



LOWER RIO GRANDE FLOOD CONTROL PROJECT

LOWER RIO GRANDE CITIZENS FORUM

MAY 9, 2018

LOWER RIO GRANDE FLOOD CONTROL PROJECT FEATURES

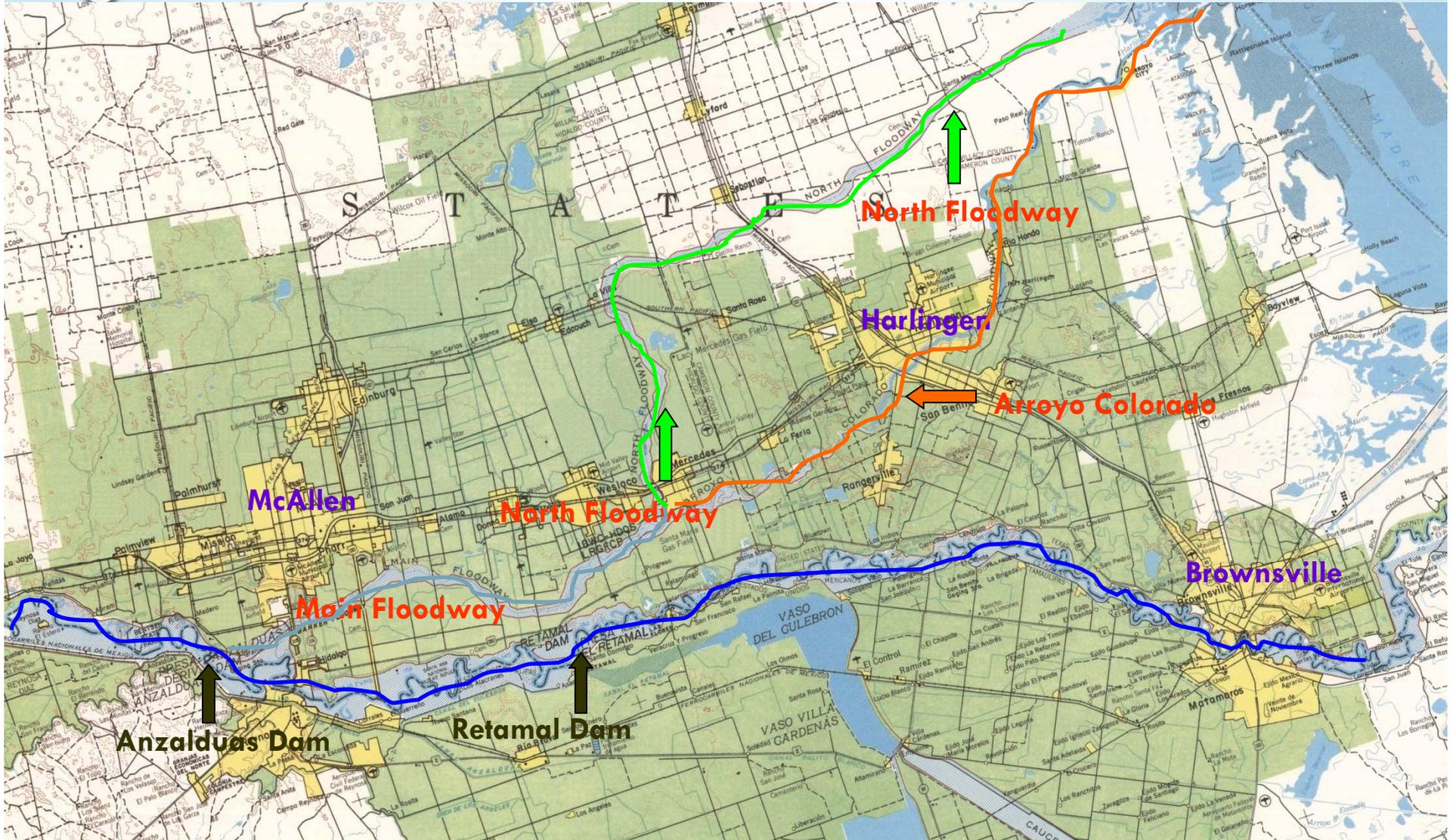
- 2 INTERNATIONAL DAMS
- 270 MILES OF U.S. LEVEES ALONG THE RIVER AND FLOODWAYS
- 30,000 ACRES OF INTERIOR FLOODWAY
- 64 MILES OF PILOT CHANNEL
- U.S. FLOODWAY SYSTEM INCLUDES BANKER FLOODWAY, MAIN FLOODWAY, NORTH FLOODWAY, AND ARROYO COLORADO
- RETAMAL DAM – DIVERTS MEXICO'S SHARE OF FLOODWATERS INTO MEXICO'S INTERIOR FLOODWAY SYSTEM



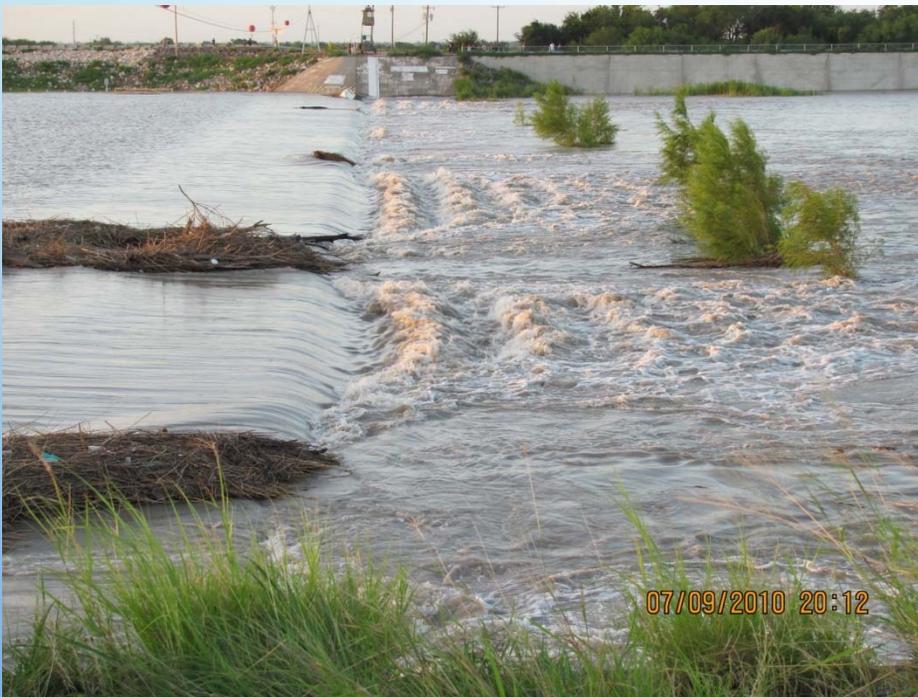
Retamal Dam



LOWER RIO GRANDE FLOOD CONTROL PROJECT



LOWER RIO GRANDE FLOOD CONTROL PROJECT FEATURES



Gaging station at Banker Weir Inlet

- ANZALDUAS DAM – DIVERTS U.S. SHARE OF FLOODWATERS INTO THE U.S. INTERIOR FLOODWAY SYSTEM
- DIVERSION OF FLOODWATERS INTO THE U.S. INTERIOR FLOODWAYS ALLOWS COMMISSION TO CONTROL FLOWS IN THE RIO GRANDE AT BROWNSVILLE-MATAMOROS
- 420 DRAIN STRUCTURES AND 180 IRRIGATION STRUCTURES CROSS THE LEVEES
- GAGING STATIONS TO MEASURE WATER FLOW



DESIGN FLOOD

- Lower Rio Grande Flood Design Criteria
 - 250,000 cfs at Rio Grande City
 - 105,000 cfs into the U.S. floodway at Anzalduas Dam
 - 21,000 cfs in the Arroyo Colorado
 - 84,000 cfs in the North Floodway
 - 105,000 cfs in the Mexican floodway at Retamal Dam
 - Limit flows to 20,000 cfs at Brownsville-Matamoros

Arroyo Colorado

Harlingen, TX 8/18/10



8/15/2010 04:35:00 PM Dir=SSW Lat=N26 10' 49.63" Lon=W097 40' 29.47" Alt=1014ft MSL WGS 1984



The background is a light blue gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

CURRENT OPERATIONS OF THE LOWER RIO GRANDE FLOOD CONTROL PROJECT

OPERATION AND MAINTENANCE OF DAMS

- **YEARLY MAINTENANCE**

- 1. MAINTENANCE OF GATES #1 AND #6 AT ANZALDUAS DAM**

- 2. MAINTENANCE OF GATES AT RETAMAL DAM**

ANZALDUAS YEARLY MAINTENANCE



O&M OF PROJECT FACILITIES, LEVEES AND STRUCTURES

INSPECTION AND REHABILITATION OF STRUCTURES

1. ALL STRUCTURES WITHIN IBWC FLOODWAYS AND LEVEES ARE INSPECTED ON A YEARLY BASIS.
2. STATUS OF EACH GATE IS LOGGED AND SUBMITTED TO SUPERVISOR.
3. CRITICAL ISSUES ON ANY OF THESE STRUCTURES ARE ADDRESSED IMMEDIATELY.
4. BASED ON FIELD REPORTS REPLACEMENT OF STRUCTURE GATE AND ASSEMBLIES ARE PLANNED – 20 PER YEAR.

O&M OF PROJECT FACILITIES, LEVEES AND STRUCTURES

LEVEE RESURFACING & REPAIR

1. UNDER MOA WITH DHS APPROXIMATELY 10 MILES OF LEVEE ROADWAY ARE RESURFACED WITH NEW FLEX-BASE MATERIAL EACH YEAR ON THE RIVER LEVEE. DHS PROVIDES FLEX-BASE MATERIAL AND IBWC PROVIDES LABOR AND EQUIPMENT.
2. IBWC WILL RESURFACE THE LEVEE ROADWAY IN DIFFERENT AREAS ON THE NORTH FLOODWAY.

STRUCTURE INSPECTION AND REHABILITATION AND LEVEE RESURFACING



O&M OF PROJECT FACILITIES, LEVEES AND STRUCTURES

LEVEE AND FLOODWAY MOWING

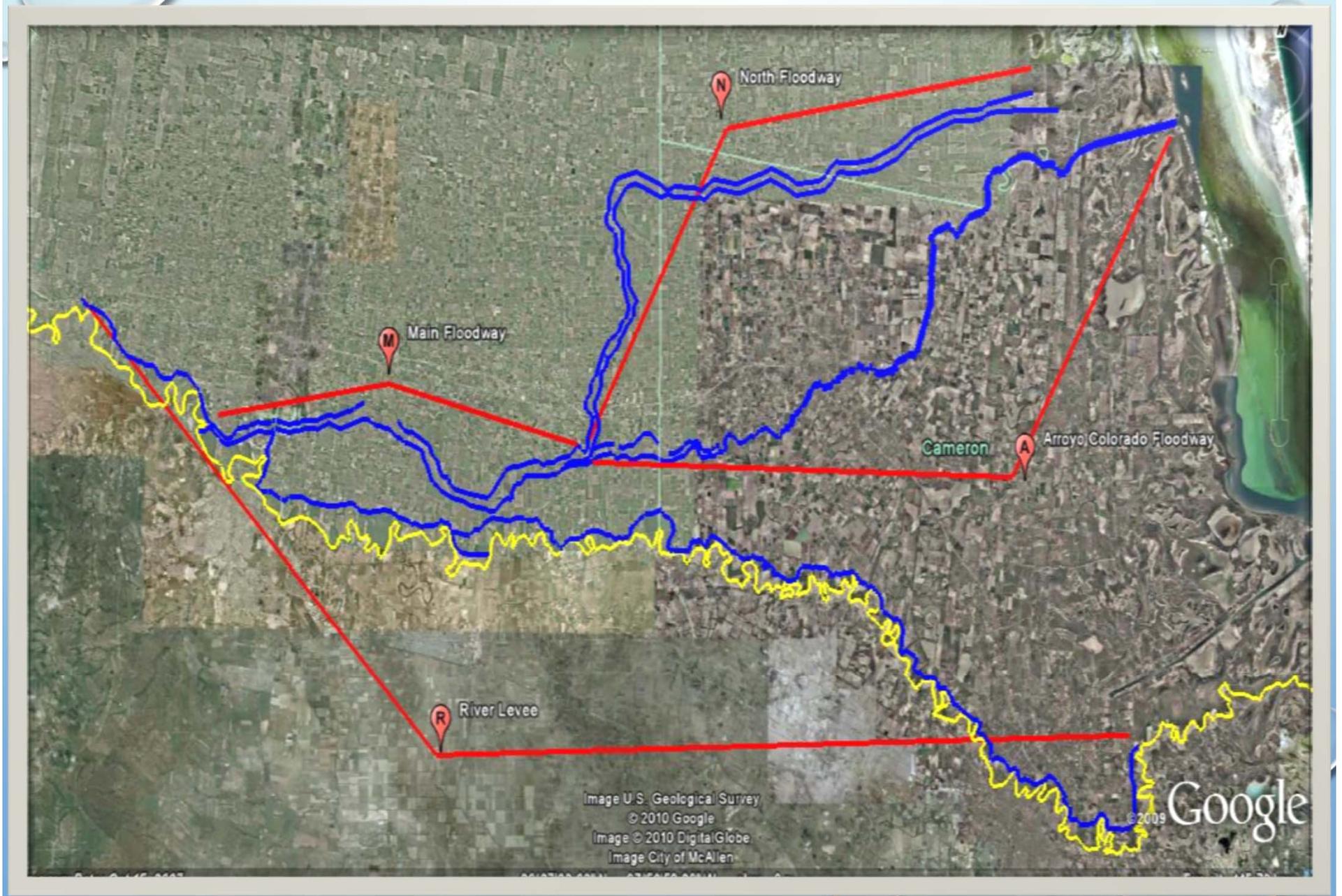
1. A TOTAL OF 8,500 ACRES ARE SCHEDULED TO BE MOWED EVERY YEAR.
2. CREWS HAVE BEEN TRAINED TO PERFORM BIRD SURVEYS DURING MIGRATORY AND NESTING SEASON.
3. THE IMPLEMENTATION OF BIRD SURVEYS HAVE LIMITED THE AREA THAT IS MOWED DURING SUCH SEASON. PRODUCTIVITY IS DOWN TO 70%.

O&M OF PROJECT FACILITIES, LEVEES AND STRUCTURES

CHANNEL AND DRAIN DESILTING

1. SEVERAL LATERAL DRAINS ARE CURRENTLY BEING CLEARED OF BRUSH AND DESILTED. THESE LATERAL DRAINS ALLOW FOR PROPER DRAINING OF WATER FLOWS FROM THE LANDSIDE OF THE LEVEES AND INTO THE PILOT CHANNEL.

FLOODWAY MOWING



FLOODWAY MOWING



HYDROLOGY & WATER ACCOUNTING

1. IT IS THE RESPONSIBILITY OF PROJECT PERSONNEL TO ASSIST THE WATER ACCOUNTING DIVISION IN THE ACCOUNTING OF RIVER FLOW DATA USED TO DETERMINE WATER OWNERSHIPS OF BOTH COUNTRIES.
2. HYDROLOGIC PERSONNEL ARE TASKED WITH THE OPERATION AND MAINTENANCE OF RIVER AND OFF-RIVER GAGING STATIONS. THESE STATIONS ARE NECESSARY TO HOUSE EQUIPMENT THAT IS USED TO ACCURATELY MEASURE FLOW IN THE RIVER AND INTERIOR FLOODWAYS.



BOUNDARY PRESERVATION

1. LRGFCP PERSONNEL ARE REQUIRED TO PERFORM 36 HISTORICAL CROSS SECTIONS OF THE RIO GRANDE IN ACCORDANCE WITH THE 1970 TREATY BETWEEN THE UNITED STATES AND MEXICO. IT IS CRITICAL THAT THESE CROSS SECTIONS BE PERFORMED IN ORDER TO CHECK FOR ANY POSSIBLE BOUNDARY CHANGES THAT MIGHT OCCUR DUE TO CHANGES IN THE COURSE OF THE RIVER. APPROXIMATELY 12 CROSS SECTIONS ARE PERFORMED A YEAR OF A THREE-YEAR CYCLE.

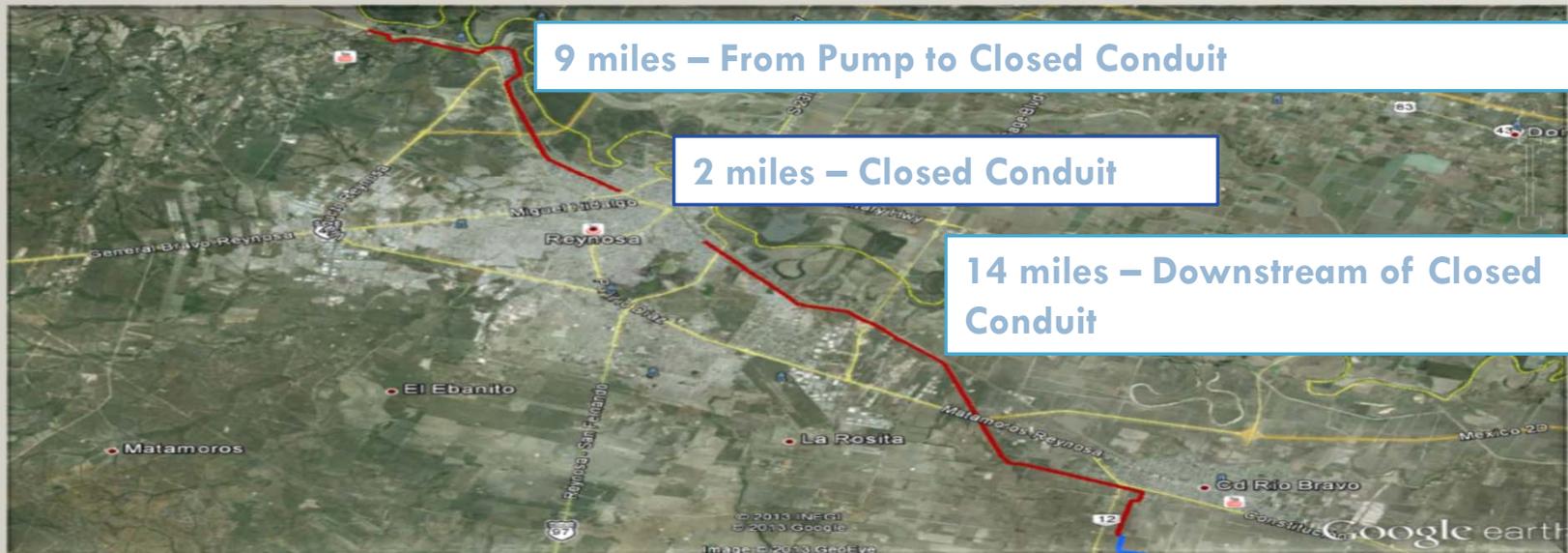
BOUNDARY DEMARCATON



MORILLO DRAIN O&M

1. UNDER IBWC MINUTES NO. 223 AND 303, THE LRGFCP IS CHARGED WITH OVERSEEING THE OPERATION AND MAINTENANCE OF THE MORILLO DRAIN PROJECT.

MORILLO DRAIN



QUESTIONS???

FRANCISCO MARTINEZ

ASST. AREA OPERATIONS MANAGER

MERCEDES FIELD OFFICE

(956)565-3159

E-MAIL:

FRANCISCO.MARTINEZ@IBWC.GOV

JUAN URIBE

AREA OPERATIONS MANAGER

MERCEDES FIELD OFFICE

(956)565-3159

E-MAIL: JUAN.URIBE@IBWC.GOV

