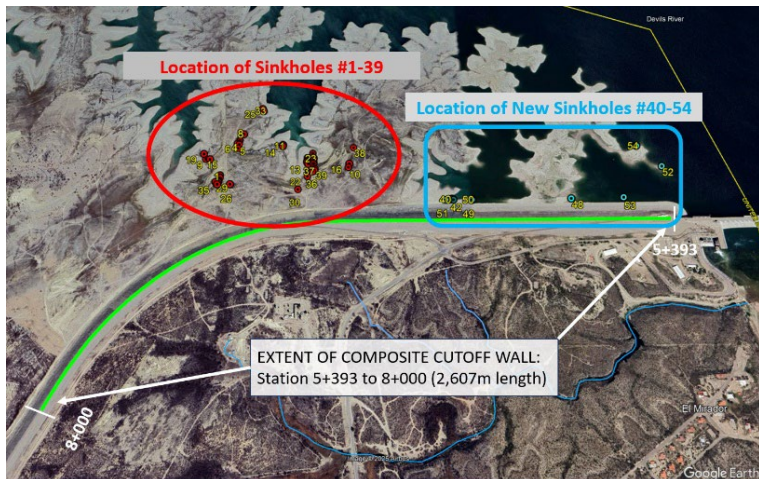


## AMISTAD DAM FACT SHEET



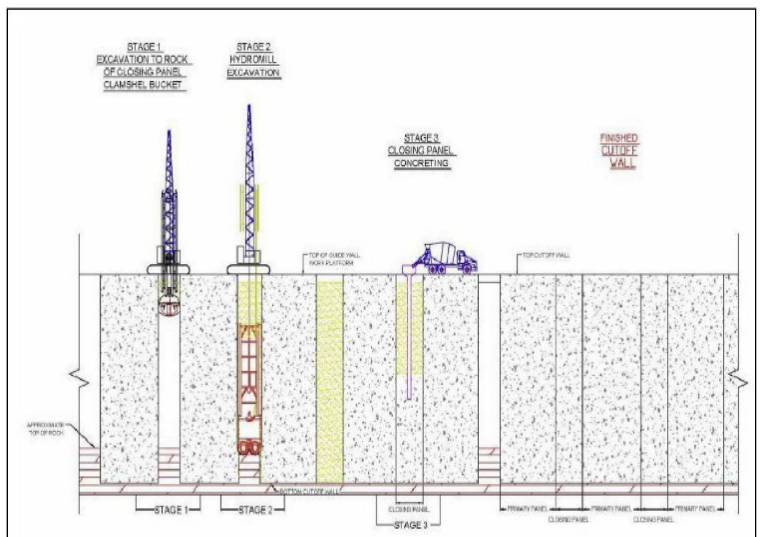
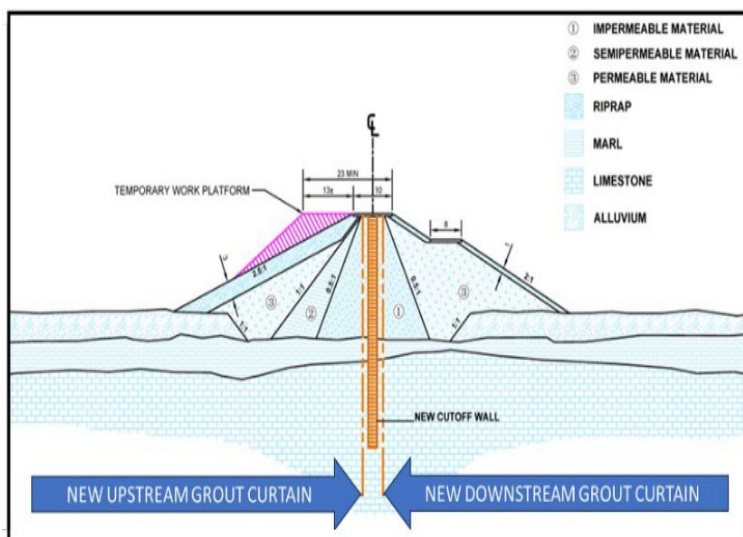
Located on the Rio Grande 11.81 miles (19 kilometers) north of the cities of Del Rio, Texas and Ciudad Acuña, Coahuila, Amistad Dam is the second international storage dam built jointly by the United States and Mexico, pursuant to the 1944 Water Treaty. Construction began in 1963 and was completed in 1969. Amistad Dam includes Ports of Entry for both the U.S. and Mexico and is owned and operated by the International Boundary and Water Commission (IBWC). Amistad Dam is the 12th largest dam in the U.S. and is approximately 6 miles (10 km) long with 1.81 miles (2,922 m) in the U.S. and 4.23 miles (6,811 m) in Mexico. Amistad Dam has a total storage capacity of about 5,535,000 acre-feet for flood control, conservation, hydroelectric, and recreational purposes.

### ISSUES

- 55 sinkholes identified
  - Potential risk to structure's stability
  - Class II DSAC– Potentially Unsafe
- DSAC = Dam Safety Action Classification  
(Dam Safety Modification Report, 2020)*
- 400K people at risk of flooding
  - Water supply for 3M people
  - Disruption of international commerce

| Year      | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002-2011 | 2012 | 2013 | 2014 | 2015 | 2016-2019 | 2020 | 2021-2022 | 2023 | 2024 | 30 YRS |
|-----------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|-----------|------|-----------|------|------|--------|
| Sinkholes | 10   | 1    | 2    | 5    | 1    | 0    | 2    | 4    | 0         | 5    | 3    | 1    | 1    | 0         | 1    | 0         | 3    | 16   | 55     |

### COMPOSITE CUTOFF WALL



## DESIGN AND CONSTRUCTION APPROACH

### PHASE 1: Design and Construction of a two-line grout curtain (Upstream and Downstream)

- Geotechnical analysis for preliminary grout curtain design
- Design and construction to required depths and limits per the geotechnical analysis
- Modifications to design as construction progresses if undiscovered voids are encountered
- Grout curtain depth will establish the cutoff wall depth and allow us to finalize the cutoff wall design and cost.
- Ancillary works will also be completed such as the bypass road

### PHASE 2: Design and Construction of a concrete cutoff wall

- Design and construction to required depths and limits based on grout curtain phase
- Series of concrete panels installed from atop the crest and set between the two grout curtains
- Constructed in primary and secondary sequence for optimization
- Additional ancillary works will be completed such as widening the dam crest

|                                           | 2024 |     |     |      |     |     |      |     |     | 2025 |     |     |      |     |     |      |     |     | 2026 |     |     |      |     |     |      |     |     | 2027 |     |     |      |     |     |      |     |     |
|-------------------------------------------|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|
|                                           | FY24 |     |     | FY25 |     |     | FY26 |     |     | FY27 |     |     | FY28 |     |     | FY29 |     |     | FY30 |     |     | FY31 |     |     | FY32 |     |     | FY33 |     |     | FY34 |     |     | FY35 |     |     |
|                                           | Jan  | Feb | Mar | Apr  | May | Jun | Jul  | Aug | Sep | Oct  | Nov | Dec | Jan  | Feb | Mar | Apr  | May | Jun | Jul  | Aug | Sep | Oct  | Nov | Dec | Jan  | Feb | Mar | Apr  | May | Jun | Jul  | Aug | Sep | Oct  | Nov | Dec |
| A/E to develop CutoffWall SOW & contract  |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Design Solicitation                       |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Design for Grout Curtain and Cutoff Wall  |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Grout Construction Presolicitation        |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Grout Solicitation                        |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Construction                              |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Construction-Work Platform, Grout Curtain |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Construction-Work Platform                |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Upstream Grout Curtain                    |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Downstream Grout Curtain                  |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Cutoff Wall Solicitation (Complete)       |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Construction- Cutoff Wall                 |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Construction-Cutoff wall                  |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| CMS and USACE Support                     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |
| Fiscal Year Quarter                       | 2Q   |     |     | 3Q   |     |     | 4Q   |     |     | 1Q   |     |     | 2Q   |     |     | 3Q   |     |     | 4Q   |     |     | 1Q   |     |     | 2Q   |     |     | 3Q   |     |     | 4Q   |     |     | 1Q   |     |     |

## ONGOING ACTIVITIES

- Continue monitoring Amistad Dam instrumentation
- Update and maintain Amistad Dam Emergency Action Plan
- Current funds available for Phase 1
- Estimated Total Cost Range for Both Phases: \$80M – \$276M\*\*\*

\*\*\*Estimated project cost contingent on required depth obtained in phase 1 and inflation

## MAJOR MILESTONES

- **September 17, 2024:** Phase 1 Design awarded to Technoproject, S.A. de C.V.
- **December 10, 2024:** U.S. and Mexico signed Minute 332, stipulating total cost between the countries for design and construction: 56.2% for the U.S. and 43.8% for Mexico
- **March 2025:** Tentative completion of design, estimate expected of full cost of project
- **July 2025:** Construction expected to begin and could last 30 months\*\*\*\*

\*\*\*\*All construction is subject to availability of funding.

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