | | | |
| Drilling, Sampling & Field Testing | | | █ | | | | | | | | | | | | | | | | | | | | |
| Piezometer/Well Installation | | | | | | | █ | | | | | | | | | | | | | | | | |
| Laboratory Testing | | | | | | | | | █ | | | | | | | | | | | | | | |
| Data Analysis | | | | | | | | | | | | | | | █ | | | | | | | | |

Fee

| Task | Fee |
|---|-------------|
| 1. Survey Services & Utility Desktop Study | \$1,860,955 |
| 2. River Geomorphology & Sediment Transport Studies | \$674,890 |
| 3. Cultural & Environmental Investigations | \$281,750 |
| 4. Geotechnical Investigations | \$6,986,231 |
| TOTAL | \$9,803,826 |



“BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a professional services contract with Gannett Fleming, Inc. for activities associated with the permitting and design services of the Allens Creek Reservoir Project in Austin County, Texas, in an amount not to exceed \$9,803,806.00.



BE IT FURTHER RESOLVED that the Board of Directors of the Brazos River Authority hereby approves and authorizes an amendment to increase the Fiscal Year 2025 Allens Creek Reservoir Project Capital Improvement Budget from \$500,000.00 to \$7,230,000.00 to cover timing differences in project delivery. ”



Brazos River Authority



Brazos



RIVER AUTHORITY