



2018 Bond Development Proposal: Flood Risk Reduction & Drainage Improvements Overview

Presentation to the Environmental Commission
January 3, 2018



Presentation Overview

- Council Resolution calling for bonds
- Historic Funding Sources & 2006 Drainage Bonds
- Unfunded Needs
- Bond Needs Assessment
- Example Projects

Council Resolution calling for BEATF: Drainage & flooding elements

RESOLUTION NO. 20160811-031

WHEREAS, the City has initiated and completed several studies to identify city service needs, including but not limited to the Flood Mitigation Task Force Final Report, the Austin Housing Plan, the Austin Strategic Mobility Plan, the Project Connect Central Texas Regional High Capacity Transit Plan, the Long-Range Capital Improvement Program Strategic Plan, and Imagine Austin; and

WHEREAS, it is vital that the City allocate and prioritize funding that will address issues such as flooding, affordable housing, mobility, high capacity transit, parks, libraries, and the capital renewal necessary to rehabilitate the infrastructure already in place; and

Council Resolution calling for BEATF: Drainage & flooding elements

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF AUSTIN:

- (A) A Bond Election Advisory Task Force (Task Force) is established to identify and prioritize bond funding for projects that will address infrastructure needs, including but not limited to needs related to flooding, libraries, housing, mobility, transit, parks, fire stations and other planned, unfunded capital improvement needs.

[Link to
Resolution](#)

Goal: Address Austin's most severe flooding & erosion risks

Example project types: storm drain improvements, low-water crossing upgrades, and erosion stabilization



**Storm Drain
Improvements**

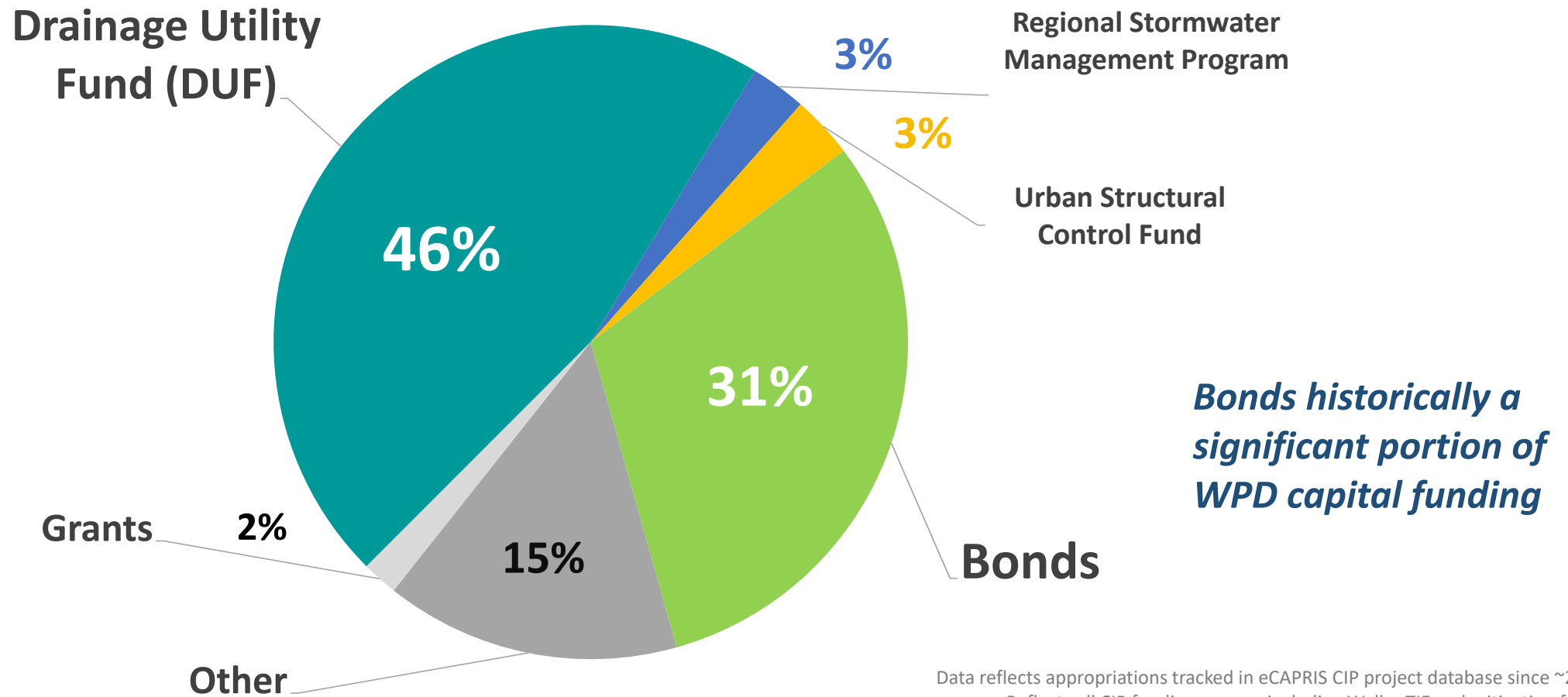


**Low-Water Crossing
Upgrade**



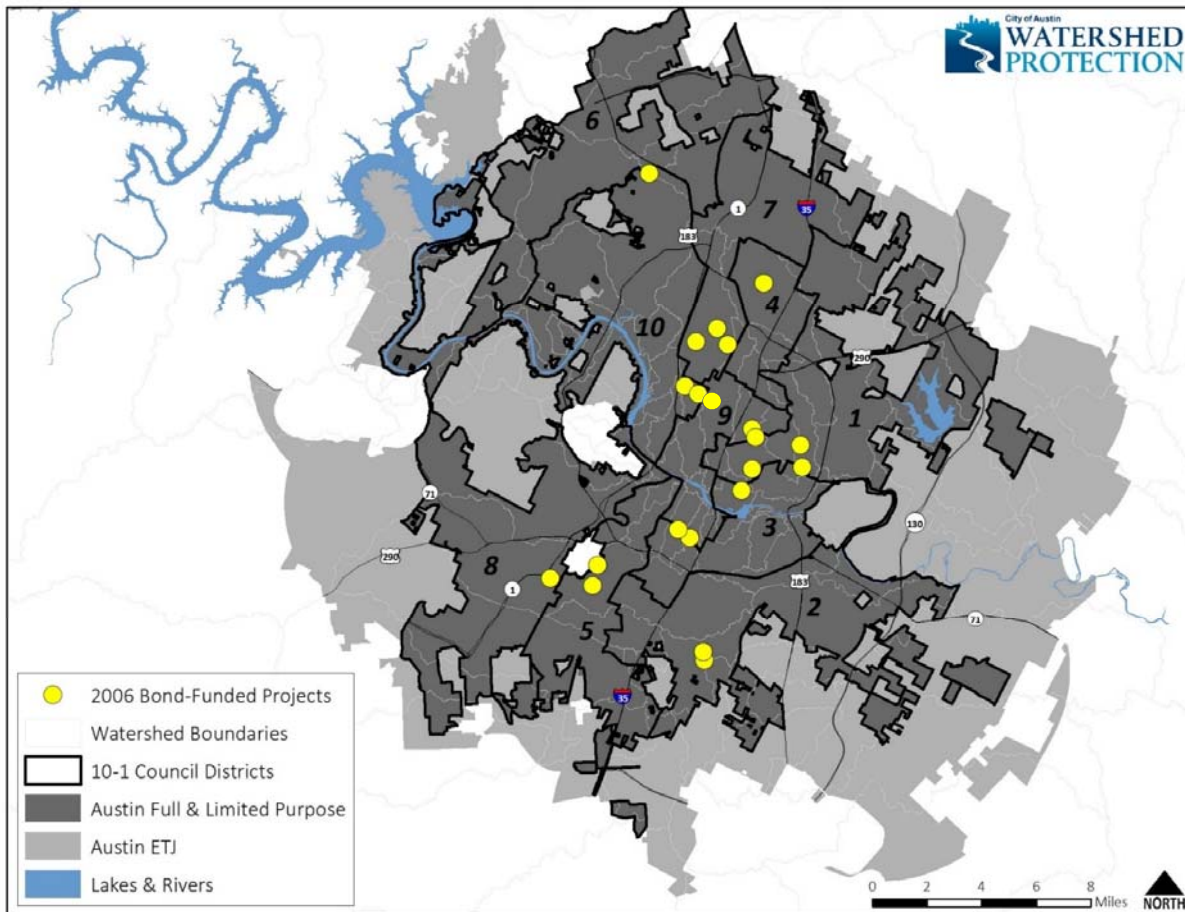
**Stream Restoration /
Stabilization Project**

WPD CIP Appropriations by Funding Source: 2001-present



Data reflects appropriations tracked in eCAPRIS CIP project database since ~2001.
Reflects all CIP funding sources including Waller TIF and mitigation funds.

2006 Drainage Bond Program-Funded Projects



23 projects

\$95M

- 6 Creek Flood Risk Reduction Projects
- 13 Localized Flood Risk Reduction Projects
- 4 Multi-Mission Projects

[Link to election summary](#)

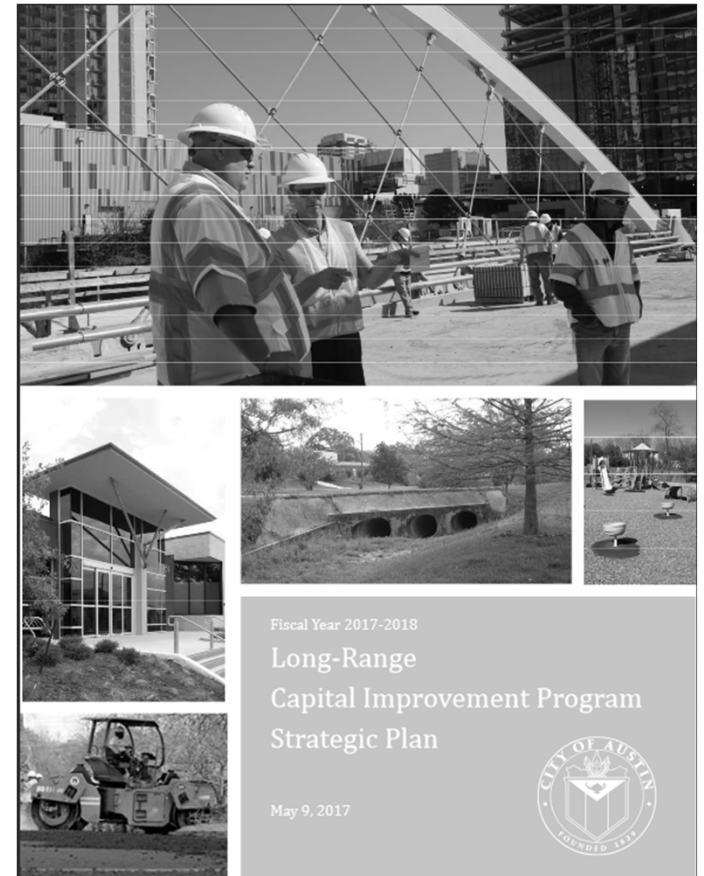
WPD Projected Unfunded Capital Solution Costs

FY17 Rolling Needs Assessment

Category	Unfunded Need
Creek Flood (Top 20*)	\$ 418M
Localized Flood (Top 20*)	\$ 161M
Water Quality	\$ 150M
Multi-Mission	\$ 71M
Asset Management + Erosion	\$ 1,142M

Estimated \$1.94 Billion Total Unfunded Needs

*FY17 unfunded need reflects top 20 problem areas only – subset of much larger need.



2018 Bond Stormwater Needs Assessment

- **Project selection criteria**

- Very high flood and erosion risk severity
- Confirmed feasibility
- Most shovel-ready
- Maximize number of projects

- **Initial Submittal (Feb. 2017)**

- 28 projects
- \$230+ million in unfunded need

- **Refined Project List (Aug. 2017)**

- 15 projects
- \$100+ million in unfunded need

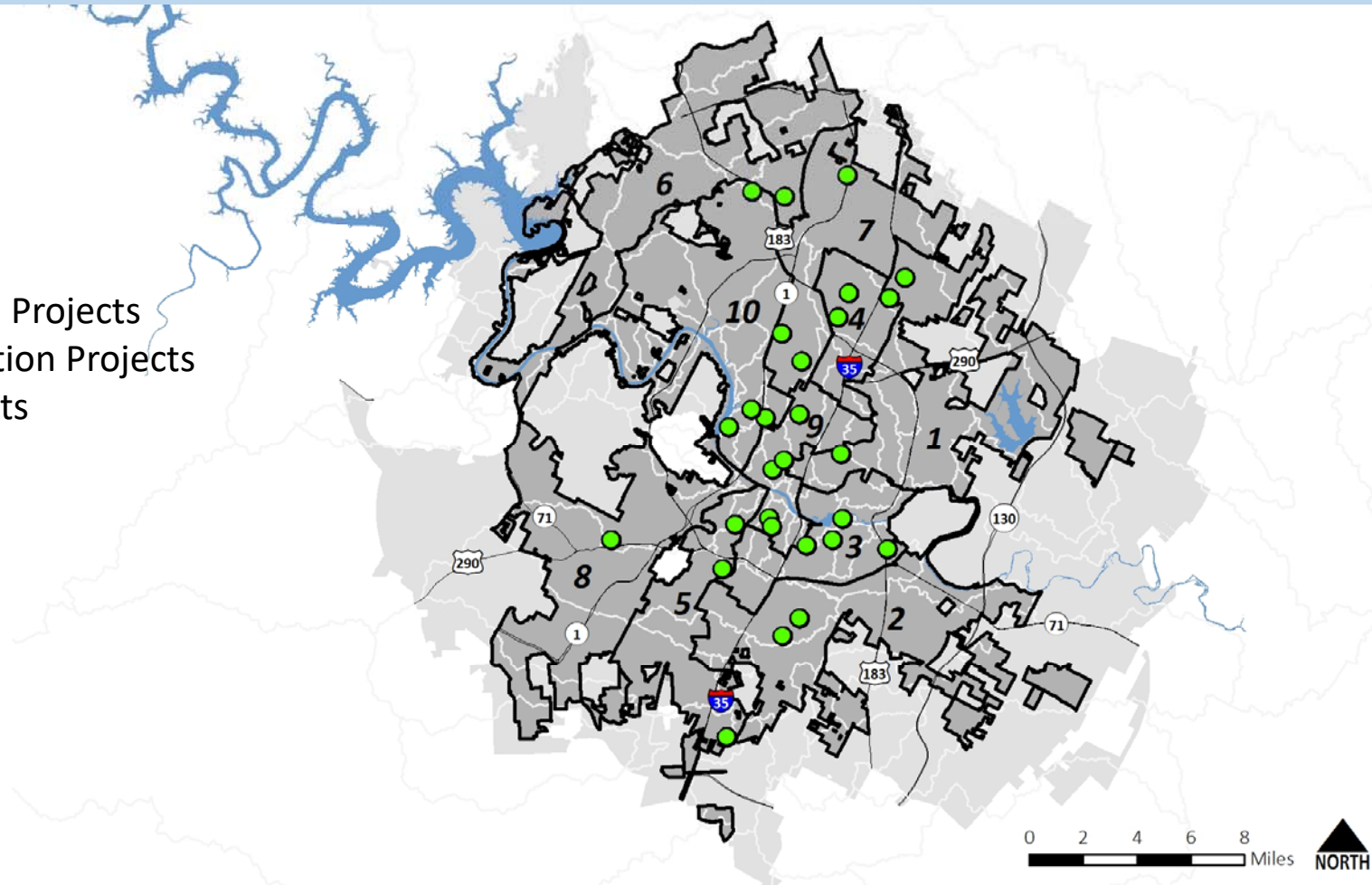
2018 Bond Needs Assessment: Stormwater (\$230+M)

28 projects

10 Districts

7 Creek Flood Risk Reduction Projects
17 Localized Flood Risk Reduction Projects
2 Erosion Stabilization Projects
2 Multi-Mission Projects

- 2018 Bond Needs Assessment
- 10-1 Council Districts
- Lakes & Rivers
- Watershed Boundaries
- Austin Full & Limited Purpose
- Austin ETJ



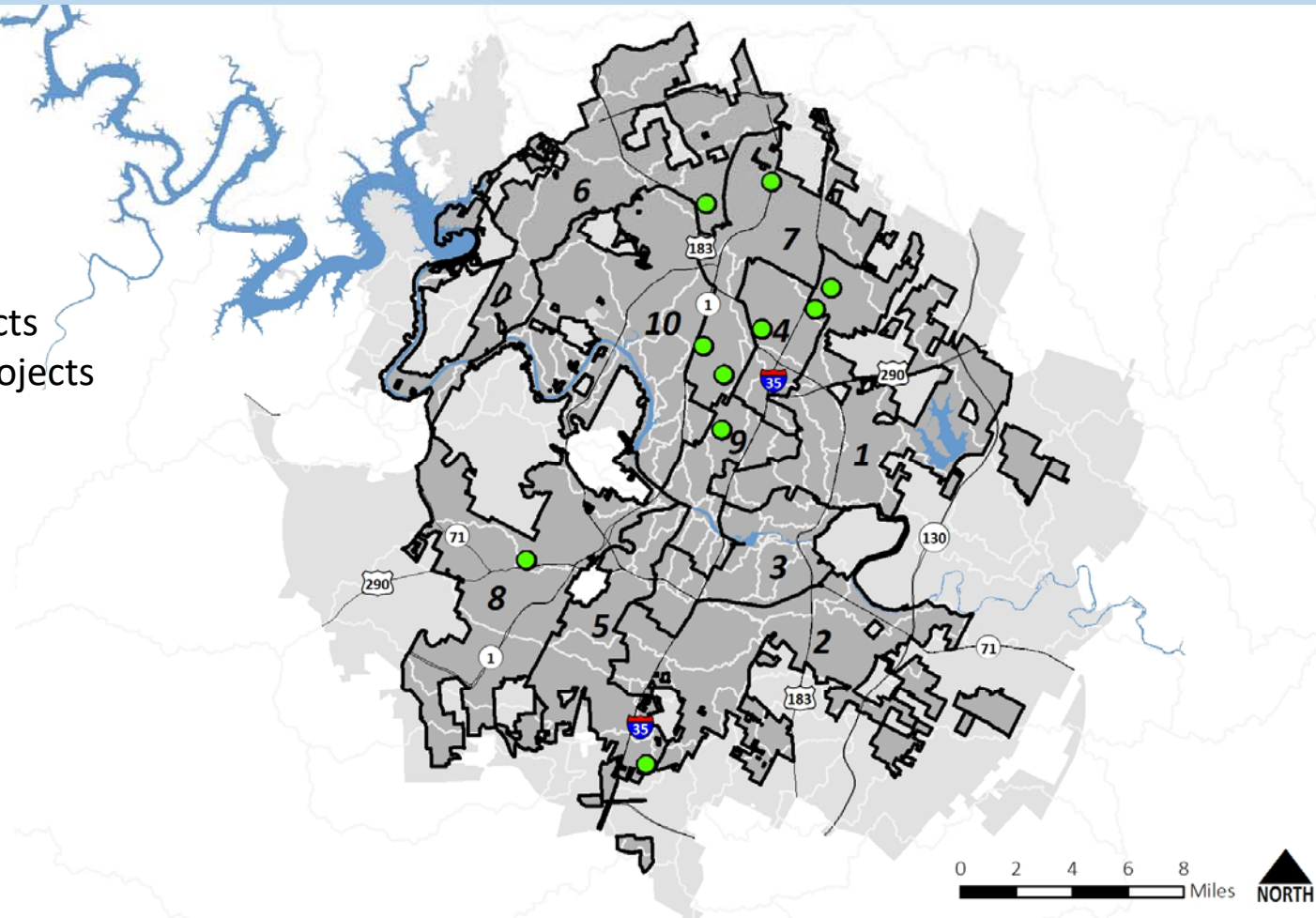
Financial Services Proposed “Starting Point” (\$75M)

10 projects

7 Districts

2 Creek Flood Risk Reduction Projects
6 Localized Flood Risk Reduction Projects
2 Multi-Mission Projects

-  Project for Bond Consideration - \$75M
-  10-1 Council Districts
-  Lakes & Rivers
-  Watershed Boundaries
-  Austin Full & Limited Purpose
-  Austin ETJ



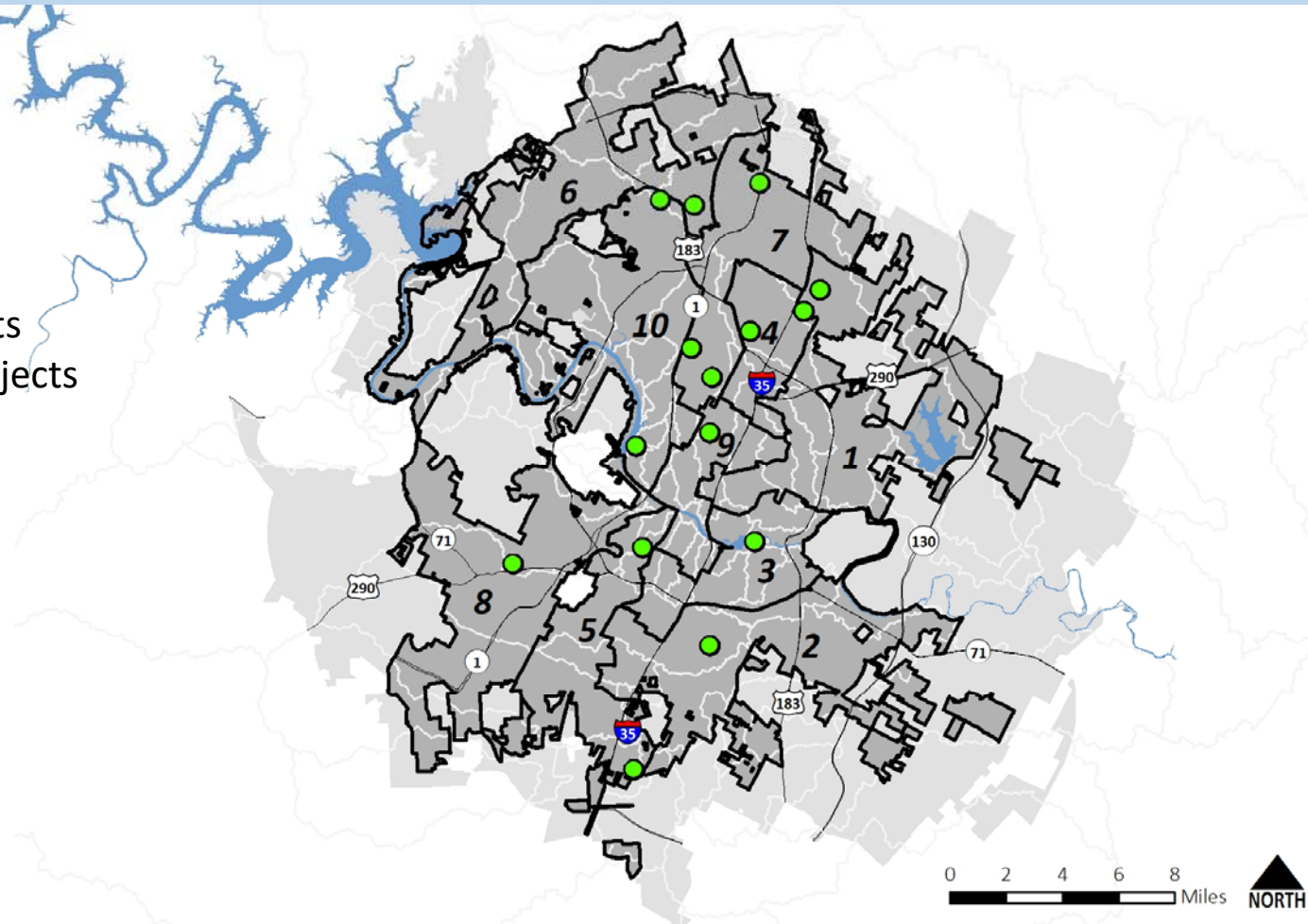
WPD Proposed Funding Scenario (\$100+M)

15 projects

10 Districts

- 3 Creek Flood Risk Reduction Projects
- 9 Localized Flood Risk Reduction Projects
- 1 Erosion Stabilization Projects
- 2 Multi-Mission Projects

-  Project for Bond Consideration - \$100M
-  10-1 Council Districts
-  Lakes & Rivers
-  Watershed Boundaries
-  Austin Full & Limited Purpose
-  Austin ETJ

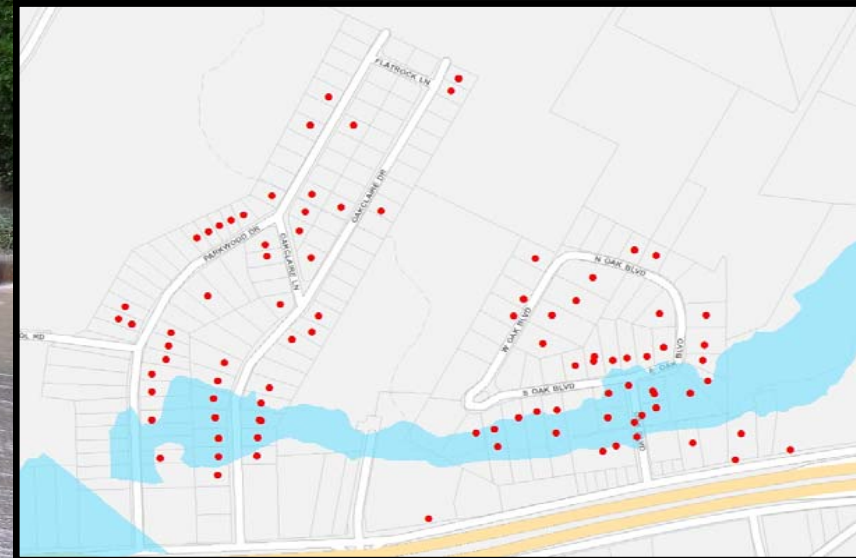


Example Project: Oak Park/Oak Acres Storm Drain Improvements



Project to address:

- Close to 100 buildings at risk of flooding
- Roadway flooding



Example Project: Jamestown Tributary Drainage Improvements



Project to address:

- Severe streambank erosion threatening buildings & infrastructure
- Structure and roadway flooding

Example Project: Pinehurst & Wild Dunes Flood Risk Reduction



Project to address:

- 138 homes at risk of flooding in a 100-year storm



Example Project: North Acres Storm Drain Improvements



Project to address:

- 14 reported/confirmed building flooding locations



Example Project: Guadalupe St. Storm Drain Improvements



Project to address:

- 16 reported/confirmed building flooding locations



2018 Bond Needs Assessment Summary: Stormwater

\$230+M WPD 2018 Bond Needs Assessment

- 28 projects
- 10 Council Districts

\$100+M WPD Proposal & Preliminary Working Group Recommendation

- 15 projects
- 10 Council Districts
- Confirmed feasibility and implementation timing

\$75M “Starting Point” for 2018 Bonds

- 10 projects
- 7 Council Districts
- May reduce level of service for some projects

Questions?

Matt Hollon, Planning Manager
Watershed Protection Department
City of Austin
(512) 974-2212
Matt.Hollon@austintexas.gov

Kevin Shunk, P.E., Managing Engineer
Watershed Protection Department
City of Austin
(512) 974-9176
Kevin.Shunk@austintexas.gov