

**NOTICE OF OPEN MEETING OF THE SAN ANTONIO REGIONAL FLOOD
PLANNING GROUP**

Region 12
10/22/2024
2:00 PM

TAKE NOTICE that a meeting of the San Antonio Regional Flood Planning Group as established by the Texas Water Development Board will be held on Tuesday, October 22, 2024, at 2:00 PM, in-person at the San Antonio River Authority, located at 100 E. Guenther St, and virtually at <https://meet.goto.com/285534485>.

Agenda:

1. (2:00 PM) Roll Call
2. Public Comments – limit 3 minutes per person
3. Approval of the Minutes from the Previous San Antonio Regional Flood Planning Group Meeting
4. Communications from the Texas Water Development Board (TWDB)
5. Chair Report
6. Discussion and Appropriate Action to Fill the Existing Vacancy for the Municipalities Interest Group
7. Presentation from the San Antonio River Authority on Future Flood Risk Data for San Antonio’s Westside
8. Presentation from HDR on Region 12’s 2023 Flood Risk Reduction Solutions in the 2024 State Flood Plan
9. Public Comments – limit 3 minutes per person
10. Date and Potential Agenda Items for Next Meeting
11. Adjourn

If you wish to provide written comments prior to or after the meeting, please email your comments to khayes@sariverauthority.org or physically mail them to the attention of Kendall Hayes at San Antonio River Authority, 100 E. Guenther St., San Antonio, TX, 78204 and include “Region 12 San Antonio Regional Flood Planning Group Meeting” in the subject line.

Additional information may be obtained from: Kendall Hayes, (210) 302-3641, khayes@sariverauthority.org, San Antonio River Authority, 100 E. Guenther St., San Antonio, TX, 78204.

Meeting Minutes
San Antonio Regional Flood Planning Group Meeting
Thursday, August 08, 2024
2:00 PM
San Antonio River Authority

Roll Call:

<u>Voting Member</u>	<u>Interest Category</u>	<u>Present (x) /Absent () / Alternate Present (*)</u>
Brian Yanta	<i>Agricultural interests</i>	
David Wegmann	<i>Counties</i>	X
Doris Cooksey	<i>Electric generating utilities</i>	X
Deborah (Debbie) Reid	<i>Environmental interests</i>	X
Nefi M. Garza	<i>Flood districts</i>	X
Cara C. Tackett	<i>Industries</i>	X
Jeffrey Carroll	<i>Municipalities</i>	
Suzanne B. Scott	<i>Nonprofit</i>	X
John Paul Beasley	<i>Public</i>	
Derek Boese	<i>River authorities</i>	X
Jose Reyes	<i>Small Business</i>	
David Mauk	<i>Water districts</i>	X
Donovan Burton	<i>Water Utilities</i>	X

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent()/ Alternate Present (*)</u>
Marty Kelly	Texas Parks and Wildlife Department	
James Blount	Texas Division of Emergency Management	
Jami McCool	Texas Department of Agriculture	
Jarod Bowen	Texas State Soil and Water Conservation Board	
Kris Robles	General Land Office	X
Anita Machiavello	Texas Water Development Board (TWDB)	*Katie Koslan
Susan Roberts	Texas Commission on Environmental Quality	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **9**

Number required for quorum per current voting positions of 14: **8**

All meeting materials are available for the public at: <http://www.region12texas.org>.

AGENDA ITEM NO.1: ROLL CALL

Mr. Brian Mast, San Antonio River Authority, called the role and confirmed a quorum.

AGENDA ITEM NO.2: PUBLIC COMMENT – LIMIT 3 MINUTES PER PERSON

No public comments.

AGENDA ITEM NO.3: APPROVAL OF THE MINUTES FROM THE PREVIOUS SAN ANTONIO REGIONAL FLOOD PLANNING GROUP MEETING (REGION 12)

Mr. Wegmann motioned to approve the minutes. Mr. Garza seconded the motion, motion passed. Ms. Reid abstained.

AGENDA ITEM NO.4: COMMUNICATIONS FROM THE TEXAS WATER DEVELOPMENT BOARD (TWDB)

Ms. Katie Koslan provided an update from TWDB. She referred the RFPG to the newsletter sent out in May.

AGENDA ITEM NO.5: CHAIR REPORT

Chair Boese announced that Mr. Robert Reyna has resigned from his position with the City of San Antonio and from his seat on the RFPG voting membership. He thanked Robert for his service to the planning group.

AGENDA ITEM NO.6: DISCUSSION AND APPROPRIATE ACTION TO AUTHORIZE THE SPONSOR TO PUBLISH SOLICITATION FOR EXISTING VACANCY

Chair Boese requested the RFPG to authorize the solicitation for the vacancy in the Municipalities interest group. He stated that the solicitation would include language indicating a preference for representation from a larger municipality, a seat traditionally held by the City of San Antonio.

Ms. Reid motioned to authorize the Sponsor to publish a solicitation for the vacancy in the Municipalities interest group. Ms. Tackett seconded the motion, motion passed.

AGENDA ITEM NO.7: DISCUSSION AND APPROPRIATE ACTION TO SELECT A TECHNICAL CONSULTANT FOR CYCLE II OF REGIONAL FLOOD PLANNING

Ms. Tackett reviewed the recommendation of the Scoring Team. The team, as determined in the previous RFPG meeting, consisted of Ms. Tackett, Mr. Wegmann, Ms. Scott, and two engineers from the River Authority staff. After reviewing the merits of the two received applications for the position of the Technical Consultant, the Scoring Team recommended HDR for the position. Discussion ensued regarding the merits of the submittals.

Mr. Wegmann motioned to select HDR as the Region 12 Technical Consultant and authorize the Sponsor to negotiate and execute the subcontract. Ms. Tackett seconded the motion, motion passed.

AGENDA ITEM NO.8: PUBLIC COMMENT – LIMIT 3 MINUTES PER PERSON

No public comments.

AGENDA ITEM NO.9: DATE AND POTENTIAL AGENDA ITEMS FOR NEXT MEETING

The SARFPG will meet next on Tuesday, October 22nd at 2:00 PM. Mr. Wegmann asked for a presentation from TWDB on any applications for projects within Region 12 that made it through the Flood Infrastructure Fund’s abridged application stage. Chair Boese suggested a presentation from the River Authority staff on the River Authority’s modeling of future flood risk data in San Antonio. Ms. Tackett requested that HDR prepare a presentation on the ranked results of Region 12’s 2023 Flood Risk Reduction Solutions in the 2024 State Flood Plan.

AGENDA ITEM NO.10: ADJOURN

Ms. Reid motioned to adjourn. Ms. Tackett seconded the motion, motion passed.

SAN ANTONIO REGIONAL FLOOD PLANNING GROUP

Nomination for Interest Group:

Municipalities

Pursuant to official Bylaws and Guiding Principles adopted by the San Antonio Regional Flood Planning Group (SARFPG), nominators shall provide information regarding the nominee's current employer, and provide a description of the nominee's experience that qualifies him/her for the position in the interest group being sought to represent. Please refer to section 361.11 (e) (see *addendum*) of the Texas Administrative Code for the definitions of the interest categories represented on the SARFPG.

NOMINATOR

NAME: Razi Hosseini, P.E., R.P.L.S.
ADDRESS:
PHONE: **FAX:** **EMAIL:**
OCCUPATION City of San Antonio Director/City Engineer Public Works Department

NOMINEE

NAME: Sabrina Santiago
ADDRESS:
PHONE: **FAX:** **EMAIL:**
INTEREST AREA: Municipalities, defined as governments of cities created or organized under the general, home-rule, or special laws of the state."
COUNTY: Bexar
OCCUPATION: City of San Antonio, Capital Programs Manager/Floodplain Administrator

PLEASE GIVE A BRIEF DESCRIPTION OF THE NOMINEE'S EXPERIENCE THAT WOULD QUALIFY HIM/HER FOR THE POSITION (please use additional pages if needed):

I currently am a Capital Programs Manager for the Storm Water Engineering/Floodplain Management division of Public Works for the City of San Antonio. I have been in this role for just over three years. I also serve as the City of San Antonio's Floodplain Administrator who oversees all floodplain related projects to include land development, Capital Improvement Projects (CIP), and Letters of Map Change. This role that I serve is also responsible for maintaining the City of San Antonio's Community Rating System (CRS). Prior to the manager position I served as a Special Projects Manager or Plat Team Lead. I have been with the City for 17 years. My entire role tenure with the City has been with Public Works Storm Water Engineering. My role as the Capital Programs Manager is to ensure all projects adhere to the City's Unified Development Code. I coordinate any code amendments that are necessary with Development Services Department, so I am very familiar with our local codes and ordinances. I am also very familiar with the land development projects and City bond projects. I also oversee two different City funds, our Storm Water Management Participation/Fee in lieu Of and our Storm Water Utility Fund. Lastly, I oversee three contracts for engineering services to aid my team in various tasks related to plan review. I believe my tenure with the City of San Antonio and my extensive knowledge in the local codes and ordinances would make me a valuable member for this committee.

PLEASE LIST ANY PERTINENT AFFILIATIONS (please use additional pages if needed):

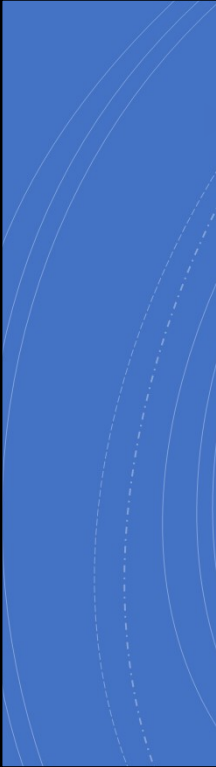
I am a Certified Floodplain Manager for the local chapter of the Floodplain Management Association. I also sit on the new City's Storm Water Management Advisory Board as a City representative. I am also part of the partnership between the City of San Antonio, Bexar County, and the San Antonio River Authority's BRWM. I am a member of the American Public Works Association as well as the local EWRI chapter

I have a close working relationship with the City of San Antonio's Technical Advisory Committee (TAC), RECSA, and PEPP committees, through the City's Development Process Task Force and PEPP organizations.

DATE SUBMITTED: 9/19/2024

PLEASE ATTACH ADDITIONAL INFORMATION IF DESIRED

Nominations must be received by **5:00 PM, Monday, October 14, 2024** addressed to Derek Boese, Chair, San Antonio RFPG, c/o San Antonio River Authority, Attn: Kendall Hayes, 100 East Guenther St., San Antonio, Texas 78204 or email to khayes@sariverauthority.org



Agenda Item 7:
Presentation from the San
Antonio River Authority on the
Future Flood Risk Data for San
Antonio's Westside

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Westside Creeks

San Antonio's Step toward Future of Flood
Risk Data (FFRD)



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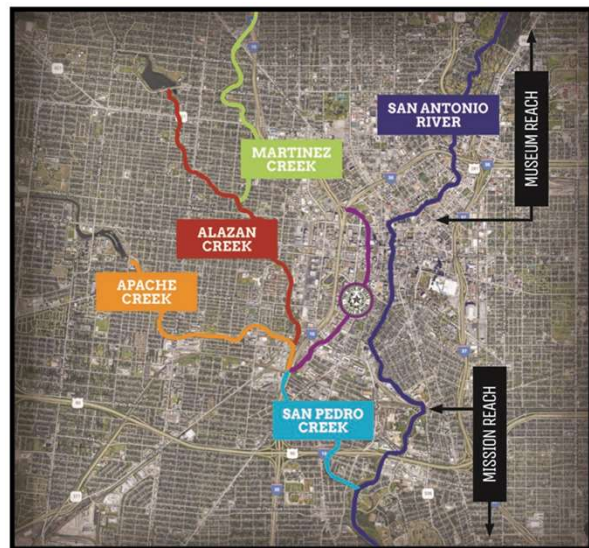
San Antonio River Westside Creeks



Committed to Safe, Clean, Enjoyable Creeks and Rivers.

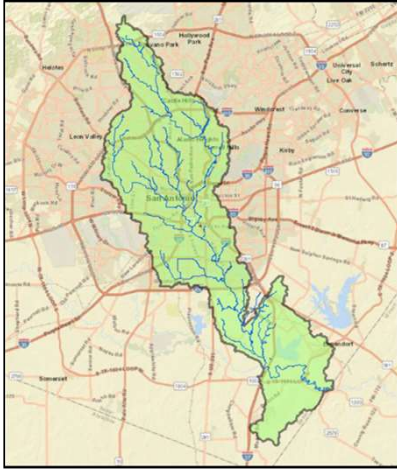
San Antonio River Westside Creeks

- **Consist of 4 streams**
 - Apache Creek
 - San Pedro Creek
 - Martinez Creek
 - Alazan Creek
- Highly Urbanized Area
- **Two Historic Reservoirs within streams**
 - Woodlawn Lake
 - Elmendorf Lake

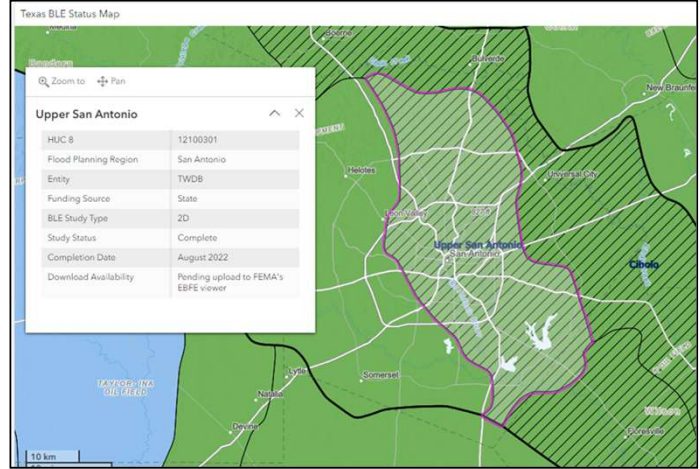


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Existing Studies



Upper San Antonio Detailed 1D Models

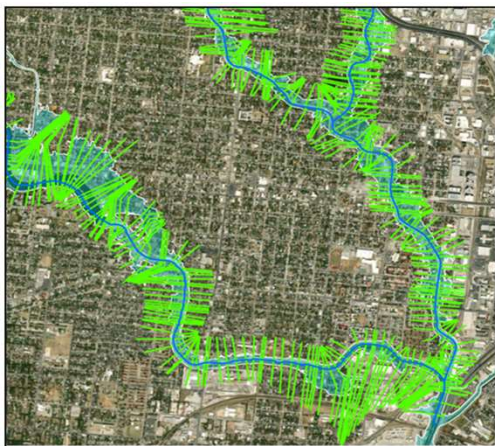


Texas Water Development Board created a 2D BLE model of the entire Upper San Antonio Watershed



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Project Objectives



1D Hydraulic Models



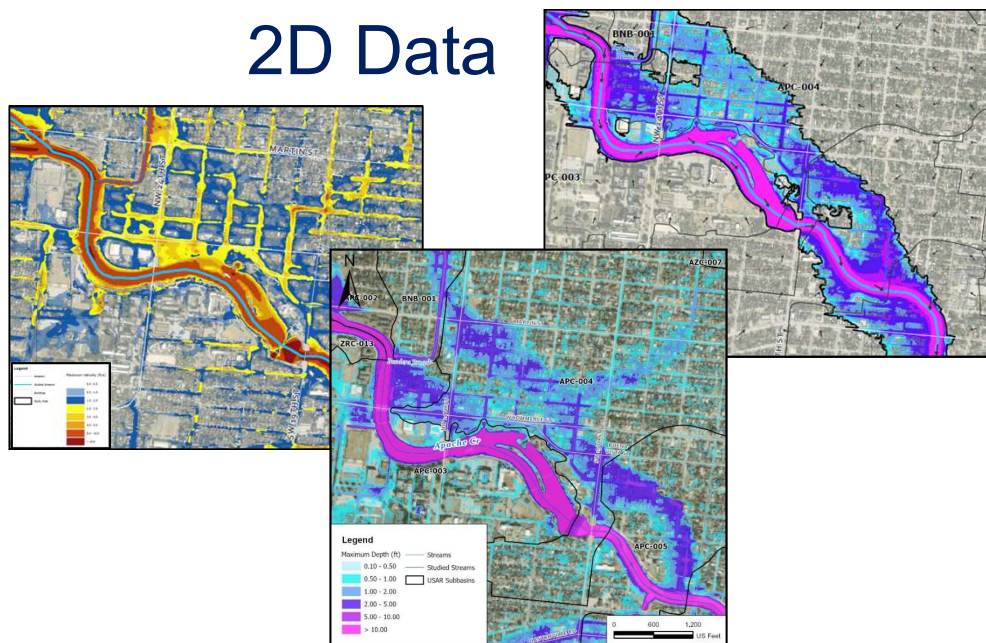
2D Hydraulic Models



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2D Data

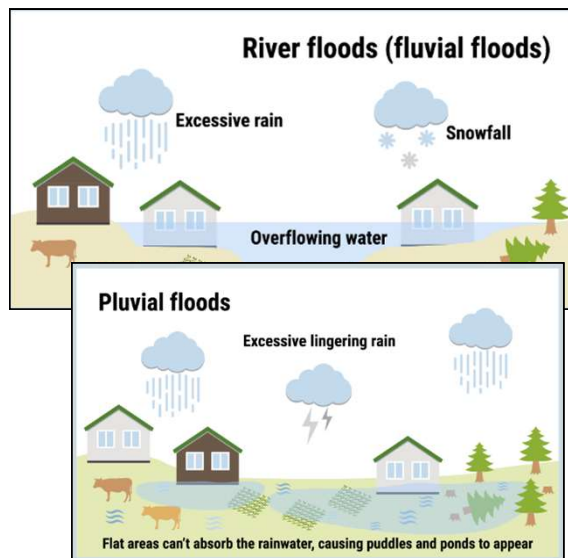
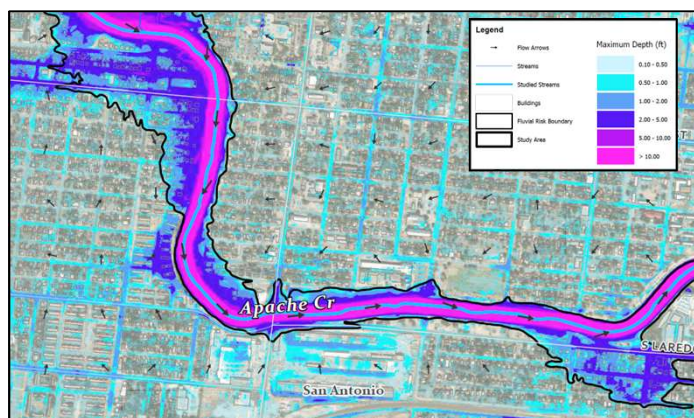
- Lumped Hydrology
- Rain on Mesh



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Pluvial and Fluvial Risk

- Categorize flooding from creeks (fluvial) vs overland flooding (pluvial)



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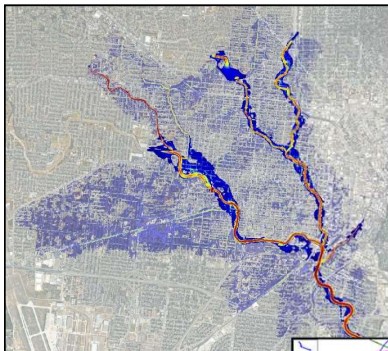
Future Climate Impacts

- Increases in Flood Depths
- Help Identify Future Areas of Concern

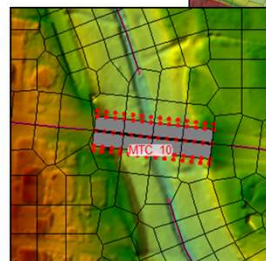
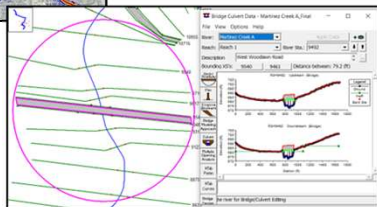
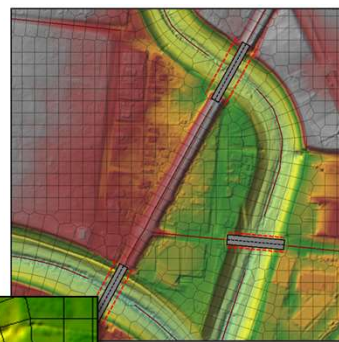


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Model Development



- 1D Data Incorporated
 - Automated structure integration
- Ran Multiple Scenarios
 - Lumped Hydrograph
 - Rain-on-Mesh
- Processed Data
 - Significant pluvial risk shown
- Performed Future Climate analysis



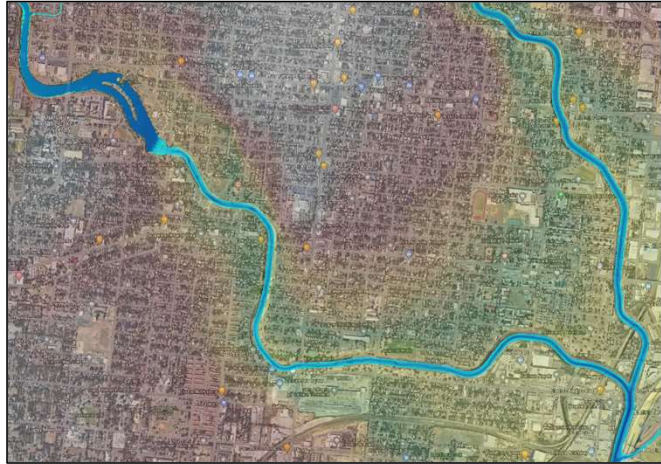
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Results Comparison

Rain on Mesh



Lumped Hydrology



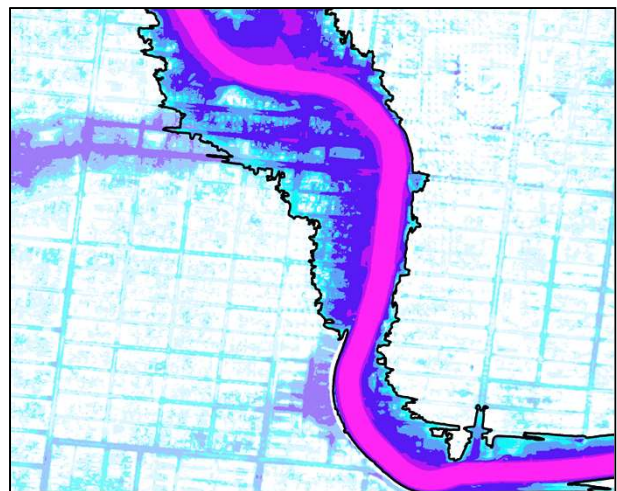
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Fluvial vs. Pluvial Risk

- Rain on Mesh necessitates floodplain boundary identification
- Project developed automated process to identify floodplain boundary
- Helps identify types of risk and major flooding areas outside channel banks
- Results provide pathways toward mitigation



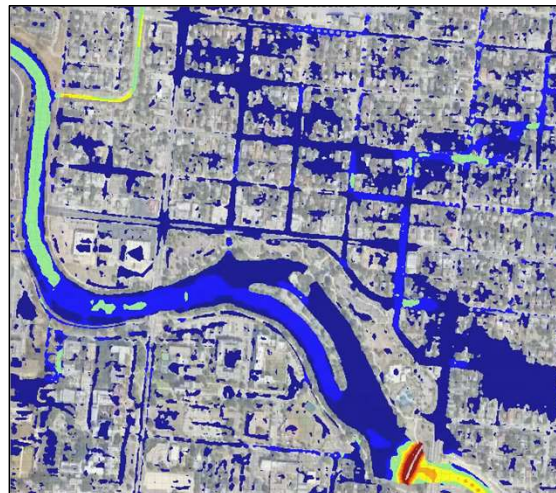
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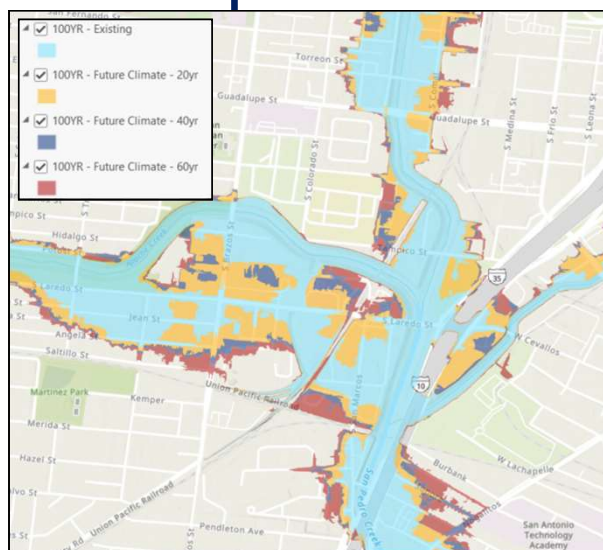
Benefits of 2D Analysis

- Provides model that can easily integrate future rainfall and other data updates
- Data can be analyzed to inform risk and future mitigation and design options.
- Helps build resilience to future changes in rainfall

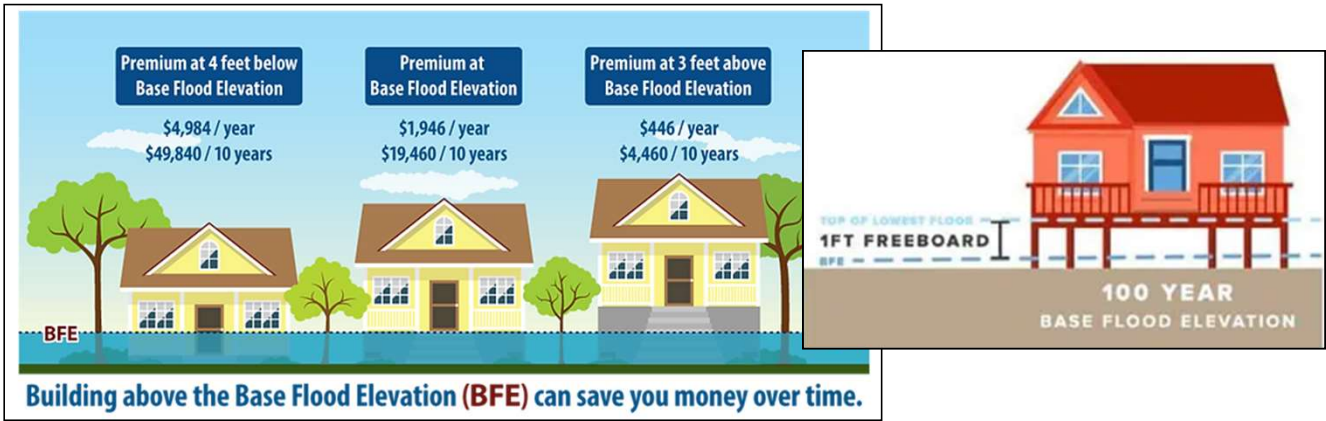


Future Climate Floodplains

100YR Scenario	Projected Additional Floodplain (ac)	Projected Add'l Floodplain per River Mile (ac/mi)
Future Climate – 20yrs	230	20
Future Climate – 40yrs	300	26
Future Climate – 60yrs	390	34



Freeboard

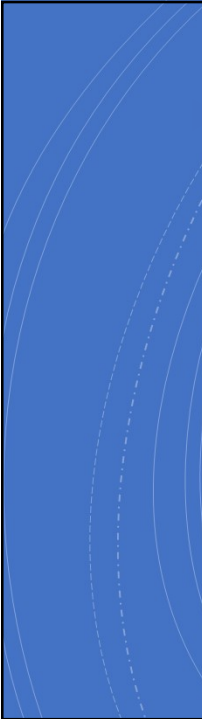


Questions?

Daniel Perry, PE, CFM

Project Manager


dperry@sariverauthority.org




Agenda Item 8: Presentation from HDR on Region 12's 2023 Flood Risk Reduction Solutions in the 2024 State Flood Plan

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FMP and FME Rankings

- View project rankings on State Flood Plan, TWDB→Flood→Flood Planning→State Flood Plan www.twdb.texas.gov/flood/planning/sfp/index.asp
 - View project locations on State Flood Plan Viewer texasstatefloodplan.org
 - Download project ranking excel spreadsheets, TWDB→Flood→Flood Finance Assistance→Flood Infrastructure Fund www.twdb.texas.gov/financial/programs/FIF/index.asp
- 

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R12 FME
Rankings

Sponsor	Total Count
San Antonio	49
Castroville	4
Bexar County	9
Kendall County	1
Karnes County	14
Bandera County	11
San Antonio River Authority	9

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R12 FME Rankings


Rank	Sponsor	Name	FME Type	Cost
345	San Antonio River Authority	Natural capital inventory	Watershed Planning	\$300,000
345	San Antonio River Authority	Evaluation and prioritization of new gauge locations	Watershed Planning	\$50,000
345	San Antonio River Authority	Future conditions data refinement study	Watershed Planning	\$500,000
345	San Antonio River Authority	River Authority WWTP Resilience	Project Planning	\$600,000
476	Bexar County	Master Drainage Plan for Bexar County Unincorporated Areas	Watershed Planning	\$150,000
476	Bexar County	Master Drainage Plan for Bexar County HALT Low Water	Watershed Planning	\$150,000
568	Karnes County	Karnes County FEWS	Preparedness	\$100,000

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R12 FME Rankings

Rank	Sponsor	Name	FME Type	Cost
610	San Antonio River Authority	Holistic Watershed based master planning consistent with Nature Based Solutions	Watershed Planning	\$2,247,403
825	Wilson County	Wilson County LWC Study	Watershed Planning	\$300,000
844	San Antonio River Authority	Lower Basin Predictive Flood Model	Watershed Planning	\$1,000,000
1073	Karnes County	Low Water Crossing Upgrades	Watershed Planning	\$305,000
1073	Karnes County	Update flood information and policies	Project Planning	\$100,000
1337	San Antonio	Damage Center 7- Zarzamora Creek	Project Planning	\$14,775,610
1397	San Antonio	Apache Creek & Elmendorf Lake Dam	Watershed Planning	\$350,000

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R12 FMP
Rankings

Sponsor	Total Count
San Antonio	14
Boerne	16
Castroville	3
Bulverde	3
Bexar County	12
Kendall County	3
Karnes County	15

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R12 FMP Rankings

Rank	Sponsor	Name	FME Type	Cost
20	San Antonio	Concepcion Creek Improvements Project	Infrastructure	\$179,482,000
49	San Antonio	Southwell Road Drainage Improvements	LWC upgrade	\$5,921,000
51	San Antonio	Seeling Drainage Improvements	Storm Drain	\$28,367,500
58	Karnes County	City of Kenedy Drainage Improvements on Escondido Creek	Comprehensive	\$33,317,000
90	Boerne	PROJECT 16 - SOUTH CURREY CREEK CHANNEL IMPROVEMENTS	LWC upgrade	\$1,421,580
92	Karnes County	Drainage Improvements at CR 337 and CR 326 Near City of Runge	Comprehensive	\$6,773,000
93	San Antonio	Overbrook Drainage Improvement Phase 1 & 2	Storm Drain	\$30,842,000

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R12 FMP Rankings

Rank	Sponsor	Name	FME Type	Cost
113	Boerne	PROJECT 15 - NORTH CURREY CHANNEL IMPROVEMENTS	Channel	\$663,404
128	Balcones Heights	Woodlawn Lawn Lake Option 2	Channel	\$9,196,000
138	Boerne	PROJECT 3 - CURREY CREEK REGIONAL DETENTION FACILITY	Detention Pond	\$8,908,570
146	San Antonio	Barbara Drive Drainage Improvements	Storm Drain	\$27,826,900
148	San Antonio	Thames Drainage Channel Replacement - Alt 1	Storm Drain	\$28,990,700
150	Boerne	PROJECT 2 - UNNAMED TRIBUTARY A REGIONAL DETENTION FACILITY	Detention Pond	\$7,013,130
151	Bulverde	Lewis Creek Alternative 1 Phase 1 & 2	Channel	\$6,021,780

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