Region 6 - San Jacinto Regional Flood Planning Group
April 14, 2022
9:00 AM
Hybrid Meeting
Item 1:
Call to Order
Item 2: Welcome and Roll Call
Item 3: Registered Public Comments on Agenda Items (3 minutes limit per person)
Item 4: Texas Water Development Board Update
Item 5: Approval of minutes - March 03, 2022
# Meeting Minutes
## Region 6 San Jacinto Regional Flood Planning Group
### March 03, 2022 at 9:00 AM
**Location:** Harris County Flood Control District; 9900 Northwest Freeway, Houston, TX 77092 – Rm. 100

**Hybrid Meeting | Virtual Registration:** https://bit.ly/281J2cm

## Roll Call

<table>
<thead>
<tr>
<th>Voting Member</th>
<th>Interest Category</th>
<th>Present (X) / Absent (X) / Alternate Present (⁺)</th>
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</thead>
<tbody>
<tr>
<td>Timothy L. Busche</td>
<td>Industries (Chair)</td>
<td>X (In-Person)</td>
</tr>
<tr>
<td>Alia Vinson</td>
<td>Water Districts (Vice Chair)</td>
<td>X</td>
</tr>
<tr>
<td>Alisa Max</td>
<td>Counties (Secretary)</td>
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<tr>
<td>Gene Prezler</td>
<td>Public (At-Large member)</td>
<td>X (In-Person)</td>
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<tr>
<td>Matthew Barrett</td>
<td>River Authorities (A-Large member)</td>
<td>X *Brian Gallagher</td>
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<tr>
<td>Elisa Macia Donovan</td>
<td>Agricultural Interests</td>
<td>X</td>
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<tr>
<td>TBA</td>
<td>Small Business</td>
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<td>Paul L. Locke</td>
<td>Electric Generating Utilities</td>
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<td>Rachel Powers</td>
<td>Environmental Interests</td>
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<td>Stephen Costello</td>
<td>Municipalities</td>
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<tr>
<td>Marcus Shuckett</td>
<td>Flood Districts</td>
<td><strong>Gene Green</strong></td>
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<tr>
<td>Todd Burrier</td>
<td>Water Utilities</td>
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<td>Brian Massie</td>
<td>Coastal Communities</td>
<td>X *Bob Kosar</td>
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<td>Christine Quintero</td>
<td>Public</td>
<td>X</td>
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<tr>
<td>Neil Guaynor</td>
<td>Upper Watershed</td>
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<tr>
<th>Non-voting Member</th>
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<tr>
<td>Hope Zubek</td>
<td>Texas Parks and Wildlife Department</td>
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<tr>
<td>Michelle Ellis</td>
<td>Texas Division of Emergency Management</td>
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<tr>
<td>Kristin Lambrecht</td>
<td>Texas Department of Agriculture</td>
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<tr>
<td>Joel Clark</td>
<td>Texas State Soil and Water Conservation Board</td>
<td>*Brian Koch</td>
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<tr>
<td>Collene Jones</td>
<td>Texas General Land Office</td>
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<tr>
<td>Megan Ingram</td>
<td>Texas Water Development Board</td>
<td>*Rylee Moore</td>
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<tr>
<td>Melinda Johnston</td>
<td>Texas Commission on Environmental Quality</td>
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<tr>
<td>Jeff Taebel</td>
<td>Houston-Galveston Area Council</td>
<td>X *Justin Bower</td>
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<tr>
<td>Ellie Alkhousey</td>
<td>Texas Department of Transportation</td>
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<tr>
<td>Tom Heidt</td>
<td>Port Houston</td>
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<tr>
<td>Michael Turco</td>
<td>Harris-Galveston Subsidence District</td>
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<td>Brandon Wade</td>
<td>Region IV Regional Water Planning Group</td>
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<td>Sally Isakkio</td>
<td>Gulf Coast Protection District</td>
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<tr>
<td>Eric Stevens</td>
<td>U.S. Army Corps of Engineers</td>
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## Liaisons from RFPG

<table>
<thead>
<tr>
<th>Regional Flood Planning Group</th>
<th>Present (X) / Absent (X) / Alternate Present (⁺)</th>
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<tbody>
<tr>
<td>Todd Burrier</td>
<td>Trinity Region RFPG</td>
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<tr>
<td>Stephen Costello</td>
<td>Neches Region RFPG</td>
</tr>
<tr>
<td>Michael Turco</td>
<td>Upper Brazos RFPG</td>
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*Note: Names marked with an 'x' are marked as present. Names marked with an 'X' are marked as absent.*
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<tr>
<th>Liaisons from Other Entities</th>
<th>Entity</th>
<th>Present/Absent (Alternate Present *)</th>
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<tr>
<td>Mark Vogler</td>
<td>Lower Brazos RPFG</td>
<td>Jeff Janczak</td>
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<tr>
<td>Scott Harris</td>
<td>Trinity Region RPFG</td>
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<tr>
<td>Liv Marelbach</td>
<td>Naches Region RPFG</td>
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<tr>
<td>Brandon Wade</td>
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<th>Technical Consultant Team Members</th>
<th>Entity</th>
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<tr>
<td>Cory Stull</td>
<td>Freeze and Nichols Inc.</td>
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<td>Maggie Hackett</td>
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<td>Hayes McElven</td>
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<tr>
<td>Andrew Moore</td>
<td>Haif Associates</td>
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<tr>
<td>Jacob Torres</td>
<td>Torres &amp; Associates</td>
<td>X</td>
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<td>Evan Adrian</td>
<td>Torres &amp; Associates</td>
<td>X</td>
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<tr>
<td>Rachel Herr</td>
<td>Haif</td>
<td>X</td>
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**Quorum:**
- Quorum: Yes
- Number of voting members or alternates that were present: 13
- Number required for quorum per current voting membership of 15: 8

**Attendees:**
- In Person: Claudia Garcia, David Brown, Fatima Borlos
- Brian Fambrough
- Caitlin Heller
- Christine Lindsay
- Connie Pothier
- Craig Kilkomey (WFDD / LJA)
- Dena Mahan
- James Bronikowski (TWDB)
- James Corn
- Jh Christi
- Lisa Mais (USACE)
- Mehdi Najmuddin (Holloway)
- Marilce Siger
- Matt Lopez (PCO)
- Matt Nelson (TWDB)
- Mohamed Basha
- Peggy Zahnler
- Rebecca Andrews
- Reem Zoum (TWDB)
- Srinivas Chintalapati
- Stephen Gage (HCTRA)
- Susan Chadwick
- Unknown: 3
AGENDA ITEM NO. 1: Call to Order
Mr. Buscha called the meeting to order at 9:00 a.m.

AGENDA ITEM NO. 2: Welcome and Roll Call
In lieu of Ms. Max, Secretary, Ms. Berrios took attendance. A quorum was determined to be present.

AGENDA ITEM NO. 3: Registered Public Comments on Agenda Items (Limit of 3 Minutes Per Person)
Ms. Berrios stated there were no registered public comments. Mr. Buscha noted that David Brown was present, in person, from the public.

AGENDA ITEM NO. 4: Texas Water Development Board Update
Mr. Kyle Moore spoke on behalf of Ms. Ingram and noted the following updates:
- Future conditions proposal was received and presented no concerns; however, the Texas Water Development Board requested a follow-up meeting with the Technical Consultants and Project Sponsor to ask clarifying questions before an acceptance letter is sent out.
- Regarding the technical memorandum, Mr. Moore stated that the Texas Water Development Board has reviewed the technical memoranda from all fifteen regional flood planning groups and were awaiting the SJRFP’s March 7 deliverable.
- Mr. Moore continued with the contract amendment for Region 6, stating it was moving along and to defer to Ms. Ingram for any additional questions.

AGENDA ITEM NO. 5: Approval of Meeting Minutes – January 13, 2022
Mr. Buscha opened the floor for comments on the January 13, 2022 meeting minutes. Mr. Barrett asked a question regarding the description in the minutes of the appointment of Mr. Kosar to the Technical Committee and discussion ensued. Mr. Barrett suggested that he could send the rest of his non-substantive corrections to Ms. Garcia, to which Mr. Buscha agreed. Mr. Fisseler stated a minor comment regarding hybrid meetings and requested that the minutes include the in-person meeting location. Mr. Buscha opened for further comments, and none were given. Mr. Fisseler moved to approve the minutes as revised, and Ms. Vinson seconded. Mr. Buscha announced the motion carried unanimously for approval of the January 13, 2022 meeting minutes.

AGENDA ITEM NO. 6: Announcement of New Alternate Members and New Non-Voting Members
Mr. Buscha asked if there were any announcements for new non-voting members or alternates and Ms. Berrios stated there were no new announcements. Mr. Buscha mentioned that Mr. Stockett had resigned from Harris County Flood Control District and thanked Ms. Green, his alternate, for joining the meeting. Mr. Buscha stated that the planning group would go through process of re-solicitation for the Flood Districts member. Ms. Max proposed that anyone who previously applied be encouraged to re-apply. Mr. Buscha called for objections, and none were given. Ms. Vinson wanted to remind the group of the vacancy filling process in our bylaws and clarified that the group had to process the notice but agreed with previous submissions being encouraged, if the candidates desired. Mr. Buscha confirmed the notice would be filed as per the bylaws.

AGENDA ITEM NO. 7: Liaison Reports Pertaining to Other Region(s) Progress and Status:
- Trinity Region – Mr. Buscha stated Mr. Burrer was not on the call to give an update.
- Neches Region – Mr. Buscha stated Mr. Costello was not on the call to give an update.
- Lower Brazos Region – Mr. Turco updated that the Lower Brazos would be holding public meetings throughout the basin in early March through April, details on the website. Mr.
Turco continued to update that the next meeting would be on March 24, 2022 and stated he was unable to attend the last meeting.

- **Region H Water**—Mr. Busche stated that Mr. Wade was not on the call, and he would reach out to the Trinity and Neches liaisons for an update.

**AGENDA ITEM NO. 8: Update from the Executive Committee, discussion, and possible action regarding the appointment of the Small Business Voting Member Position**

Mr. Busche advised the members that three candidates for the Small Business voting member position had been shortlisted. After holding three interviews, the Executive Committee recommended that Ms. Connie Pothier be appointed as the new Small Business voting member. Mr. Busche briefly introduced Ms. Pothier and opened the floor for additional comments. Ms. Pothier gave a brief introduction regarding her background and her small business and expressed her gratitude to serve on the RFPG. Mr. Busche opened the floor for discussion. Ms. Vinson moved to appoint Ms. Pothier as the Small Business voting member to the RFPG. Mr. Fisseler seconded the motion. Mr. Busche announced the motion carried unanimously and introduced Ms. Pothier as the new voting member representing Small Businesses.

**AGENDA ITEM NO. 9: Discussion, and Possible Action Regarding the Membership of Advisory Committees**

a. **Public Engagement Committee**

b. **Technical Committee**

Mr. Busche opened the floor for volunteers for any committees. Ms. Vinson suggested and moved to fill the vacant seat on the Public Engagement Committee with Ms. Pothier and to hold Mr. Stuckett's vacant seat on the Technical Committee until the Flood Districts member position was filled. Mr. Busche asked Ms. Pothier if she would be willing to serve on the Public Engagement Committee, and she accepted. Ms. Vinson made a motion to approve Ms. Pothier as a member of the Public Engagement Committee, and Mr. Lock seconded the motion. Mr. Busche stated the motion carried unanimously. No action was taken with respect to the Technical Committee.

**AGENDA ITEM NO. 10: Presentation and updates from the SIRFPG Technical Consultant on future flood risks identification and analysis, and development of the Technical Memorandum due to the TWDB March 7, 2022**

Mr. Busche yielded the floor to the Technical Consultants. Mr. Stull mentioned the deliverable due to the Texas Water Development Board the following week, gave a brief overview of the discussion topic, and acknowledged his partner technical consultants from Hallf Associates, Inc. Mr. Moore began by stating that what he was presenting was not a regulatory product. Mr. Moore restated the scope of work was to define the future hazard floodplain and analyze it. Mr. Moore continued to outline the technical approach to delineating future flood hazard for which the Technical Consultants sought approval. Mr. Moore began with the background to the materials presented (Hazard + Exposure + Vulnerability = Risk) for the future flood risk analysis. Mr. Moore touched on subsidence in our region and on several implications for our coastal region. Mr. Moore explained that storm surge, storm intensity, sea level rise occurring (and projected), and coastal erosion were challenging. Mr. Fisseler questioned about Atlas 34 data and pointed out that future rainfall predictions will be verified as time passes and can be upward or downward as the SIRFPG updates future versions of its regional plan. Mr. Moore stated historical data had been used to make predictions but emphasized additional more up-to-date data would be included as it becomes available.
Mr. Torres explained the sea level rise conditions and went over the Technical Consultant’s recommendation. Ms. Powers stated that the sea level rise was drastic, the midline level should be higher, and that the middle projection was not something the environmental community was confident in. Mr. Torres cited a published report by NOAA on sea level rise and stated they noticed some disconnect as well. Ms. Powers noted about historically vulnerable communities and asked the Technical Consultants to be mindful to protect those communities.

Ms. Bakko offered input from the Gulf Coast Protection District (GCDPD) stating that the GCDPD would serve as the nonfederal sponsor for the Texas Coastal Study authorized by Congress. The study is intended to look at flooding in natural disasters and the supply chain impact, not just to the region, but to the nation, with Ms. Bakko further stating that small businesses were the backbone of this country. Discussion ensued and Ms. Bakko offered to provide more information at an upcoming IFPG meeting. Mr. Nuzzelli suggested we should not duplicate or have conflicting efforts within the two groups. Ms. Bakko pointed out the importance of having consistent messages when communicating with state legislators and with Congress due to funding needed to reach goals. Mr. Stull reiterated that the data was constantly changing.

Dr. Gaynor stated that to create a buffer, the concept depended on the slope of the coastal region. Dr. Gaynor mentioned that he had been in communication with the Technical Consultant and that he believes the slope is over-estimated. Discussion ensued regarding slope calculations.

Mr. Torres moved on to subsidence and explained how subsidence impacts had been calculated. Ms. Vinson asked if consideration had been given to the impact of the conversion from groundwater to surface water uses. Mr. Torres stated that it did not, and they were working with Subsidence District reports. Discussion ensued between Ms. Vinson, Mr. Turco, and Mr. Fisseler regarding subsidence and groundwater use. Ms. Puckett stated that the discussion could impact mapping deliverables.

Mr. Moore began the discussion on the recommendations of future 100-year and future 500-year flood extents. Mr. Moore explained the riverine modeling and application of the buffer. Mr. Buscha wanted clarification on the recommendation to apply the buffers to determine future 500-year extents. Further discussion took place regarding future projects, changing elevations and buffers. Mr. Stull stated that the application of the buffers is a simplified solution to account for future conditions. Mr. Stull reminded the group that they were using the best data available.

At 10:32 a.m., Mr. Buscha called for a five-minute recess. The meeting reconvened at 10:37 a.m.

Mr. Moore moved to flood exposure analysis and which areas would be exposed in future flood events, which would essentially be a GIS map intersect. Mr. Moore moved on to a recommendation regarding flood exposure and identifying critical infrastructure database. Ms. Puckett provided an overview regarding defining critical infrastructure. Ms. Puckett continued to outline flood map gaps. Ms. Puckett stated the recommendation of focusing consideration on availability of FEMA mapping, base-level engineering, and land cover change. Ms. Puckett stated that the decisions were documented in the memorandum due on March 7, 2022. Mr. Barrett asked if they wanted final comments on the technical memorandum at this time. Ms. Puckett reminded the group that the deliverable was due the following Monday, in-progress which would continue to be refined. Mr. Buscha reiterated that we are operating with deadlines and milestones and stated that the goal was to move forward to submit the deliverables. Mr. Barrett stated he reviewed the documents and had non-substantive comments and questions that wouldn’t affect today’s approval. Mr. Barrett asked the group if it was comfortable with him providing comments to the Technical Consultants and no one objected. Discussion regarding a possible meeting.
between Mr. Berrett and the Technical Consultants ensued. Mr. Busche asked the group to review the documents and provide comments to the Technical Consultants so that by the April SJRPFG meeting, the Technical Consultants could have replies to the group’s comments.

Ms. Puckett continued to present the interactive GIS dashboard. Ms. Puckett mentioned what was added was the Existing Flood Risk layer to the map. Ms. Vinson asked about adding a disclaimer that the website is not a regulatory product. Ms. Puckett agreed and stated that a disclaimer could be added. Mr. Stull asked Ms. Vinson for the appropriate language to be sent over to them. Ms. Mac echoed Ms. Vinson’s remark regarding messaging, so people know what it is and what it isn’t. Mr. Busche requested the link for the map be sent out to the group. Mr. Stull reviewed upcoming items and goals. Ms. Puckett reviewed the outreach and engagement efforts. Mr. Stull noted that the SJRPFG would have a booth at the upcoming TIPMA conference. Dr. Gnyozd asked for clarification regarding the technical memorandums and submittals. The Technical Consultants stated that the technical memorandum submitted in January was accepted by the Texas Water Development Board and the supplemental memorandum was due March 7. The Technical Consultants stated that the Task 28 deliverable had been reviewed by the Texas Water Development Board, separately from the February 23 memorandum.

AGENDA ITEM NO. 11: Update and recommendation from the Technical Committee and possible action from the RFPG as it pertains to:

a. Technical approaches to develop deliverables required to be submitted as part of the Technical Memorandum due to TWDB March 7, 2022
b. Approval of the Technical Memorandum and authorization of submittal of the completed document and required materials to TWDB

Mr. Busche stated that the SJRPFG was provided with a very detailed briefing and some members recognized there were comments and clarifications needed. Mr. Busche continued to encourage the group to remember that this was an ongoing development and opened for additional comments and discussion. Ms. Donovan moved to approve the technical memorandum and allow the Technical Consultants to submit it on behalf of the SJRPFG. Mr. Costello seconded the motion, which carried unanimously.

AGENDA ITEM NO. 12: Update from the Public Engagement Committee, discussion, and possible action from the RFPG as it pertains to the development of the Communications and Outreach Plan

Mr. Busche stated that the next meeting for the Public Engagement Committee would be on March 10th and opened for discussion. Ms. Najmuddin with Holloway Environmental + Communications, noted the importance of the Public Engagement Committee and Mr. Busche stated that he looked forward to Ms. Pothier’s participation.

AGENDA ITEM NO. 13: Approval and Certification of Administrative Expenses Incurred by The Project Sponsor for the Development of Regional Flood Plan

Mr. Busche requested approval of the presented administrative expenses. Mr. Powers made a motion to approve the administrative expenses, and Ms. Vinson seconded the motion. Ms. Mac abstained due to being the project sponsor. Mr. Busche stated the motion carried.

AGENDA ITEM NO. 14: Presentation Of 2022Planning Group Key Dates and Deadlines:

Mr. Busche stated the next SJRPFG meeting would be held on April 14, 2022 and the next Public Engagement Committee meeting would be held on March 10, 2022.
Upcoming Planning Schedule Milestones
Next SJRPG Planning Meeting to Be Held on April 14, 2022

AGENDA ITEM NO. 15: Update and Discussion Pertaining to In-Person SJRPG Meeting Location(s)
Mr. Buscha stated that the meeting would continue to be hybrid and that the Project Sponsor was exploring a more central location. Mr. Buscha stated that the SJRPG would continue to meet at Harris County Flood Control District offices in the meantime.

AGENDA ITEM NO. 16: Reminder Regarding Planning Group Member Training on Public Information Act and Open Meetings Act
Mr. Buscha reminded the group that whoever hasn’t completed the training needs to do so and submit records to Ms. Berrios.

AGENDA ITEM NO. 17: Consider Agenda Items for Next Meeting
Mr. Buscha identified the following items for the next agenda:
- Identify possible presentation by Gulf Coast Protection District at the April meeting
- Update on Flood Districts position solicitation

AGENDA ITEM NO. 18: Public Comments – Limit 3 Minutes Per Person
Ms. Berrios stated there were no requests to make public comments.

AGENDA ITEM NO. 19: Adjourn
Mr. Buscha announced the meeting was adjourned at 11:22 a.m.

__________________________
Alisa Meg, Secretary

__________________________
Timothy Buscha, Chair
Item 6:
Announcement of new Alternate Members and new Non-Voting Members
Item 7:
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 8: Update from Project Sponsor regarding the solicitation process for the Flood Districts Voting Member Position
Item 9: Discussion, and Possible Action Regarding the Membership of Advisory Committees
   a. Technical Committee
Item 10:
Update from the Technical Consultant on:
  a. Technical Approach for conducting the Needs Analysis (Task 4A)
  b. Minimum Standards (Task 3A)
  c. Process for Recommending Potentially Feasible FMEs, FMSs, and FMPs (Task 5)
  d. Public Engagement, Communications and Outreach Plan, and the Upcoming Public Meeting
Technical Consultant Update

SAN JACINTO REGIONAL FLOOD PLANNING GROUP
REGION 6

April 14, 2022
Agenda

- Task 4A: Flood Mitigation Needs Analysis
- Task 3A: Minimum Standards
- Schedule through Draft RFP & Process for Recommending FMXs
- Task 10: Communications Plan and Upcoming Public Meeting(s)
Task 4A: Flood Mitigation Needs Analysis

Meeting Goals:

• Understand Task requirements and needs for the RFP
• Provide feedback regarding scoring criteria used
• Gain consensus on approach for identifying needs
Task 4A: Flood Mitigation Needs Analysis

Task Goals:

Conduct a two-piece, big picture analysis to guide subsequent efforts by identifying:

- Flood prone areas where the greatest flood risk knowledge gaps exist (and where the RFPG should consider identifying potentially feasible flood risk studies as FMEs)
- Greatest known flood risk and flood mitigation needs in the region and resulting need of potential strategies and projects (FMSs and FMPs) to reduce those risks
TWDB Technical Guidance for Task 4A

1. the areas in the FPR that the RFPG identified as the most prone to flooding that threatens life and property;
2. the relative locations, extent, and performance of current floodplain management and land use policies and infrastructure located within the FPR, particularly within the locations described in paragraph (1) of this subsection;
3. areas identified by the RFPG as prone to flooding that don't have adequate inundation maps;
4. areas identified by the RFPG as prone to flooding that don't have hydrologic and hydraulic models;
5. areas with an emergency need;
6. existing modeling analyses and flood risk mitigation plans within the FPR;
7. flood mitigation projects already identified and evaluated by other flood mitigation plans and studies;
8. documentation of historic flooding events;
9. flood mitigation projects already being implemented; and
10. any other factors that the RFPG deems relevant to identifying the geographic locations where potential FMEs and potentially feasible FMSs and FMPs shall be identified and evaluated.
Approach

- **Deliverables**
  - Location map depicting basin knowledge (studies)
  - Location map depicting flood risk (projects)

- **Quantify each area by FEMA HUC 12**
  - Granular for more detailed analysis
  - Based on watershed rather than political boundary
  - 108 HUC 12 boundaries in San Jacinto region
    - Divided up the larger coastal HUCs
    - Now 115 HUC boundaries in the region
Approach

• Comparison of the HUC 12s to identify the locations of greatest needs
• Score 1-5 based on the criteria

Comparison of flooded agricultural areas (square miles)

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<th>Occurrence</th>
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<tr>
<td>2</td>
<td>0.0171 – 0.046</td>
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<td>3</td>
<td>0.0461 – 0.093</td>
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Low score = Low risk
High Score = High Risk
Sample HUCs for demonstration purposes:

- 120401030102 (HUC 1)
  - Rural, upper watershed
- 120401040302 (HUC 2)
  - Urban, middle watershed
- 120402030106 (HUC 3)
  - Urban, coastal influence

Scoring is subject to change based on approach recommendations and detailed review.
1A – Area most prone to flooding (Existing)

- Tabulation of information related to **existing flood risk**
- All statistics will be based on the Existing 0.2% (500-year) floodplain to correlate with anticipated Atlas 14 floodplain
  - Area in the existing floodplain (square miles)
  - Number of flooded structures (FS)
  - Agricultural areas (square miles) (AA)
  - Quantity of roadway miles (RM)
  - Number of roadway crossings (RC)
  - Number of critical facilities (CR)

Existing conditions will be weighted 70% for the Category 1 score
### 1A – Area most prone to flooding (Existing)

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<td>3</td>
<td>4</td>
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</tr>
</tbody>
</table>

**Legend**
- Critical Facilities
- Crossings
- Roadway
- Structures
- Agricultural Land
1B – Area most prone to flooding (Future)

• Tabulation of information related to future flood risk

• All statistics will be based on the Future 0.2% (500-year) floodplain to correlate with anticipated Atlas 14 floodplain
  • Area in the existing floodplain (square miles)
  • Number of flooded structures (FS)
  • Agricultural areas (square miles) (AA)
  • Quantity of roadway miles (RM)
  • Number of roadway crossings (RC)
  • Number of critical facilities (CR)

Future conditions will be weighted 30% for the Category 1 score since data is more approximate than existing conditions
## 1B – Area most prone to flooding (Future)

<table>
<thead>
<tr>
<th>Area</th>
<th>Structures</th>
<th>Ag. Areas</th>
<th>Roadways</th>
<th>Crossings</th>
<th>Critical</th>
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</table>

### Legend
- **Critical Facilities**
- **Crossings**
- **Roadway**
- **Structures**
- **Agricultural Land**

<table>
<thead>
<tr>
<th>Area</th>
<th>Structures</th>
<th>Ag. Areas</th>
<th>Roadways</th>
<th>Crossings</th>
<th>Critical</th>
<th>Score</th>
</tr>
</thead>
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<td>2</td>
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<td>4</td>
<td>4</td>
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</tbody>
</table>
2 – Floodplain Management, Land Use, Infrastructure

- **NFIP Participation** indicates floodplain standards for new development

- **Drainage Criteria Manual (DCM)** typically regulates detention requirements and local drainage infrastructures

- **Higher floodplain standards (HFS)** indicates additional guidance and requirements for new development such as higher finished floor elevations

- **CRS Score** indicates the level of higher standards which allows for a reduction in flood insurance for the community
2 – Floodplain Management, Land Use, Infrastructure

<table>
<thead>
<tr>
<th></th>
<th>NFIP</th>
<th>DCM</th>
<th>HFS</th>
<th>CRS</th>
<th>Score</th>
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<td>1</td>
<td>1</td>
<td>5</td>
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<tr>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>HUC 3</td>
<td>1</td>
<td>1</td>
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<td>1</td>
<td>1</td>
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</tbody>
</table>
3 – Adequacy of Floodplain Maps
4 – Adequacy of Floodplain Models

• Implemented maps – ongoing studies (such as MAAPNext) will be included in additional regional planning cycles

• Derived scoring based on type of available mapping and date of implementation
  • No mapping (very few areas)
  • Zone A (approximate limits and no elevations)
  • Pre 2008 (pre-LiDAR data)
  • BLE (updated topography but approximate methods)
  • 2008 – 2018 (Previous LiDAR dataset)
  • 2018 Newest Lidar and Atlas 14
3 – Adequacy of Floodplain Maps
4 – Adequacy of Floodplain Models

<table>
<thead>
<tr>
<th></th>
<th>0 2018+</th>
<th>1 2008-2018</th>
<th>2 BLE</th>
<th>3 Pre 2008</th>
<th>4 Zone A</th>
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<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
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</table>
5 – Emergency Need

- Need as identified by the RFPG
  - FEMA Repetitive Losses/Severe Repetitive Losses (RL/SRL)
  - Critical Facilities within existing 0.2% (CF)
  - Hurricane Evacuation Routes (miles) (HER)
5 – Emergency Need

<table>
<thead>
<tr>
<th>HUC</th>
<th>RL/SRL</th>
<th>CF</th>
<th>HER</th>
<th>Score</th>
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<tbody>
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<td>0</td>
<td>0.0</td>
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<td>HUC 2</td>
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<td>126</td>
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<td>HUC 3</td>
<td>0</td>
<td>32</td>
<td>1.1</td>
<td>2.7</td>
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</table>

Legend
- Critical Facilities
- FEMA Repetitive Loss
- Hurricane
- Evacuation Routes
6 – Existing Modeling Analysis and Mitigation Plans

- Master Drainage Plans provide additional information to floodplain mapping including:
  - Infrastructure level of service
  - Local drainage information
  - Mitigation alternatives
  - Implementation and policy plans

- Reverse ranking as number of models and plans will reduce flood risk
6 – Existing Modeling Analysis and Mitigation Plans

<table>
<thead>
<tr>
<th>Number of Plans</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUC 1</td>
<td>1</td>
</tr>
<tr>
<td>HUC 2</td>
<td>0</td>
</tr>
<tr>
<td>HUC 3</td>
<td>5</td>
</tr>
</tbody>
</table>
7 – Identified Flood Mitigation Projects

- Identified projects from plans/studies that are not implemented nor funded
- Focus of this analysis is **Gaps** and **Needs**
- Proposed projects do not capture the knowledge gaps nor the areas of greatest needs
- Do not want to discount the needs for these projects
  - Will be important in Tasks 4B and 5
- *Recommend not including Criteria 7 in the assessment.*
8 – Documentation of Historical Storms

• Number of FEMA claims within each HUC
• Total of property damage of these claims
8 – Documentation of Historical Storms

<table>
<thead>
<tr>
<th>HUC</th>
<th>Number of Claims</th>
<th>Claim Amount</th>
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</thead>
<tbody>
<tr>
<td>HUC 1</td>
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<td>$713,000</td>
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<tr>
<td>HUC 2</td>
<td>10,323</td>
<td>$299,024,000</td>
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<tr>
<td>HUC 3</td>
<td>1,082</td>
<td>$49,322,000</td>
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</table>

<table>
<thead>
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<th>HUC</th>
<th>Number of Claims</th>
<th>Claim Amount</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUC 1</td>
<td>2</td>
<td>1</td>
<td>1.5</td>
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<tr>
<td>HUC 2</td>
<td>5</td>
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<td>4.5</td>
</tr>
<tr>
<td>HUC 3</td>
<td>3</td>
<td>4</td>
<td>3.5</td>
</tr>
</tbody>
</table>
9 – Implemented Flood Mitigation Projects

- Number of construction projects ongoing that would reduce flood risk for the HUC
- Flood mitigation projects that are already being implemented
- Reverse ranking as constructed projects will reduce flood risk
9 – Implemented Flood Mitigation Projects

<table>
<thead>
<tr>
<th>HUC</th>
<th>Number of Projects</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>HUC 2</td>
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</tr>
<tr>
<td>HUC 3</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>
10 – Other Factors

• Social Vulnerability Index (SVI) indicates how quickly an area may be able to recover to flooding events
• Low SVI may be able to respond more successfully than High SVI areas
• Score is applied to the entire HUC, not just the floodplain as flooding can occur outside of the identified flood hazard areas
10 – Other Factors (SVI)

Legend
- 0 - 0.25 - Least Vulnerable
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00 - Most Vulnerable

<table>
<thead>
<tr>
<th></th>
<th>1 0-0.33</th>
<th>2 0.331-0.41</th>
<th>3 0.411-0.49</th>
<th>4 0.491-0.59</th>
<th>5 0.591+</th>
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<tbody>
<tr>
<td>HUC 1</td>
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<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>HUC 2</td>
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<td>HUC 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>
Flood Mitigation Needs Analysis

Flood prone areas where the greatest **flood risk knowledge gaps** exist (and where the RFPG should consider identifying potentially feasible flood risk studies as FMEs)

Greatest **known flood risk** and flood mitigation needs in the region and resulting need of potential strategies and projects (FMSs and FMPs) to reduce those risks

<table>
<thead>
<tr>
<th>Item</th>
<th>Knowledge Gap</th>
<th>Flood Risk Need</th>
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<td>2</td>
<td></td>
<td>X</td>
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<tr>
<td>6</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>10</td>
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</table>
Total Score
Combination of all categories

Knowledge Gap

<table>
<thead>
<tr>
<th>HUC 1</th>
<th>Models and Mapping</th>
<th>Mitigation Plans &amp; Models</th>
<th>Projects</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 &amp; 4</td>
<td>6</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>HUC 2</td>
<td>3</td>
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<td>9</td>
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<tr>
<td>HUC 3</td>
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<td>2</td>
<td>4</td>
<td>9</td>
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</tbody>
</table>

Flood Risk Need

<table>
<thead>
<tr>
<th>HUC 1</th>
<th>Areas Prone to Flooding</th>
<th>Policies</th>
<th>Emergency Need</th>
<th>Historic Flood Events</th>
<th>Projects</th>
<th>SVI</th>
<th>Score</th>
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</thead>
<tbody>
<tr>
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<td>1a (70%)</td>
<td>1b (30%)</td>
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<td>5</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>HUC 1</td>
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<td>2.2</td>
<td>2</td>
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<td>4.5</td>
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</table>
## Total Score

Combination of all categories

### Knowledge Gap

<table>
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<th>Models and Mapping</th>
<th>Mitigation Plans &amp; Models</th>
<th>Projects</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3 &amp; 4</td>
<td>6</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
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<tr>
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<td>3</td>
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<td>4</td>
<td>9</td>
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</table>

### Flood Risk Need

<table>
<thead>
<tr>
<th>HUC</th>
<th>Areas Prone to Flooding</th>
<th>Policies</th>
<th>Emergency Need</th>
<th>Historic Flood Events</th>
<th>Projects</th>
<th>SVI (50%)</th>
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<td>5</td>
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</table>
Total Score
Combination of all categories

Knowledge Gap

<table>
<thead>
<tr>
<th>Models and Mapping</th>
<th>Mitigation Plans &amp; Models</th>
<th>Projects</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 &amp; 4</td>
<td>6</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>HUC 1</td>
<td>1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>HUC 2</td>
<td>3</td>
<td>5</td>
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</tr>
<tr>
<td>HUC 3</td>
<td>3</td>
<td>2</td>
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Flood Risk Need

<table>
<thead>
<tr>
<th>Areas Prone to Flooding</th>
<th>Policies</th>
<th>Emergency Need</th>
<th>Historic Flood Events</th>
<th>Projects</th>
<th>Score</th>
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<tbody>
<tr>
<td>1a (70%)</td>
<td>1b (30%)</td>
<td>2</td>
<td>5</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>HUC 1</td>
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<td>2.2</td>
<td>2</td>
<td>1.0</td>
<td>1.5</td>
</tr>
<tr>
<td>HUC 2</td>
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<td>4.7</td>
<td>4.5</td>
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<td>1</td>
<td>2.7</td>
<td>3.5</td>
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</tbody>
</table>
Total Score

Flood Risk Knowledge Gaps
map

Example map, data will be refined
Next Steps for Task 4A

• Incorporate any RFPG comments on Task 4A Approach
• Execute Task 4A
• Identify study and flood mitigation project needs and incorporate any recommendations as part of Task 4B and Task 5
• Identify data gaps that could be addressed in future flood planning cycles:
  • Additional structures, roadways, and other infrastructure built in the future
  • Additional studies and projects that are developed in between this and the next flood plan (such as MAAPNext)
  • Depth of flooding
  • Community input as to where emergencies occur
Task 3A: Floodplain Management Practices

Guidance:

- **Evaluation of floodplain management practices**
  - NFIP participation
  - Collect and inventory codes and criteria
  - Higher Standards
  - Level of enforcement
  - Level of floodplain management practices
  - Develop ExFpMP Table and associated map
Task 3A: Floodplain Management Practices

Guidance:

• Evaluation of floodplain management practices

• **Recommendations on floodplain management practices**
  • *Recommend* floodplain management standards for consideration by regulatory entities
  • *Adopt* minimum standards required to be adopted by local entities prior to the RFPG including any FMEs, FMSs, or FMPs
  • Consider how RFPG goals tie-in to identified standards
Regional Criteria Overview

Participation in the NFIP

Entities with "Strong" Standards

97%

36%

78%

Entities with Higher Standards
Recommended Approach for the 1st Cycle

Level of Flood Management Practice

STRONG

*MODERATE

LOW

NONE

*MODERATE level of flood management practices indicates those entities that have implemented some higher standards beyond NFIP minimums
Preliminary List of Identified Standards

1. Participation in the NFIP
2. Defining Region-wide No Adverse Impact Policy
3. Establish Minimum FFEs
4. Encourage use of Best-Available Rainfall (Atlas-14)
5. Compensatory Storage in the 1% Floodplain (100-year)
6. Compensatory Storage in the 0.2% Floodplain (500-year)
7. Development of Detailed H&H Analysis Criteria/Requirements
8. Incentivizing the Preservation of the Floodplain
Potential Minimum Standard

1. Participation in the National Flood Insurance Program (NFIP)
   - All regulatory entities to implement ordinances that meet minimum requirements per the NFIP
   - All regulatory entities to remain active NFIP participants in good standing
   - RFPG to consider noting resources in Chapter 3A or recommend actions within the plan to encourage implementation

2. Defining Region-wide No Adverse Impact Policy
   - No increase in peak water surface elevation equal to or greater than 0.01-ft on another property
   - No loss in floodplain storage on the property
   - No increase in peak flow rates to the receiving downstream waterway
Potential Minimum Standard

3. Establish Minimum Finished Floor Elevations

- All new habitable structures shall have a finished floor elevation established at or waterproofed to the 500-year flood elevation as shown in effective Flood Insurance Studies (FIS).

4. Encourage use of Best-Available Rainfall Data

- Utilize the latest rainfall data (NOAA Atlas 14) when developing regulations and criteria.
- Utilize the latest rainfall data (NOAA Atlas 14) when conducting new impact analyses and when designing drainage infrastructure.
5. Compensatory Storage Requirements in the 1% AEP Floodplain

- Any reduction in floodplain storage or conveyance capacity within the 1% annual chance regulatory floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction, except in areas identified as coastal flood zones (FEMA Flood Zone V and VE). Mitigation shall be provided within the same watershed from which floodplain storage was reduced.

6. Compensatory Storage Requirements in the 0.2% AEP Floodplain

- Any reduction in floodplain storage or conveyance capacity within the 0.2% annual chance regulatory floodplain must be offset with a hydraulically equivalent (one-to-one) volume of mitigation sufficient to offset the reduction, except in areas identified as coastal flood zones (FEMA Flood Zone V and VE). Mitigation shall be provided within the same watershed from which floodplain storage was reduced.
Potential Minimum Standard

7. Development of Detailed H&H Analysis Criteria/Requirements

• This measure includes efforts to develop hydrologic and hydraulic modeling criteria or requirements, as appropriate for the area of the flood planning region and identify characteristics of a development that would warrant a full hydrologic and hydraulic analysis.

8. Incentivizing the Preservation of the Floodplain

• Encourage regulatory entities to explore and develop systems for incentivizing the preservation of the floodplain to reduce development directly within the regulatory floodplain.

• RFPG to consider incorporating an FMS to facilitate the implementation of a local preservation program.
• RFPG to consider making regulatory recommendations as part of Task 8.
Schedule through Draft RFP

- **April 4**: Apr Notice 4/7/22, Apr Materials 4/11/22, Apr RFPG Meeting April 14, 2022
  - Vote on Needs Analysis 4/14/22

- **April 18**:

- **May 2**: May Notice 4/28/22, May Materials 5/5/22, May RFPG Meeting May 12, 2022
  - Vote on Minimum Standards 5/12/22

- **May 16**:

- **May 30**: Send out Chapter 4 5/27/22

- **June 13**: Send out Chapter 5, 6, 9 6/15/22
  - Send Out Chapter 7, 8 5/27/22

- **June 27**: Send out Chapter 10 6/15/22

- **July 11**:

- **July 25**: Jul Notice 6/30/22, Jul Materials 7/7/22, July RFPG Meeting Jul 14, 2022
  - Vote on Draft Plan 7/14/22

- **August 8**: Submit Draft Plan August 1, 2022

Legend:
- **Public Engagement**
- **Major Votes**
- **RFPG Meetings**
- **Chapters to RFPG**
- **Deliverable to TWDB**

Public Input on FMXs ~5/23/22 - ~6/2/22
Recap on FMXs
Evaluated in Task 4B but recommended by the RFPG in Task 5

FME

A proposed flood study of a specific, flood-prone area that is needed in order to assess flood risk and/or determine whether there are potentially feasible FMSs or FMPs

FMP

A proposed project, either structural or non-structural, that has non-zero capital costs or other non-recurring cost and when implemented will reduce flood risk, mitigate flood hazards to life or property

FMS

A proposed plan to reduce flood risk or mitigate flood hazards to life or property
RFP Recommended Actions

- Task 4B
  - Data Collection
  - Evaluation

- Task 5
  - Recommendation by RFPG

- Task 6
  - Impact of Recommended Actions

- Task 9
  - Financing Recommended Actions
RFP Recommended Actions

- Task 4B
  - Data Collection
  - Evaluation

- Task 5
  - Recommendation by RFPG

- Task 6
  - Impact of Recommended Actions

- Task 9
  - Financing Recommended Actions
Task 4B & 5 Process - FMEs

Data Collection
- Collect available information on identified studies
- Contact sponsors to identify interest in potential FME, if study is still needed, refine inputs
- Propose FMEs, as needed, in areas of greatest need (Task 4A results)
- Populate required information including cost estimates, flood risk indicators, etc.

Evaluation
- Calculate planning level cost estimates
- Populate Flood Risk Indicators and other required TWDB data for FMEs
- Remove Identified FMEs that do not support a goal; Ensure FMEs cover adopted goals
- Identify FMEs that could be promoted to FMP as part of the amended plan

Recommend
- Final FME Recommendations
- TWDB Considerations
Task 4B & 5 Process - FMEs

Considerations for Recommendation:

- FMEs that are most likely to identify potentially feasible FMSs/FMPs
- FMEs that evaluate, at a minimum, the 100-year
- FMEs that support goals adopted by the RFPG
- Overlap between FMEs or ongoing studies
- FMX sponsorship does not obligate the entity to take action or take financial responsibility

“Not every conceivable FME will be recommended in the regional plan. The RFPG and their TC must decide which identified potential FMEs will be recommended in their regional plan in order to ensure … limited resources can be directed efficiently…”
Task 4B & 5 Process - FMPs

**Data Collection**
- Collect available information on identified studies
- Contact sponsors to identify interest in potential FMP, if study is still needed, refine inputs
- Populate required information including cost estimates, flood risk indicators, etc.

**Evaluation**
- Determine if infeasible (focused on response or recovery, no benefit in 100-year, dependent on infeasible action, negative impact)
- Confirm no negative impact, cost benefit analysis, other TWDB requirements
- Remove Identified FMPs that do not support a goal; Ensure FMPs cover adopted goals

**Recommend**
- Final FMP Recommendations
- TWDB Considerations
Task 4B & 5 Process - FMPs

Considerations for Recommendation:

- FMPs demonstrate flood risk reduction in the 100-year
- FMPs may not negatively impact neighboring areas
- FMPs that contribute to water supply may not result in an overallocation of a water source
- Overlap or redundancy in proposed FMPs
- Focus on FMPs with contributing drainage area greater than 1 square mile
- FMX sponsorship does not obligate the entity to take action or take financial responsibility
Task 4B & 5 Process

- Utilize GIS Dashboard and One-Page-Summaries
- Perform all analysis prior to discussing with the RFPG
- Provide sufficient time for RFPG review ahead of voting
- Group FMXs strategically to hold votes for efficiency
Public Engagement Updates

- Identifying public engagement metrics that support the goals outlined in the SJRFPG Communications and Media Engagement Plan.
  - How can we measure meaningful engagement beyond quantitative metrics through the RFPG website, social media platforms, and public comment management system?

- Identifying additional engagement opportunities as well as opportunities to leverage RFPG member participation.

- Planning for the next RFPG public engagement meetings, per recommendations from the Public Engagement Committee.
Public Engagement Meeting Recommendations

- Three Meetings
  - Two In-Person Meetings
  - One Virtual Meeting
- Format
  - Open-house style (in-person and virtual)
- Accommodations
  - Live Interpretation
  - Translated Meeting Notices/Materials
- Targeted Timeframe
  - May 23 – June 3, 2022
Item 11: Update and Recommendation from the Technical Committee and possible action from the RFPG as it pertains to the technical approach for conducting the Needs Analysis (Task 4A)
Item 12:
Update and recommendation from the Public Engagement Committee, discussion, and possible action from the RFPG as it pertains to the development of the Communications and Outreach Plan
Communications Plan Goals

Identify communication strategies, methods, and tools to facilitate stakeholder participation and meet the evolving needs of stakeholders throughout the San Jacinto planning region.

Communicate information consistently and efficiently so that it reaches and engages as many audiences as possible throughout the San Jacinto planning region.

Drive overall awareness of the SJRFPG and its efforts to develop an RFP to reduce existing flood risks to life and property and avoid increasing flood risk in the future.

Provide opportunities for interested stakeholders to provide input and participate in the development of the RFP.

Track and report regularly on public engagement activities and public input to allow for adjustments that reach and accommodate stakeholders.
Item 13:
Approval and Certification of Administrative Expenses Incurred by The Project Sponsor for The Development of Regional Flood Plan
### Administrative Expenses Incurred by Project Sponsor for 02/12/2022 – 03/25/2022

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Item 14:
Presentation of 2022 Planning Group Key Dates and Deadlines:
  a. Upcoming Planning Schedule Milestones
  b. Next SJRFPG Planning Meeting to be held on May 12, 2022
Item 15: Update and Discussion Pertaining to In-Person RFPG Meeting Location(s)
Item 16: Reminder Regarding Planning Group Member Training on Public Information Act and Open Meetings Act
Item 17: Consider Agenda Items for Next Meeting
Item 18:
Public Comments – Limit 3 Minutes per Person
Item 19: Adjournment