



# Understanding Nature-based Solutions' Role in Flood Mitigation, Environmental Uplift, and Community Enhancement

EAC 4<sup>th</sup> Quarter Meeting– July 18, 2025

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# Nature-based Solutions

- **NbS, an "umbrella concept"**
  - Green Infrastructure, Low Impact Development, Natural, and Nature-based features, Stormwater BMPs
  - Imitate or preserve natural features and/or processes to increase environmental sustainability & resilience
  - Hybrid engineered systems or preserved natural systems
  - Provides co-benefits





# Nature-based Solutions

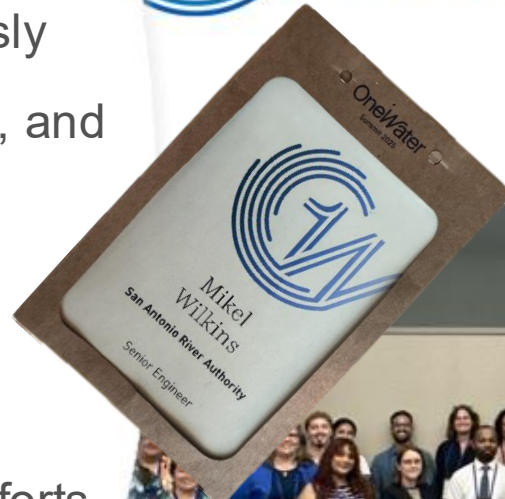
- **Co-benefits**

- Water Quality improvements
  - Bacteria, TSS, Oil/Grease, Metals, Nutrients, and Heat
- Infiltration & Peak Runoff reduction
- Habitat & Biodiversity
- Reduced Heat Island Effect
- Beautification, Recreation



# Nature-based Solutions


- **Technical Leadership:** Continuously improve planning, design, construction, and O&M guidance
  - NBS Master Planning
  - NBS for Flood Mitigation Projects
  - Support for Community Planning Efforts
  - Innovation and National Collaboration








**Features**

 NbS Priority  
Areas

 Bexar County




SAN ANTONIO  
**RIVER**  
AUTHORITY




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Features

 SA Tomorrow  
Phase 4

 NbS Priority  
Areas

 Bexar County







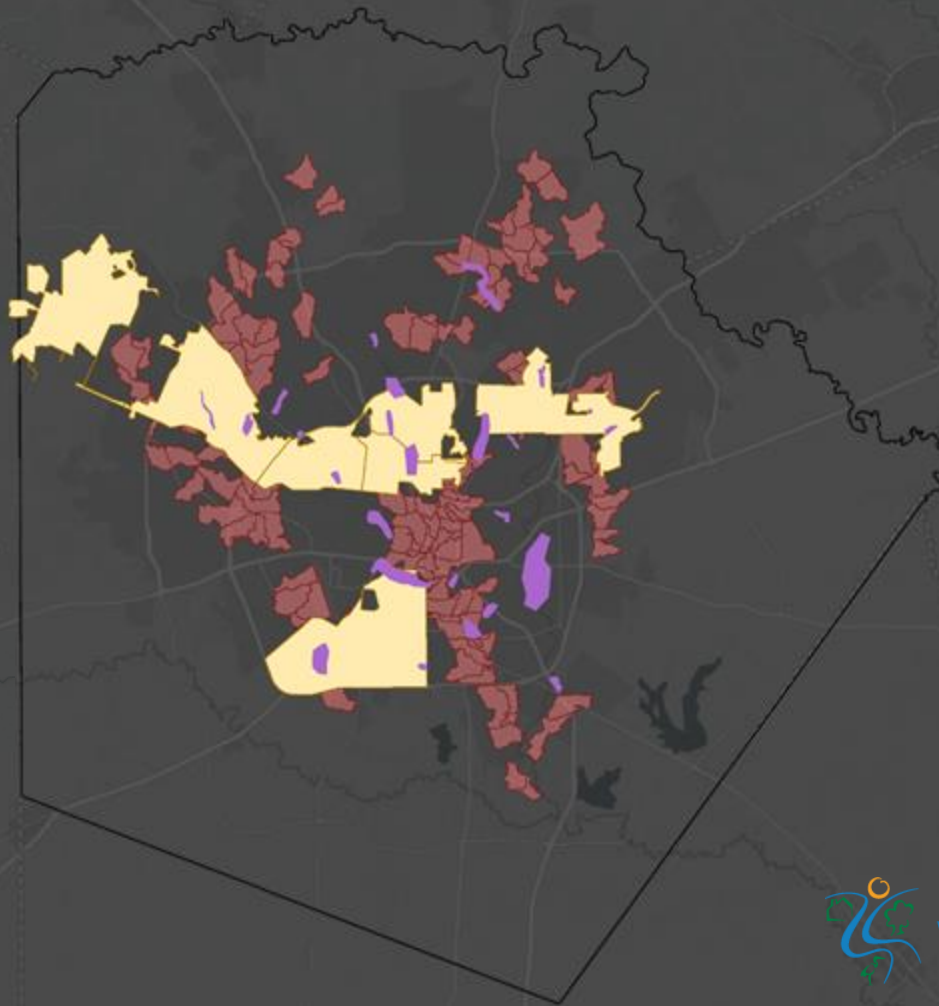
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Features

-  Damage Centers
-  SA Tomorrow Phase 4
-  NbS Priority Areas
-  Bexar County



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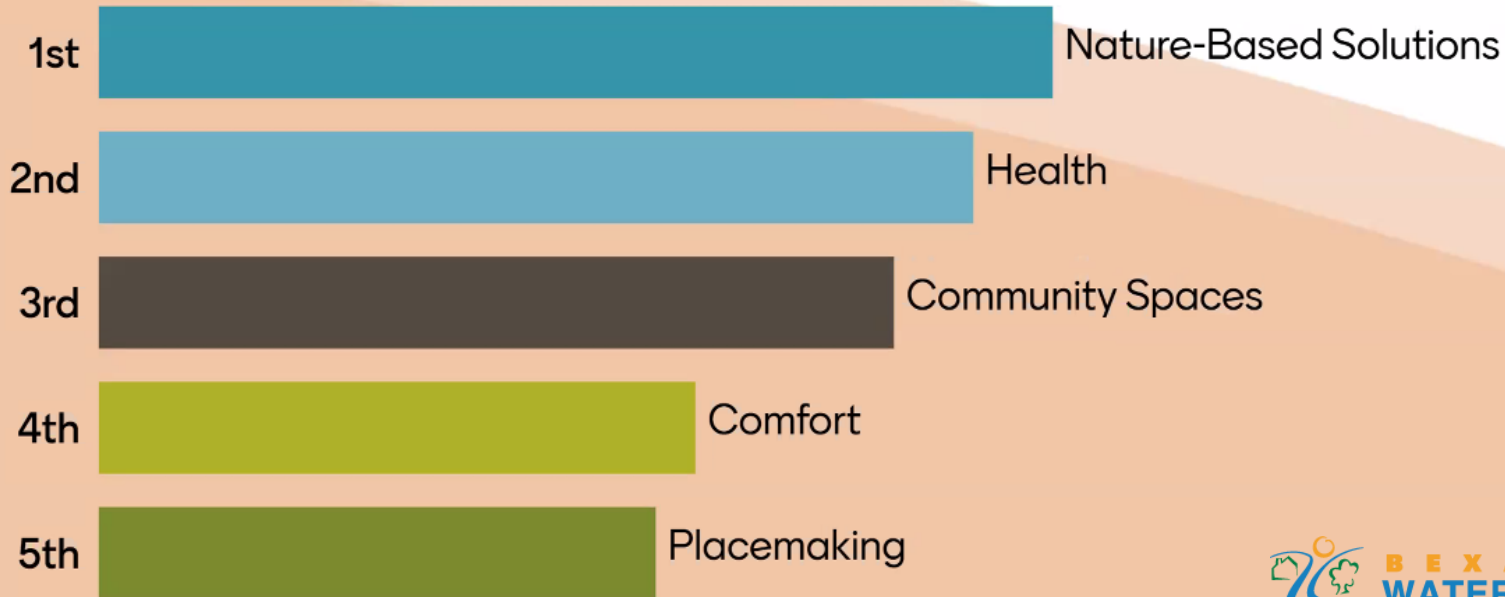
**BEXAR REGIONAL**  
WATERSHED MANAGEMENT



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Rank the **community amenity and public space elements** that you want to see in your community?





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# Implementation







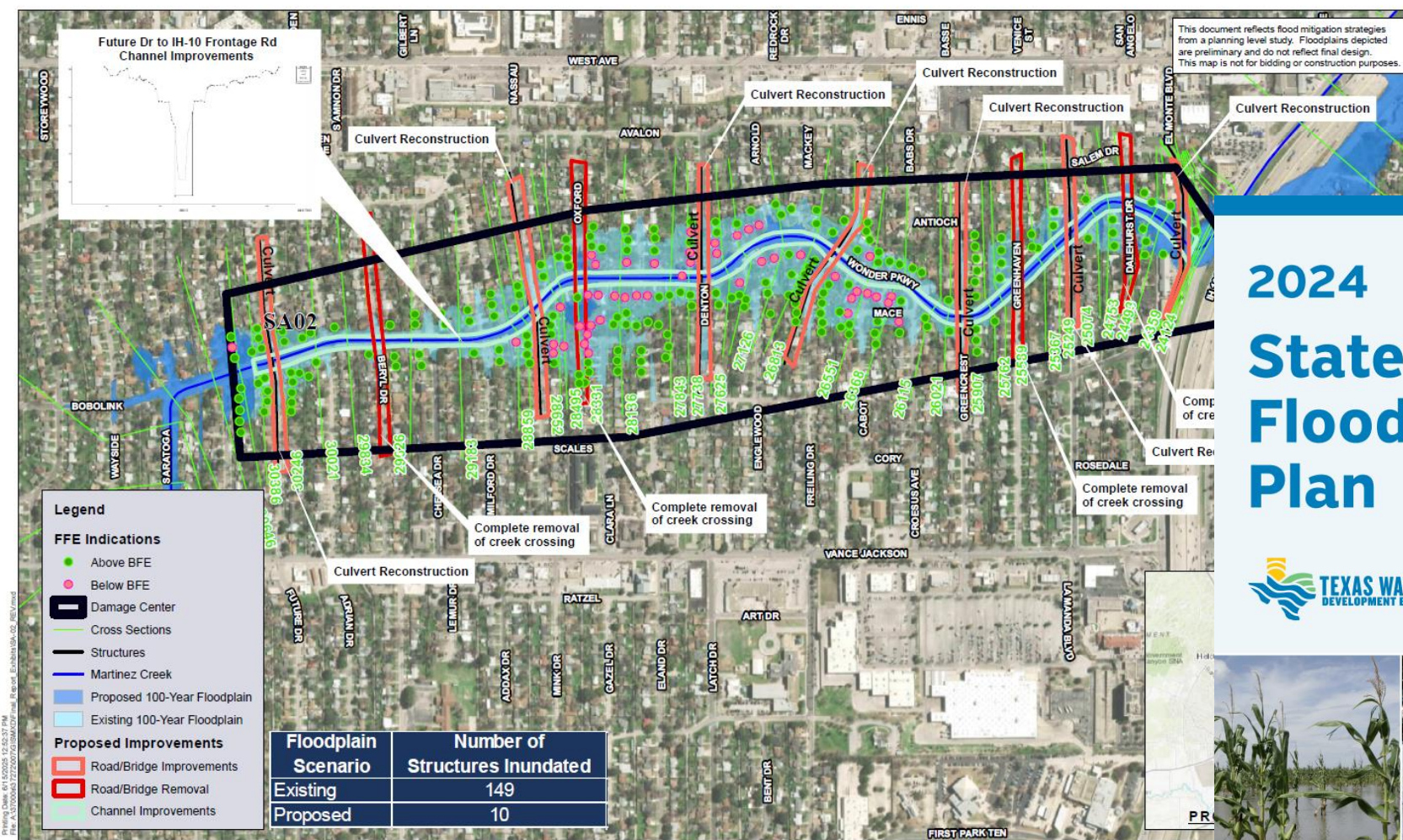
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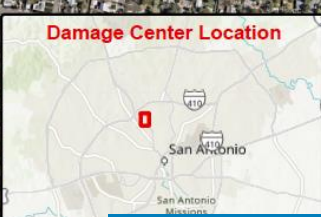
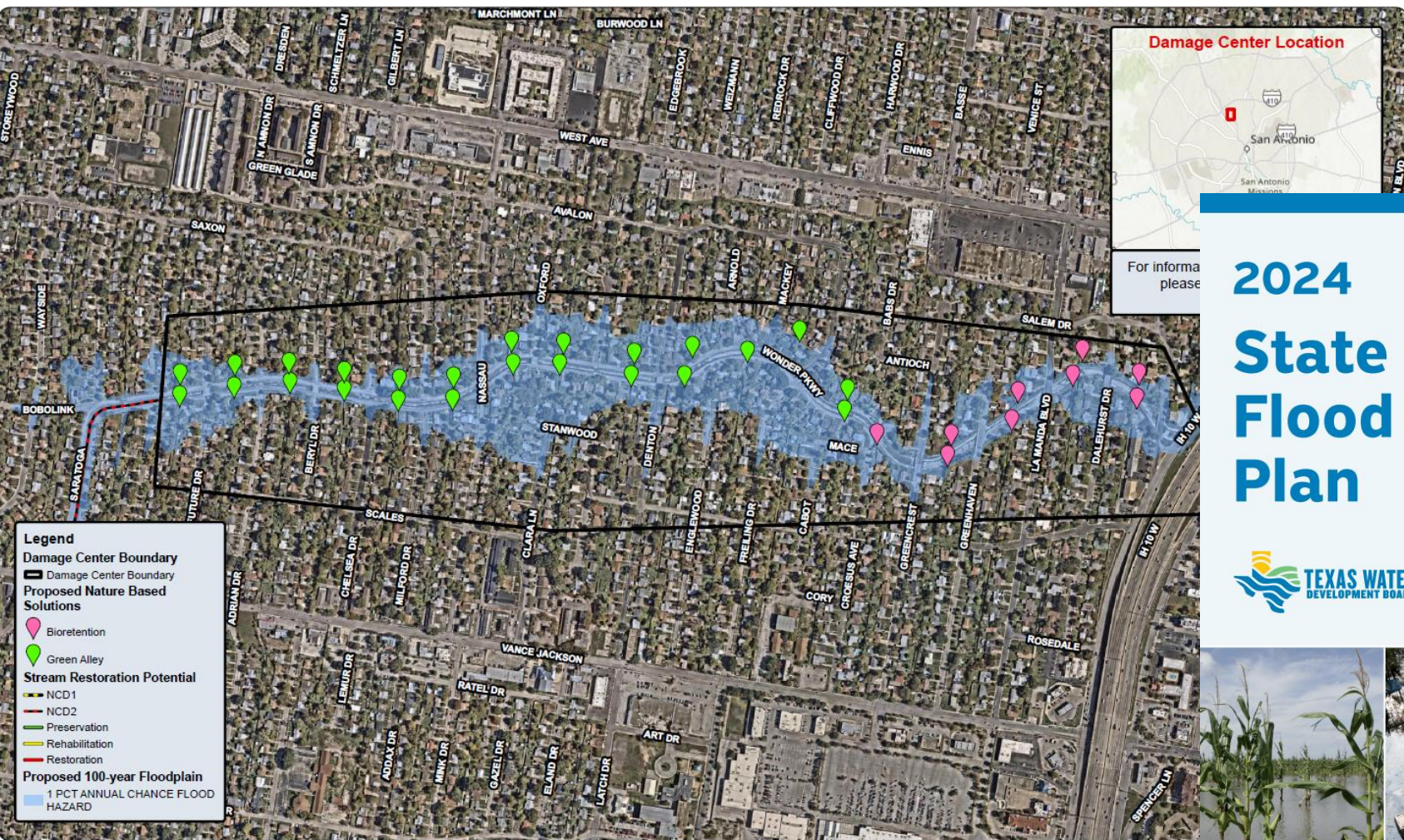




# 2024 State Flood Plan

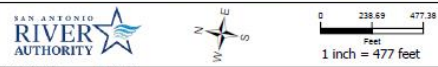






For information please

# 2024 State Flood Plan



Damage Center: SA02  
Proposed Nature Based Solutions

The GIS materials included with this inventory are for informational purposes only. They do not represent an official position of the San Antonio River Authority. Information provided, if there are any errors.



# Phase 1



- Upper San Antonio 39%
- Leon 31%
- Salado 31%
- Cibolo 0%
- Medina 0%

# Phase 2



- Upper San Antonio River 73%
- Leon 17%
- Salado 10%



# Phase 3

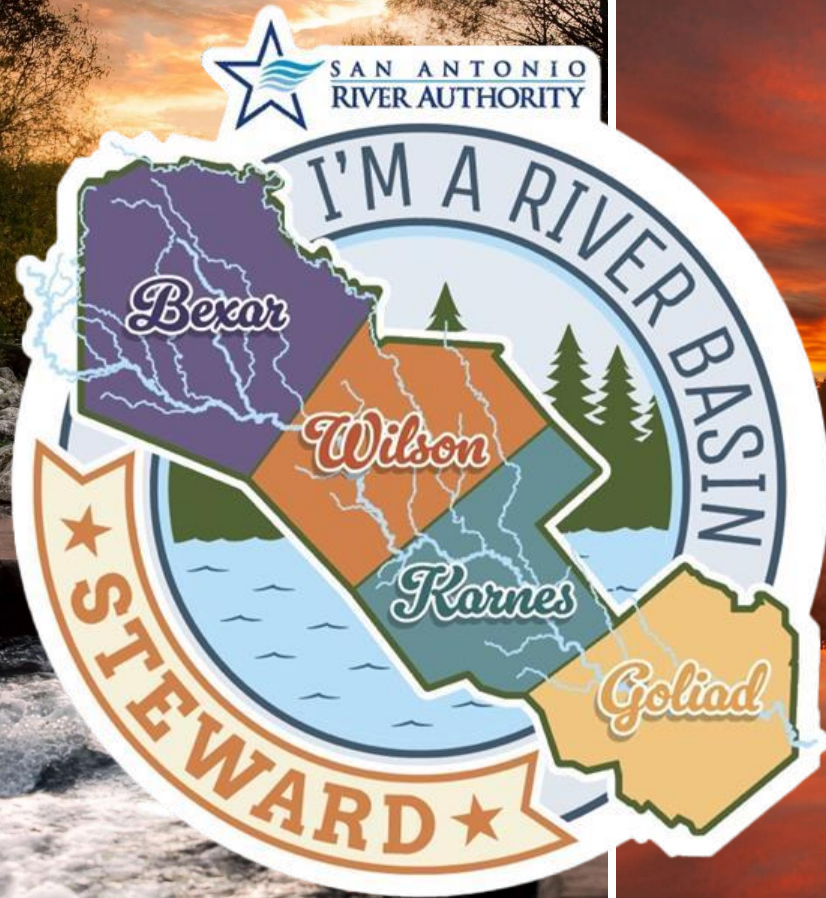


- Leon 39%
- Upper San Antonio River 39%
- Salado 22%



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