



Advisory Base Flood Elevation (ABFE) PMR Update

Status of the Physical Map Revision (PMR) Central TX

FEMA Region 6

May 2016



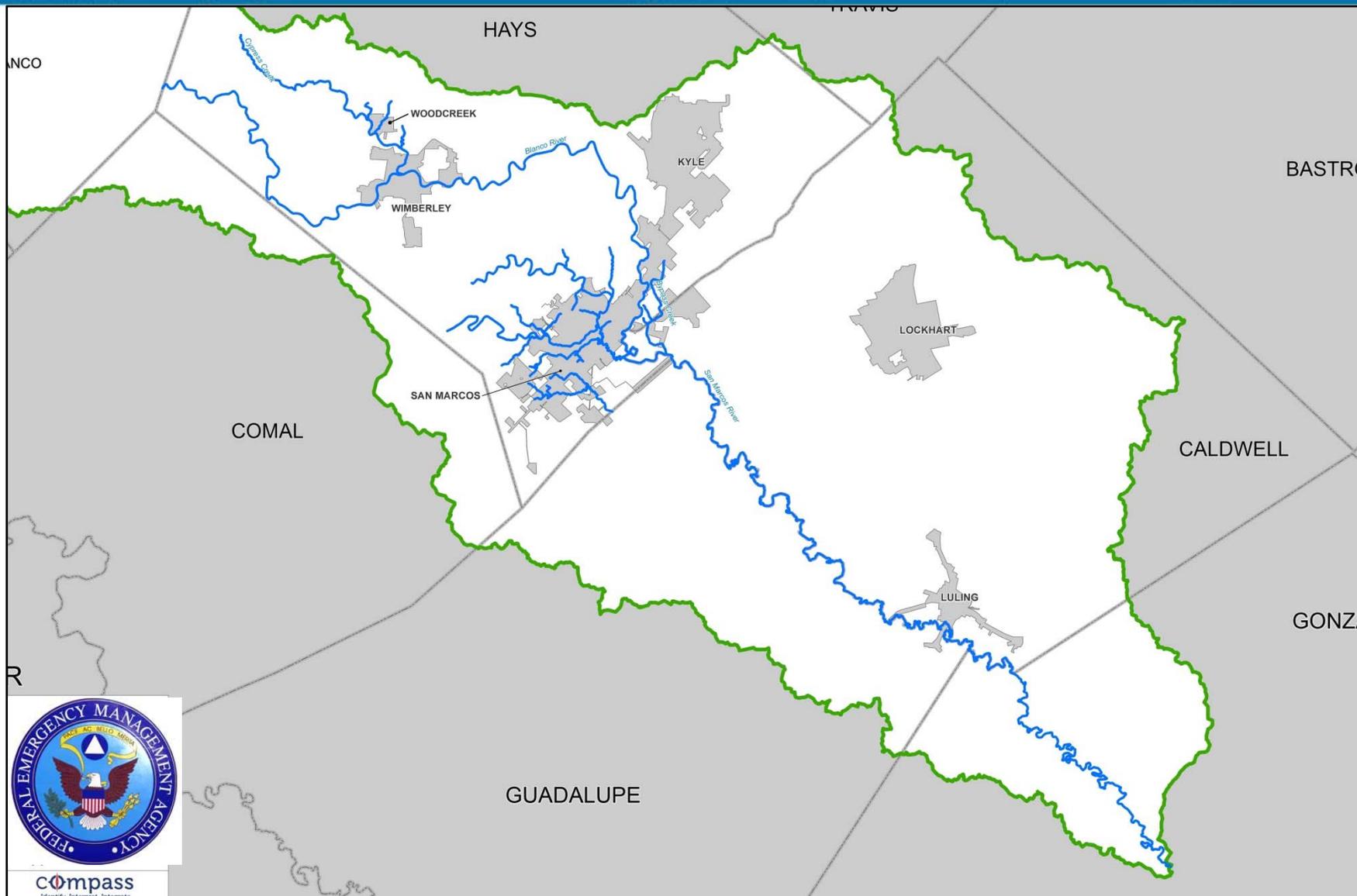
FEMA

What's New

- ▶ **Willow Springs Creek and Willow Springs Upper Trib moved to next deliverable**
- ▶ **Draft floodplains and floodways complete for Sink Creek, Unnamed 46, Cottonwood Creek, CC-1/CC-1 South, CC-2, Purgatory Creek, Purgatory Trib 1, Purgatory Trib 3, Purgatory UNT, Sessom Creek, Willow Springs Lower Trib.**
- ▶ **San Marcos formally requested a zero-rise floodway to be placed on new FIRMs and is planning to pass new ordinance in August.**
- ▶ **Deliverable Area 3 underway for end of June deliverable**



Project Overview



USACE Hydrology

Update

- ▶ **USACE revised draft technical memo revised and reviewed by FEMA/Compass.**
- ▶ **USACE hydrology flows will be used on Blanco and Lower San Marcos Rivers**
- ▶ **Cypress and Upper San Marcos watershed model results will be used on respective tributaries rather than USACE HMS**
 - Note: HMS is a rainfall-runoff hydrology model



Project Timeline

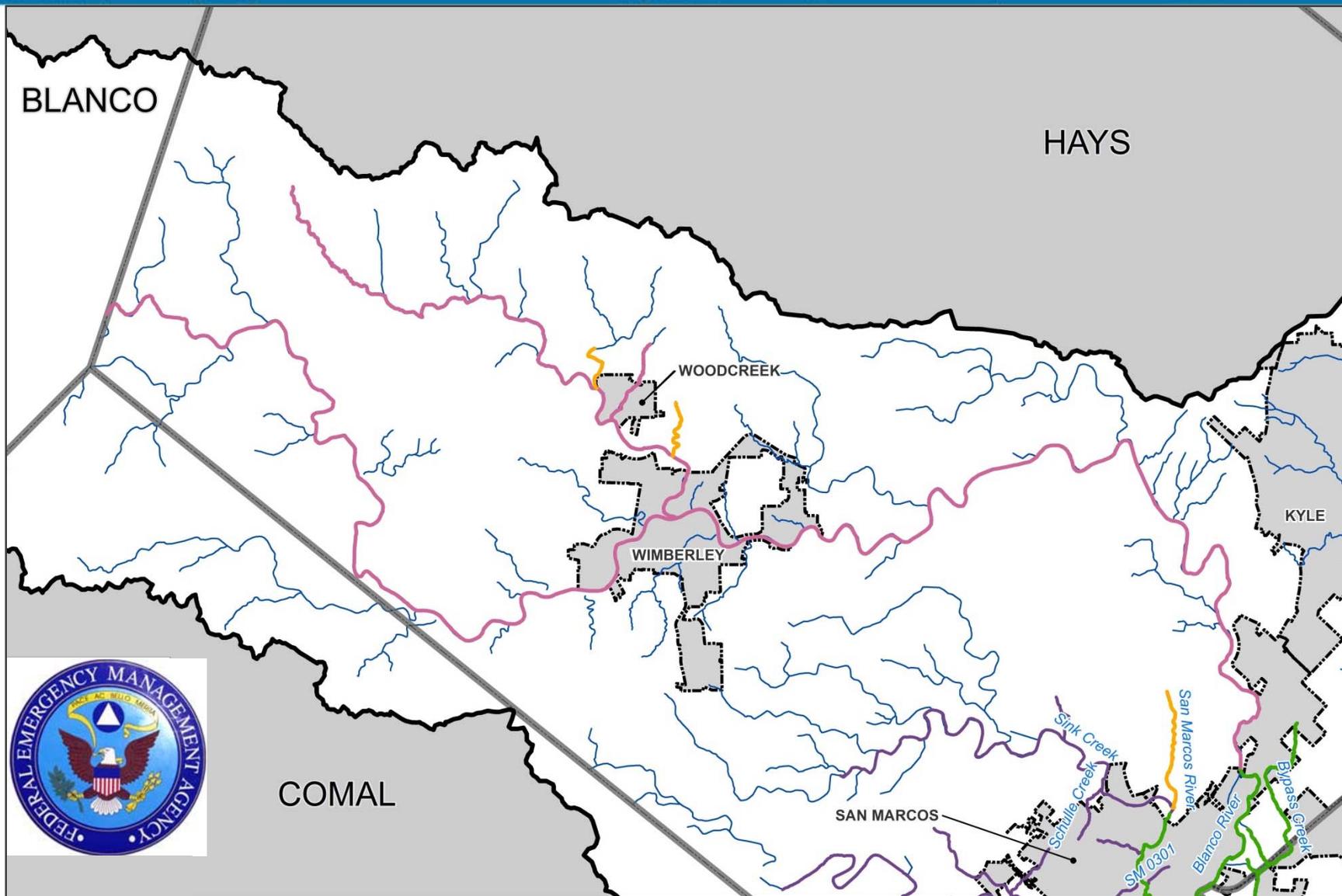
- ▶ **November 2015** PMR Project Initiated
- ▶ **January 2016** Survey of Structures (Complete)
- ▶ **February 2016** SM River Hydrology USACE (Complete)
- ▶ **May 2016** Delivery Area 2 (Complete)
- ▶ **June 2016** Delivery Area 1 (Complete)
- ▶ **July 2016*** Delivery Area 3
- ▶ **August 2016*** Delivery Area 4
- ▶ **September 2016** Flood Risk Review Meetings
- ▶ **November 2016** Preliminary FIRMs issued

**Four delivery areas will be working simultaneously.*

**Date shown indicates the final delivery of data for community review.*

Delivery Area 2

Community Release:
Early May 2016 – Complete



Delivery Area 2

Community Release:
Early May 2016 – Complete

Community Data Provided

- ▶ Hydrologic and Hydraulic Modeling provided by USACE and GBRA
- ▶ USGS revised gage analysis updated to include 2015 event in hydrologic analysis
- ▶ Advisory Base Flood Elevations previously released

Delivery Communities

- ▶ Comal & Hays Counties (Unincorporated Areas)
- ▶ City of Wimberley
- ▶ City of Woodcreek

Streams for Update

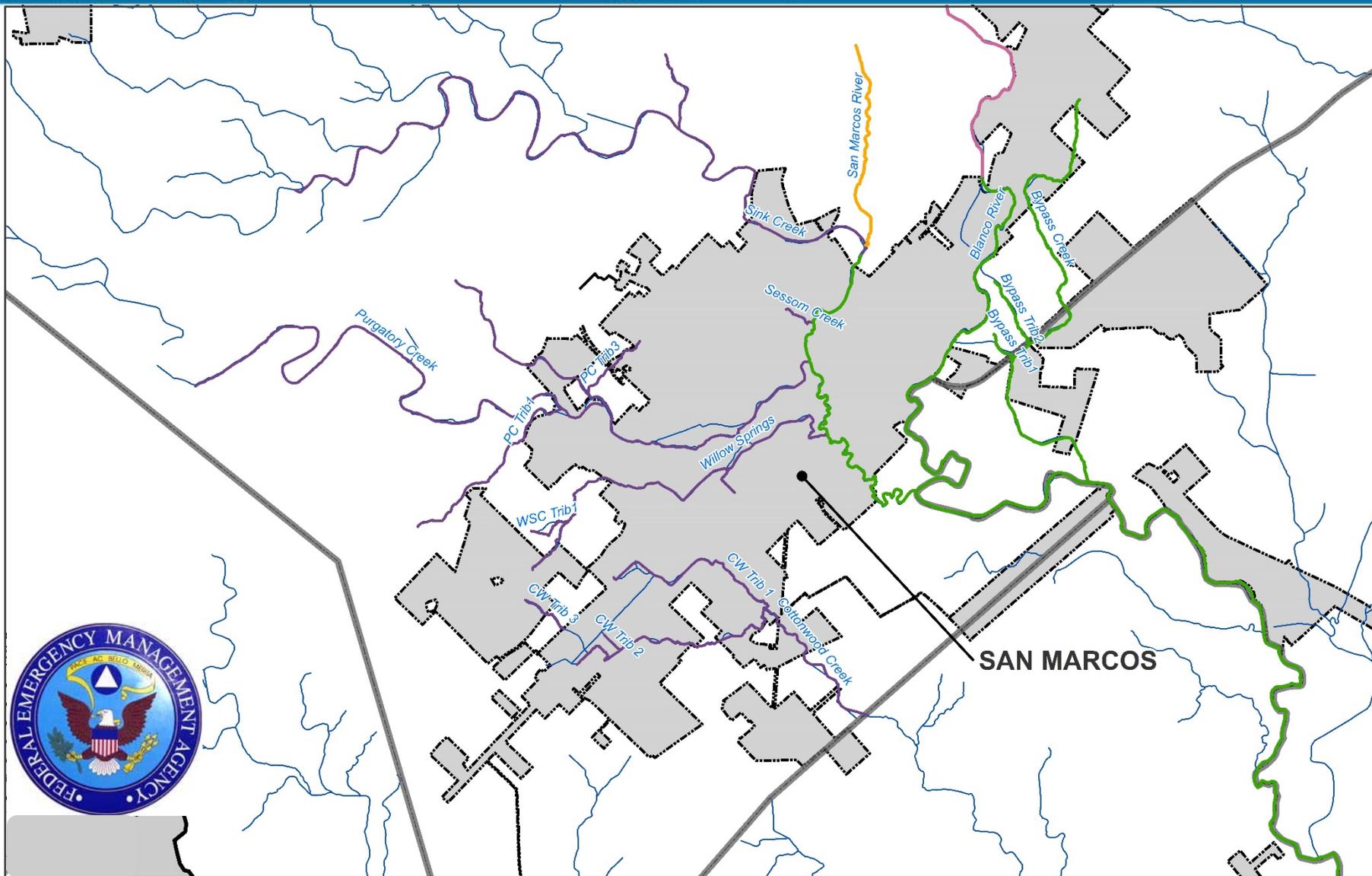
- ▶ Blanco River (above City of San Marcos boundary upstream to Blanco County line)
- ▶ Cypress Creek/Hog Creek

Scope of Work

- ▶ Minor structure survey to refine community/ABFE modeling – **Complete**
- ▶ Floodway analysis – **Complete**
- ▶ Floodplain mapping & work maps (digital format unless paper is requested) – **Draft Complete (Coordinating floodway edits with Hays County)**
- ▶ Flood Risk Review meetings

Delivery Area 1

Community Release:
Early June 2016



Delivery Area 1

Community Release:
Early June 2016

Community Data Provided

- ▶ Hydrologic and Hydraulic Modeling provided by GBRA and the City of San Marcos

Scope of Work

- ▶ Minor structure survey to refine community modeling – **Complete**
- ▶ Floodway analysis - zero-rise within city limits – **Complete**
- ▶ Floodplain mapping & work maps (digital format unless paper is requested) – **Draft Complete**
- ▶ Flood Risk Review meetings

Streams for Update

- ▶ Sink Creek and selected tributaries
- ▶ Purgatory Creek and selected tributaries
- ▶ Willow Springs Creek and selected tributaries – **Moved to Deliverable 3**
- ▶ Cottonwood Creek and tributaries

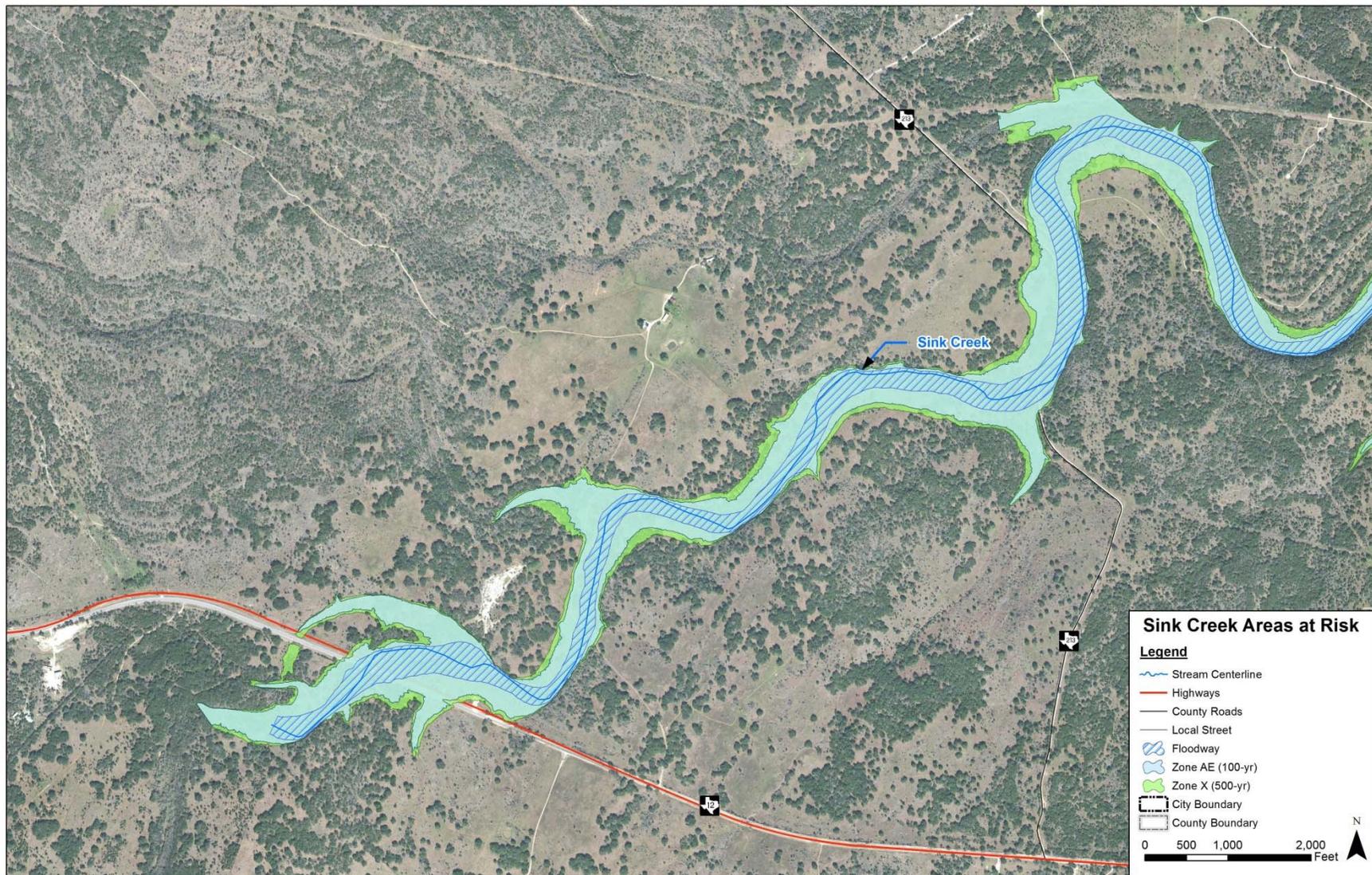
Communities for Delivery

- ▶ City of San Marcos
- ▶ Hays County (Unincorporated Areas)



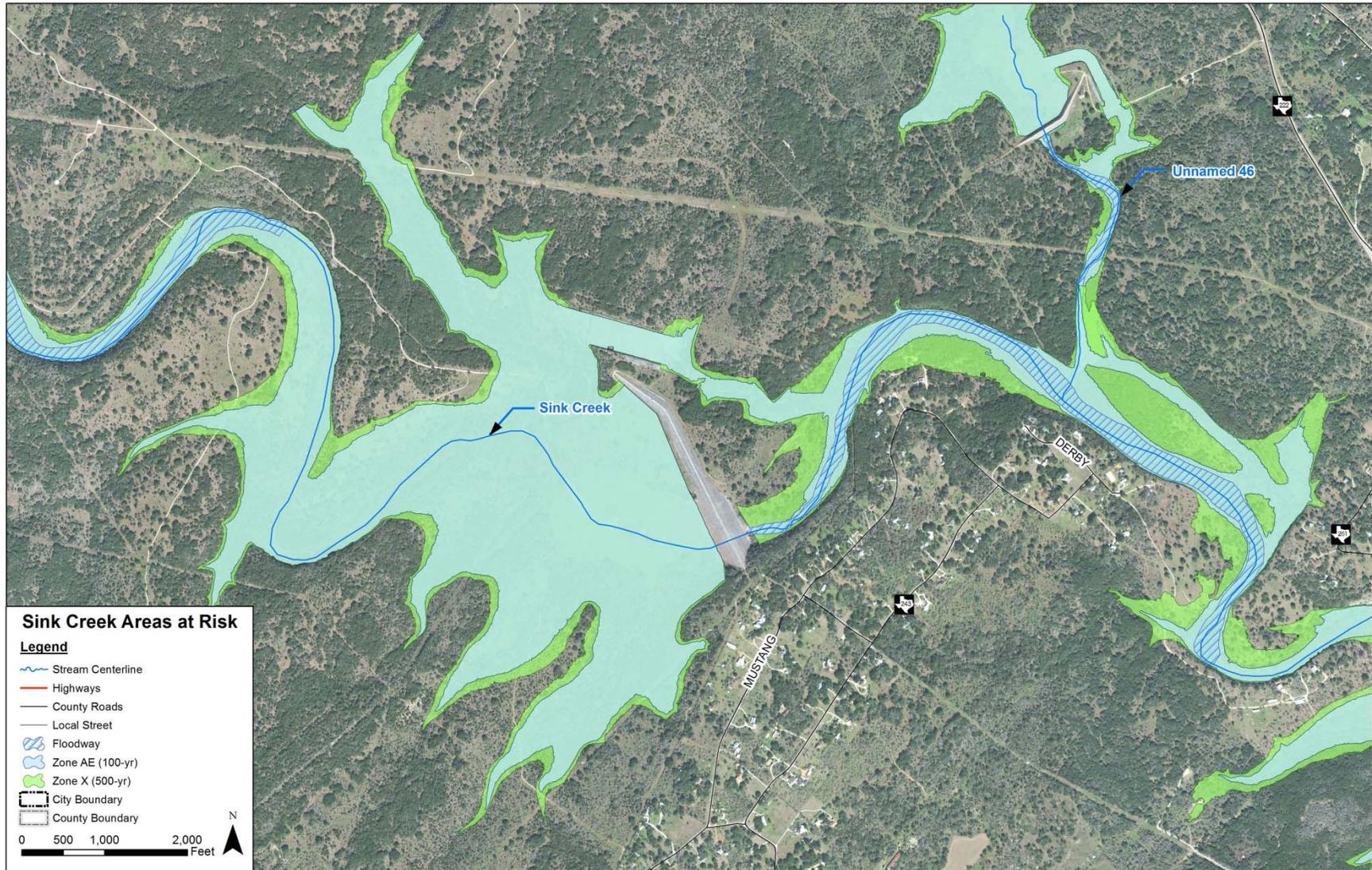
Delivery Area 1

Community Release:
Early June 2016



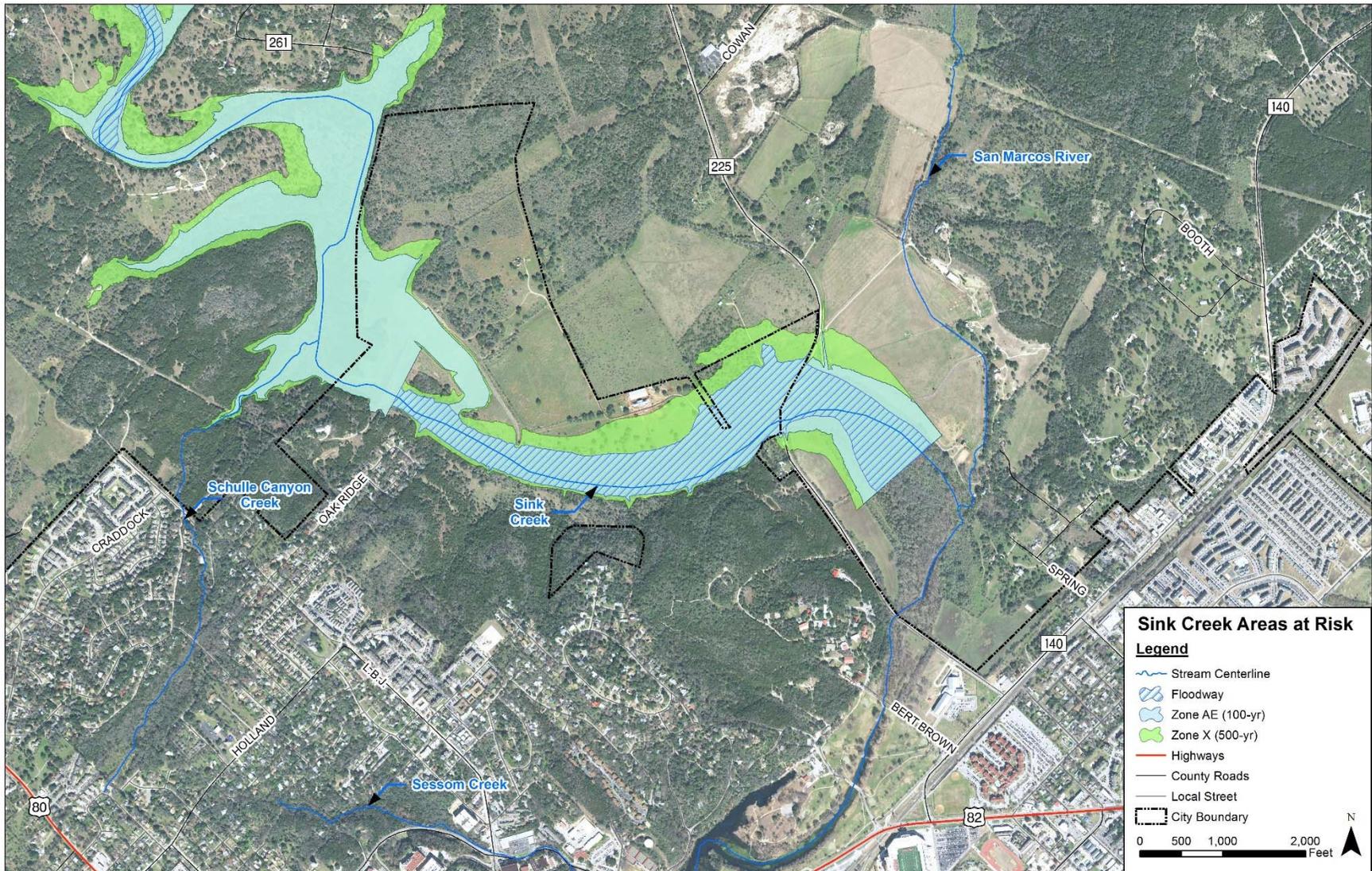
Delivery Area 1

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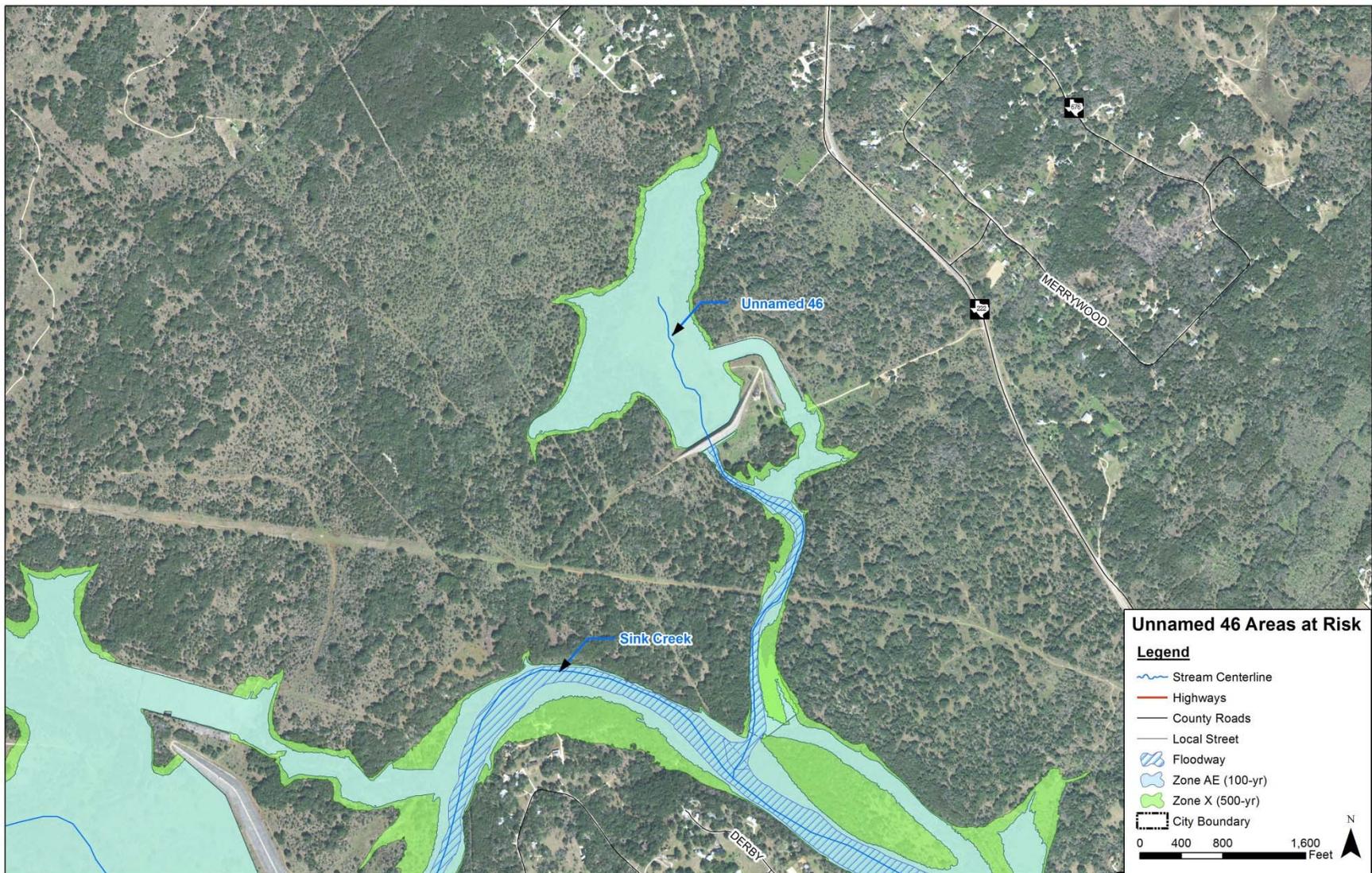
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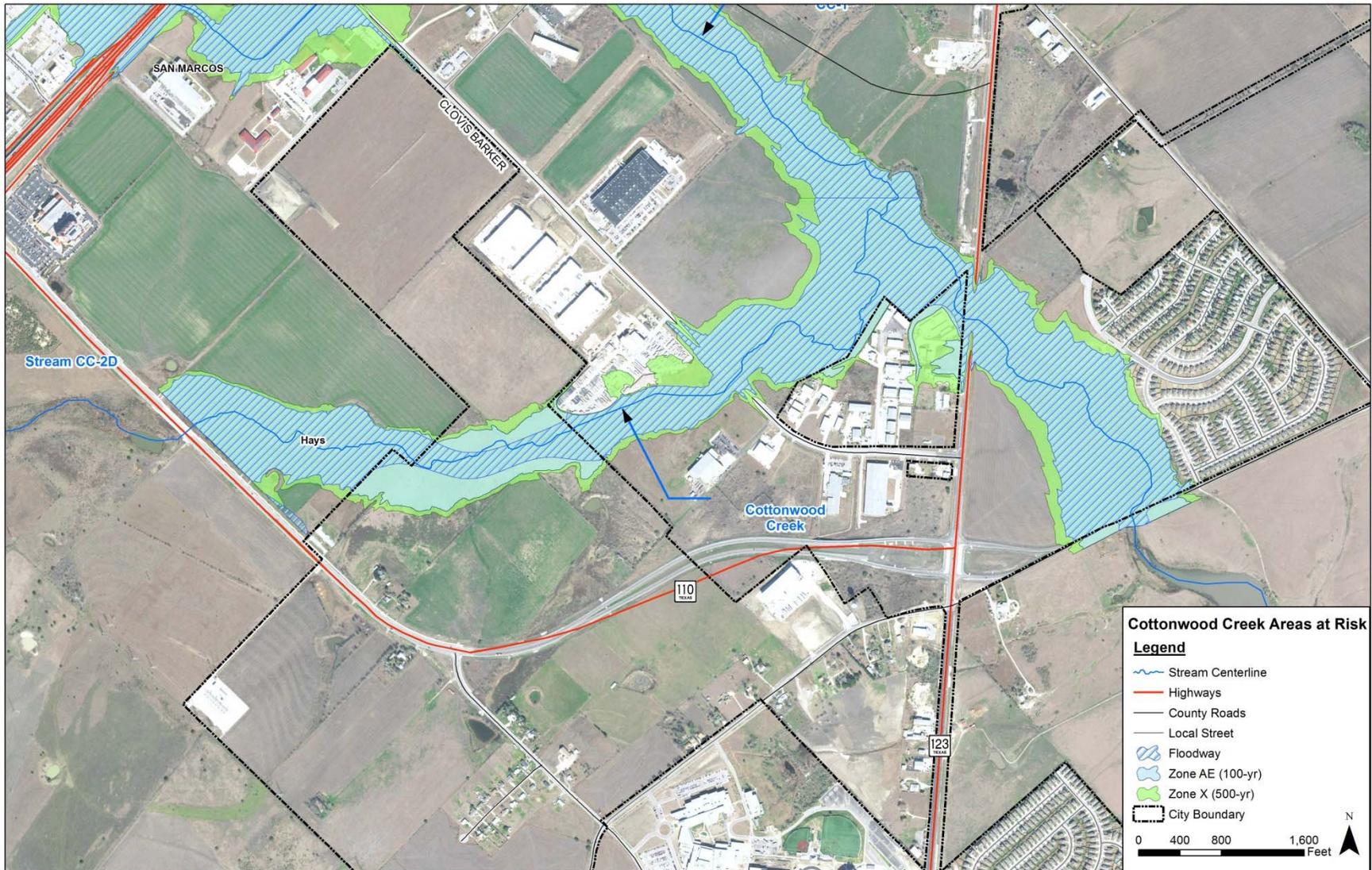
Delivery Area 1

Community Release:
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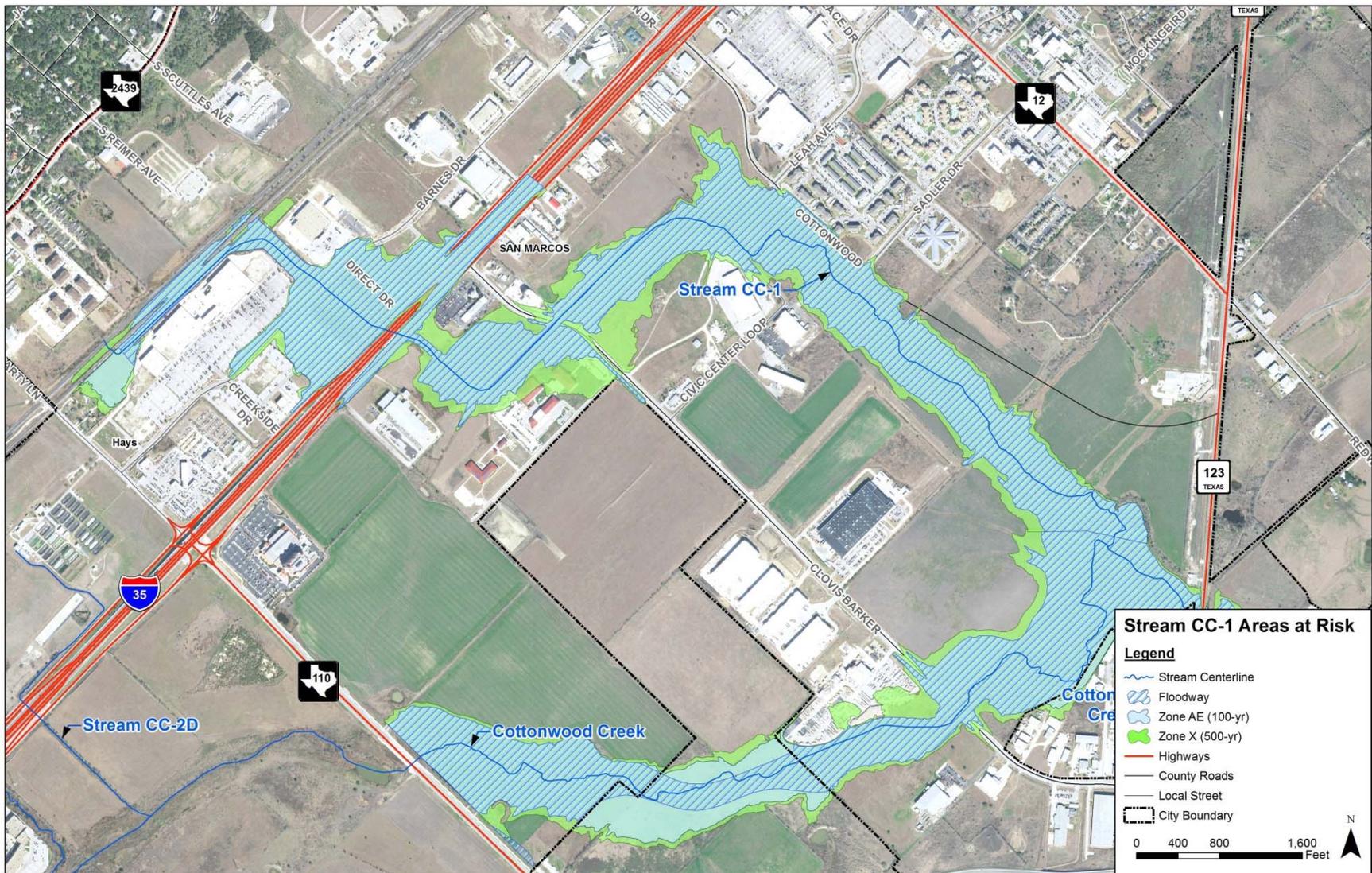
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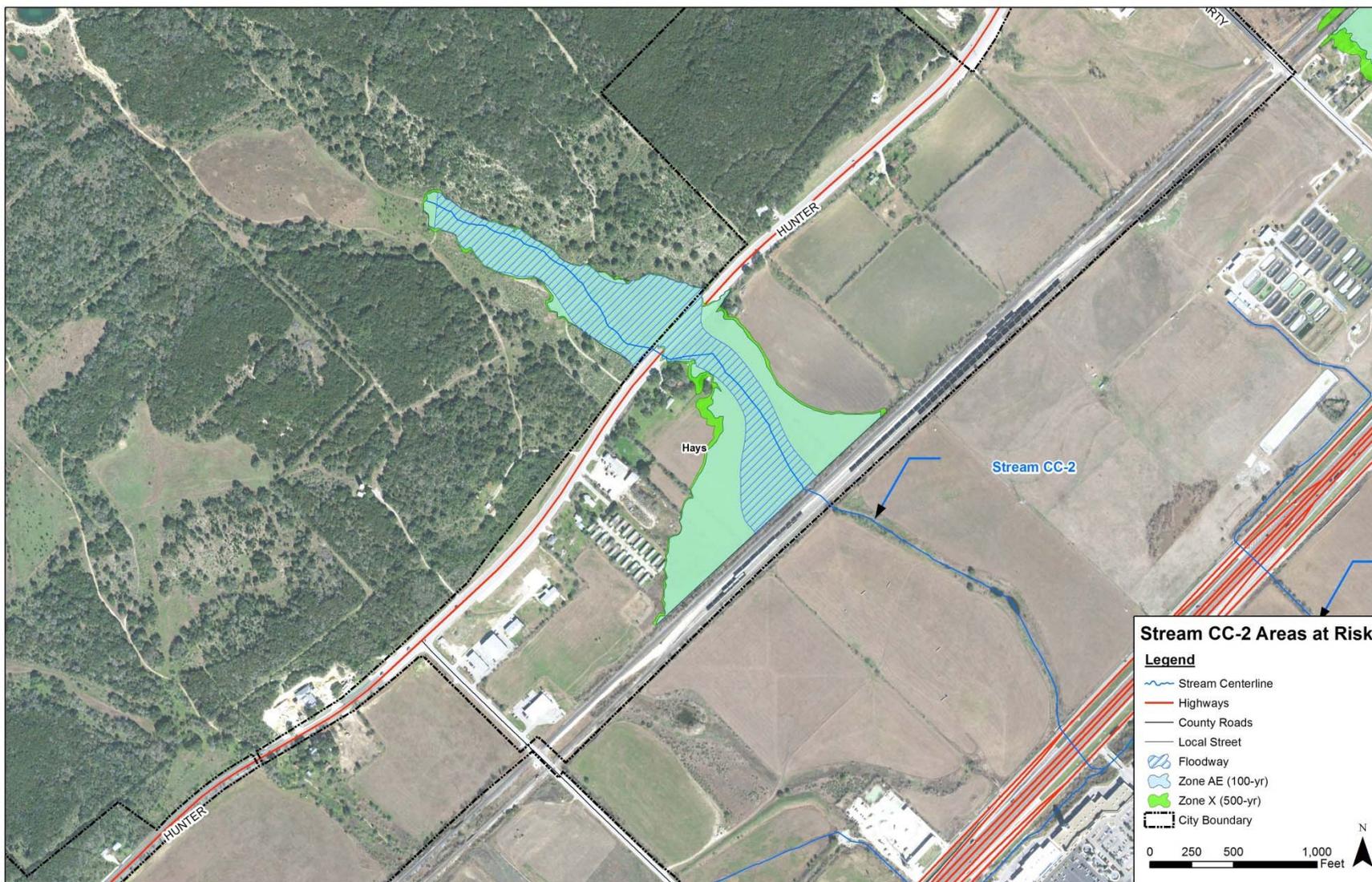
Delivery Area 1

Community Release:
Early June 2016



Delivery Area 1

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Early June 2016



Delivery Area 1

Community Release:
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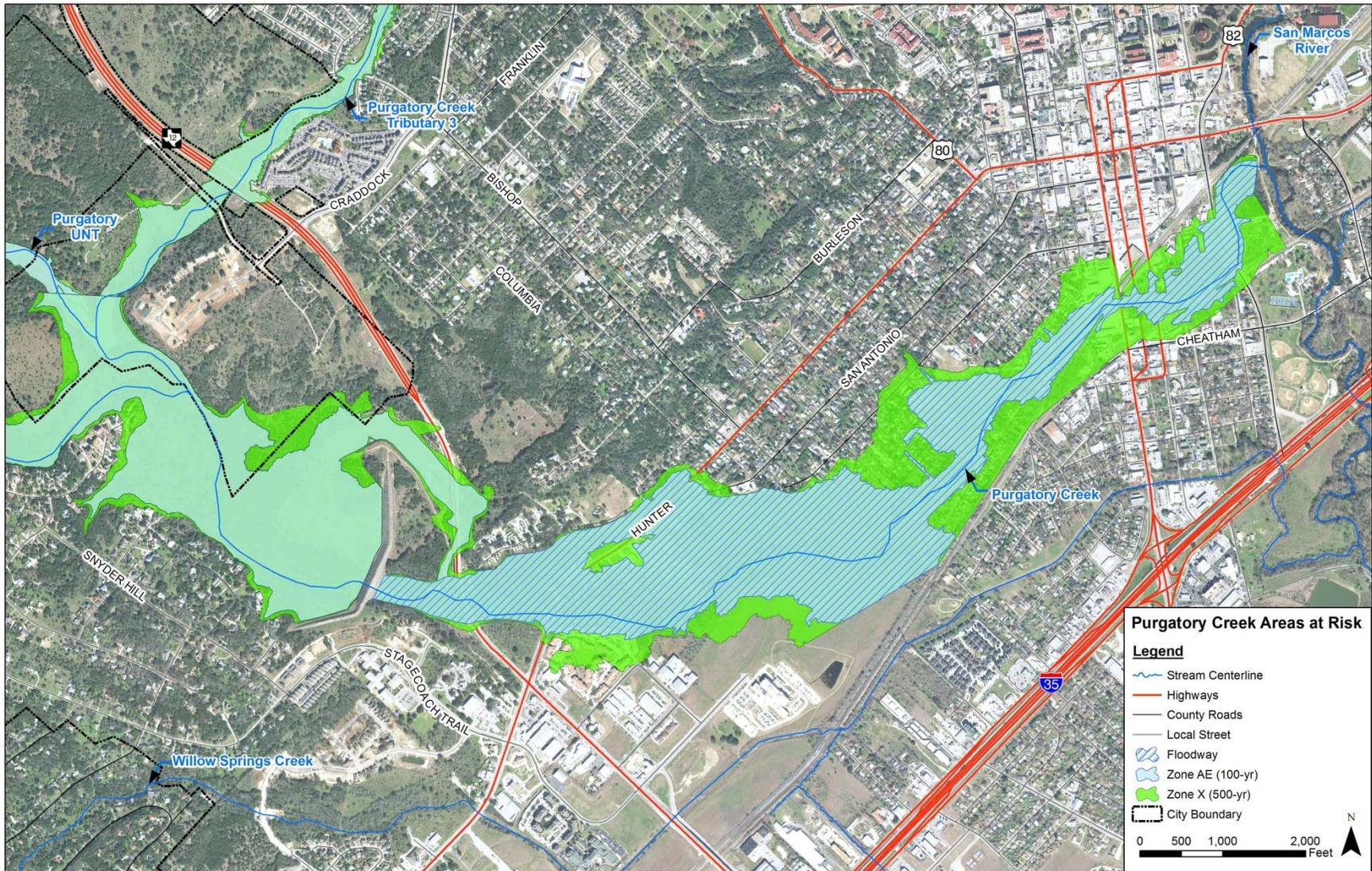
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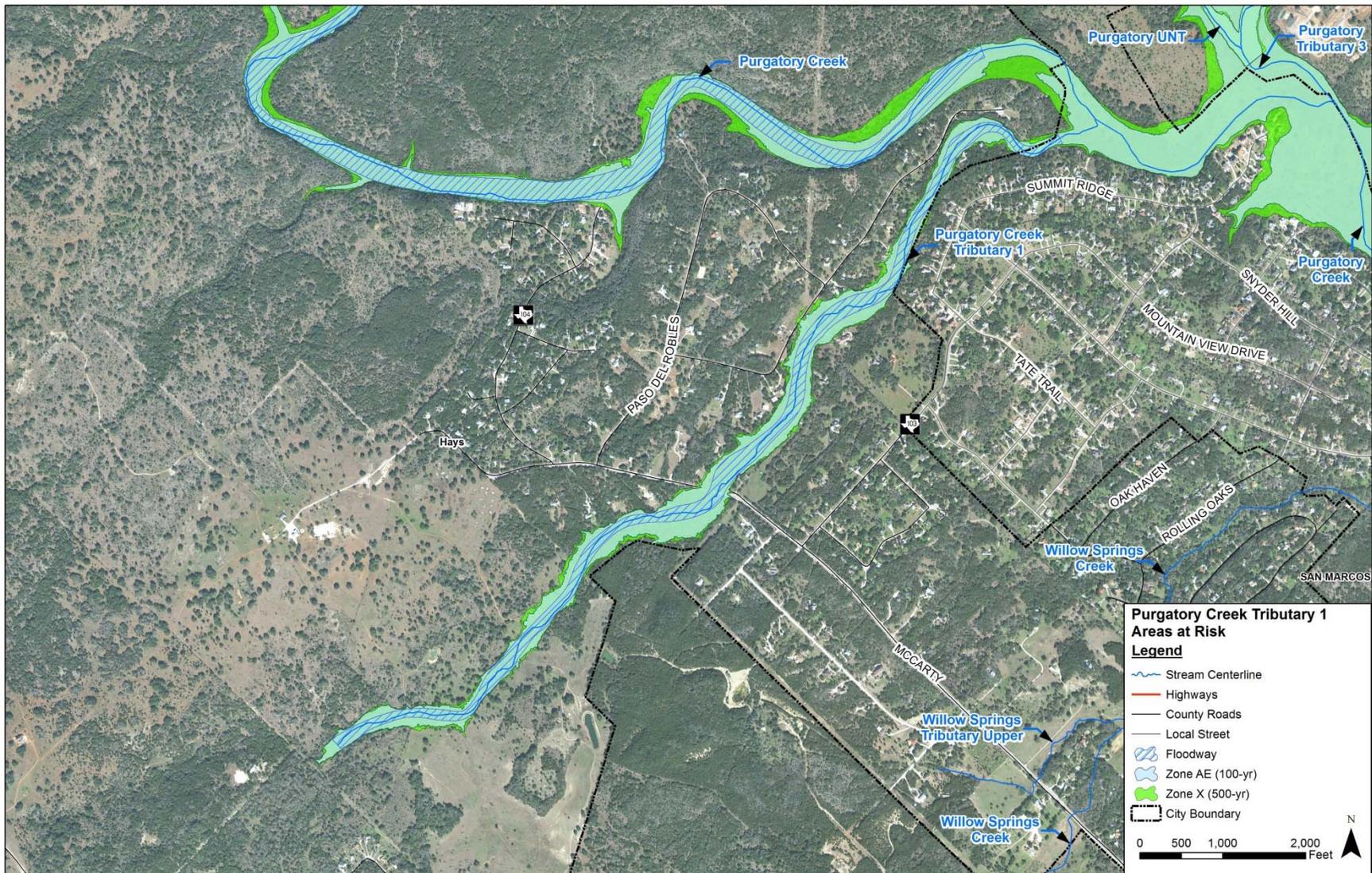
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Community Release:
Early June 2016



Delivery Area 1

Community Release:
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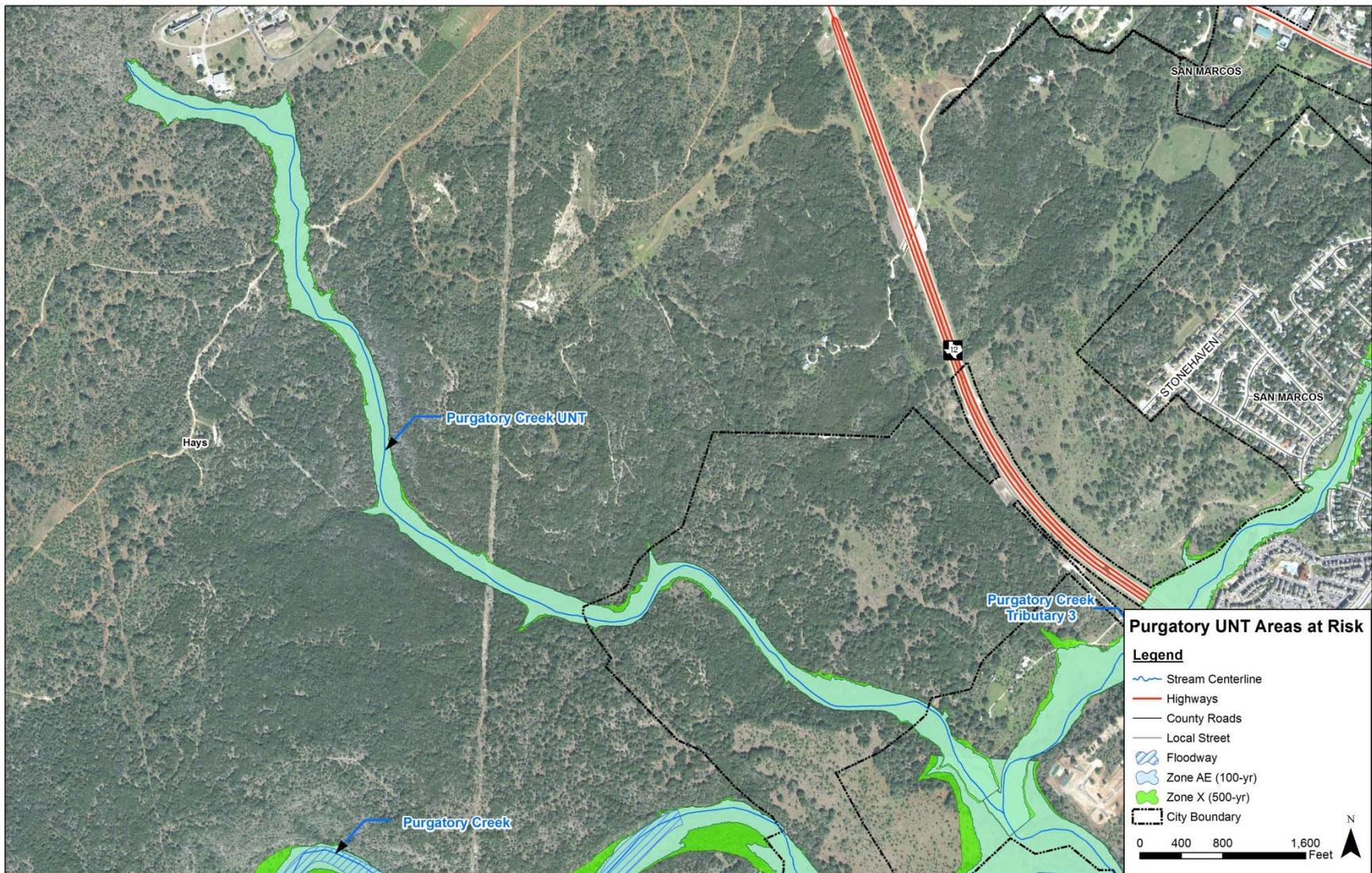
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Early June 2016



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Early June 2016



Delivery Area 1

Community Release:
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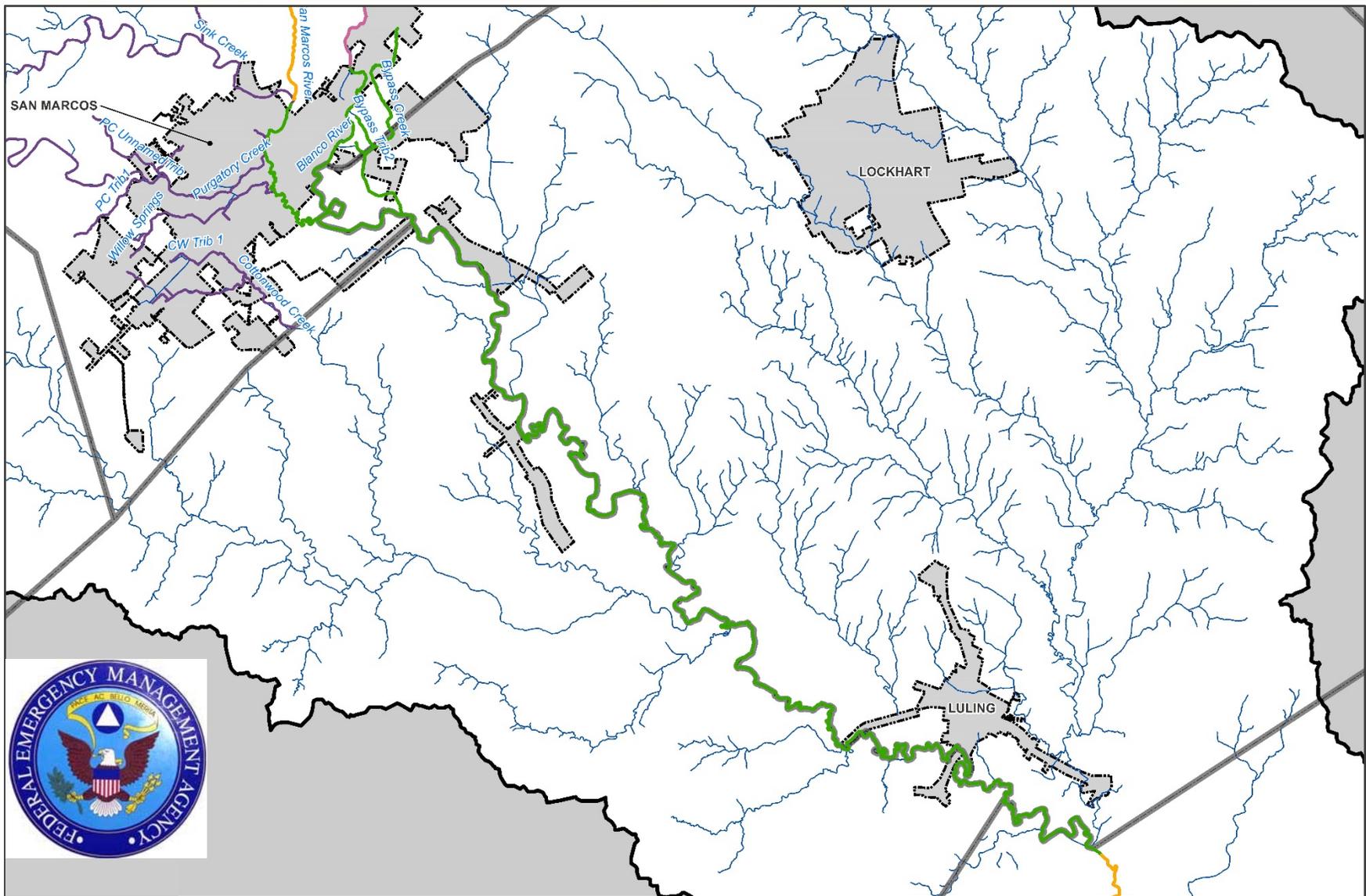
Delivery Area 1

Community Release:
Early June 2016



Delivery Area 3

Community Release:
Early July 2016



Delivery Area 3

Community Release:
Early July 2016

Streams for Update

- ▶ Blanco River (City of San Marcos)
- ▶ San Marcos River (City of San Marcos through Caldwell County)

Scope of Work

- ▶ Refined USACE hydrology for San Marcos River – **Complete**
- ▶ Minor structure survey to refine existing modeling – **Complete**
- ▶ Floodway analysis – zero-rise within city limits of San Marcos
- ▶ Floodplain mapping & work maps (digital format unless paper is requested)
- ▶ Flood Risk Review meetings

Community Data Provided

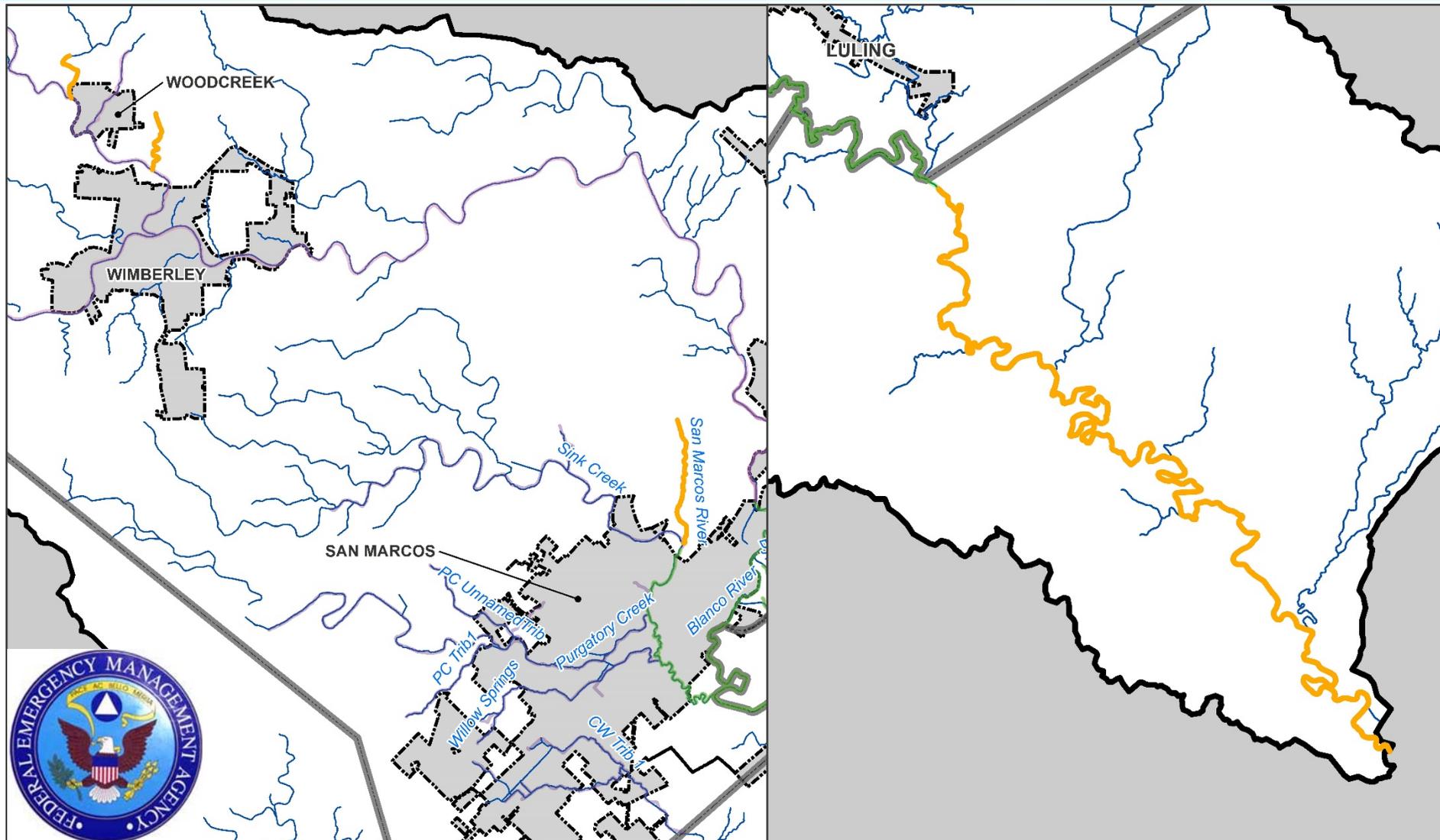
- ▶ Hydrologic and Hydraulic Modeling provided by GBRA
- ▶ 2D Analysis provided by City of San Marcos
- ▶ Advisory Base Flood Elevations released for Blanco and San Marcos

Delivery Communities

- ▶ City of San Marcos
- ▶ Caldwell, Guadalupe, Hays Counties (Unincorporated Areas)

Delivery Area 4

Community Release:
Early August 2016



Delivery Area 4

Community Release:
Early August 2016

Streams for Update

- ▶ Cypress Tribs (Hays County)
- ▶ San Marcos River Zone A (Hays County)
- ▶ San Marcos River (Gonzales County)

Scope of Work

- ▶ Refined USACE hydrology for San Marcos River - **Complete**
- ▶ No additional structure survey
- ▶ Floodway analysis
- ▶ Floodplain mapping & work maps (digital format unless paper is requested)
- ▶ Flood Risk Review meetings

Community Data Provided

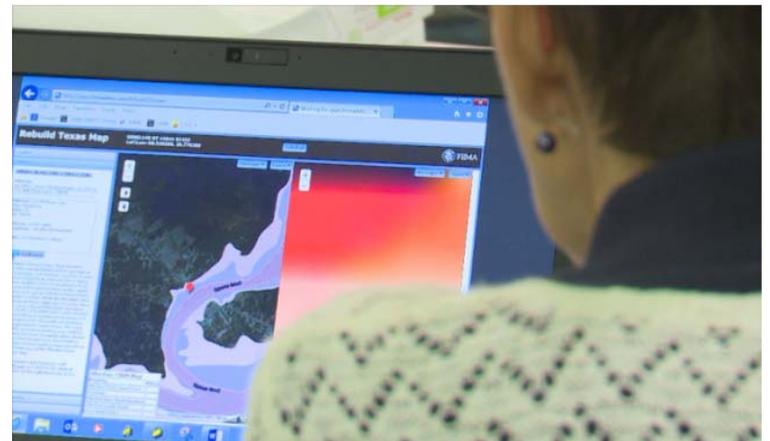
- ▶ Hydrologic and Hydraulic Modeling provided by GBRA for all streams

Delivery Communities

- ▶ Gonzales, Hays Counties (Unincorporated Areas)

Future Community Coordination

- ▶ Providing Data for Community/County Review (Digital) **May/June/July/Aug 2016**
- ▶ Flood Risk Review (Draft Maps and Meeting with Local Officials) **Sep 2016**
- ▶ Preliminary Maps Created (Available online for Public) **estimated Nov 2016**
- ▶ Consultation Coordination Officer Meet w/ Local Officials **estimated Dec 2016/Jan 2017**
- ▶ Insurance Stakeholder Workshop (for Agents, Lenders, Real Estate Professionals) **early 2017**
- ▶ Public Flood Risk Open House (2-7 p.m. in Wimberley, San Marcos, Luling) **early 2017**
- ▶ 90-day Appeal and Comment Period
- ▶ Resolution of appeals
- ▶ Letter of Final Determination
- ▶ Map adoption and Compliance
- ▶ Effective Map





FEMA

Questions:

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