Region 6: San Jacinto Regional Flood Planning Group September 9, 2021 9:00 am Hybrid Meeting

Item 1: Call to Order

Item 2:

Welcome and Roll Call

Item 3:

Registered Public Comments on Agenda Items 5-19 (limit of 3 minutes per person)

Item 4: Texas Water Development Board Update

Item 5: Approval of minutes a. August 12, 2021

Meeting Minutes Region 6 San Jacinto Regional Flood Planning Group August 12, 2021 9:00 AM

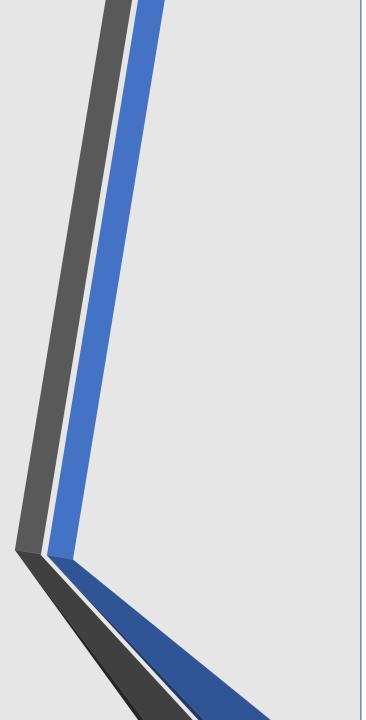
CISCO WebEx Virtual Meeting

Roll Call:

Voting Member	Interest Category	Present (x) /Absent () /
	(Executive Committee role)	Alternate Present (*)
Vacant	Flood Districts	
Alia Vinson	Water Districts (Interim Chair)	X
Alisa Max	Counties (Secretary)	X
Gene Fisseler	Public (At-Large member)	X
Matthew Barrett	River Authorities (At-Large member)	X
Elisa Macia Donovan	Agricultural Interests	X
Jenna Armstrong	Small Business	X
Paul E. Lock	Electric Generating Utilities	X
Rachel Powers	Environmental Interests	X
Stephen Costello	Municipalities	X
Timothy E. Buscha	Industries	X
Todd Burrer	Water Utilities	X
Brian Maxwell	Coastal Communities	X
Christina Quintero	Public	X
Neil Gaynor	Upper Watershed	X* Stephanie Zertuche

Non-voting Member	Agency	Present(x)/Absent()/
		Alternate Present (*)
Bill Adams	Texas Parks and Wildlife Department	X* Hope Zubek
Natalie Johnson	Texas Division of Emergency Management	
Kristin Lambrecht	Texas Department of Agriculture	
Joel Clark	Texas State Soil and Water Conservation Board	
Colleen Jones	Texas General Land Office	X* Brooke Bacuetes
Megan Ingram	Texas Water Development Board	X* Morgan White
Kelly Mills	Texas Commission on Environmental Quality	X* Melinda Johnston
Jeff Taebel	Houston-Galveston Area Council	Х
Ellie Alkhoury	Texas Department of Transportation	X* Alfred Garcia
Tom Heidt	Port Houston	X
Michael Turco	Harris-Galveston Subsidence District	Х
Brandon Wade	Region H Regional Water Planning Group	X

Liaisons from RFPG	Regional Flood Planning Group	Present(x)/Absent()/
		Alternate Present (*)
Todd Burrer	Trinity Region RFPG	X
Timothy Buscha	Neches Region RFPG	X
Michael Turco	Lower Brazos RFPG	X



<u>Liaisons from Other Entities</u>		Present(x)/Absent()/ Alternate Present (*)
Mark Vogler	Lower Brazos RFPG	
Scott Harris	Trinity Region RFPG	
Brandon Wade	Region H Regional Water Planning Group	X

Quorum:

Quorum: Yes

Number of voting members or alternates that were present: ?? Number required for quorum per current voting membership of 15:8

Andy Palermo Lisa Mairs B. Gallagher Liv Haselbach Colleen Jones Mac Martin Connor Stokes Maggie Puckett Marcus Stuckett Cory Stull David Mass Michael Keck Fatima Berrios Morgan White Frederick Sunderman Rebecca Andrews Glenna Sloan Reem Zoun Hayes McKibben Reid Mrsny Robert Kosar Jake Hollingsworth James Bronikowski Ryke Moore Jill Boullion Sally Bakko Kena Ware Trae Camble Krista Melnar Usman Mahmood Kristin Lambrecht Unknown: 4

Laura Atlas

All meeting materials were available for the public at:

http://www.twdb.texas.gov/flood/planning/regions/schedule.asp

^{**}Meeting attendee names were gathered from those who entered information on the GoToWebinar meeting.

AGENDA ITEM NO. 1: Call to Order

Ms. Vinson called the meeting to order at 9:01 a.m.

AGENDA ITEM NO. 2: Welcome and Roll Call

Ms. Max took attendance and reported that a quorum was present.

AGENDA ITEM NO. 3: Registered Public Comments on Agenda Items (limit of 3 minutes per person)

Ms. Berrios stated that Mac Martin, with the Texas A&M Forest Service, had sent in a written comment that expressed the relationship of proper forest management and stormwater runoff as it pertains to water quality.

AGENDA ITEM NO. 4: Texas Water Development Board Update

Ryke Moore, on behalf of Megan Ingram, stated that the TWDB had processed all additional funding allocation survey responses from all the Regional Flood Planning Groups (RFPGs) and would be assisting all the RFPGs to amend their contracts for the grant fund increase in the coming months.

AGENDA ITEM NO. 5: Update from Project Sponsor on current solicitation efforts for the Flood Districts voting-member position

Ms. Berrios stated that a total of four applications had been received for the Flood Districts voting member position. She stated that the notices were circulated to the county clerks, all RFPG members, original applicants, and Citizens Environmental Coalition. Ms. Berrios stated the Executive Committee would be holding a meeting to shortlist applicants on August 27, 2021, and to conduct interviews on August 31, 2021.

AGENDA ITEM NO. 6: Approval of minutes

a) July 8, 2021

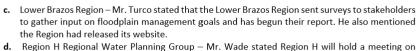
After minor corrections were received, Mr. Fisseler moved to approve the meeting minutes as revised. Ms. Donovan seconded the motion, which carried unanimously.

AGENDA ITEM NO. 7: Announcement of new Alternate Members and new Non-Voting Members Ms. Max provided the following member alternate announcements:

- Neil Gaynor, representative of the Upper Watershed category, assigned Stephanie Zertuche as his alternate.
- Rachel Powers, representative of the Environmental Interests, assigned Jill Boullion as her alternate.
- The Texas Parks and Wildlife Department reassigned its non-voting member representative to Hope Zubek and kept Robert Adams as its alternate.
- The Texas Commission of Environmental Quality reassigned its non-voting member representative to Melinda Johnston and kept Kim Nygren as its alternate.

AGENDA ITEM NO. 8: Liaison Reports pertaining to other region(s) progress and status:

- **a.** Trinity Region Mr. Burrer stated that the Trinity Region was progressing similar to Region 6 and that there was no real update.
- b. Neches Region Mr. Buscha stated that the Neches Region was progressing similar to Region 6 and their consultant, Freese and Nichols Inc. (FNI) was in parallel with FNI's activities for Region 6. He stated the Region had begun to meet in-person and are meeting about every other month. Ms. Liz Haselbach added and confirmed a meeting was scheduled today.



Region H Regional Water Planning Group — Mr. Wade stated Region H will hold a meeting on November 3, 2021, and start the pre-planning for the next planning cycle.

AGENDA ITEM NO. 9: Presentation and updates from the SJRFPG Technical Consultant

Mr. Stull provided a brief high-level overview of what he would cover during his presentation, highlighting all the progress the Technical Committee had made. He stated FNI was primarily focused on Tasks 3A and 3B, which determine the minimum standards defined as Floodplain Management Goals. Mr. Stull stated FNI had begun data collection efforts to help determine the RFPG's Floodplain Management Goals.

Mr. Stull explained that the Technical Committee will be meeting to help develop Floodplain Management Goals for presentation to the RFPG. Mr. Stull added an email will be sent to all constituents for their feedback on the proposed Floodplain Management Goals. Mr. Stull then mentioned a live poll was going to be presented during the next planning meeting that would facilitate discussion and identify the RFPG's goals. Ms. Stull stated that goals should be realistic, attainable, and specific to the San Jacinto Region.

Mr. Stull then discussed Tasks 4A and 4B, which identify Flood Management Evaluations (FMEs) and Flood Mitigation Projects (FMPs). Mr. Stull stated that projects can be structural or non-structural. Mr. Stull stated the Technical Committee would meet to discuss the process of identifying FMEs, and FMPs to better manage the floodplain.

Mr. Stull then discussed the website and stated it is expected to go live the following week. Mr. Stull stated it could be accessed at: SanJacintoFloodPlanning.org. All meeting notices, materials and meeting minutes will be available on the website. Mr. Stull stated that the website will be accessible to the visually impaired persons and to Spanish speakers. Mr. Stull mentioned the survey and interactive webmap are located on the landing page, which also will be presented in Spanish and English. Mr. Stull added that another Public Input meeting was scheduled for August 31, 2021, and would be given in a similar fashion as the previous Pre-Planning Meeting, but emphasized that the website would be the main method to collect public input. Mr. Stull then provided a tentative timeline until January when the Technical Memorandum is due. He then opened the flood for questions.

Mr. Buscha stated the base/generic presentation for the SJRFPG should be updated to reflect the progress made by FNI. Mr. Stull agreed. Mr. Fisseler then asked if the website would be live next week, and asked to be notified. When the website is activated Mr. Fisseler asked if there were opportunities for additional languages, to which Mr. Stull replied that, as of now, only Spanish and English were available. Mr. Fisseler then asked for verification that constituent and stakeholder input would not be due until September. Mr. Stull agreed and stated that example goals would be sent out in an email to all SJRFPG members, and stated he hoped the members would relay the information to their interest groups.

Ms. Quintero asked if the survey and portal would be in Spanish, and if there was a limit on the number of pins/areas that members of the public could add on the interactive webmap. She clarified that she would be inputting information on behalf of members in her community that were older and less technically savvy. Mr. Stull stated there is no limit on the number of entries a single user could make, and confirmed the survey portal are available in Spanish.

AGENDA ITEM NO. 10: Update, recommendations, and possible action from the Technical Committee

Ms. Donovan stated that the Technical Committee met and she had no further updates beyond the presentation already provided by Mr. Stull. She added that the Technical Committee supported the initiative to send an email to all stakeholders and constituents to gather their feedback as they moved forward in developing the Floodplain Management Goals.

AGENDA ITEM NO. 11: Update, recommendations, and possible action from the Public Engagement Committee

Ms. Vinson stated the Public Engagement Committee met and had selected Todd Burrer as the Chair, Paul Lock as Vice Chair and Rachel Powers as Secretary of the committee. She then opened the floor to the Chair of the Public Engagement Committee, Todd Burrer. Mr. Burrer stated that they had their first meeting and had scheduled the Public Input meeting for August 31, 2021.

AGENDA ITEM NO. 12: Update and discussion pertaining to future public input meeting as required by Texas Water Code §16.062(d) and 31 Texas Administrative Code §361.12(a)(4)

Ms. Vinson stated that the Public Input meeting was scheduled to be August 31, 2021 in the evening.

AGENDA ITEM NO. 13: Presentation of 2021 Planning Group key dates and deadlines:

- e. Upcoming planning schedule milestones
- f. Next SJRFPG planning meeting to be held on September 9, 2021

Ms. Vinson stated that Mr. Stull had provided a timeline for the remainder of the year.

AGENDA ITEM NO. 14: Update and discussion pertaining to the logistics of in-person RFPG meetings, and possible action regarding in-person meeting location

Ms. Vinson stated that beginning with the September meeting, Region 6 would be utilizing the provision in the Open Meetings Act that allows videoconference meetings for entities in three or more counties. She noted the provision requires only the presiding officer to be present at the in-person location, but enables all other members to participate virtually. Ms. Vinson then encouraged all members of the public to join remotely if possible, due to the COVID-19 pandemic, but noted that the in-person meeting location will be open to the members of the public who wish to attend in-person. Ms. Vinson then asked Ms. Berrios to provide an update for in-person locations.

Ms. Berrios stated that she had reached out to the Houston Advanced Research Center; however, she had not heard back. Ms. Berrios stated that Trini Mendenhall and Timberlane UD community center were available. Ms. Powers suggested the use of Greentown Labs and Mr. Burrer also volunteered his office's conference room. Ms. Berrios stated she would follow up with both Mr. Burrer and Ms. Powers to determine the next meeting location.

AGENDA ITEM NO. 15: Reminder regarding Planning Group member training on Public Information Act and Open Meetings Act

Ms. Vinson provided a reminder to all RFPG members that both these trainings were mandatory.

AGENDA ITEM NO. 16: Nominations, discussion, and possible action to elect San Jacinto RFPG Chair

Ms. Vinson provided a general overview of the process the SJRFPG would take for nominations of the new Chair and stated officer elections were ready held annually, so elections will occur again in January 2022. She then opened the floor for nominations to fill the SJRFPG Chair vacancy.

Mr. Fisseler nominated Mr. Buscha. Mr. Costello seconded the nomination and reminded everyone that Mr. Buscha was also a member of the Technical Committee. Ms. Vinson asked Mr. Buscha whether he would be interested in serving in the position of Chair and gave him the floor to state his qualifications.

Mr. Buscha stated he was the President of IDS Engineering Group, was the third-generation of ownership, and had vast experience as a Drainage Engineer. He stated his first 11 years he worked for the USDA-NRCS (formerly SCS)in soil conservation. Mr. Buscha then said he was a Field Engineer working on various drainage project and dam designs, and has also worked with the Texas Division of Emergency Management in supporting communities in flood damage recovery with a complimentary funding program through USDA, the Emergency Watershed Protection Program. Mr. Buscha mentioned he helped manage drainage projects throughout most of Texas. Lastly, Ms. Buscha stated for the past 13 years he was lived and worked in the San Jacinto River watershed area, and is active in the local engineering community.

Mr. Fisseler moved to appoint Mr. Buscha the new Chair. Mr. Costello seconded the motion, which carried unanimously. Ms. Vinson thanked Mr. Buscha and welcomed him to take over running the meeting as Chair.

Mr. Buscha stated his gratitude for the opportunity. Mr. Buscha stated he was looking forward to working with the Project Sponsor and Consultant.

AGENDA ITEM NO. 17: Nominations, discussion, and possible action relating to the composition of:

- g. Executive Committee Ms. Vinson stated that Mr. Buscha will now serve as the Chair of the Executive Committee, pursuant to the Bylaws.
- h. Technical Committee Mr. Buscha stated he was serving as Vice Chair to the Technical Committee and asked to be replaced. Ms. Zertuche stated Neil Gaynor would be happy to join. Mr. Costello moved to appoint Neil Gaynor as a member of the Technical Committee. Mr. Fisseler seconded the motion, which carried unanimously.
- i. Public Engagement Committee After brief discussion, no changes or additions were made to the Public Engagement Committee and the item was deferred to the next planning meeting.
- j. Liaisons Mr. Buscha asked to be replaced as the Neches Region Liaison. Mr. Costello volunteered himself to replace Mr. Buscha as the Neches Region Liaison. Mr. Fisseler moved to appoint Mr. Costello as the new Neches Region Liaison. Ms. Powers seconded the motion, which carried unanimously.

AGENDA ITEM NO. 18: Presentation from the General Land Office (GLO): Texas GLO Combined River Basins Flood Study – Project Status Update – Survey Results & Data Collection

Krista Melnar and Laura Atlas gave the presentation on behalf of the GLO. They provided an Overview of the Combined River Basin Study.

AGENDA ITEM NO. 19: Consider agenda items for next meeting

- Possible action to appoint a fifth member to Public Engagement Committee
- Appointment of the Flood Districts voting member position
- U.S. Army Corps of Engineers Presentation
- Regular standing items
 - Update from Technical Consultant presentation of Goals



- Update from the Technical Committee
- Update Public Engagement Committee

AGENDA ITEM NO. 20: Public comments (limit 3 minutes per person)

Ms. Berrios stated that a question had been received from Susan, last name unknown, who asked if the Houston Metropolitan Watershed Assessment completed by the Army Corps of Engineers had been considered. Ms. Berrios stated the Technical Consultant had been given a copy of the report and was aware of it.

AGENDA ITEM NO. 21: Adjournment

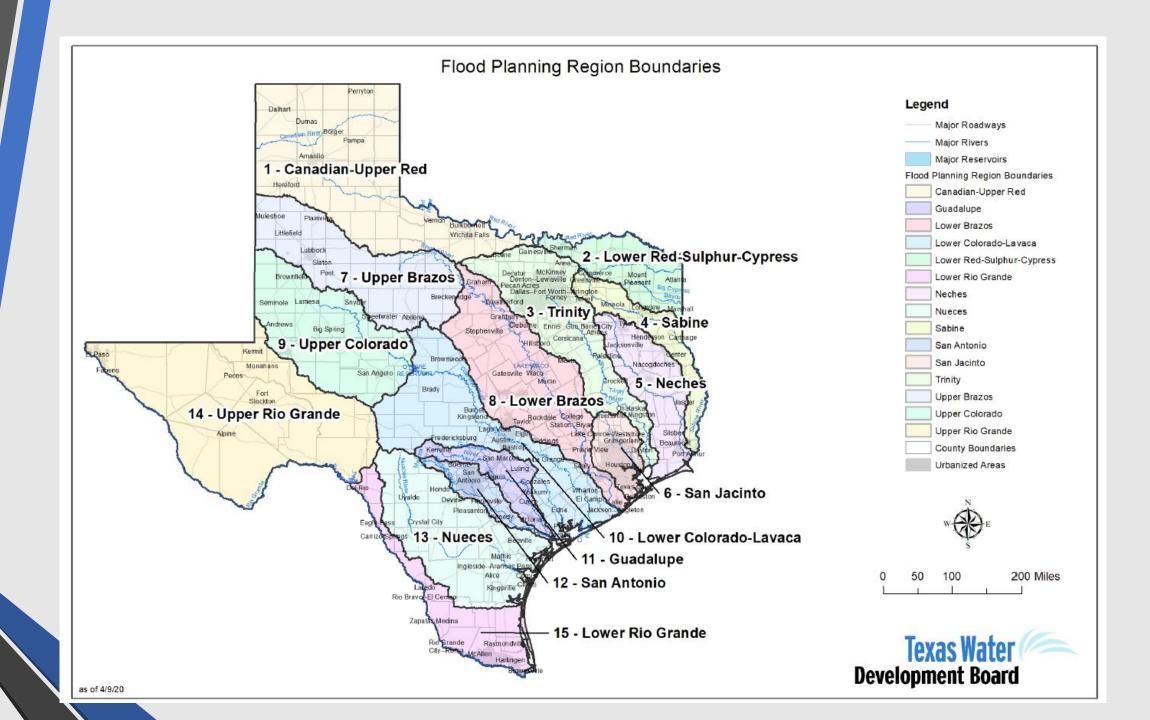
Mr. Buscha adjourned the meeting at 11:15 a.m.

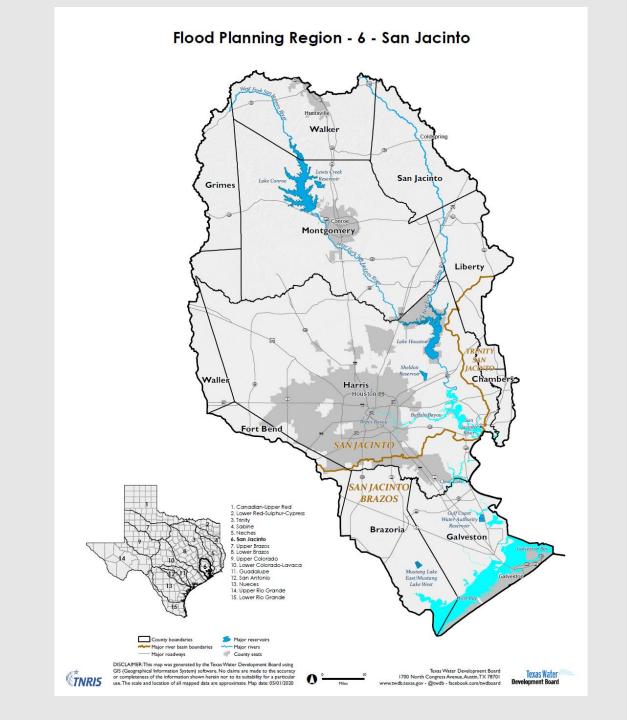
Alisa Max, Secretary

Timothy Buscha, Chair

Item 6:

Announcement of new Alternate Members and new Non-Voting Members





Item 7:

Recommendation from the Executive Committee to the Regional Flood Planning Group Members for the representation of the Flood Districts voting membership position, and possible appointment. The SJRFPG may go into an executive session pursuant to Chapter 551 of the Texas Government Code for the consideration of personnel matters, specifically, persons being considered for appointment as new voting members of SJRFPG.

Item 8:

Nomination, discussion, and possible action pertaining to the composition of the Public **Engagement Committee and Technical Committee**

Item 9:

Liaison Reports pertaining to other region(s) progress and status:

- a. Trinity Region
- b. Neches Region
- c. Lower Brazos Region
- d. Region H Water

Item 10:

Presentation and updates from the SJRFPG Technical Consultant a. Floodplain Management Goals b. SJRFPG member Mentimeter input



Technical Consultant Update



Update Overview



- Outreach & Data Collection
- Task 4B: Identifying potentially feasible FMEs, FMSs, and FMPs
- Task 3B: Overview and discussion of 3B goals
- Task 3B: 3B goal workshop (interactive mentimeter)

Outreach & Data Collection





Individuals on SJRFPG Distribution List 11

General Public Survey Responses



Unique Users
Accessed the Data
Collection site

9

Webmap submissions

*122 unique users accessed the map in the 24-hours after the public meeting

Task 4B: Research Update





- Objective: Collect publicly available data on identified flood mitigation projects
 - Searched stakeholder's websites for projects such as Capital Improvement Plans (CIPs), Hazard Mitigation Plans (HMPs), etc.
- Inventory all unfunded CDGB-MIT and TWDB FIF applications
- Next Step: Coordinate directly with Stakeholders and potential project sponsors

17 – Unfunded Federal Infrastructure Fund (FIF) Applications

45 – Unfunded Community
Development Block Grant (CDBG-MIT) Applications

Task 3B: Goal Timeline





Discuss, workshop, and approve S.M.A.R.T. goals

Aug. Technical Committee Meeting

Sep. RFPG Meeting

Sep. Technical Committee Meeting

Oct. RFPG Meeting

RFPG to discuss, workshop, and prioritize goal and sub-goal categories

RFPG to discuss, workshop, and **adopt** or conditionally adopt S.M.A.R.T. goals

Task 3B: Significance of Goals



- Guides the Overall Approach of and Recommendations in the RFP
- 2. By establishing S.M.A.R.T. goals, allows for SJRFPG to track progress towards overall goal of RFP:

"To protect against the loss of life and property"

Task 3B: SMART Goals



TWDB Technical Guidance Exhibit C:

"RFPGs must identify specific and achievable flood mitigation and floodplain management goals that, when implemented, will demonstrate progress towards this overarching goal"



Specific

Measurable

Attainable

Relevant

Time-bound

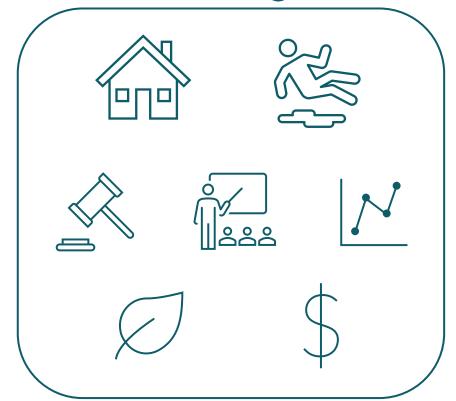
Task 3B: TWDB Table 10



Here's what was provided as a starting point

	Short Term (10 year)	Long Term (30 year)
1.	Reduce 5-year moving average of flood-related fatalities in the flood planning region by 50% by 2033.	Eliminate the occurrence of all flood-related fatalities in the flood planning region by 2053.
2.	Reduce 5-year moving average of flood-related injuries in the flood planning region by 75% by 2033.	Eliminate the occurrence of flood-related injuries in the flood planning region by 2053.
3.	Reduce exposure of existing structures in the current 1% annual chance floodplain by elevating, acquiring, relocating, or otherwise providing flood protection to 1,000 structures by 2033.	Reduce exposure of existing structures in the current 1% annual chance floodplain by elevating, acquiring, relocating, or otherwise providing flood protection to 10,000 structures by 2053.
4.	Remove 1% annual chance floodplain from the 5% of structures in the floodplain by 2033.	Remove 1% annual chance floodplain from 20% of structures in the floodplain by 2053.
5.	Remove 10% annual chance floodplain from 15% of low water crossings in the floodplain by 2033.	Remove 10% annual chance floodplain from 50% of low water crossings in the floodplain by 2053.
6.	By 2033, increase the coverage of flood hazard data across the region by completing studies in 50% of the areas identified as having current	By 2053, have complete coverage of flood hazard data across the region by completing studies in 100% of the areas identified as having current

Goal Categories





Task 3B: Goal Categories



Protect Life Safety

Protect Property

Improve Data

Improve Policy & Regulations

Improve Flood
Mitigation
Projects &
Strategies

Expand Funding

Expand
Education &
Outreach

Task 3B: Process



Technical Committee Discussion Sub Goal Categories

> Feedback from RFPG and Tech. Com.



S.M.A.R.T. GOALS

Protect Life Safety

Protect Property

Improve Data

Improve Policy & Regulations

Improve Flood
Mitigation
Projects &
Strategies

Expand Funding

Expand Education & Outreach

Task 3B: MENIMETER – Interactive Session



*Transfer to Mentimeter

Overall Plan Goal: "to protect against the loss of life and property"



SAN JACINTO REGIONAL FLOOD PLANNING GROUP

REGION6



What do you want to see accomplished in the plan?

What do you consider to be an impediment to effective floodplain management in the Region?

Lack of funding Lack of consistent 2nd policies/regulations 3rd Lack of policy enforcement 4th Lack of staff/resources Inadequate floodplain 5th mapping Outdated design 6th standards Limited access to flood 7th insurance Other (to discuss)



What do you consider to be a major contributor to flood risk in the Region?

What do you consider to be an impediment to managing flood risk to life and property in the Region?

Lack of emergency response coordination Lack of adequate public 2nd communication methods Lack of sustainable/resilient 3rd infrastructure Lack of operation and 4th maintenance efforts Lack of Interjurisdictional 5th cooperation Other (to discuss)



Which RFPG goal category should be the most important for the San Jacinto Region? (Assign weight out of 100 points)

```
Protect Life Safety
0%
    Protect Property
0%
    Improve Data
0%
    Improve Policy & Regulations
0%
    Improve Flood Mitigation Projects & Strategies
0%
     Expand Funding
0%
    Expand Education & Outreach
0%
```

Rank the most important sub goals within the goal category: PROTECT LIFE SAFETY

1st Reduce number of deaths

2nd

Improve emergency access and response (including mobility, access to shelter, and warning systems)

Rank the most important sub goals within the goal category: PROTECT PROPERTY

1st

Reduce flood risk from structures (residential, commercial, public)

2nd

Reduce impacts to Critical Facilities

3rd

Reducing impacts to economic and agricultural production



Rank the most important sub goals within the goal category: IMPROVE DATA

1st Identify and assess existing flood infrastructure within the Region

2nd Improve understanding of flood risk; Increase extent and improve detail of H&H modeling and mapping

3rd Develop critical infrastructure database

Rank the most important sub goals within the goal category: IMPROVE POLICY & REGULATIONS

1st Increase NFIP/CRS participation Enhance local code, drainage criteria manuals and development standards Improve enforcement of floodplain management regulations Improve interjurisdictional coordination

Rank the most important sub goals within the goal category: IMPROVE FLOOD MITIGATION PROJECTS & STRATEGIES

1st Increase sustainability and resiliency
 2nd Incorporate use of green infrastructure /nature-based solutions
 3rd Provide benefits to socially vulnerable and low/moderate Income areas
 4th Provide multi-benefits to community, environmental and cultural resources
 5th Improve asset management, operation and maintenance efforts

Rank the most important sub goals within the goal category: EXPAND FUNDING

1st

Increase communities with dedicated stormwater funding mechanisms

2nd

Expand eligibility for and use of funding programs (Local, State, Federal, Public/Private Partnerships)

Rank the most important sub goals within the goal category: EXPAND EDUCATION & OUTREACH

st Improve flood awareness and disaster preparedness

Increase number of flood insurance policyholders

Return to powerpoint



Item 11:

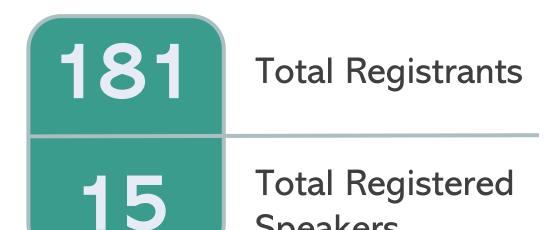
Update, recommendations, and possible action from the Technical Committee

Item 12:

Evaluation and discussion of the August 31, 2021 Public Input meeting as required by Texas Water Code §16.062(d) and 31 Texas Administrative Code §361.12(a)(4)

Existing Flood Risk Public Meeting Stats





75 Total Attendees

Speakers

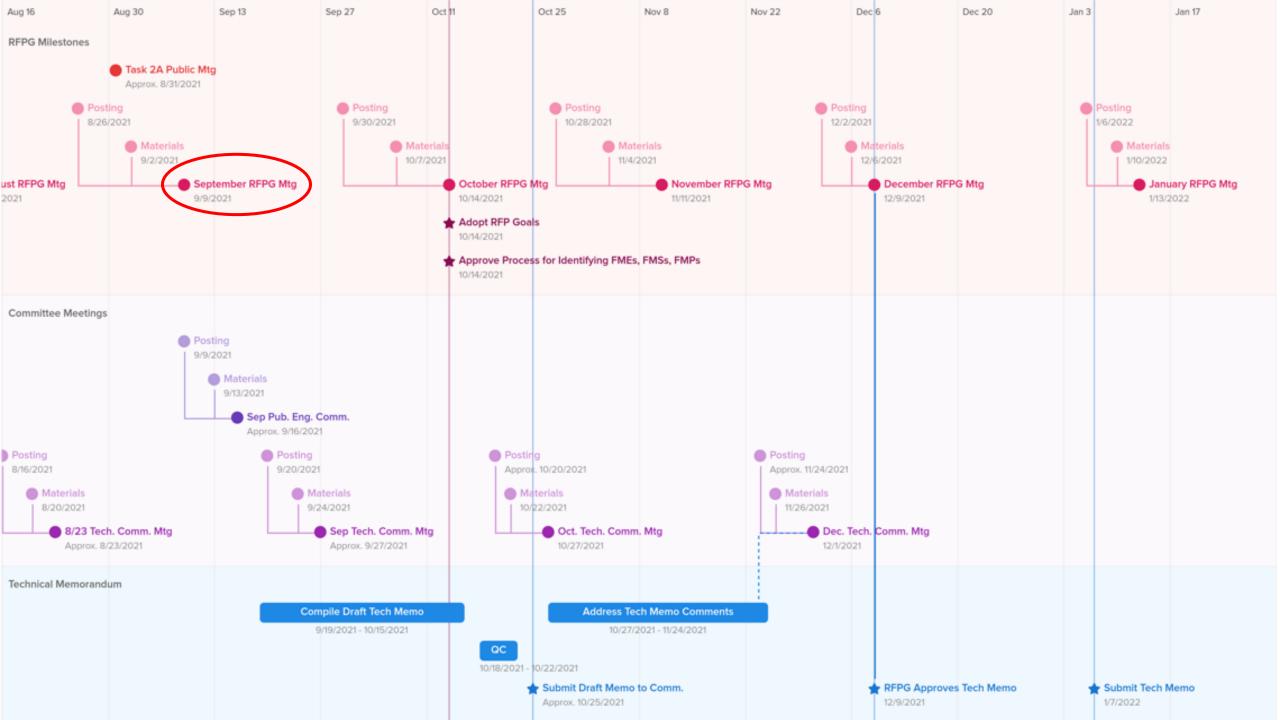
Total Speakers

1,387

Total visits to website

Item 13:

- Presentation of 2021 Planning Group key dates and deadlines:
- a. Upcoming planning schedule milestones
- b. Next SJRFPG planning meeting to be held on October 14, 2021



Item 14:

Update and discussion pertaining to the logistics of in-person RFPG meetings, and possible action regarding in-person meeting location

Item 15:

Reminder regarding Planning
Group member training on Public
Information Act and Open
Meetings Act

Item 16:

Presentation from the U.S. Army Corps of Engineers (USACOE) – Galveston District: Metropolitan Houston Regional Watershed Assessment

METROPOLITAN HOUSTON REGIONAL WATERSHED ASSESSMENT SEC 729

USACE, Galveston District 9 September 2021 Lisa Mairs, PM Carrie McCabe, RPEC



"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





STUDY AUTHORITY



Authorization: Section 729 of WRDA 1986, as amended, allows USACE to study the water resources needs of river basins and regions of the United States.

Type of Project: Flood RiskManagement (FRM)

Non Federal Sponsor: Harris County Flood Control District

MILESTONE SCHEDULE

Shared Vision Milestone January 2020

Recommendation Milestone April 2021

Draft WatershedPlan May 2021

Final Watershed Plan August 2021





CURRENT FRM EFFORTS



Texas Water Development Board

GLO

\$75 Million total of CDBG Funds

TWDB

Regional Flood Planning Groups
State Flood Plan 2024

City of Houston

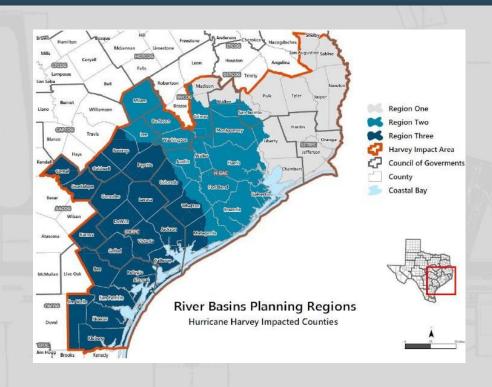
Resilient Houston Framework

HGAC

Regional Flood Management Committee

HCFCD

Data and Technical investments
2018 Bond Program
Feasibility- partnering and leading



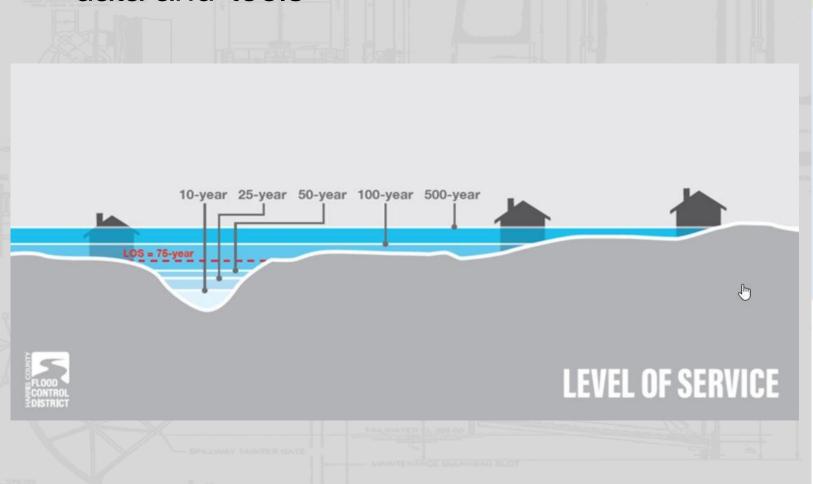






TECHNICAL REFINEMENTS

HCFCD is currently updating analysis data and tools



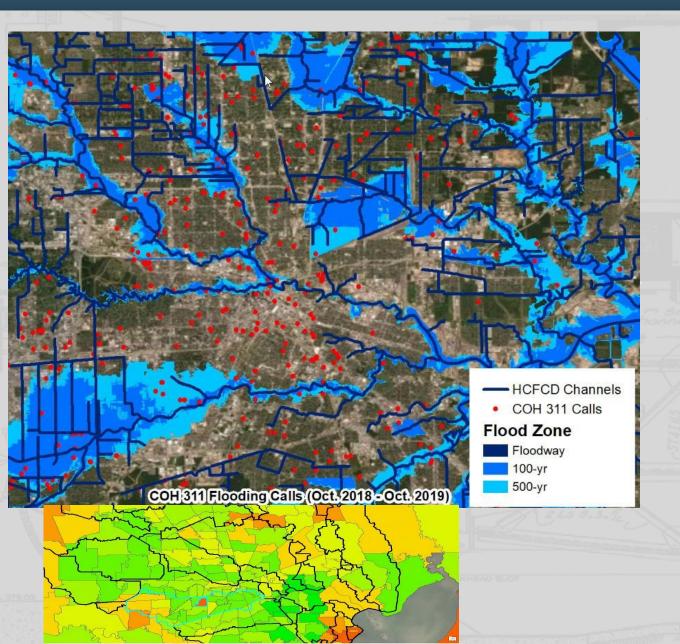
SPRING/ SUMMER 2019 2021 2022 PRELIMINARY DELIVER MAPS (FIRMS) DEVELOP **MODELS &** RELEASED **MODELS & MAPPING*** BY FEMA **MAPPING*** TO FEMA Maps available to public FEB APR Phase 1 Phase 1 OCT OCT Phase 2 Phase 2

HCFCD will engage community officials, decision makers and technical staff to relay project findings. These touchpoints will allow HCFCD to discuss study findings throughout their creation and preparation.

ilable ublic 6-9 MONTHS

HCFCD & FEMA to hold Open Houses

CHARACTERIZING RISK IN THE REGION



3 flood risk sources in the region

- Coastal
- Fluvial
- Pluvial

Data and Mapping captures coastal and fluvial

Pluvial is evident but not yet diagnosed

MAAPnext will support pluvial analysis





Problems

Constraints

- Infrastructure upgrade needs exceed available agency resources
- Frequent flooding impacts communities with limited resources to rebuild, restart, repurpose and drives loss of green space in the pursuit of solutions
- Habitat is lost as a result of new development
- The adjacent or intertwined authorities of several agencies, in combination with the economic incentive to minimize current expenditures for current developments create a patchwork of regulations and therefore systemquality

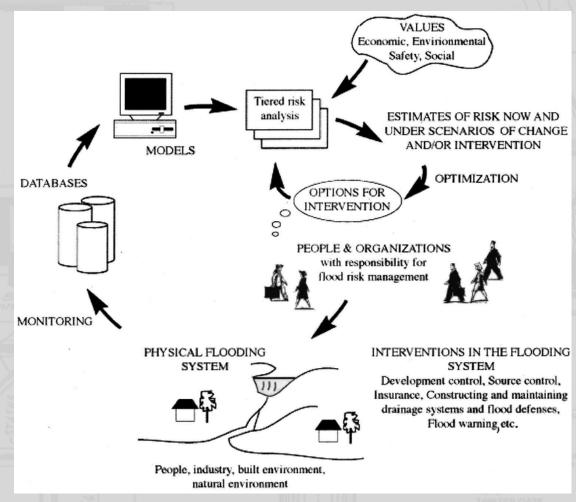
- Dense development creates physical limitations to structural solutions in some areas
- Changes in FRM implementation and actions must align with existing authorities or be consistent with the agency mission to support augmenting the authorities
- Stakeholders should express concurrence with recommendations
- Funding allocations are not unlimited; FRM investments create an opportunity cost for other investments





INVENTORY AND FORECAST

- Current FRM standards evolved from prior risk assessments
- Flood risk will continue to increase
- Mapping updates will change Harris County .2% flood zone to 1% flood zone
- Structural alternatives have partially addressed flood risk in the region and no one measure or agency will solve residual flooding
- Future FRM must leverage time and cooperation, address constraints and broaden impact assessment
- Current agency efforts create the best opportunity to align priorities and consider resilience







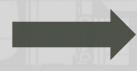
BROAD FINDINGS

Multiple agencies are impacted and engaged



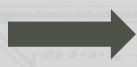
Technical and analytical investment should be specific and coordinated

Public underestimates flood risk



Risk communication must emphasize responsibility and tradeoffs

Traditional FRM approaches won't catch up



Scale of flood risk will require paradigm change and coordination

 Increasing precipitation, population & development

 Crossjurisdictional, higher level layering of actions is necessary

Constraints in built communities



MHRWA RECOMMENDATION APPROACH

Leverage ongoing efforts to organize FRM priorities and encourage long term focus:

- Alignment of Agency (TWDB, GLO, CoH)
 efforts provide unique opportunity to
 broaden FRM solution lens, recommend
 larger coordinated efforts
- Use HUB to create engagement, drive risk communication and data collection, and use the Watershed Authority to reflect Stakeholder interests

Key Themes:

- Regional Coordination (RCoord)
- Risk Communication (RComm)
- Mitigation (Mit)
- FRM Investment and Equity (Inv/Eq)
- Drainage and FRM strategies (Dr)

Scale of Implementation:

- ☐ Household

- \triangle \triangle \triangle Region





FUTURE ACTIONS

Regional Coordinating Body Creation

- Inviting stakeholders to scope what it should do, how to fund it, where to house it
- Leverage the TWDB effort to assess needs and keep communication ongoing

Risk Communication

 Suggesting future analysis of risk and priority areas and topics when the remapping is completed by HCFCD

Updating Watershed Assessment

Revisiting the priorities and data on a regular interval





Item 17: Consider agenda items for next meeting

Item 18:

Public comments – limit 3 minutes per person

Item 19: Adjourn