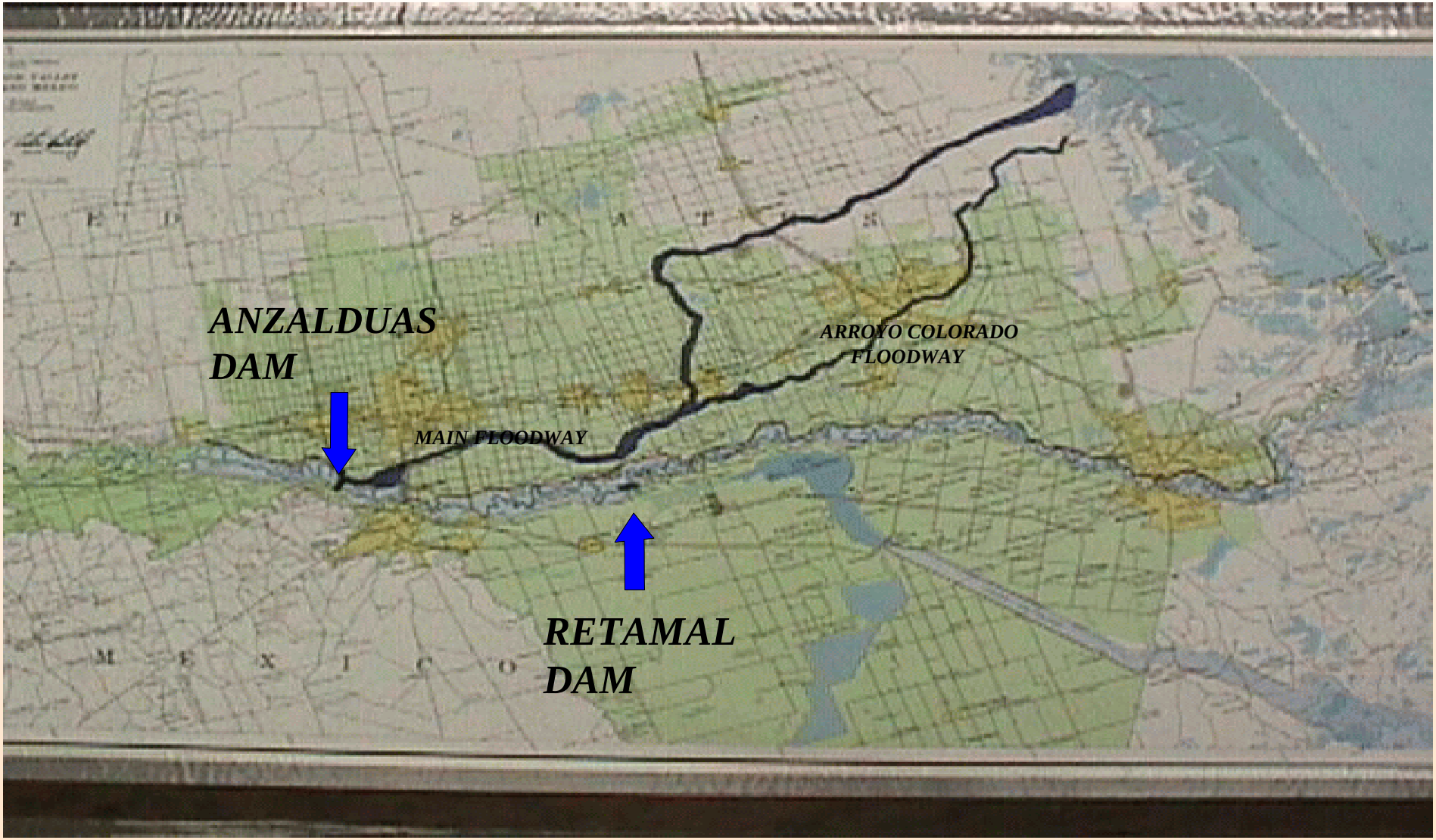
LOWER RIO GRANDE FLOOD CONTROL PROJECT

Mercedes Field Office

- *47 Employees Total*

Project Features



Lower Rio Grande Flood Control Project

- *270 miles of levees*
- *30,000 acres of interior floodway*
- *420 drain structures*
- *180 irrigation structures*
- *Provides flood protection for hundreds of thousands of U.S. residents*

Mowing Operations

- *8,000 Acres Mowed Yearly*

Rio Grande River Clearing & Wildlife Corridor

- *34.5 Mile Reach in Brownsville, Texas*
- *Clear 75' from Water's Edge*
- *33' Continuous Wildlife Corridor*

Rio Grande River Clearing & Wildlife Corridor

Levee Roadway Maintenance

- *270 Miles of Levee*

Levee Structure Maintenance

- *550+ Drainage & Irrigation Structures*

Traffic Control Operations

- *290 Gates & 750 Signs*

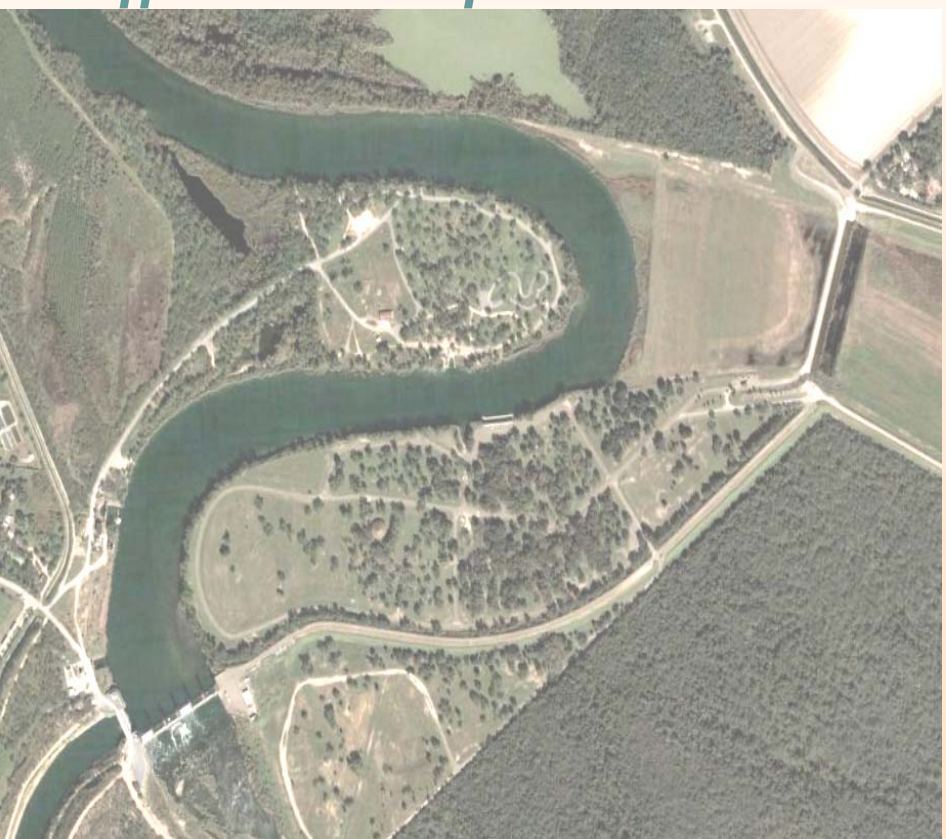
Levee Reconditioning

Pilot Channel/Drainage Ditch Cleanout

Hydrographic Operations

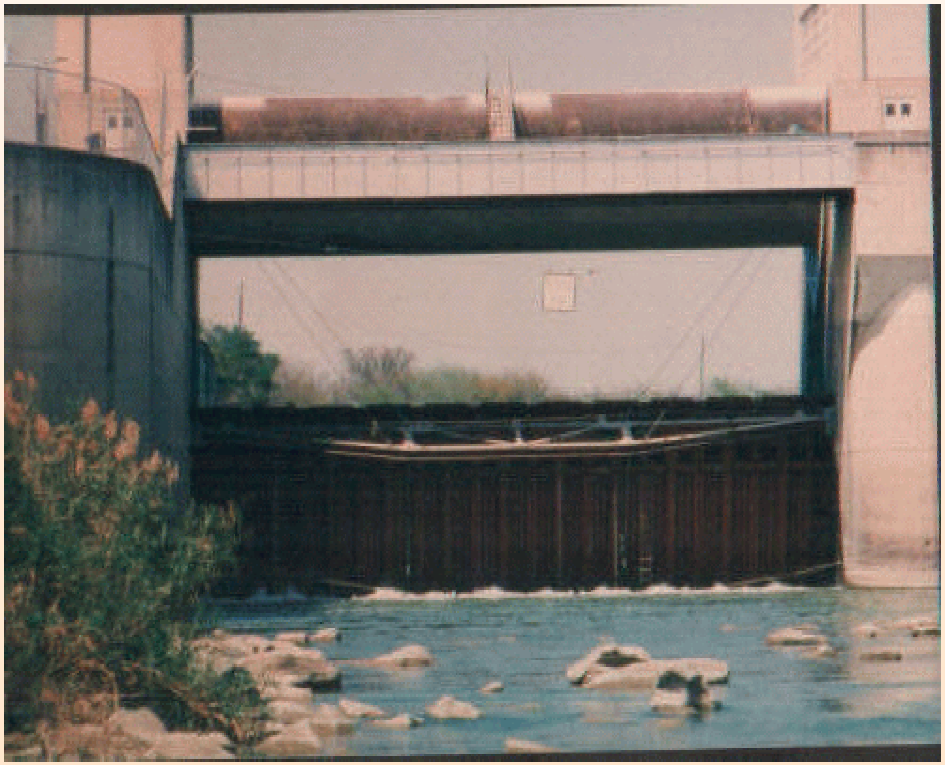
Anzalduas Dam

- *Joint U.S./Mexico O&M*
- *Assure diversion of the U.S. share of floodwaters to the interior floodway*
- *Diversion of water to Mexico's irrigation canal*
- *Effect releases for downstream water users in both countries*



Anzalduas Dam

- *24 Hour Operation*
- *Perform Maintenance to 2 Gates Per Year*



Retamal Dam

- *Began Operation May, 1975*
- *Joint U.S./Mexico O&M*
- *To enable Mexico to divert to its interior floodway its share of Rio Grande floodwaters*
- *To limit flood flows at Brownsville-Matamoros*

Banker Weir/Inlet

- *Inlet To U.S. Interior Floodway*
- *Crest Elevation Of 106.50'*

Flood Operations

1973 Flood
Anzalduas Dam

1976 Flood
Retamal Dam

Flood Operations

1976 Flood
Mouth of Rio Grande with 13,500 cfs

Flood Operations

1978 Flood
Banker Weir with 9,200 cfs

1978 Flood
Divisor Dike with 10,000 cfs

Morillo Drain Project

- *Extends for 75 miles through Tamaulipas from 8 miles above Anzalduas Dam to the Gulf of Mexico*
- *Conveys highly saline return flows from a Mexican irrigation district to the Gulf of Mexico*
- *Costs shared by both countries and Lower Rio Grande Valley water users*

Morillo Drain Project

Morillo Drain Project

- *Canal Capacity of 3cms*

Morillo Drain Project

Morillo Drain Encasement Project

Cutting of Pipe Sections

Preparation of Pipe Section before Installation

Morillo Drain Encasement Project

Start of Project – Pipe Outlet

Laying of Pipe

Morillo Drain Encasement Project

Hauling of Pipe Section by the Excavator

Installation of Seals at Pipe Joint

Morillo Drain Encasement Project

Connecting Pipe Sections

Connecting Pipe Sections

Morillo Drain Encasement Project

Compaction of Material Along Pipe

Compaction of Material Above the Pipe

Morillo Drain Encasement Project

Construction of Outlet Headwall

Finished Outlet Headwall

Morillo Drain Encasement Project

Construction of Inlet Headwall

Finished Inlet Headwall

Morillo Drain Encasement Project

Manhole

Removal of Berm in Canal

Morillo Drain Encasement Project

Water Released Into Inlet Headwall

View of Canal and Inlet Headwall

Morillo Drain Encasement Project

Water Discharged at Outlet Headwall

Downstream View of Canal

Morillo Drain Encasement Project

Embankment Erosion at Morillo Drain Encasement Site

Embankment Erosion at Morillo Drain Encasement Site