



Annual Stormwater Presentation FY 2022 – 2023

Highlights of Presentation

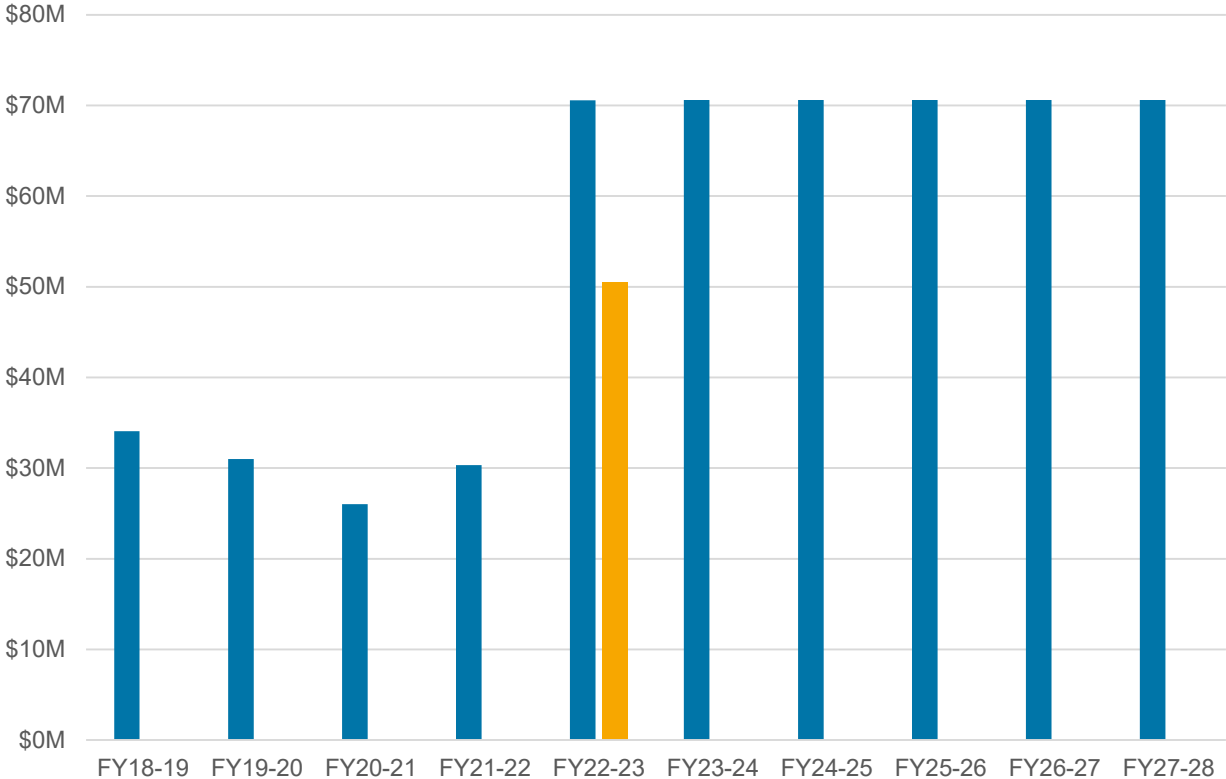
- Stormwater Masterplan
- FY 2022-2023 Project Accomplishments (Construction)
- 2021-22 Monsoon Emergency Projects
- Upcoming 2023-2024 Projects
- Outlook for 2023 Monsoon
- Stormwater Utility Operations Report
- Partnerships and Community Engagement
- We welcome your help!

Stormwater Master Plan continues to guide the way

- **Stormwater Master Plan Update:** in 2017 a reprioritization of projects took place, based on input from Stormwater focus group which included stakeholders and neighborhood associations.
- **Plan Implementation:** The Plan has guided the stormwater utility's work since its inception and more than \$268 million invested in stormwater infrastructure. All built projects have worked as designed to reduce flooding.

Stormwater CIP

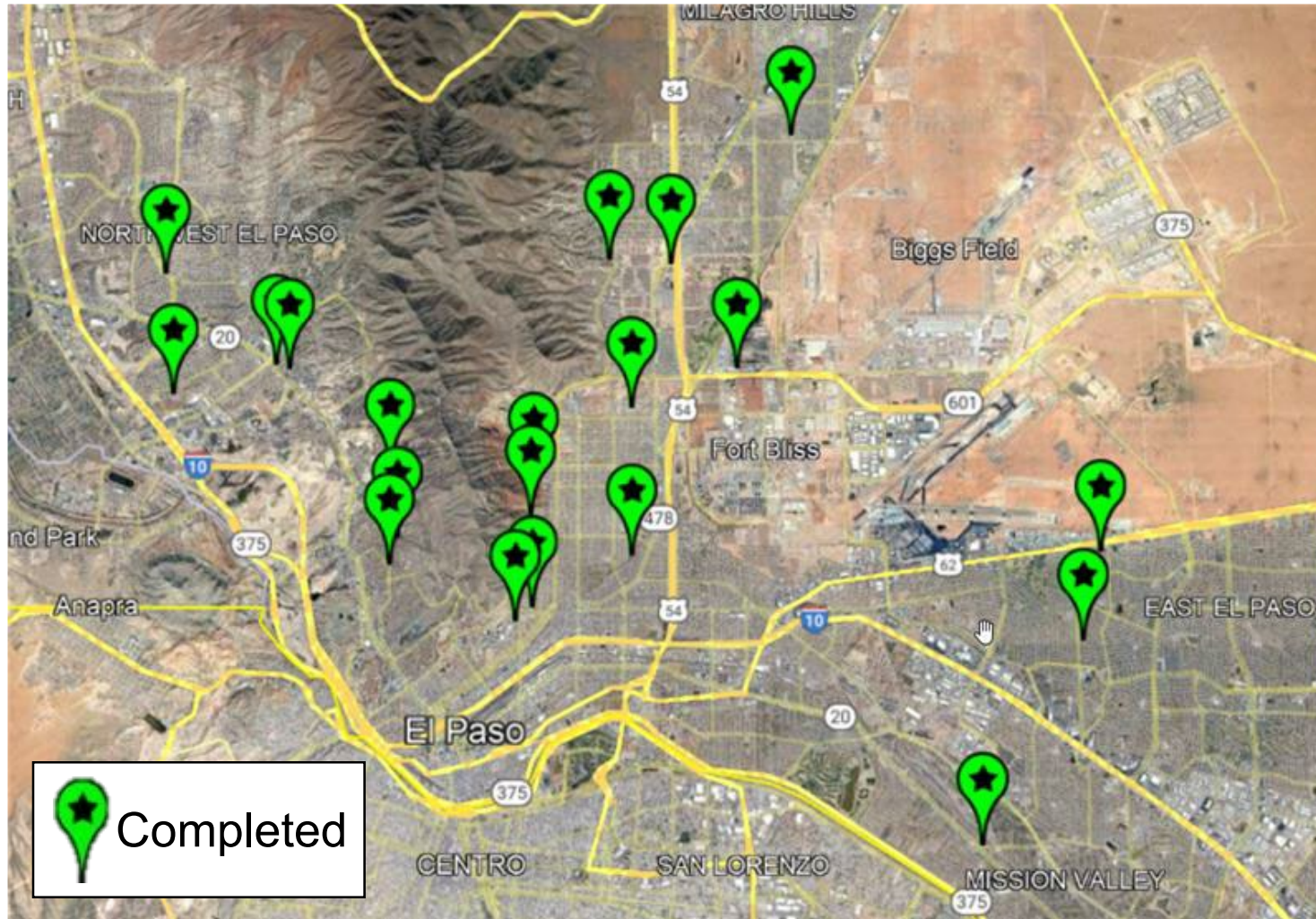
With input from City Council, PSB acted in FY22-23 to accelerate stormwater master plan implementation with completion expected in 10 years.





FY 2022-2023 Project Accomplishments (Construction)

Projects Completed FY 22-23



2022 - 2023 Projects Completed

- Morehead Dam
 - Lower Memphis Dam
 - Van Buren Dam Cleanup
 - Carolina Drive Retention Pond
 - Killarney Pond at Wedgewood
 - Old Spanish Trail Spillway Reconstruction
 - Lafayette Channel Rehabilitation
 - Fort Bliss Channel Desilting
 - Thunderbird Channel Concrete Lining
 - Resler Drive Inlet Replacement
- **Corrugated Metal Pipe Rehabilitation**
 - Boston And Campbell
 - Fir to Samoa and Tahiti to Ceylon
 - Tremont Dam Outfall Conduit
 - Denver Dam Outfall Conduit
 - Bluff Canyon
 - Vista del Rey
 - Cerro de Paz

Carolina Drive Retention Pond

Before

District 3

After



Construction of Ponding Area

Old Spanish Trail Spillway Reconstruction

Before

District 2

After



Reconstruction of concrete spillway

Lafayette Concrete Channel Improvements

Before



District 7

After



Bluff Canyon

Before

District 1

After



CMP Rehabilitation

Morehead Dam Improvements (Dam No. 2) - Upper

District 8

Before



After



Sediment and debris removal and slope stabilization

Memphis Dam Improvements (Dam No.4) – Lower

Before

District 8

After



Sediment and debris removal and slope stabilization

Killarney Pond at Wedgewood

Before

District 3

After



Spillway Improvements

Thunderbird Channel Concrete Lining

Before

District 8

After

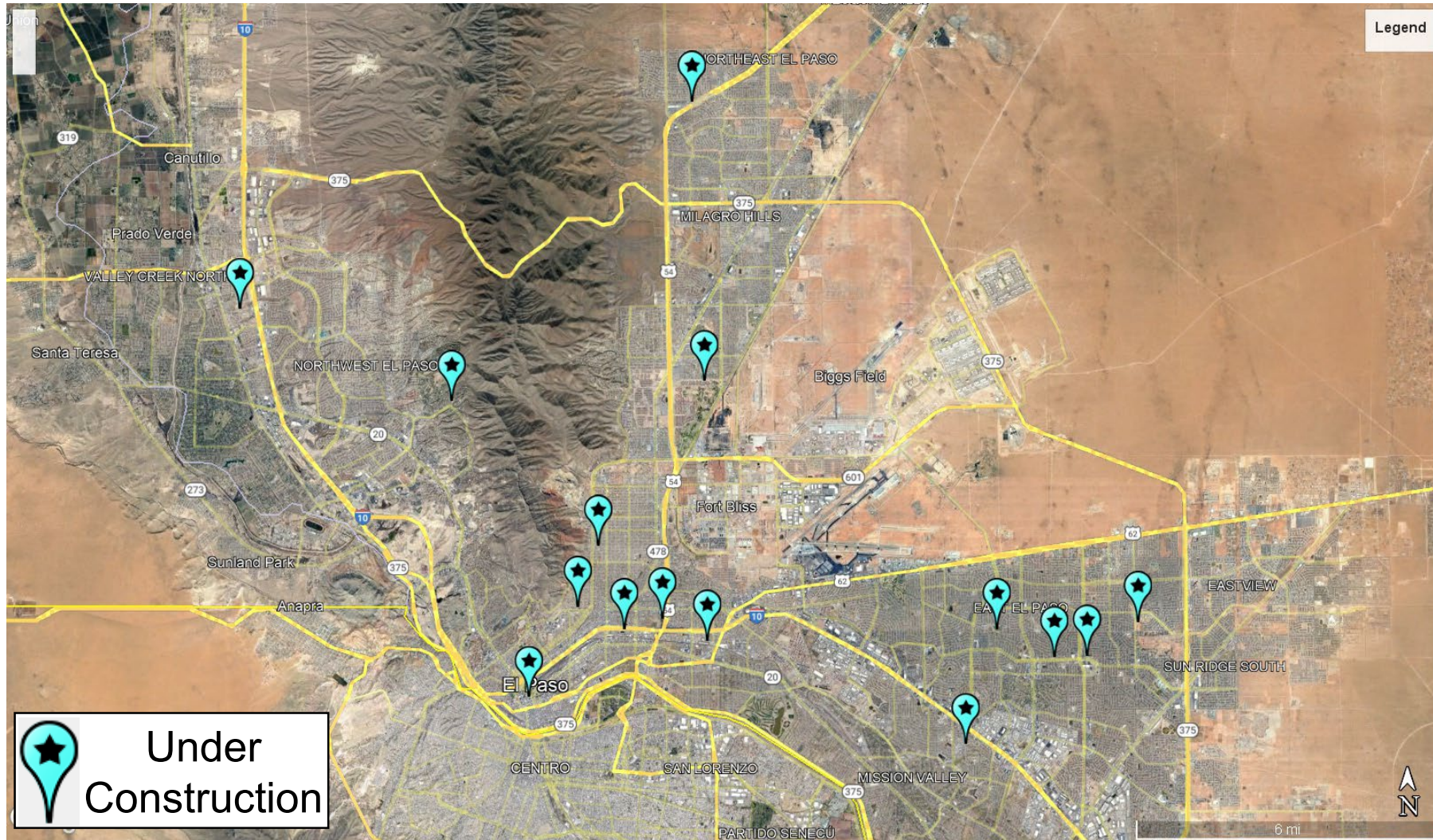


Repair of Existing Concrete



Projects Under Construction

Projects Under Construction



Projects Under Construction

- Gateway Pond Dewatering
- Pico Norte Pond Improvements
- Lake Omega Pond Improvements
- Yandell and Boone Pond Improvements
- Louisiana Pond Improvements
- Mermaid Pond Improvements
- Fort Bliss Diversion Boxes
- Saint Mark's Drainage Improvements
- Mesa and Texas Drainage Improvements
- Silver Springs Dam Improvements
- Tremont Dam #7 Improvements
- Coates Dam improvements
- Lafayette Channel Improvements Phase II
- War Road Channel Improvements
- Coors Channel Improvements

Lake Omega Pond

Before



District 6

In Progress



Flume Improvements

Yandell and Boone Pond Improvements

Before

District 2

In Progress



Concrete Slope Stabilization

Fort Bliss Diversion Access Boxes

District 2

Before

In Progress

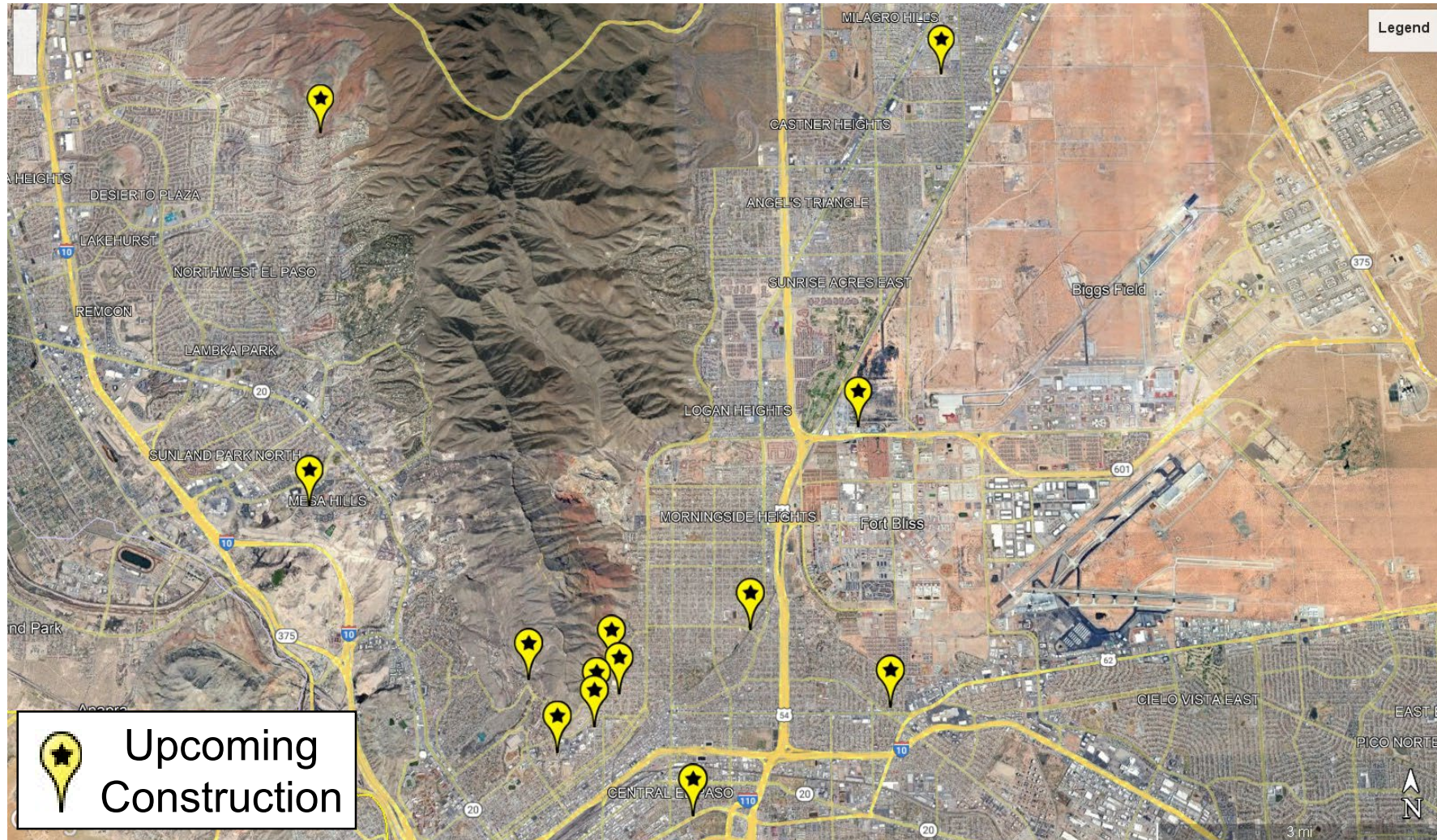


Installation of Boxes for Maintenance



Upcoming Projects FY 23-24 (Construction)

Citywide Project Locations FY 23-24



Upcoming Projects FY 23-24 (Construction)

- Animal Services Ponding Area
- Palisades Stormwater System and Trailhead Improvements
- Will Ruth Pond and Conveyance Improvements
- Arroyo 1 Dam – Detention Improvements
- Scenic Dam #6 Improvements
- Murchison Dam #8 Improvements
- Denver Dam #9 Improvements
- Cliff Dam #10 Improvements
- Grissom & McAfee Phase II Drainage Improvements
- Austin Pond Bleeder Improvements
- Corrugated Metal Pipe Condition Assessment and Replacement Program Piedras Street; Cypress Avenue South Alley to Paisano Drive
- Wallenberg Stormwater Improvements
- San Jose Dam Improvements

Will Ruth Pond and Conveyance Improvements

District 4



- Located in the Northeast of El Paso
- Mitigate flooding on Dyer (Northeast Municipal Court and Regional Command Center)
- Estimated 600 parcels will be removed from the flood zone
- Project received a \$5 million grant from TWDB for this project
- Construction Cost = \$30 M
- Estimated Construction Start September 2023

Palisades Stormwater System and Trailhead Improvements

District 8

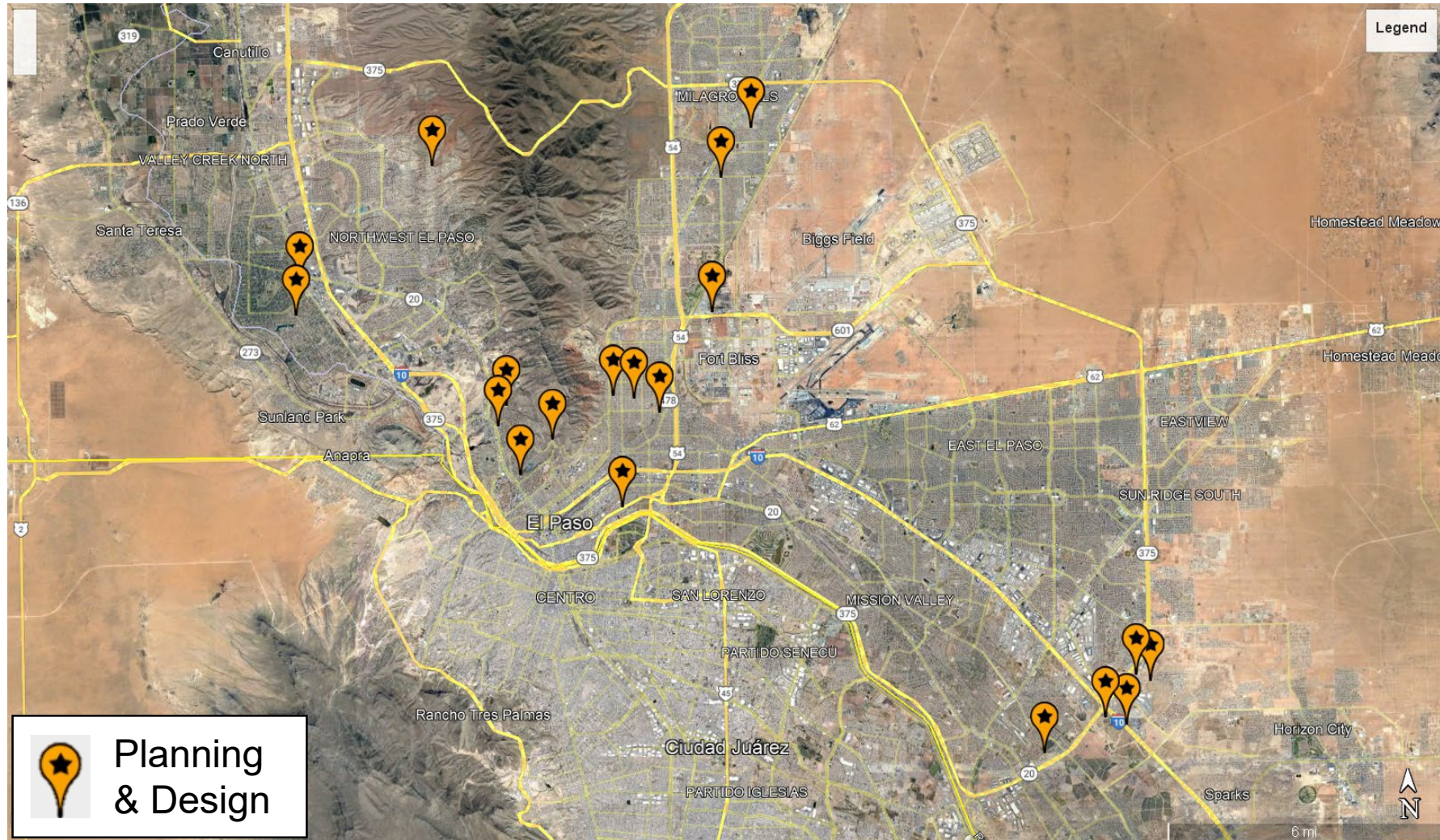


- Located in Central El Paso
- Construction of a dam with debris basin
- Several design options under consideration
- Will detain runoff from the mountains
- Ongoing public outreach
- Partnership with the City for trail improvements



Upcoming Projects FY 23-24 (Planning and Design)

Projects FY 23-24 (Planning and Design)




Projects FY 23-24 (Planning and Design)

- Corrugated Metal Pipe (CMP) Replacement Program - Various
- SAC 1 Detention Basin
- SAC 2 Detention Basin
- RV channel Retention Pond
- A&M Circle
- Krupp Street Drive Drainage Improvements
- White Spur Drain Upstream Expansion
- Justus Pond
- Hondo Pass Drive Drainage Improvements
- Charl Ann Pond Aeration System
- Canterbury Sediment Basin Downstream
- Louisiana Dam Expansion
- Billy Rogers Arroyo Desilting Basin
- Pico Norte Pump Station and Force Main
- § Feather Lake II Improvements

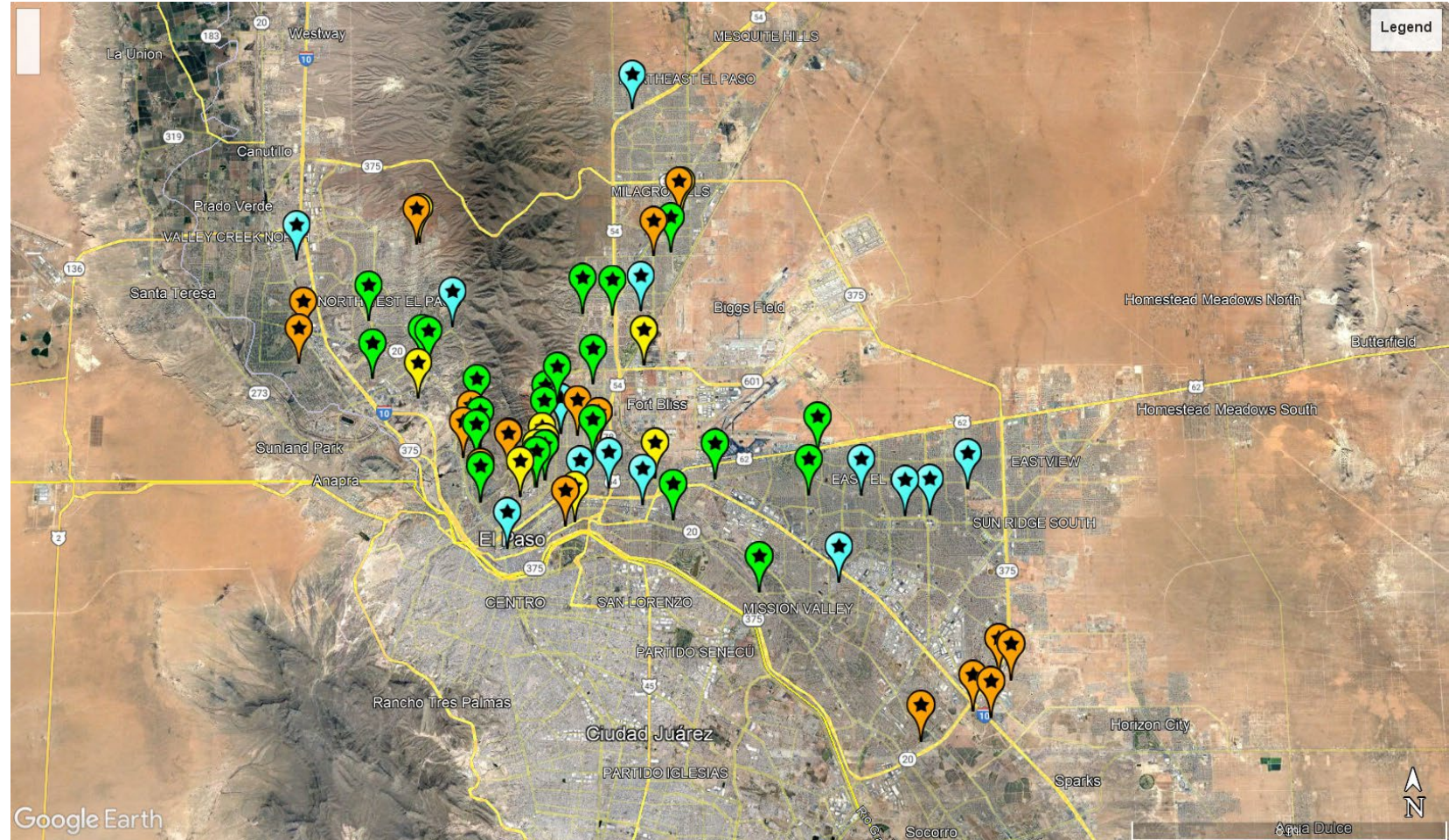
Combined Projects FY 23-24

 Complete (FY 22-23)
\$12.4 M

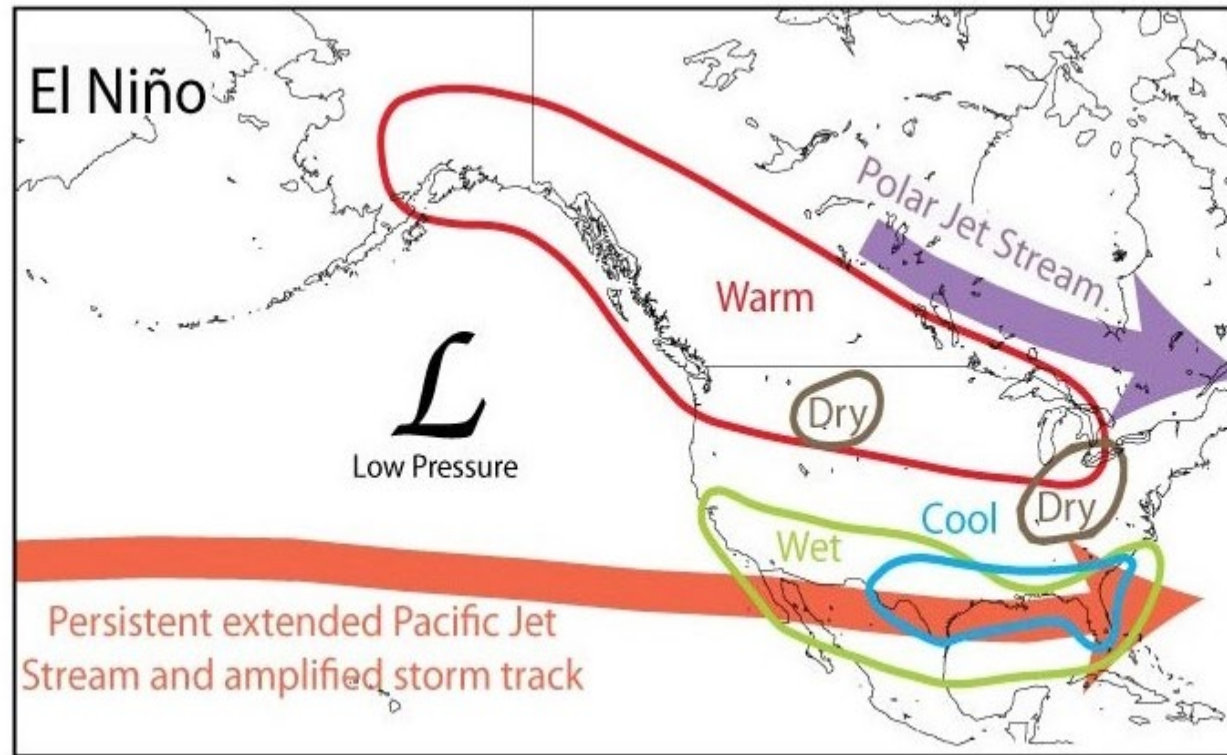
 In Construction
\$22.1 M

 Upcoming Construction
Estimated \$64.1 M

 Planning and Design
Estimated \$5.7 M



Monsoon Outlook









Delayed monsoon, wetter conditions expected



Stormwater Operations Report

Stormwater Assets and Operations

March 2022 to February 2023

	Ponds	362 acres maintained
	Channels & Levees	19 miles cleaned
	Agricultural Drains	30 miles maintained
	Storm Drains	1.6 miles of conduits cleaned
	Inlets	5,824 cleaned
	Dams	434 acres maintained

Stormwater Operations – Remove illegal dumping – citywide



Culverts Crossing US 54

Over 30,000 sandbags distributed



Locations

(OPEN ALL YEAR)

- Central/Northeast - 4801 Fred Wilson

(OPEN SEASONALLY JULY 5 TO SEPTEMBER 30)

- West – 7830 Paseo del Norte
- East – 9292 Escobar Drive



Partnerships and Community Engagement

Collaboration with El Paso County Water Improvement District #1

District 1



Crossing Replacement at Montoya Drain and Love Road

Actively Pursuing Federal/State Funding

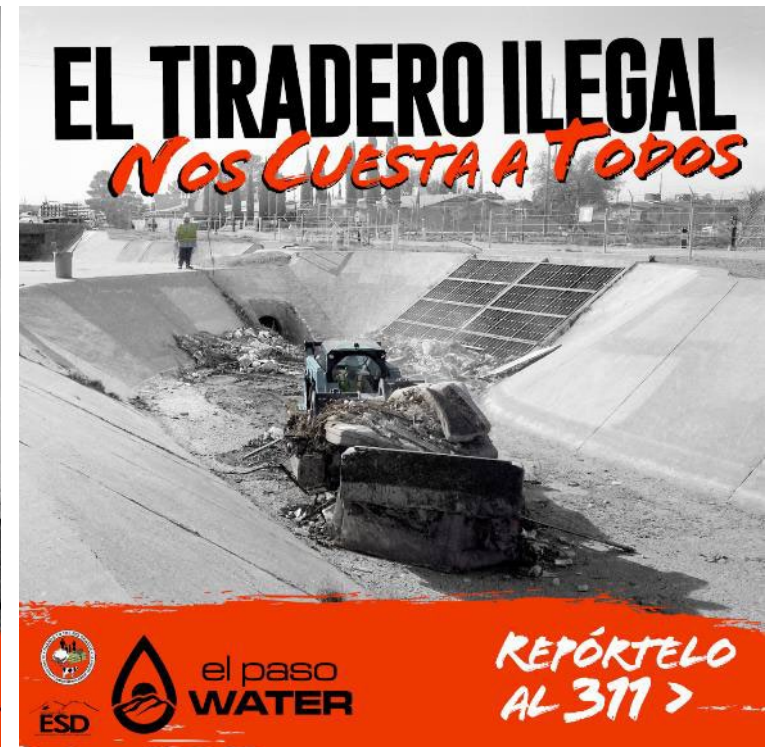
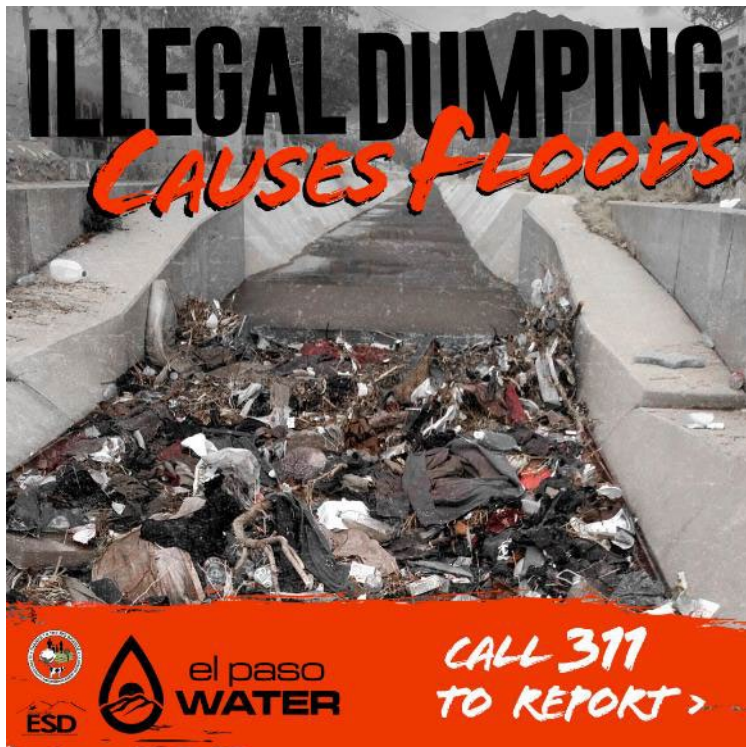
Successes 2022-2023 – \$15.83M

Agency	Project	Amount
U.S. Army Corps of Engineers	Keystone Dam Seepage Repairs	\$1,200,000
U.S. Army Corps of Engineers	Clardy Fox Pump Station	\$3,380,000
U.S. Army Corps of Engineers	Northgate Diversion Channel Improvements	\$3,750,000
U.S. Army Corps of Engineers	Central Cebada Watershed Study	\$1,500,000
Texas Water Development Board	Will Ruth Pond	\$5,000,000
U.S. Army Corps of Engineers	SAC 1 Detention Basin - Design	\$1,000,000

We have other stormwater project grant requests submitted for consideration that total \$10.5M

Broad campaign to raise awareness

The bilingual campaign is a collaboration with the City of El Paso and uses a variety of media to target key audiences to help raise awareness of this widespread problem. Outreach includes social media, radio, email, digital ads, bus ads, and print publication advertising.



Public Service Announcements (PSA's) for Flood Safety

- EPWater works with National Weather Service and other stakeholders to urge drivers to not drive through flooded streets.
- Previous bilingual campaigns included radio spots, billboards, internal bus displays and bench ads, digital ads, and a microsite.



Who to call during flood events

- EPWater Customer Service: (915) 594-5500
- EPWater Stormwater: Storm@epwater.org
- 911 – Emergency
- 311 – Non-emergency

How you can help

- Share public service information with constituents
- Update the City's Drainage Design Manual
- Support stormwater fee increases for continued infrastructure investments
- Encourage Green Infrastructure



Questions and Comments