

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

Region 12 San Antonio RFPG

04/07/2022

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 Thursday, April 7, 2022, at 2:00 PM, in-person at the San Antonio River Authority Board room, located at 201 W. Sheridan St. and virtually on GotoMeeting at <https://meet.goto.com/604064173>.

- 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 (Region 12)
 4. Communications from the Texas Water Development Board (TWDB)
 5. Chair Report
 6. Updates from Region 12 Subcommittees
 7. Discussion and Appropriate Action Regarding Task 3B
 - a. Flood Mitigation and Floodplain Management Goals
 8. Conversation on Natural Flood Mitigation Features and Nature-Based Solutions
 9. Regional Liaison Update
 10. Public Comments - limit 3 minutes per person
 11. Date and Potential Agenda Items for Next Meeting
 12. 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, 201 W. Sheridan, San Antonio, TX, 78204 and include “Region 12 San Antonio Flood Planning Group Meeting” in the subject line of the email.

Additional information may be obtained from: Kendall Hayes (210) 302-3641, khayes@sariverauthority.org, San Antonio River Authority, 201 W. Sheridan, San Antonio, TX.

Meeting Minutes
Region 12 San Antonio Regional Flood Planning Group Meeting
Thursday, March 3, 2022
1:00 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
Derek Boese	<i>River authorities</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>	X
John Paul Beasley	<i>Public</i>	
Suzanne B. Scott	<i>Nonprofit</i>	X
Steve Gonzales	<i>Small business</i>	X
David Mauk	<i>Water districts</i>	X
Steve Clouse	<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	*Jennifer Bronson
James Guin	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)	X
Susan Roberts	Texas Commission on Environmental Quality	X

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **11**

Number required for quorum per current voting positions of 12: **7**

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

AGENDA ITEM NO.1: ROLL CALL

Ms. Kendall Hayes, 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)

Ms. Reid motioned to approve the minutes. Mr. Gonzales seconded the motion, motion passed.

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

Ms. Machiavello provided an update. TWDB has opened informal comment review for January deliverables. She provided an overview on FME/P/S. Her presentation and recording of this meeting can be found on the Region 12 website at <http://www.region12texas.org>.

AGENDA ITEM NO.5: CHAIR REPORT

Chair Garza provided an update on the technical memo. It has passed initial review.

AGENDA ITEM NO.6: UPDATES FROM REGION 12 SUBCOMMITTEES

Mr. Boese provided a brief update on the Technical subcommittee.

AGENDA ITEM NO.7: PRESENTATION FROM DAVID SKUODAS, COLORADO MILE HIGH FLOOD DISTRICT

Mr. David Skuodas presented on land use and infrastructure in the Colorado Mile High Flood District. His presentation and recording of this meeting can be found on the Region 12 website at <http://www.region12texas.org>.

AGENDA ITEM NO.8: DISCUSSION AND APPROPRIATE ACTION REGARDING THE SUBMISSION OF MARCH 7TH TECHNICAL MEMORANDUM SUPPLEMENT TO TWDB

Mr. Ron Branyon and team presented the March 7th Technical Memorandum supplement for the RFPG's approval.

Mr. Boese motioned to approve the San Antonio Regional Flood Planning Group Technical Memo Supplement and associated documentation as amended by the Planning Group today. The motion was seconded by Ms. Reid, motion passed by roll call vote.

AGENDA ITEM NO.9: OFFICER ELECTIONS

Ms. Scott motioned to maintain the current slate of officers. Mr. Gonzales seconded the motion, motion passed by roll call vote.

AGENDA ITEM NO.10: REGIONAL LIAISON UPDATES

Ms. Scott provided an update on Region 11, they solicited to fill a vacancy and reelected their officers. Mr. Mauk provided an update on Region 13, they are following at the same stage as Region 12. Ms. Tackett provided an update on Region 10, they are in a comparable situation to Region 12.

AGENDA ITEM NO.11: PUBLIC COMMENTS

No public comments.

AGENDA ITEM NO.12: DATE AND POTENTIAL AGENDA ITEMS FOR NEXT MEETING

The next RFPG meeting will be April 7, 2022, at 2:00 PM.

AGENDA ITEM NO.13: ADJOURN

Ms. Reid motioned to adjourn. Mr. Boese seconded the motion, motion passed.

Exhibit C, Table 11
Regional Flood Plan, Flood Mitigation, and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000001	12	San Antonio	Track and document existing public outreach and education activities that improve awareness of flood hazards and benefits of flood planning, including nature based solutions, in the region and ensure there are at least 6 additional occurrences per year.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline and ensure a minimum number of occurrences.	Education and Outreach	
12000002	12	San Antonio	Increase to 12 per year and maintain and increase public outreach and education activities to improve awareness of flood hazards and benefits of flood planning including nature based solutions in the region.	Long Term (30 year)	2053	Entire RFPG		Number of activities.	Education and Outreach	
12000003	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA. Improve 50% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions including providing certificates.	Short Term (10 year)	2033	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000004	12	San Antonio	Increase the proficiency of stakeholders and floodplain managers across the region through training from Region 12 entities, TFMA, ASFPM and FEMA. Improve 100% of FPM knowledge of nature based solutions, floodplain preservation, and cost/benefit of traditional structural solutions including providing certificates.	Long Term (30 year)	2053	Entire RFPG		Number of trainings reaching FPMs.	Education and Outreach	
12000005	12	San Antonio	Support the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Short Term (10 year)	2033	Entire RFPG		Increase the number of NFIP communities by 25%.	Flood Warning and Readiness	12000009
12000006	12	San Antonio	Expand the development of a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger to reduce flood deaths and high water rescues across the region.	Long Term (30 year)	2053	Entire RFPG		Increase the number of NFIP communities too 100%.	Flood Warning and Readiness	12000010
12000007	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 25% of existing or at minimum 10.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of gages by 25% over 2022.	Flood Warning and Readiness	12000009
12000008	12	San Antonio	Increase the number of flood gauges (rainfall, stream, reservoir, etc.) in the region to provide localized information to emergency responders, and storage and accessibility of data to agencies by 50% of existing.	Long Term (30 year)	2053	Entire RFPG		Increase the number of gages by 50% over 2022.	Flood Warning and Readiness	12000010
12000009	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Short Term (10 year)	2033	Entire RFPG		Increase by 40% of the NFIP communities.	Flood Warning and Readiness	12000007
12000010	12	San Antonio	Increase the number of entities that communicate real time flood warnings to the public. Leverage mobile phone navigation apps to provide real time rerouting for the public.	Long Term (30 year)	2053	Entire RFPG		Increase to 100% of the NFIP communities.	Flood Warning and Readiness	12000008
12000011	12	San Antonio	Establish a baseline and increase the number of NFIP communities which utilize Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 50% percent. (region specific)	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000012	12	San Antonio	Increase the number of NFIP communities which utilize/adopt Atlas 14 (Volume 11) or best available data from NOAA revised rainfall data as part of revisions to design criteria and flood prevention regulations by 100%. (region specific)	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000013	12	San Antonio	Decrease the number of Zone X by 30% and increase the number of entities that conduct detailed studies to update their local flood risk by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000014	12	San Antonio	Increase the number of entities that conduct detailed studies to update their local flood risk to 100%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Studies and Analysis	
12000015	12	San Antonio	Decrease the average age of FEMA Flood Insurance Rate Maps (NFHL/FIRMS/FIS) to less than 10 years.	Short Term (10 year)	2033	Entire RFPG		100% of maps.	Flood Studies and Analysis	
12000017	12	San Antonio	Establish a baseline number of existing studies and process for analyzing watersheds to identify existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements.	Short Term (10 year)	2033	Entire RFPG		Establishing a baseline/ process and increasing the number of entities that use the process.	Flood Studies and Analysis	
12000019	12	San Antonio	Increase the number of participating Community Rating System (CRS) entities in the FPR by 5.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	12000020
12000020	12	San Antonio	Increase the number of participating entities within Community Rating System (CRS) in the FPR by 100% or improve their rating.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	12000019
12000021	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 10%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Flood Prevention	
12000022	12	San Antonio	Increase the number of entities which regulate to the 1% annual chance future conditions floodplains as part of new development and redevelopment by 50%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Flood Prevention	
12000023	12	San Antonio	Increase the number of entities above the established baseline that have adopted a holistic watershed approach using existing Natural Flood Mitigation Features (NFMF) such as headwaters, buffers, and conservation easements for flood risk reduction as a basis for comprehensive subdivision regulations.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Flood Prevention	12000017
12000025	12	San Antonio	Establish a baseline and increase the number of acres of publicly protected open space by 10 % as part of land conservation and acquisitions to reduce future impacts of flooding.	Short Term (10 year)	2033	Entire RFPG		Establish a baseline and increase the number of protected acres.	Non-Structural Flood Infrastructure Projects	12000017
12000026	12	San Antonio	Increase the number of restored acres of publicly protected open space land in the region.	Long Term (30 year)	2053	Entire RFPG		Number of restored acres.	Non-Structural Flood Infrastructure Projects	12000017

Exhibit C, Table 11
Regional Flood Plan, Flood Mitigation, and Floodplain Management Goals

Goal ID	RFPG No.	RFPG Name	Goal	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal(s)	Associated Goal IDs
12000027	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 25%.	Short Term (10 year)	2033	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000028	12	San Antonio	Reduce the number of NFIP repetitive-loss properties in the FPR by 75%.	Long Term (30 year)	2053	Entire RFPG		Percentage of entities in the region.	Non-Structural Flood Infrastructure Projects	
12000029	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 10%.	Short Term (10 year)	2033	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000030	12	San Antonio	Reduce the number of existing (2022) residential properties in the future 1% annual chance floodplain by 50%.	Long Term (30 year)	2053	Entire RFPG		Number of residential properties.	Structural and Non-structural Flood Infrastructure Projects	
12000031	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 50%.	Short Term (10 year)	2033	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	
12000032	12	San Antonio	Reduce the number of vulnerable critical facilities located within the existing and future 1% annual chance (100-year) floodplain by 100%.	Long Term (30 year)	2053	Entire RFPG		Number of vulnerable critical facilities.	Structural Flood Infrastructure Projects	
12000033	12	San Antonio	Identify the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Short Term (10 year)	2033	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000034	12	San Antonio	Eliminate or mitigate the eligible top 50 vulnerable roadway segments and low water crossings located within the existing and future 1% annual chance (100-year) floodplain.	Long Term (30 year)	2053	Entire RFPG		Number of entities in the region.	Structural Flood Infrastructure Projects	
12000035	12	San Antonio	Increase the number of structural projects by 10% that include a NBS or Green Infrastructure (GI) component.	Short Term (10 year)	2033	Entire RFPG		Number of structural projects with NBS component.	Structural Flood Infrastructure Projects	
12000036	12	San Antonio	Increase the number of structural projects by 50% that include a NBS or Green Infrastructure (GI) component.	Long Term (30 year)	2053	Entire RFPG		Number of structural projects with NBS components.	Structural Flood Infrastructure Projects	

2.1 Task 1 – Planning area description (361.30, 361.31, 361.32)

This section is organized in several parts: goals, excerpts from relevant rules and scope of work, followed by additional guidance and submittal requirements.

Goals:

In general, the goal of this task is for RFPGs to describe the flood planning region, inventory and assess natural features and constructed major flood infrastructure, and describe proposed or ongoing flood mitigation projects in the region.

Information included in rules and scope of work:

Regional flood plans shall include brief, general descriptions of the following:

1. social and economic character of the region such as information on development, population, economic activity and economic sectors most at risk of flood impacts;
2. the areas in the FPR that are flood-prone and the types of major flood risks to life and property in the region;
3. key historical flood events within the region including associated fatalities and loss of property;
4. political subdivisions with flood-related authority and whether they are currently actively engaged in flood planning, floodplain management, and flood mitigation activities;
5. the general extent of local regulation and development codes relevant to existing and future flood risk;
6. agricultural and natural resources most impacted by flooding; and
7. existing local and regional flood plans within the FPR.

Regional flood plans shall include an **assessment of existing infrastructure**. Regional flood plans shall include a general description of the location, condition, and functionality **of natural features and constructed major infrastructure** within the FPR including, but not limited to:

1. rivers, tributaries, and functioning floodplains;
2. wetlands;
3. playa lakes;
4. sinkholes;
5. alluvial fans;
6. vegetated dunes;
7. levees;
8. sea barriers, walls, and revetments;
9. tidal barriers and gates;
10. stormwater tunnels;
11. stormwater canals;
12. dams that provide flood protection;
13. detention and retention ponds;
14. weirs;
15. storm drain systems; and
16. any other flood-related infrastructure.

For **non-functional or deficient** natural flood mitigation features or major flood infrastructure:

1. explain, in general, the reasons for the features or infrastructure being non-functional or deficient.

2. provide a description of the condition and functionality of the feature or infrastructure including whether and when the natural flood feature or major flood infrastructure may become fully functional, and
3. provide the name of the owner and operator of the major flood infrastructure.

Regional flood plans shall include a general description of the location, source of funding, and anticipated benefits of **proposed or ongoing flood mitigation projects in the FPR** including:

1. new structural flood mitigation projects currently under construction;
2. non-structural flood mitigation projects currently being implemented; and
3. structural and non-structural flood mitigation projects with dedicated funding to construct and the expected year of completion.

Regional flood plans shall include a tabulated list and GIS map of existing infrastructure and their conditions. Regional flood plans shall include a tabulated list and GIS map of proposed or ongoing flood mitigation projects currently under construction, being implemented; and with dedicated funding to construct and the expected year of completion.

Additional guidance:

The assessment of **existing major infrastructure and natural features** may be described in the form of overarching prose and general description of conditions along with the tabulated data of locations of types of infrastructure. The RFPs will have discretion in determining the scale of what constitutes “major” infrastructure to be included in the plan. For example, the inventory is not expected to include each small detention pond in a region, rather the major regional detention ponds. It should include all major public infrastructure.

A summary and location of all low water crossings (LWC) in the region identified by local communities must be included in Table 1.

For storm drain systems, identification of the existence, or not, of storm drainage systems and general location in each entity will suffice. For entities that do not have their drainage systems mapped, a general location and reference to the existence, or not, of storm drainage systems in each entity will suffice.

The summary of non-functional or deficient natural flood mitigation features or major flood infrastructure may be included in the same table and in a map format that includes general information on condition of infrastructure and owners.

Following are the definitions of functional, non-functional, and deficient infrastructure intended for this plan:

Functional: The infrastructure is serving its intended design level of service.

Non-functional: The infrastructure not providing its intended or design level of service

Deficient: The infrastructure or natural feature is in poor structural or non-structural condition and needs replacement, restoration, or rehabilitation.

While describing a deficient storm drain system or other infrastructure for an entity, RFPs shall include approximate percent deficiency of the storm drain system or the infrastructure in the description.

Regarding high hazard dams in the State, the RFPs must follow all state including the Texas Commission of Environmental Quality’s (TCEQ) confidentiality requirements associated with them.

Please refer to Exhibit D: Data Submittal Guidelines for GIS data and additional information requested for each infrastructure {3. ExFldInfraPol, 4. ExFldInfraLn, 5. ExFldInfraPt}.

RFPGs must submit information summarizing existing flood infrastructure and natural features utilizing Table 1 template provided below and the GIS geodatabase template provided by TWDB.

RFPGs must submit information summarizing proposed or ongoing flood mitigation projects {6. ExFldProjs} currently under construction, being implemented, or with dedicated funding to construct and the expected year of completion utilizing Table 2 template is provided below and the GIS geodatabase template will be provided by TWDB.

These are minimum reporting requirements however, an RFPG may present more information utilized in the development of their plan.

Table 1: Existing flood infrastructure summary table (with examples)

Existing Infrastructure ID	RFPG No.	RFPG Name	Counties	HUC8s	HUC12s ^B	Watersheds ^B	Feature Name	Infrastructure Type	Description	Natural or Constructed or Combination	Construction Date ^A	Infrastructure Dimensions ^A				
												Diameter (ft)	Height (ft)	Width (ft)	Length (ft)	Area (acre)
01000001	1	Canadian Upper Red	Flood	12090108	120901080403,120901080405	Catchment	City of Howdy Storm drain System	Storm drain systems	5,000ft of storm drainpipes of 1ft to 3ft diameter, 500 ft of constructed drainage ditches, 25 inlets.	Constructed	2005	1-3			5,000	
01000002	2	Canadian Upper Red	Flood	12090108	120901080403,120901080405	Basin	Lake Neal	Dam/Reservoir	Regional flood control reservoir with 400,000 acre-ft of storage capacity.	Constructed	1965					15,000

^A This field may be left blank during the 1st planning cycle. However, RFPGs are strongly encouraged to provide this information when applicable and available.

^B Leave blank if too many for text field length (254 characters).

Information provided in this table are imaginary example datasets utilized to depict reporting structure. RFPGs are to assess and determine the existing infrastructure in their regions.

Existing flood infrastructure summary table (continued)

Existing Infrastructure ID	Level of Service (2-year, 10-year, 25-year, 50-year, 100-year, 500-year, Unknown)	Condition (Functional, Non-functional, Unknown)	Condition Description	Deficiency (Deficient, Non-deficient, Unknown)	Deficiency Description	Owning Entity	Operating Entity	Associated FMEs ^A	Associated FMSs ^A	Associated FMPs ^A
01000001	2-year	Non-functional	1200ft of the storm drain system does not meet the City requirement of 25-year LOS.	Deficient	500ft of pipes and approximately 12% of inlets are in poor condition.	City of Howdy	City of Howdy			
01000002	500-year	Functional		Unknown	NA	River Authority	River Authority			

^A This field may be left blank during the 1st planning cycle. However, RFPGs are strongly encouraged to provide this information when applicable and available.

Information provided in this table are imaginary example datasets utilized to depict reporting structure. RFPGs are to assess and determine the existing infrastructure in their regions.