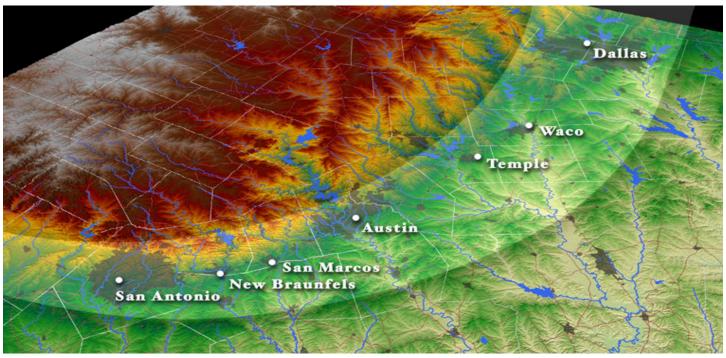


SA Regional Flood Planning Group *Region 12*

May, 2021 City of San Antonio Public Works -Nefi Garza, P.E.



San Antonio is in Flash Flood Alley



Source: www.floodsafety.com

South Texas Rainfall Records

- Thrall (1921):
- Ingram (1932):
- D'Hanis (1935):
- Pandale (1954):
- New Braunfels (1972):
- TS Amelia (1978):
- TS Claudette (1979):
- Zorn (1998):
- TS Charley (1998):
- Kerr County (2002):
- Harvey, Houston area (2017):

Source: NWSFO Austin/San Antonio

Note: San Antonio annual rainfall average is 30"/ per year

36"/18 hrs 36"/24 hrs 22"/3 hrs 32"/24 hrs 10"/1 hr 48"/52hrs 43"/24 hrs 32"/18 hrs 18"/4 hrs 42"/5 days 52"/4 days

Flash Flood Alley

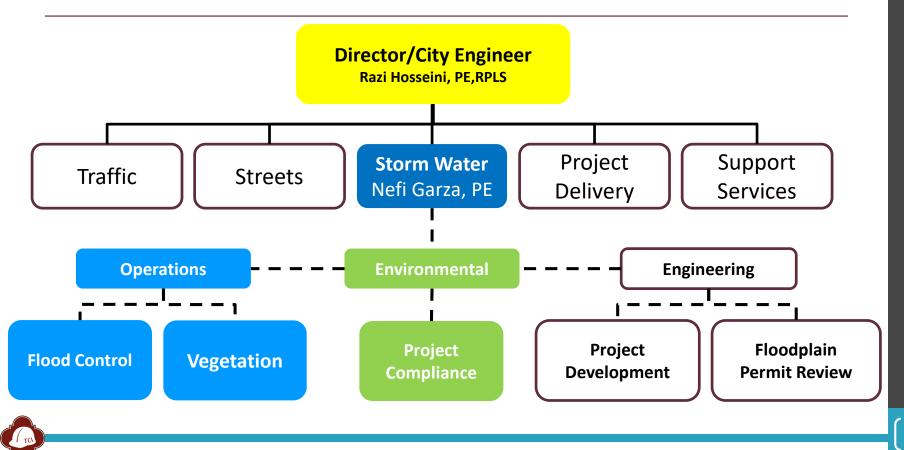


Flash Flood Alley



July 2002: IH-10 facing North at Rim/Fiesta Texas

Department Overview

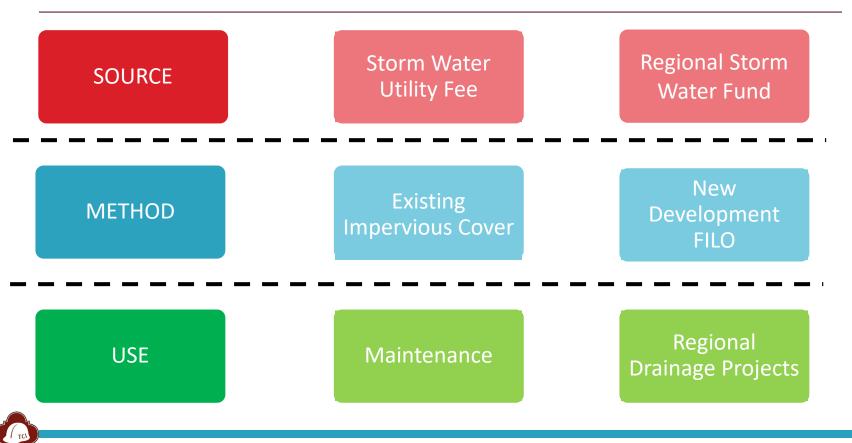


Storm Water Inventory

Asset	City Wide
Channels	926 Miles
Natural Creeks	369 Miles
FEMA 100 year flood plain	56 SQ-MI
Underground	574 Miles
Streets	4,081 Miles

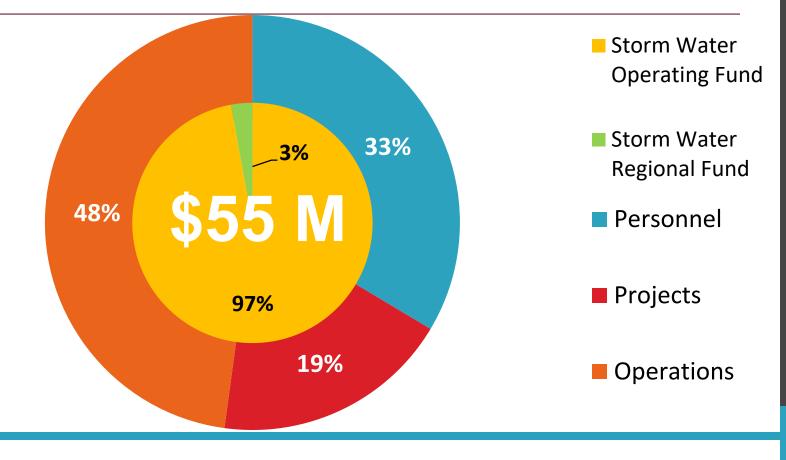


Funding



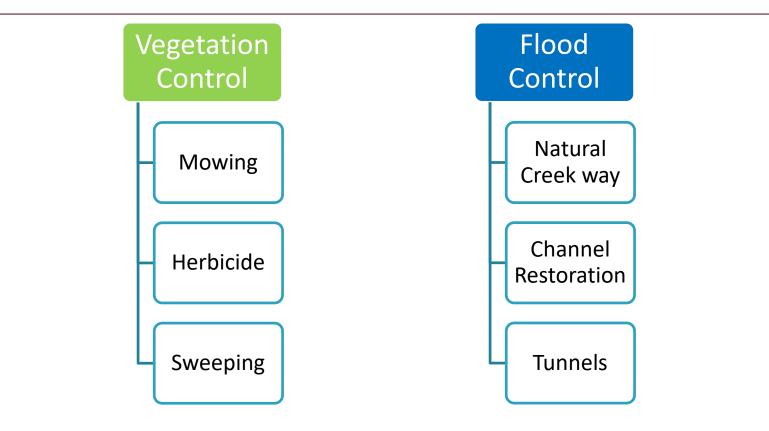
9

Funding



10

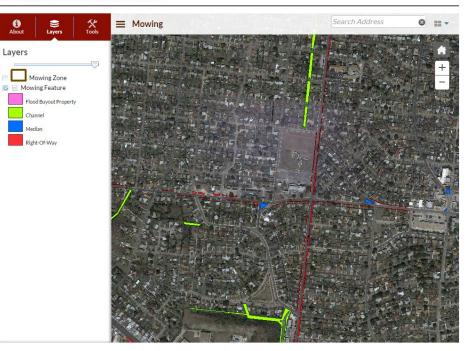
Maintenance Program



Mowing



INTERACTIVE MOWING SCHEDULE



http://www.sanantonio.gov/TCI/Projects/Interactive-Mowing-Schedule

TxDOT Mowing

15

Street Sweeping

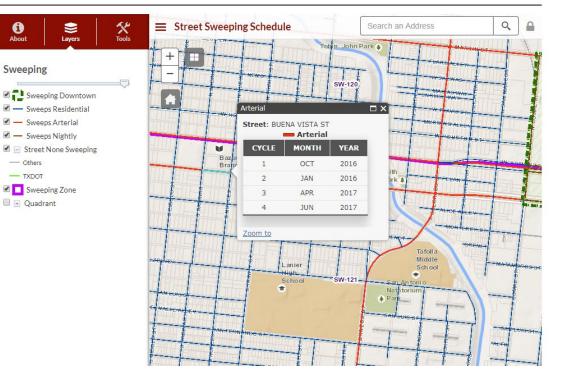


Residential Sweeping



Special Events

STREET SWEEPING SCHEDULE



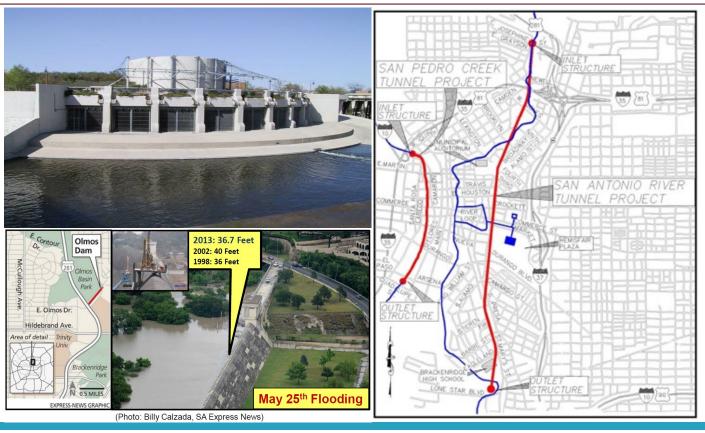
http://www.sanantonio.gov/TCI/Projects/Street-Sweeping-Schedule

16

Flood Control



1 101

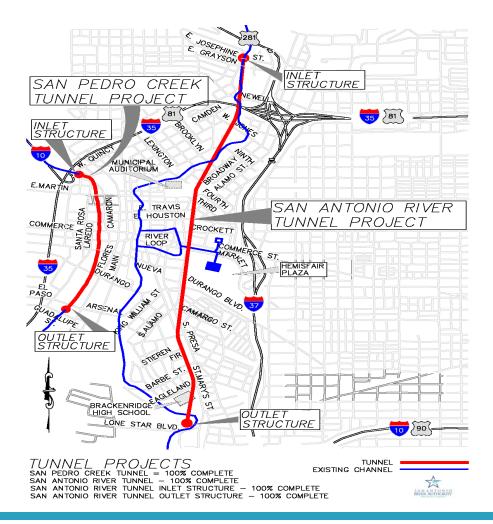


(17)

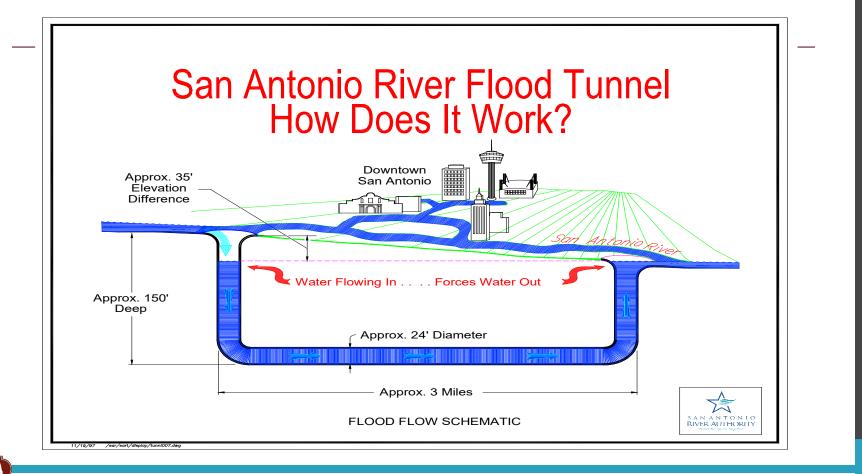


Olmos Dam After Retrofitting





Tres

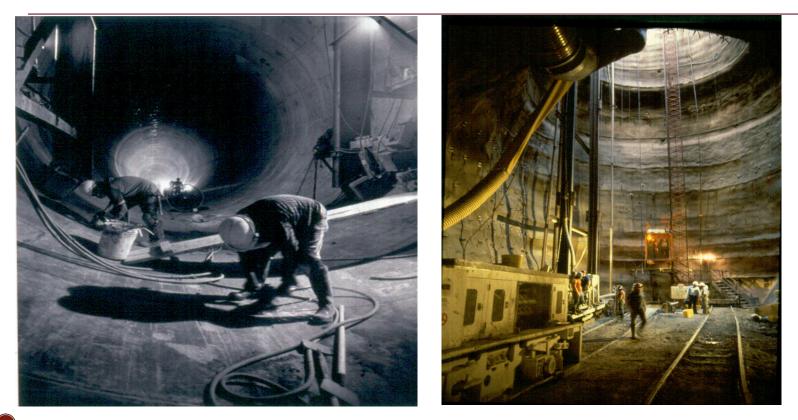


San Antonio River Tunnel Construction





San Antonio River Tunnel Construction



TCI

Flood Control



Concrete Rip Rap Channel Wall Repair (Seeling Channel)



WATER OVER ROAD RUAD CLOSED WHEN FLASHING



Debris & Vegetation Removal (Six Mile Creek and Roosevelt)



Homeless Encampment Cleanup (San Pedro and Basse)

23

Tree Down (114 Downing)

Project Development



24

Environmental



25

Other Programs



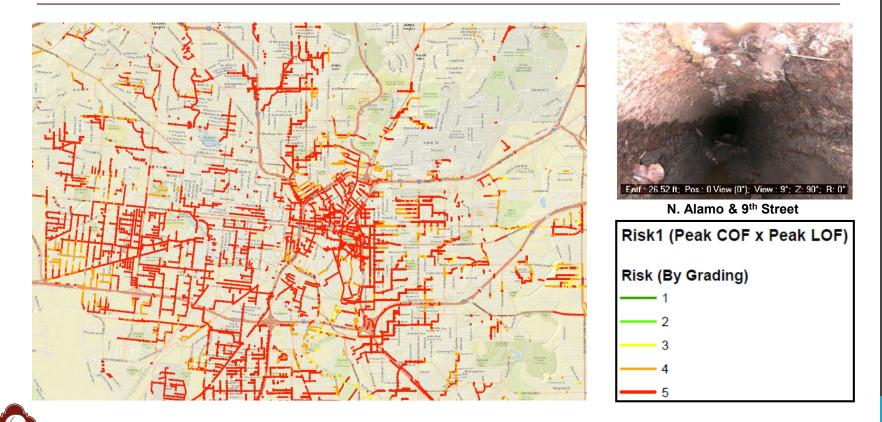
http://www.sanantonio.gov/Remember-the-River/Home

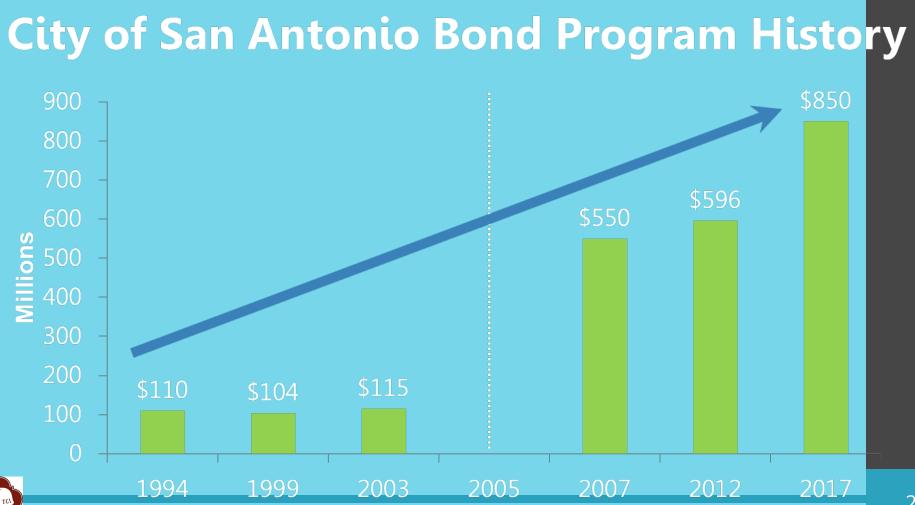




Coal Tar

Televising (Condition Assessment)





Bond Projects

Bond Year	Drainage Prop	Street Prop
2007	\$ 152M	\$ 307M
2012	\$ 128M	\$ 337M
2017	\$ 139M	\$ 445M
	\$ 419M	\$ 1.1B



2017-2022 Bond



https://qagis.sanantonio.gov/tci/proposedbonds2017/





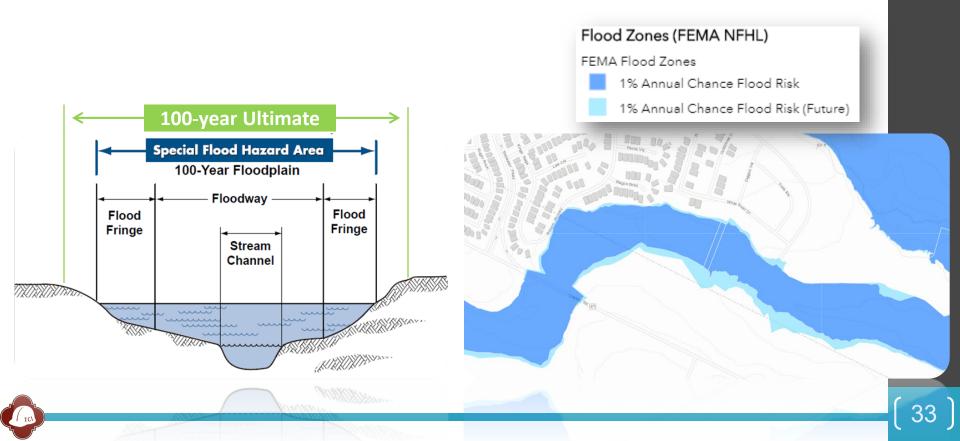
Drainage & Flood Control 19 Projects | \$138,988,000

Projects to improve or develop storm water drainage systems to include detention basins, channels, low-water crossing improvements, and other drainage projects in coordination with the Bexar Regional Watershed Management Program.

- Underground stormwater drainage
- Channels
- Water detention



San Antonio Development Standards



Flood Resiliency

/ TC

Facility	% Outside Floodplain	Out	In	
Clinics	93%	195	15	
Communication Towers	83%	440	92	
Daycares	91%	156	15	
Gas Stations	93%	231	18	
Grocery Stores	89%	124	16	
Hospitals	87%	108	16	
Retirement Centers	87%	94	14	
Vet Clinics	84%	38	7	📃 🚖 SARA Floodplain Viewer 🚺

Continued Investment



Bexar Flood





Questions?

Nefi Garza, P.E. Assistant Director

