



Region 11: Guadalupe Regional Flood Planning Executive Committee Meeting

Tuesday, March 30, 2021
2:00pm

Agenda Item 1

Call to Order

1. Attendance

Agenda Item 2

Welcome

Agenda Item 3

Public General Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 4

Approval of Meeting Minutes

Approval of meeting minutes from January 25, 2021
Executive Committee meeting

Meeting Minutes
Region 11 Guadalupe Flood Planning Group Executive Committee Meeting
January 25, 2021
1:00 PM
Guadalupe-Blanco River Authority River Annex (905 Nolan Street, Seguin, TX 78155)
or
GoToWebinar Virtual Meeting

Roll Call:

<u>Executive Committee</u>	<u>Position</u>	<u>Present (x) / Absent () / Alternate Present (*)</u>
Doug Miller	<i>Chair</i>	X
John Johnston	<i>Vice Chair</i>	X
R. Brian Perkins	<i>Secretary</i>	X
Kimberly Meitzen	<i>At-Large</i>	X
Ronald Fieseler	<i>At-Large</i>	X

<u>Non-voting Member</u>	<u>Agency</u>	<u>Present(x)/Absent()/ Alternate Present (*)</u>
Sue Reilly	Texas Parks and Wildlife Department	
Natalie Johnson	Texas Division of Emergency Management	
Jami McCool	Texas Department of Agriculture	
Allen Nash	Texas State Soil and Water Conservation Board	
Kris Robles	General Land Office	
Morgan White	Texas Water Development Board (TWDB)	X
Joel Klumpp Brittney Wortham-Teakell*	Texas Commission on Environmental Quality	
Vacant	Public	

Quorum:

Quorum: **Yes**

Number of voting members or alternates representing voting members present: **5**

Number required for quorum per current voting positions of 5: **3**

Other Meeting Attendees:

Lauren Willis, GBRA (Meeting Facilitator)

Ramiro Mendoza, GBRA (IT)

Other Meeting Attendees: **

James Bronikowski

Ray Buck

Kyle Burow

Robert Christmas

Adam Conner, Freese and Nichols

Don Durden

Sara Eatman

Ben Eldredge

Daryl Fowler

Alam Gebreil

Ken Gill
Lauren Gonzales
Cecilia Green
Paula Jo Lemonds, HDR
Jonathan Letz
Michael Morrison

Melissa Reynolds
Lon Shell
Andrew Amith
Matt Nelson
Nicholas Panyard

**Meeting attendee names were gathered from those who entered information for joining the GoToWebinar meeting.

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

AGENDA ITEM NO. 1: Call to Order

Doug Miller called the meeting to order at 1:08 PM. Lauren Willis called roll of the Executive Committee members to record attendance.

AGENDA ITEM NO. 2: Welcome

Doug Miller welcomed members to the meeting.

AGENDA ITEM NO. 3: Public General comments (Public comments limited to 3 minutes per speaker)

Doug Miller provided instructions for public comments. No public comments were given.

AGENDA ITEM NO. 4: Discuss Interview Process

Doug Miller opened discussion on conducting the interviews. Lauren Willis provided the interview schedule and indicated that the same two questions would be asked of all nominees and additional questions would come from the Executive Committee.

a. Conduct interviews with nominees for voting and non-voting vacation positions.

Name	Interest Category
Ray Buck	River Authorities
Lon Shell	Counties
Daryl Fowler	Counties
Mike Morrison	Counties
Jonathan Letz	Counties
Bobby Christmas	Electric Generating
Kyle Burow	Municipalities
Ken Gill	Municipalities
Melissa Reynolds	Municipalities
Ben Eldridge	Public
Don Durden	Public

AGENDA ITEM NO. 5: Consideration of a recommendation to the Full RFPG for the appointment to fill the vacant Voting positions of River Authorities, Municipalities, Counties, and Electric Generating Utilities.

- a. Discussion, nomination and consideration of individuals to fill the River Authorities interest category position.**

Doug Miller opened the floor for discussion. Brian Perkins moved that the Executive Committee recommend Ray Buck to fill the open position in the River Authorities interest category group. The motion was seconded by John Johnston. The vote passed by consensus.

- b. Discussion, nomination and consideration of individuals to fill the Municipalities interest category position.**

Doug Miller opened the floor for discussion. Ronald Fieseler moved that the Executive Committee recommend Ken Gill to fill the open position in the Municipalities interest category group. The motion was seconded by John Johnston. The vote passed by consensus.

- c. Discussion, nomination and consideration of individuals to fill the Counties interest category position.**

Doug Miller opened the floor for discussion. Kimberly Meitzen moved that the Executive Committee recommend Lon Shell to fill the open position in the Counties interest category group. The motion was seconded by Ronald Fieseler. The vote passed by consensus.

- d. Discussion, nomination and consideration of individuals to fill the Electric Generating Utilities interest category position.**

Doug Miller opened the floor for discussion. Ronald Fieseler moved that the Executive Committee recommend Bobby Christmas to fill the open position in the Electric Generating Utilities interest category group. The motion was seconded by Brian Perkins. The vote passed by consensus.

AGENDA ITEM NO. 6: Consideration of a recommendation to the Full RFPG for the appointment to fill the vacant Non-Voting member position in the Public Interest group.

- a. Discussion, nomination and consideration of individuals to fill the Public interest category position.**

Doug Miller opened the floor for discussion. Brian moved that the Executive Committee recommend Don Durden to fill the open position in the Public interest category group. The motion was seconded by John Johnston. The vote passed by consensus.

AGENDA ITEM NO. 7: Public General comments (Public comments limited to 3 minutes per speaker)

No public comments were given.

AGENDA ITEM NO. 8: Adjourn

Brian Perkins made a motion to adjourn. The motion was seconded by Ronald Fieseler. The motion passed by unanimous consent.

The meeting adjourned at 4:57 PM by Doug Miller.

Approved by the Region 11 Guadalupe Executive Committee at a meeting held on March 30, 2021.

Brian Perkins, SECRETARY

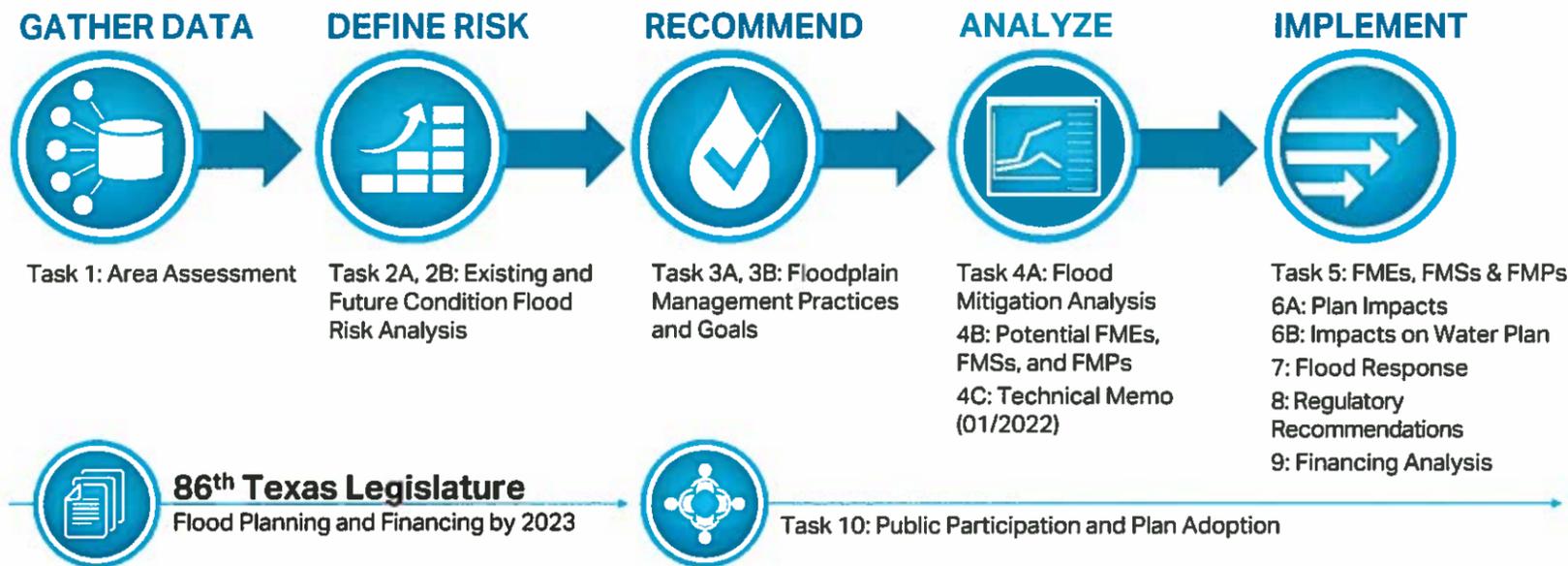
Doug Miller, CHAIR

Agenda Item 5

Discussion, evaluation and action concerning the technical consultant procurement for Region 11 Guadalupe Regional Flood Planning Group

- a. Potential presentations by technical consulting firms
- b. Discussion and evaluation of Statement of Qualifications in response to the RFQ
- c. Consideration of a recommendation to the full RFPG for a selection of a technical consultant to provide services for the development of a regional flood plan for Region 11 Guadalupe RFPG

OUR LOCAL EXPERIENCE GIVES YOU A TEAM READY TO START ON DAY 1



The graphic flowchart above outlines AECOM's proposed Workplan for the Region 11 RFP aligned with the Attachment B Scope of Work and TWDB Tasks 1-10. Our understanding of the TWDB planning process and the Guadalupe Basin gives your project a head start.

Our workplan for the Guadalupe Basin RFP is based on the uniqueness of the region. The region is characterized by urbanization upstream in Hays, Comal, and Guadalupe Counties with expansive agricultural land in the downstream areas, such as those in Gonzales and Dewitt Counties. The current population of the study areas is expected to grow by 30% by 2025, increasing future development and stormwater runoff potential. Understanding the region's diversity of socioeconomic, hydrologic, climatic, and natural characteristics will be key to the development of the region's comprehensive flood plan.

PROVEN COMMUNITY ENGAGEMENT AND OUTREACH



Our approach to communications will be strategic, targeted, measurable, and centered on the issues, opportunities, and milestones important to the RFPG and GBRA.

Public Stakeholder Coordination. Our team offers a unique hybrid approach for conducting public meetings and outreach activities. We will work closely with the RFPG members during the development of the stakeholder outreach plan for the study. It's important for stakeholders to see a tangible benefit for their participation.

Engaging community leadership and key stakeholders is a critical step in assessing flood vulnerability and underlying causes, as well as collecting important data.

AECOM values public comment and participation and will initiate the outreach as soon as the RFPG authorizes.



AECOM's interactive web-based tool lets you engage and consult stakeholders from their computer and mobile devices. By providing a hybrid approach to community engagement, this tool specially developed by AECOM allows clients to engage with a broader audience who cannot attend in-person meetings.

THE NO RISK SOLUTION FOR THE GUADALUPE REGIONAL FLOOD PLANNING GROUP



PROVEN EXPERIENCE

AECOM received a rating of 10/10 in schedule adherence, budget adherence, quality, and overall team satisfaction from the TWDB on 12/7/20 for CTP Program Assistance 2018-2019.

“

[AECOM] completed all work on time or ahead of schedule... followed up on all of the questions arising at the table discussions at the open house in coordination with the Region.”

FEMA survey regarding Hays County Project

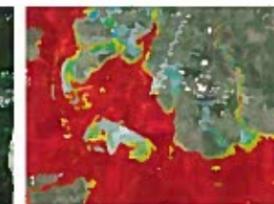
We understand that while the primary flood challenges are located along the Guadalupe River and Dam maintenance, smaller communities also face unaddressed challenges. Small tributaries and the San Marcos River are a frequent source of damages.



KERR COUNTY
2002 Quinlan Creek Flood in Kerrville



KENDALL COUNTY
1998 Comal and Dry Comal Creek Flooding



DEWITT COUNTY
Gohlke Creek and tributary flood damage to the City of Cuero



VICTORIA COUNTY
Whispering Creek and Spring Creek

AECOM OFFERS A TEAM WITH EXTENSIVE TROPICAL STORM EXPERIENCE HAVING LED THE FLOODING STUDIES OF THE ENTIRE TEXAS COASTLINE

Successful Track Record of Collaborating Together:

- AECOM, K Friese, and Torres are partners on a TWDB Flood Planning Project
- AECOM and Michael Baker collaborated for 10+ years on FEMA projects including those in the Guadalupe Region

State Leaders in Flood Planning Experience (TWDB and Guadalupe Region)

- Knowledge of Dam Calibration on the Guadalupe, Karst Hydrology, Split Flows on the San Marcos River, Overflows of flooding from one basin to another, joint coastal/riverine near Victoria and Water Resources in Guadalupe Region

PROVEN GUADALUPE REGION WATER PLANNING/MODELING EXPERIENCE

WATERSHED PLANNING STUDIES

AECOM successfully served as San Marcos's consultant for a large flood mitigation project and identified a low-cost solution to mitigate nuisance flooding through a combined surface flooding and storm water network analysis.

AECOM's subconsultant K Friese + Associates brings unique experience and understanding to flood planning and policy at the local level. They specialize in exclusively serving the public sector providing city engineering, stormwater design development reviews, and floodplain administration services for such entities as New Braunfels, Woodcreek, Kyle, Bastrop, Hays County, and Travis County.

FEMA: Texas and Nationwide Production and Technical Support (Compass). AECOM led the FEMA coastal study and GLO coastal resiliency including all of the Guadalupe coastal watershed. AECOM lead TWDB and FEMA Base Level Engineering covering the majority of watershed (Dan Zell led the San Marcos, Blanco, and Guadalupe River Revisions)

TWDB Statewide Flood Planning and Guidance Development. AECOM led development of guidance for regional flood planning groups.



San Marcos Infrastructure Feasibility Study. Dan Zell's proposed flood mitigation solution was unanimously approved by council.

Texas GLO West Region Flood Studies. AECOM leads the West Region studies (including most of the Guadalupe Basin). We will seek synergies between the two projects.

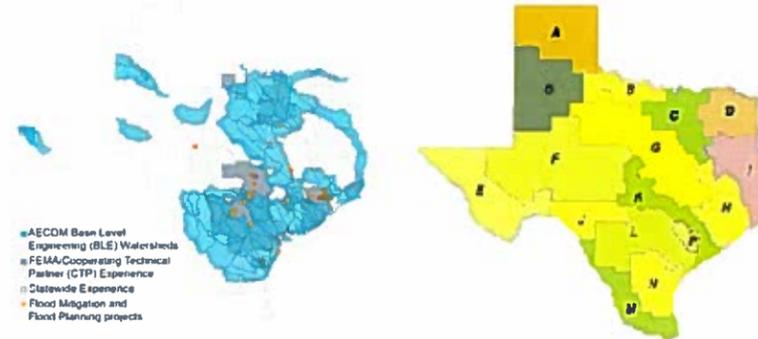
Upper Brushy Creek Flood Protection Plan. Identified creek flooding concerns throughout the watershed, prioritized them, and developed mitigation alternatives. Developed consensus among stakeholders to prioritize projects for implementation. Ruth Haberman led this project.

PROVEN STATEWIDE WATER PLANNING/MODELING EXPERIENCE

AECOM is a proven leader in Flood Risk Planning. Having studied watersheds statewide, we provide unparalleled experience in providing thoughtful consensus-based solutions.



The AECOM Team leverages our experience developing FEMA flood risk products. The areas shown are where AECOM led activities (current/future risk and mitigation opportunities). The AECOM team modeled all 6,500 stream miles of the Guadalupe Basin and the entire coastline.



Texas Experience in Base Level Engineering (BLE), FEMA, Cooperating Technical Partners (CTPs) such as San Antonio River Authority, and State-wide identifying risks and developing plans to mitigate those risks.

AECOM has a wealth of knowledge on how Regional Water Planning works in Texas and understands that the regional flood planning has been modeled after the regional water planning process.

Since regional water planning began in Texas in 1998, the AECOM team has been a lead consultant for 4 of the 16 regional water planning groups in the state: Region H - San Jacinto, Lower Trinity and Brazos Basins; Region K - Lower Colorado River Basin; Region P- Lavaca/Navidad River Basins; Region M - Lower Rio Grande.

THE AECOM TEAM: THOUGHTFULLY ASSEMBLED FOR REGION 11'S UNIQUE NEEDS



Elizabeth Levitz, PE, PMP, CFM
Principal in Charge (AECOM)
Study Expertise in existing and future conditions analysis of riverine flood hazards. Led Lower Guadalupe FEMA Base Level Engineering Study. PM for General Land Office Basin Project West Region, \$25M, that includes the Guadalupe Basin.



Susan Roth, PE, PMP
Public Outreach and Participation (Susan Roth)
Leading the TWDB Regional Drainage Master Plan for Nueces, Jim Wells and Kleberg Counties. Extensive TWDB water planning expertise including Grant Funding. Outreach to marginalized and smaller flood-prone communities. Prior experience as Lower Colorado River Authority senior engineer.



Dan Zell, PE, PMP, PGMP, CFM, D.WRE
Project Manager (AECOM)
Led 5 Large projects in the Guadalupe Basin: 1) San Marcos Infrastructure Feasibility Study for Flood Reduction 2) FEMA Guadalupe Basin Base Level Engineering (entire basin) 3) FEMA Guadalupe River 4) FEMA Post Flood updates to San Marcos and Blanco Rivers 5) FEMA Updates to Hays, Caldwell, Gonzales, and Guadalupe Counties. Deputy PM for General Land Office Basin Project.



Abe Salinas, PE, CFM
Water Districts (K Friese + Associates)
Experience in serving municipalities, counties and cities within the Guadalupe Basin watershed for stormwater master planning, flood studies, dams, policy guidance, and city engineering services. Serves on the Edwards Aquifer Authority Board of Directors. TFMA board-elect for secretary and has served such communities as New Braunfels, Kerrville, Kyle, San Marcos, Umland and Woodcreek.



Monica Wedo, PE
Assistant PM/
Project Planner (AECOM)
An expert in hydrology and hydraulics and dams with experience in emergency action plans, dam adequacy analysis, flood control analysis and planning, and final design. Experience in TWDB's state flood plan. Experience in the Upper Brushy Creek WCID and for the San Antonio River Authority on Leon and Medio Creeks that have similar hydrology characteristics to the Guadalupe River.



Jacob Torres, PE, CFM
Existing Flood Hazards (Torres & Associates) Known in the technical community for his professional work in hydraulics and as a part-time professor at Texas A&M. Dr. Torres is a sought after subject-matter expert for hydraulic modeling, and is an expert in storm water management and regional infrastructure planning. Expertise in flood damage modeling and sediment transport. Subject Matter Expert for Dam Improvement Projects including 1 and 2 dimensional models and flood frequency analysis.



Ruth Haberman, PE, CFM
Regional Flood Planning (K Friese + Associates)
Expertise in stormwater management. Project manager for a major Watershed Study, Flood Protection Plan, and Risk MAP Flood Study. Her role included TWDB grant management, consultant procurement, stakeholder coordination, analysis, consensus building, project evaluation, and FEMA coordination for one of the fastest growing regions in the nation.



Mohamed Amin Bagha, PE, PMP, CFM
Floodplain Regulations/
Watershed Master Planning (Michael Baker) Partnered with AECOM to support FEMA in flood mitigation focused outreach and risk analysis. Knowledge of effective regulatory measures and watershed master planning. Experience in Guadalupe, Caldwell, Gonzales and Fayette Counties. Developed flood risk mitigation projects along Town Branch in Caldwell County. Outreach work to advocate for sound floodplain management as the Region 8 Director.

WHY THE FNI TEAM?

Region 11
Guadalupe
Regional Flood
Planning Group
Regional Flood Plan
for Region 11 Flood
Planning Area



Committing Resources

Dedicated, Local Leadership • Right-Sized Team • Planning Resources Available

Guadalupe Regional Flood Planning Group

QUALITY PROGRAM MANAGER Krista Bethune Melnar, PE, CFM, PMP ¹	PROJECT MANAGER Jay Scanlon, PE, CFM, ENV SP ¹	PRINCIPAL-IN-CHARGE Drew Hardin, PE ¹
	ASSISTANT PROJECT MANAGER Adam Conner, CFM, PMP ¹	
DATA COLLECTION Kim Patak, PE, CFM, ENV SP ¹ Eric Scheibe, PE, CFM ⁴ (Flood Data) Brian King, GISP, RPA, CFM ¹ (GIS)	FLOOD RISK ANALYSIS & MITIGATION STRATEGIES Daniel Harris, PE, CFM ⁴ Colin Slagle, PE, GFM ² (H&H) Cecilia Green ³ (Environmental) Tina McMartin, PE ¹ (Structures) Heather Ferrara, MCP ⁵ (HMP)	POLICY AND REGULATIONS Tom Hegemier, PE, CFM, D.WRE ² Chance Sparks, AICP, CNU-A ¹ (Land Use) Mark Evans ¹ (Funding) Velma Danielson ³ (Edwards Aquifer)
OUTREACH Velma Danielson ³ Laura Atlas ⁵ Elizabeth Russell, CSPO ⁵	SENIOR ADVISORS Duke Altman, PE, CFM ² Jo Ann Howard, JD, MA ⁵	FUNDING/GRANT ADMINISTRATION Mark Evans ¹ (State) Heidi Watson, MS ⁵ (Grant Admin)

Task Leaders are identified in bold.

GUIDE TO FIRMS: 1-Freese and Nichols, Inc.; 2-Doucet and Associates, Inc.; 3-Blanton & Associates, Inc.; 4-Scheibe Consulting, LLC; 5-H2O Partners, Inc.

Our Texas-based FNI team has:



Driving the Schedule

End Game in Mind • Increasing Efficiencies • Proven Regional Planning Success

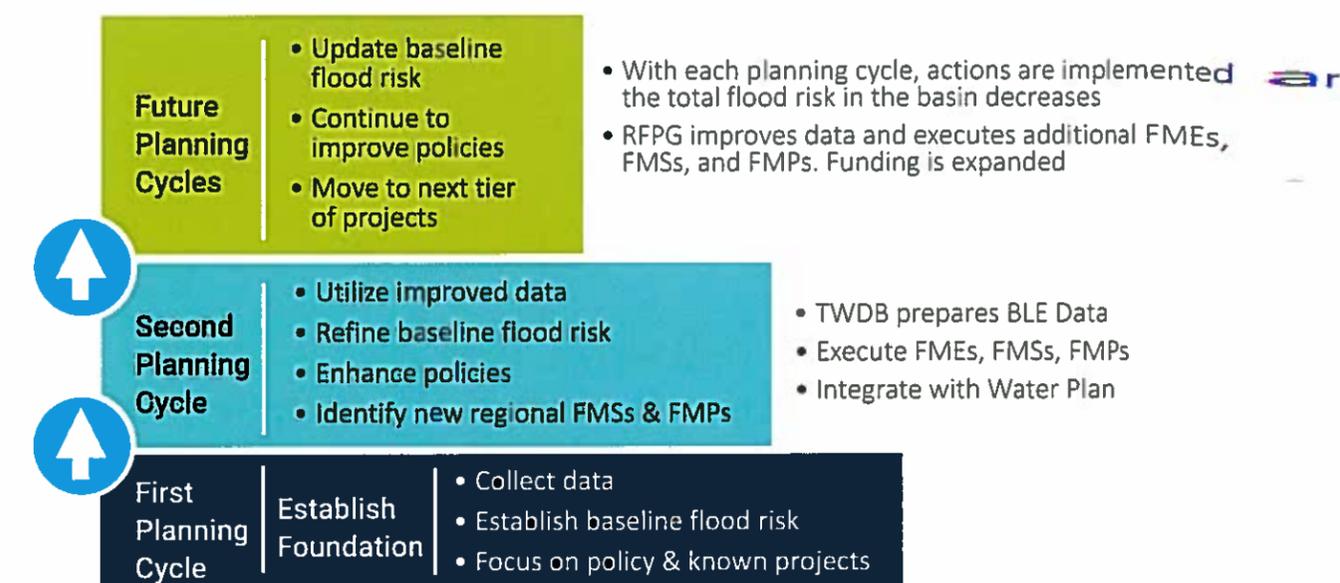
MAR-MAY 2021	JUN-OCT 2021		OCT-DEC 2021	TM	JAN-AUG 2022			DRAFT RFP
TASK 1 Data Collection/Description of Region	TASK 2A Existing Conditions Flood Analysis	TASK 2B Future Conditions Flood Analysis	TASK 4A Flood Mitigation	TASK 4B Identification and Evaluation of	TASK 5 Recommend	TASK 6A Impacts of Regional Flood Plan	TASK 6B Impacts to State Water Plan	Draft GRFPG Regional Flood Plan for State Review
	TASK 3A Evaluate and Recommend Floodplain Management Practices	TASK 3B Floodplain Mgmt Goals	Needs Analysis	FMEs, FMSs and FMPs	FMEs, FMSs and FMPs	TASK 7 Flood Response	TASK 8 Regulatory & Legislative Recommendations	
						TASK 9 Flood Infrastructure Financing		
TASK 10 Stakeholder Outreach and Plan Adoption								

■ Data Collection and Outreach ■ Flood Risk Analysis and Mitigation Strategies ■ Flood Policy and Regulations



Managing Expectations

Document/Outreach Understanding • Building a Foundation • Forward Thinking



Dedicating Our Leadership



Leveraging Experience

Jay Scanlon, PE, CFM, ENV SP | Project Manager

- ✓ 29 years of experience
- ✓ Technical Project Manager with career focused on planning, design and implementation of flood mitigation projects
- ✓ Experience managing large-scale and local flood planning and mitigation, including both structural and nonstructural solutions
- ✓ Understands end-users' needs of the data for flood education, planning and mitigation

Adam Conner, CFM, PMP | Assistant Project Manager

- ✓ 12 years of experience
- ✓ Ample experience with TWDB Regional Water Planning protocols, having served as Assistant Project Manager for the Panhandle Water Planning Group (Region A)
- ✓ Significant water planning in Texas
- ✓ Practitioner of industry standard in project management
- ✓ Strong knowledge of capital improvements planning process

Daniel Harris, PE, CFM | Task Lead: Flood Risk Analysis & Mitigation Strategies

- ✓ 16 years of experience
- ✓ Extensive region-wide experience having served as the PM for the GBRA Flood Protection Planning Study of the entire basin
- ✓ In-depth background knowledge of numerous flood protection planning projects already evaluated basin-wide by GBRA and the TWDB
- ✓ Has a long working relationship with numerous conservation districts and drainage districts within the region, including the Plum Creek Conservation and Reclamation District

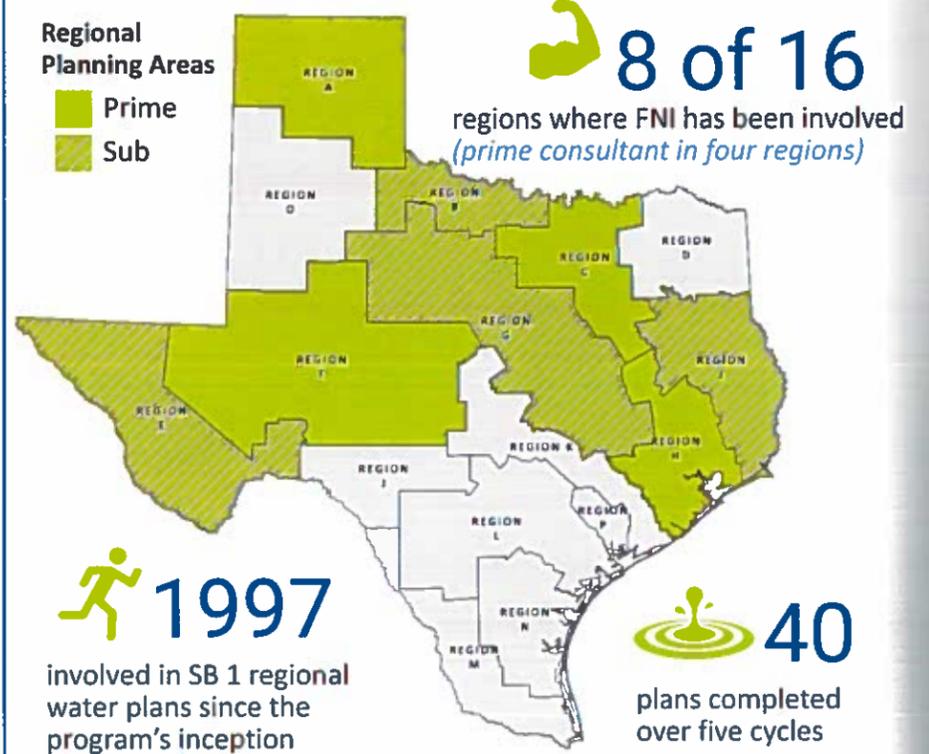
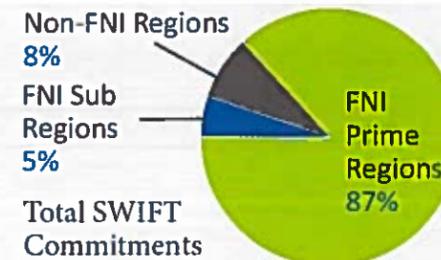
Velma Danielson | Task Lead: Outreach

- ✓ 30 years of experience
- ✓ Experience in management of environmental assessment projects and project teams that provides a strong foundation for the Senior Advisor, Planning project role
- ✓ Experience working with entities managing groundwater in the Guadalupe River Basin who are key players in this region
- ✓ Based in San Antonio and familiar with the environmental challenges of, and issues unique to, the Guadalupe River Basin Region

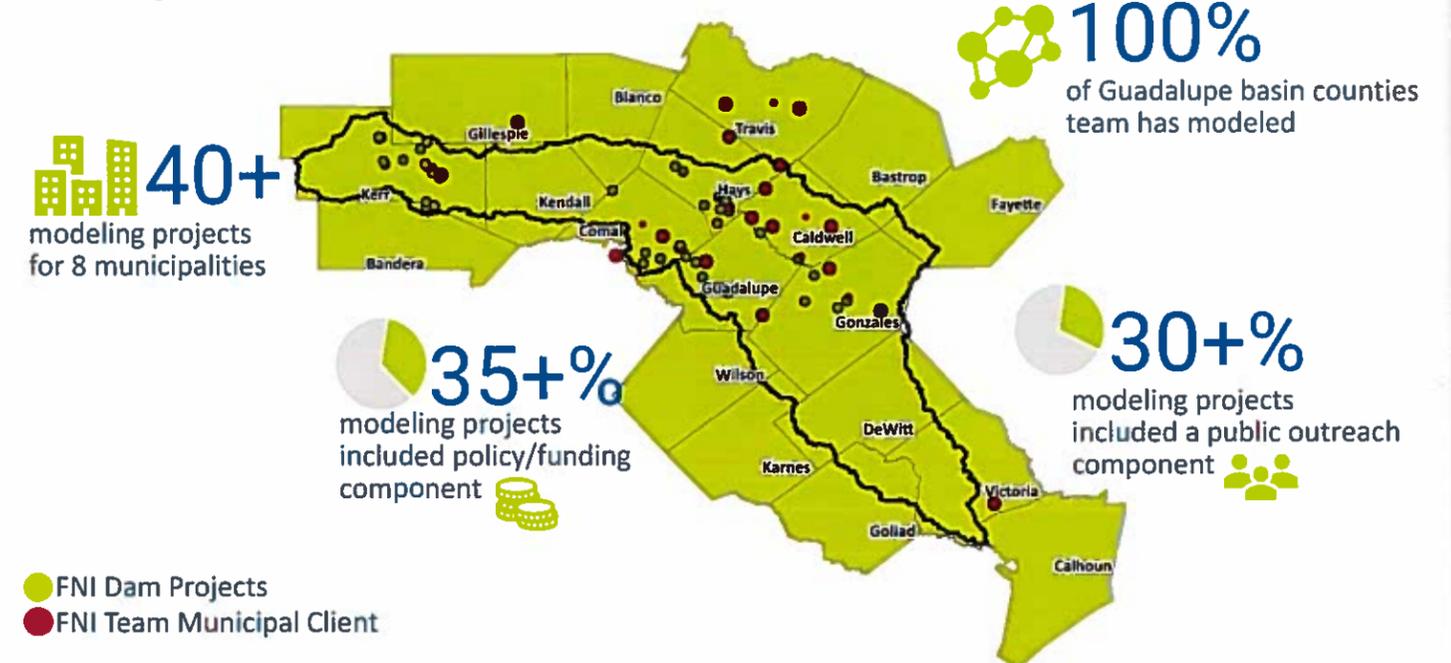
Connecting Projects to Funding

Leveraging the best of regional water planning:

- Engage the planning group. Utilize subcommittees and empower members to promote the process.
- Engage the stakeholders. Hold in-person meetings with the major stakeholders.
- Engage the public. Work with the GRFPG to setup a website to disseminate information and collect input.
- Regular coordination. Work together with the GRFPG chair and the political subdivision to stay on schedule and address upcoming meetings.



Building RFP Success with Existing Knowledge



This document contains FNI confidential and proprietary information, as well specific project data. We ask that before posting our documents publicly to wait until after all 15 regional flood plan groups have been awarded. For questions, please reach out to the FNI contact listed on the SOQ cover letter.



REGIONAL FLOOD PLAN

for

GUADALUPE RIVER BASIN

FLOOD PLANNING AREA



March 30, 2021

THE HALFF+HDR TEAM



JOSH LOGAN, PE, CFM

Project Manager

- 20+ years experience
- Flood analysis, planning, design
- 8 local MDP in last 4 years
- FEMA, TWDB, GBRA experience



MIKE MOYA, PE, CFM

Principal-in-Charge

- 35+ years experience
- Flood analysis, planning, design
- 20 TWDB FPP Studies
- 6 FEMA CTP Programs
- Project Principal on GBRA IFS Study



PAULA JO LEMONDS, PE, PG

Asst. Project Manager

- Guadalupe Basin native
- 20+ years experience
- Water planning and design
- Region 0 and Region L Water Plans
- Water Conservation Expertise



JILL TREVINO, PE, CFM

FMP Task Lead

- Guadalupe Basin native, based in Victoria
- 15+ years experience
- Flood mitigation
- Unique understanding of Victoria and Lower-Basin communities



BENEFITS OF THE HALFF+HDR TEAM



**Unmatched Flood Planning Knowledge
of the Guadalupe River Basin**



TWDB Processes and Funding



**Specific Experience for Key
Issues of the Guadalupe Basin**



UNMATCHED FLOOD PLANNING KNOWLEDGE

GBRA IFS STUDIES

PHASE 1

- **Mainstems:** Blanco, San Marcos and Guadalupe Rivers
- **Tributaries:** Luling & Woodcreek

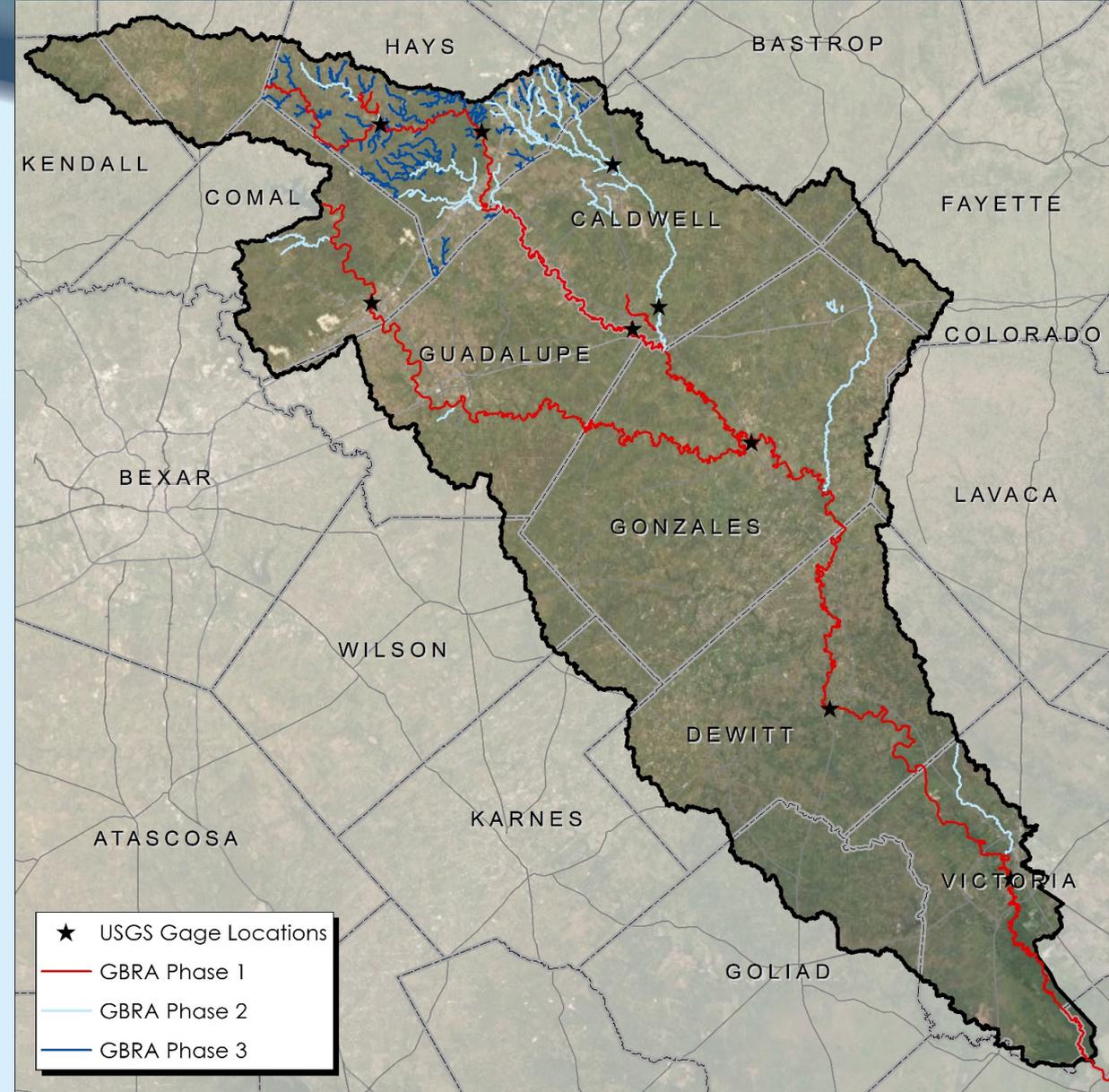
PHASE 2

- **Mainstem:** Blanco River and San Marcos confluence added detail
- **Tributaries:** San Marcos, Kyle, Lockhart, Seguin, and Victoria
- **Dams:** York Creek, Upper San Marcos River, and Plum Creek watersheds

PHASE 3

- **Tributaries:** Hays County

THIS FLOOD PLANNING & FLOOD RISK KNOWLEDGE WILL BE VITAL TO MEETING THIS CHALLENGING SCHEDULE.



UNMATCHED FLOOD PLANNING KNOWLEDGE

SUBSEQUENT STUDIES

1. INFRM
2. SAN MARCOS
3. HAYS COUNTY
4. KYLE
5. TWDB CTP
6. FEMA



UNMATCHED GUADALUPE BASIN KNOWLEDGE

GUADALUPE BASIN FACTS & NUMBERS

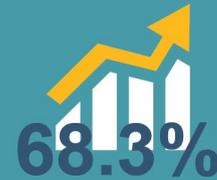


2020 POPULATION



601,923

Population Growth 2020
to 2050



1% FLOODPLAIN

901
square miles



64
Letters of Map Revisions

FLOOD INSURANCE

6,564 policies



2,943 total claims
\$135.7 million
total value of claims

STREAM MILES

903 miles of detailed
study streams

5,531 CNMS Stream Miles



1,085
undocumented miles

DAMS



116 regulated dams

99 unregulated or
unknown dams

AVERAGE AGE OF FIRMS



03/13/2011
average date of
previous FIRMs

TWDB PROCESSES & FUNDING

HALFF+HDR UNDERSTANDING OF TWDB PROCESSES

- TWDB State Flood Assessment
- TWDB CTP
- 30 Flood Prevention Planning (FPP) projects for local communities
- 1st to use CWSRF for Drainage Improvements
- Regional Water Planning (Including Region L)
- SWIFT Funding (including GBRA)

GUADALUPE-BLANCO RIVER AUTHORITY

Carrizo Groundwater Supply Project

GBRA approved for up to \$212,955,000 in SWIFT funding for planning, design, land acquisition, and construction



HALFF'S EXPERIENCE WITH FLOOD MITIGATION FUNDING

FLOODING MITIGATION FUNDING ALTERNATIVES							
	NON-DISASTER FUNDING				DISASTER FUNDING		
Funding source	PDM/BRIC ¹	FMA	CWSRF	FIF ³	CDBG-MIT	CDBG-DR	HMGP
Funding agency	FEMA	FEMA	EPA	TEXAS	HUD	HUD	FEMA
Administered by	TDEM	TWDB	TWDB	TWDB	GLO	GLO & TDA	TDEM
ELIGIBLE PLANNING ACTIVITIES							
Hazard mitigation planning	✓ ²	✓	✓	✓	✓		✓
Planning (H&H studies, alt. analysis, BCA)			✓	✓	✓	✓	✓
Engineering design	✓	✓	✓	✓	✓	✓	
ELIGIBLE MITIGATION ACTIVITIES							
Levees, flood walls or related infrastructure	✓		✓	✓	✓		✓
Regional detention and/or retention basins	✓	✓	✓	✓	✓	✓	✓
Local detention and/or retention basins	✓	✓	✓	✓	✓	✓	✓
Local drainage improvements	✓	✓	✓	✓	✓	✓	✓
Local channel conveyance improvements	✓	✓	✓	✓	✓	✓	✓
Roadway bridges, culverts and pipes	✓	✓	✓	✓	✓	✓	✓
Floodplain development ordinances				✓	✓		✓
Property buyouts or relocations	✓	✓	✓	✓	✓	✓	✓
Property elevation	✓	✓	✓	✓	✓	✓	
Reconstruction of noncompliant structures			✓				
Flood-proofing and/or flood retrofits	✓	✓	✓		✓	✓	✓
Flood awareness training and/or education	✓		✓	✓	✓		✓
Flood warning system	✓		✓	✓	✓		✓

TWDB PROCESSES & FUNDING

REGION L WATER PLANNING

SOUTH-CENTRAL TEXAS REGIONAL WATER PLAN

- 2001 (first ever)
- 2006
- 2011
- 2016

FLOOD PLANNING	vs.	WATER PLANNING
Watersheds		Political Boundaries
Risk-Based		Need-Based
Urbanization		Population Growth
Resilience		Conservation
Funded by Disaster Recovery		Funded by Revenue-Producing Projects

TWDB FLOOD PLANS	TWDB WATER PLANS
Define Planning Area	✓ Define Planning Area
 Flood Risk Analyses Current and Future	✓ Population and Demands Current and Future
Floodplain Management Practices Evaluation, Recommendations and Goals	✓ Water Conservation Practices Evaluation, Recommendations and Goals
Needs Analyses (Flood Mitigation)	✓ Needs Analysis (Water Requirements)
 Identify Potentially Feasible Strategies Flood Management, Projects and Flood Management Evaluations	✓ Identify Potentially Feasible Strategies Water Management
Technical Memo (Mid-cycle)	✓ Technical Memo (Mid-cycle)
 Recommendation of Flood Management Evaluation, Strategies, and Projects	✓ Evaluations of Water Management Strategies and Projects
Impacts (Regional Flood Plan)	✓ Impacts (Regional Water Plan)
Contributions to Water Supply Development and State Water Plan	✓ Consistency with Protection of State Resources
Flood Response Information and Activities	✓ Drought Response Information and Activities
Regulatory/Legislative Recommendations	✓ Regulatory/Legislative Recommendations
Infrastructure Financing Analysis Flood Plan	✓ Infrastructure Financing Analysis Regional Water Supply Plan
 Public Participation and Plan Adoption	✓ Public Participation and Plan Adoption

SPECIFIC BENEFITS

FLOOD RISK ANALYSIS AT MULTIPLE SCALES

Basin-Wide Studies Of Major River Systems In Texas

- Lower Guadalupe
- San Antonio
- Lower Colorado
- Trinity
- Lower Brazos
- San Bernard

Halff Is A FEMA Region VI Contractor

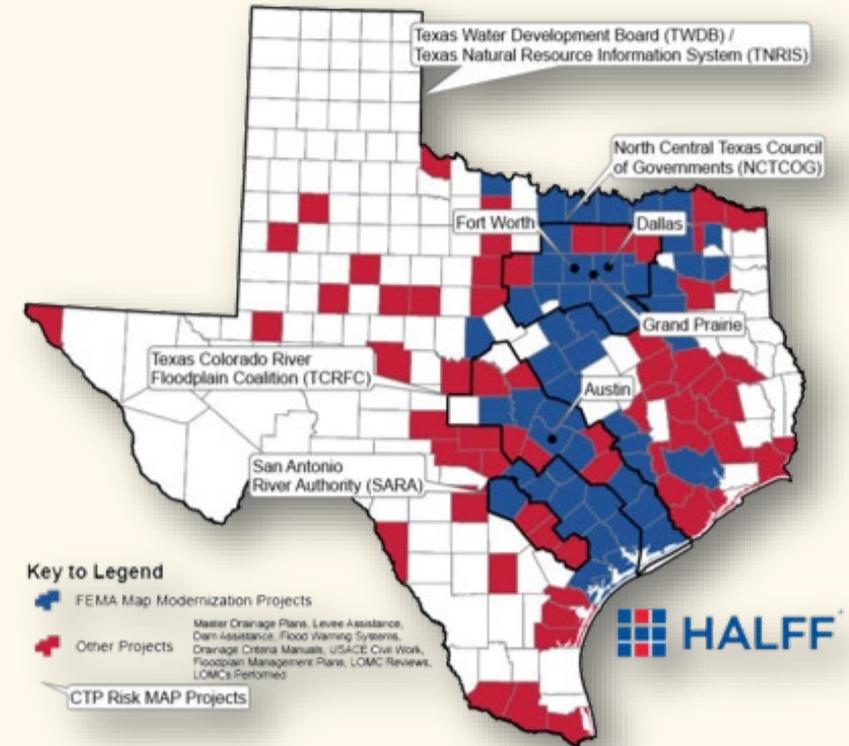
- 1D BLE
- 2D BLE
- Limited Detail Studies
- Detailed H&H Studies
- FEMA MapMod
- RiskMAP

Studies

- 30 FPPs
- 200+ Local/Regional Master Drainage Plans
- EVERY CTP in the State of Texas

Clients

- FEMA
- USACE
- TWDB
- GLO
- TDEM
- TPW
- Counties
- Cities
- Private Development

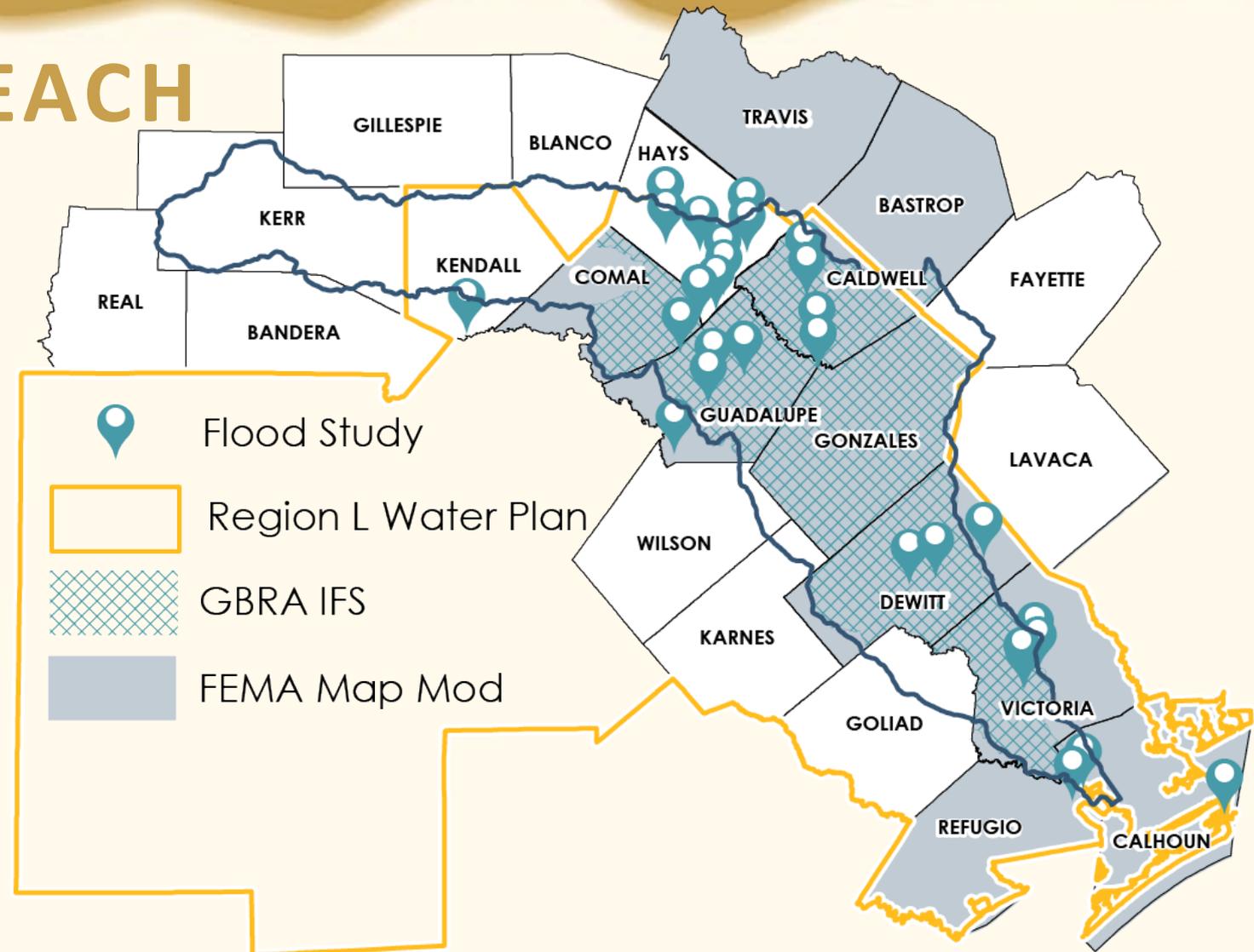


Halff has studied more than 50 major basins in Texas, encompassing approximately 70% of the State's population

SPECIFIC BENEFITS

COMMUNITY OUTREACH

- New Braunfels
- San Marcos
- Lockhart
- Kyle
- Buda
- Mountain City
- Niederwald
- Uhland
- Wimberley
- Woodcreek
- Seguin
- Luling
- Gonzales
- Cuero
- Victoria
- ...and many more

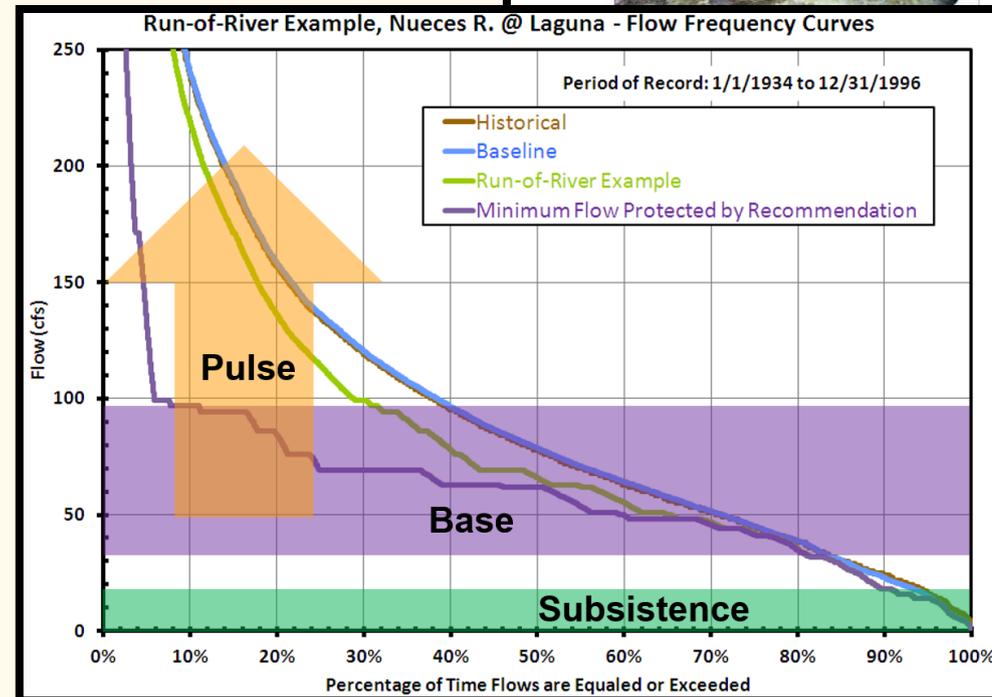


SPECIFIC BENEFITS

ENVIRONMENTAL PLANNING

- Environmental Effects Of Regional Water Plan Implementation
- Environmental Flow Standards For Guadalupe – San Antonio River Basin And Guadalupe Estuary Pursuant To SB3
- Edwards Aquifer Habitat Conservation Plan
- Cumulative Effects Assessment Tool

Evaluation of Water Management Programs and Alternatives for Springflow Protection of Endangered Species at Comal and San Marcos Springs



gram



WHY THE HALFF+HDR TEAM



**UNMATCHED FLOOD
PLANNING KNOWLEDGE**
of the
GUADALUPE BASIN



**TWDB PROCESSES
and FUNDING**



**SPECIFIC EXPERIENCE
FOR KEY ISSUES *of the*
GUADALUPE BASIN**

Halff has been studying this basin for 10+ years and HDR has worked on the water planning side with the same communities. **THIS HEADSTART/INSTITUTIONAL KNOWLEDGE WILL BE VITAL TO MEETING THIS CHALLENGING SCHEDULE.**

DRAFT SCHEDULE

1ST DELIVERABLE: TECH MEMO

- Chapters 1&2: Kelsey Cayeros, PE, CFM
- Chapter 3: Jill Trevino, PE, CFM
- Chapter 4: Scot Laun, PE, CFM

2ND DELIVERABLE: REGIONAL FLOOD PLANNING DOC

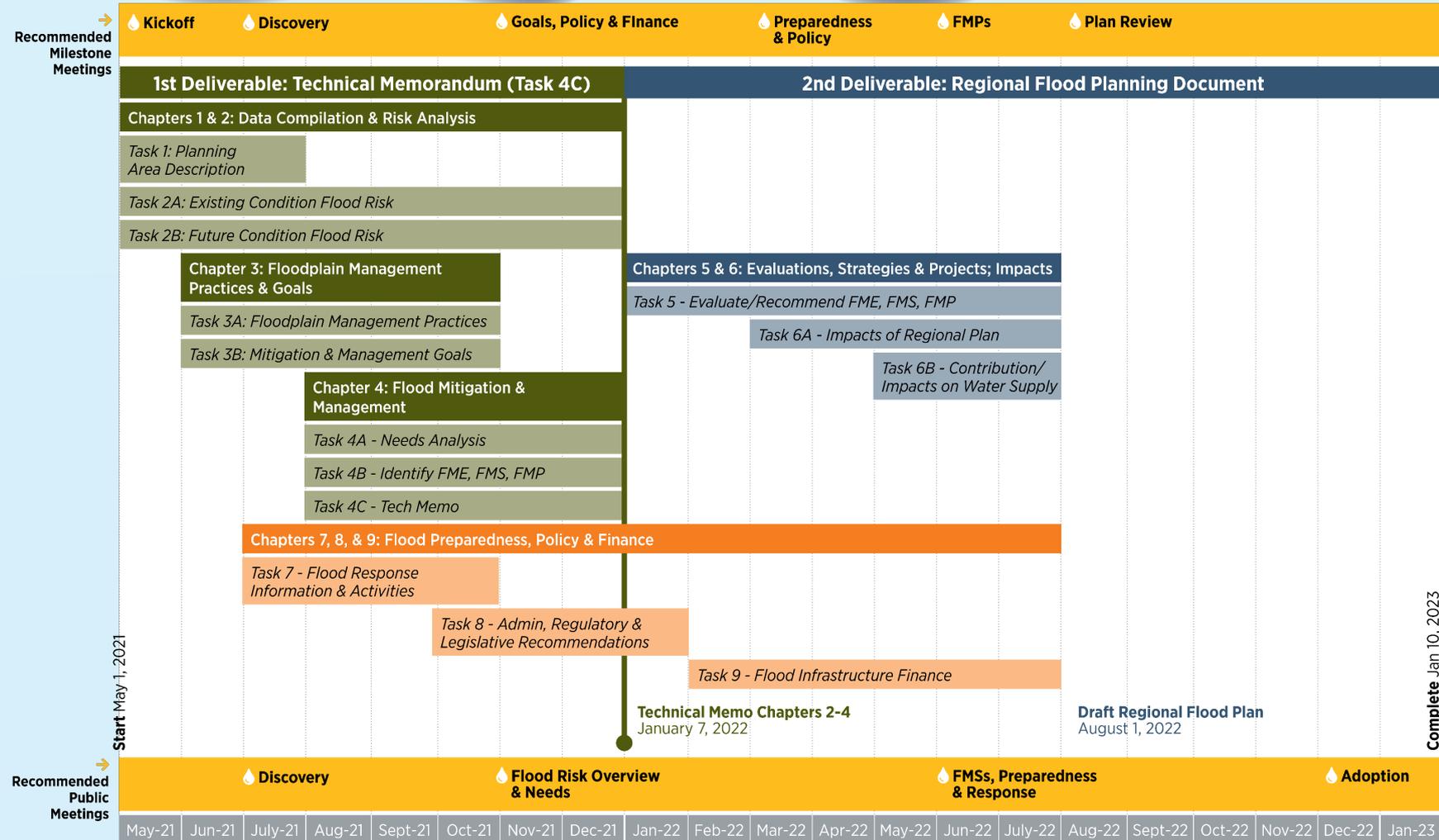
- Chapter 5: Scot Laun, PE, CFM
- Chapter 6: Zach Stein, PE, CFM

INDEPENDENT CHAPTERS

Josh Logan, PE, CFM
Paula Jo Lemonds, PE, PG

COMMUNICATIONS

Jim Carrillo, FAICP, PLA



ORGANIZATIONAL CHART

EXPERIENCED LEADERSHIP

KEY TASK / CHAPTER LEADS WITH MULTIPLE, STRATEGIC ROLES

1st Deliverable: Technical Memorandum (Task 4C)

“Where are we right now?”

2nd Deliverable: Regional Flood Planning Document

“Where are we going?”

UNIQUE/INDEPENDENT CHAPTERS

- Developed concurrently

DEDICATED OUTREACH TEAM WORKING THROUGHOUT THE PROCESS



1st Deliverable: Technical Memorandum (Task 4C)

CHAPTERS 1 & 2: DATA COLLECTION AND FLOOD RISK ANALYSIS

Kelsey Cayeros, PE, CFM¹

Task 1: Planning Area Description

Brian McNamara, GISP¹, Patricia Burros, CFM¹

Task 2A: Existing Conditions

Katie Lewis, PE, CFM¹

Task 2B: Future Conditions

Sunit Deo, PE, CFM², Nathan Clements²

CHAPTER 3: FLOODPLAIN MGMT PRACTICES & GOALS

Jill Trevino, PE, CFM³

Task 3A: Practices

Jill Trevino, PE, CFM³

Task 3B: Goals

Matt Bucchini, AICP, LEED GA¹

CHAPTER 4: FLOOD MITIGATION NEEDS ANALYSIS

Scot Laun, PE, CFM¹

Task 4A: Needs (Gap Analysis)

Kelsey Cayeros, PE, CFM¹

Task 4B: ID and Eval. of Potential FMEs, FMS, & FMPs

Bryan Martin, PE, CFM¹, Alan Stanton, PE¹
Derek Whitman, PE, CFM¹



2nd Deliverable: Regional Flood Planning Document

CHAPTER 5: RECOMMENDATIONS

Scot Laun, PE, CFM¹

Task 5A: FMEs

Kelsey Cayeros, PE, CFM¹

Task 5B: FMSs

Troy Dorman, PhD, PE, CFM,
ENV SP¹

Task 5C: FMPs

Alan Stanton, PE¹
Ron Branyon, PE, CFM²

Eric Stewart, PE, CFM²

CHAPTER 6: POTENTIAL IMPACTS

Zach Stein, PE²

Task 6A: Benefits

Jill Trevino, PE, CFM³

Task 6B: Synergy with Water Plan

Sam Vaughn, PE²
Mike Personett¹

INDEPENDENT CHAPTERS

Josh Logan, PE, CFM¹, Paula Jo Lemonds, PE, PG²

Task 7: Flood Response Information & Activities

Kimberly Miller, AICP¹
Jenna Rao, PE, PG²

Task 9: Flood Infrastructure Financing Analysis

Peter Newell, PE²
Bryan Martin, PE, CFM²
Mike Moya, PE, CFM¹

Task 8: Admin., Reg., and Legis. Recommendations

Mike Personett¹
Sam Vaughn, PE²



COMMUNICATIONS OUTREACH

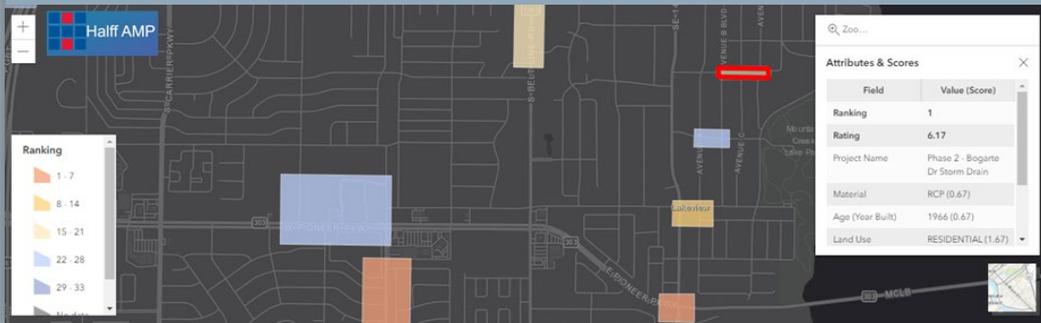
Jim Carrillo,
FAICP, PLA¹

Task 10: Communications
Arin Gray⁴

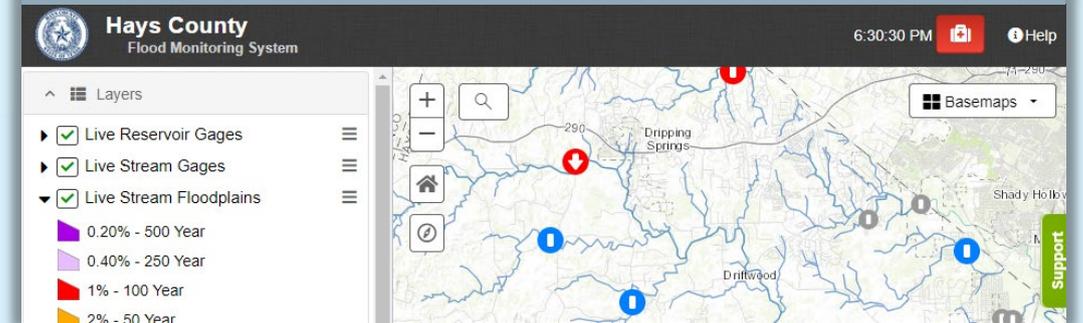
Task 10: Multi-Media
Elisa Leichy⁴

HALFF'S TOOLS & MODELS

ASSET MANAGEMENT PRIORITIZATION TOOL (AMP)



FLOOD MONITORING TOOL



STORM EVENT SIMULATION TOOL

VIRTUAL REALITY FLOOD SIMULATOR



INNOVATIVE PUBLIC INVOLVEMENT

- **Potential Key Milestone Meetings**
- **Startup (Educate/Inform):** Tell the story; Website/newsletters, targeted content
- **Discovery (Gather Info):** Targeted to key stakeholders, agencies, communities, but with public input too
- **Flood Risk Overview & Needs (Educate/Inform):** Public-centered content
- **Recommendations, Preparedness and Policy (Inform, Receive Input):** Targeted to policy stakeholders
- **Final Plan Review & Adoption (Inform, Receive Input):** Public-centered, seeking buy-off

HIGH-TECH AND GRASS ROOTS OUTREACH

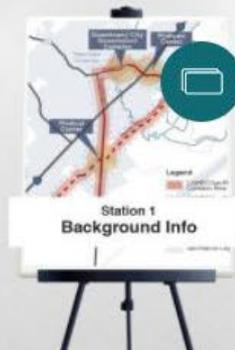
- Web Content
- Social Media
- Media
- Mobile-friendly
- Bilingual
- E-Newsletters
- Open Houses
- In person
- Virtual
- Hybrid
- Local “Office Hours”
- Electronic / Paper surveys



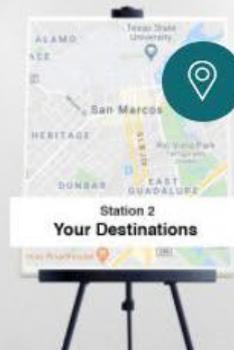
SMTX
PLATFORM PLANNING STUDY

Virtual Open House

Explore each station to the right. Learn about the project at Station 1 and complete the activities at Stations 2-6.



Station 1
Background Info



Station 2
Your Destinations



Station 3
Study Vision and Goals



Station 4
Community Priorities



Station 5
Study Area Features and Conditions



Station 6
Optional Demographic Questions

SWIFT FUNDING SUCCESSES

LAKE PALO PINTO STORAGE RESTORATION

Turkey Peak Dam Project

HDR secured TWDB funding, including SWIFT funds

- New on-channel dam and reservoir to restore permitted and provide additional water supply
- TWDB financing is supporting the District through the planning, permitting, design, land acquisition, and construction phases of the project.



GUADALUPE-BLANCO RIVER AUTHORITY

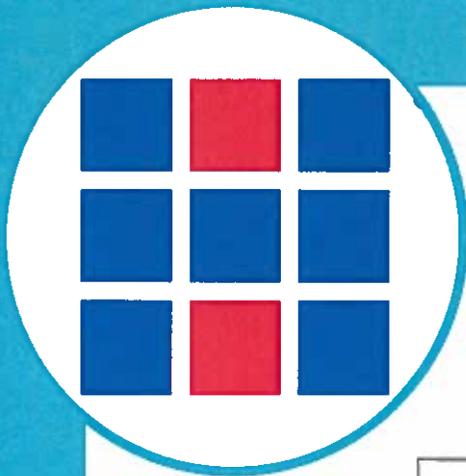
Carrizo Groundwater Supply Project

GBRA approved for up to \$212,955,000 in SWIFT funding for planning, design, land acquisition, and construction

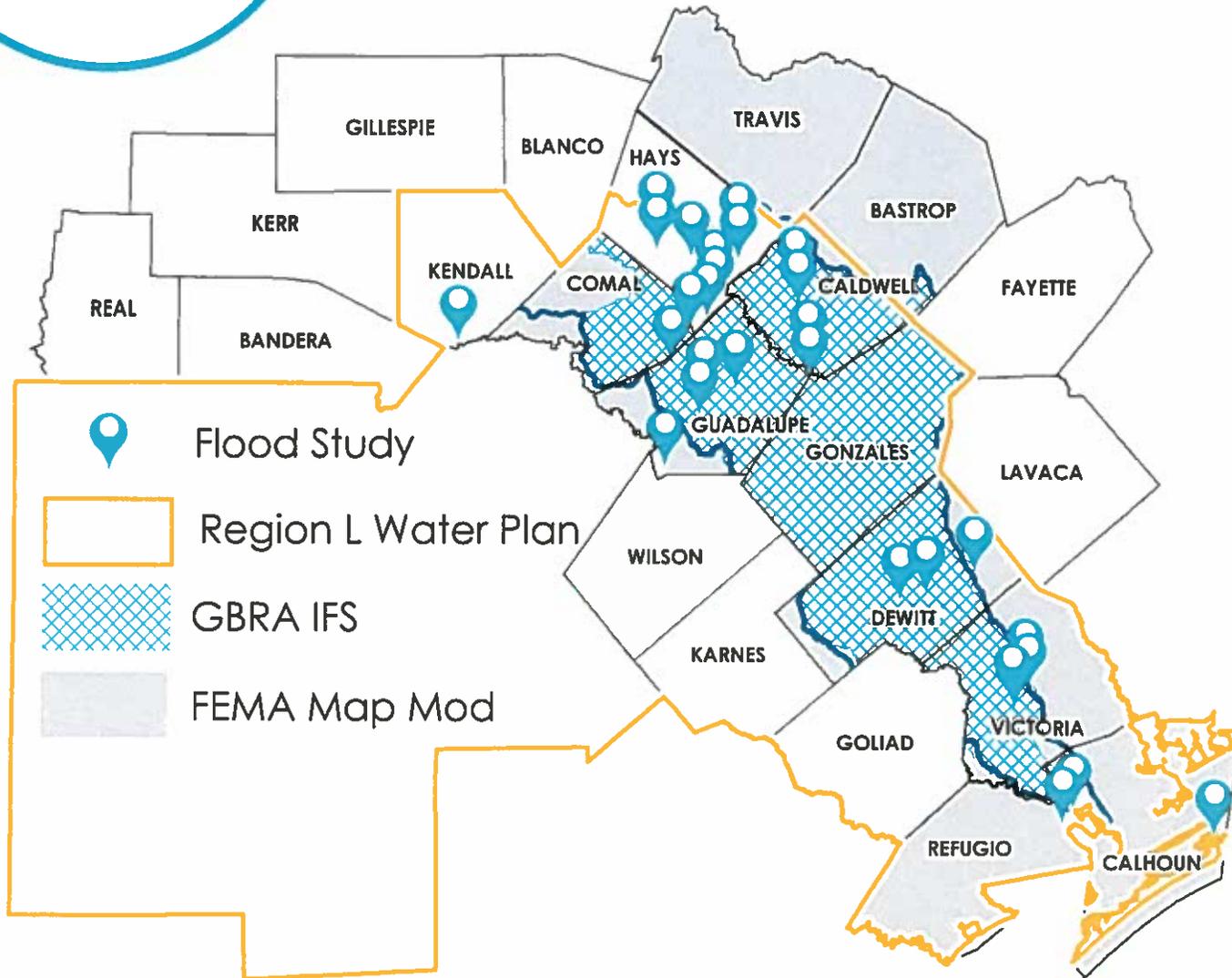
- Project develops 15,000 acft/yr of firm groundwater supply from Carrizo Aquifer
- Treated and delivered to GBRA customers using facilities shared with Alliance Regional Water Authority (ARWA)
- Regional integration of GBRA and ARWA projects saved \$10M+



REGIONAL FLOOD PLAN FOR GUADALUPE RIVER BASIN FLOOD PLANNING AREA



“We improve lives and communities by turning ideas into reality.”



JOSH LOGAN, PE, CFM *Project Manager*

Josh has worked in the Guadalupe Basin for nearly 20 years and has extensive experience in flood analysis, planning, and design. He has completed **Local Master Drainage Plans** in the last 4 years and has FEMA, TWDB, and GBRA experience.



MIKE MOYA, PE, CFM *Project Principal*

Mike has spent his entire career at Halff, accumulating more than 20 years of experience in flood planning and design. He has conducted TWDB Flood Protection Planning Studies, 6 FEMA CTP program studies, and served as **Project Principal for the GBRA Interim Feasibility Study**.



PAULA JO LEMONDS, PE, PG *Asst. PM*

Paula Jo has lived in the Guadalupe Basin for most of her life, bringing her a unique interest to the importance of this plan. She has 20 years of planning experience, including **Region O and Region L Regional Planning**, and has water conservation expertise.



JILL TREVINO, PE, CFM *FMP Task Leader*

Jill has lived in the Guadalupe Basin her entire life, with a major focus in Victoria, allowing her to **provide specialized lower-basin knowledge and interests**. A small business owner/engineer, Jill has flood mitigation experience and specialized understanding of the smaller communities.



Unmatched knowledge of the Guadalupe Basin

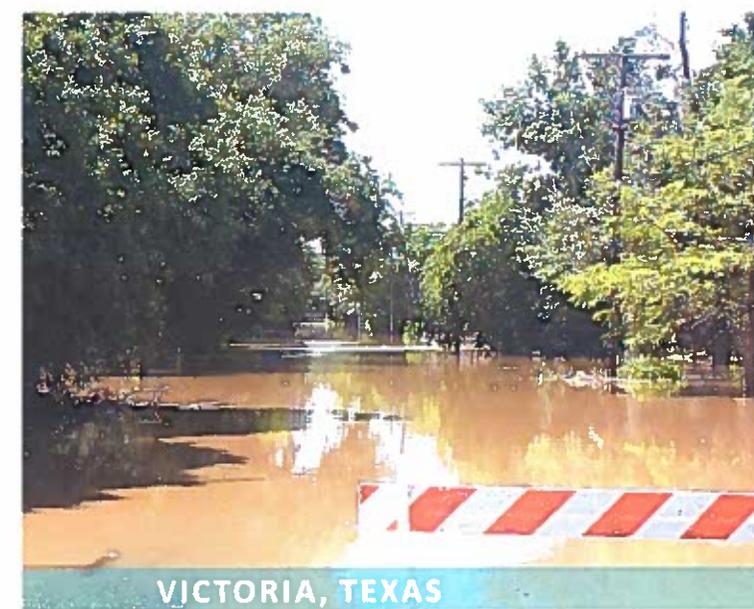


Understanding of TWDB Processes & Funding



Special Expertise in Water & Environmental Planning

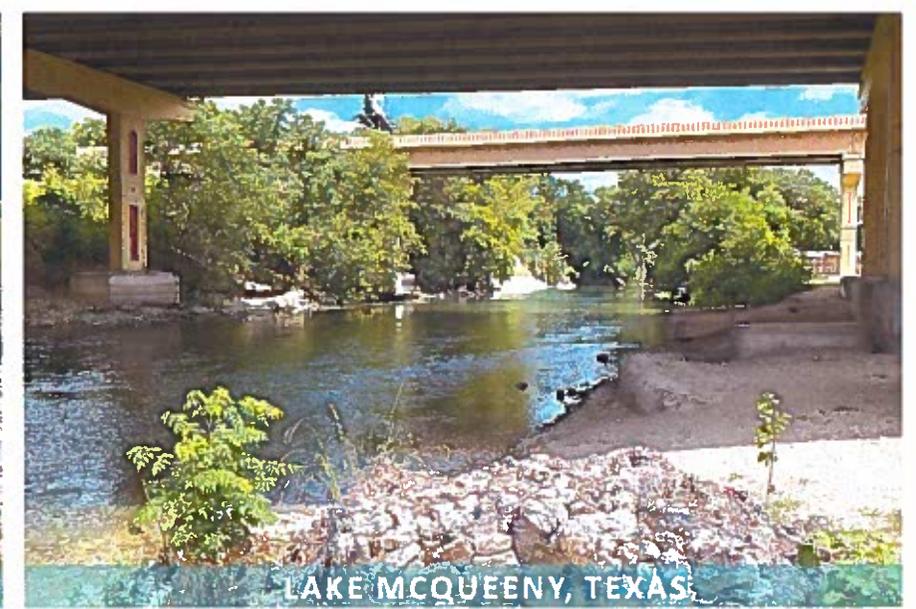




VICTORIA, TEXAS

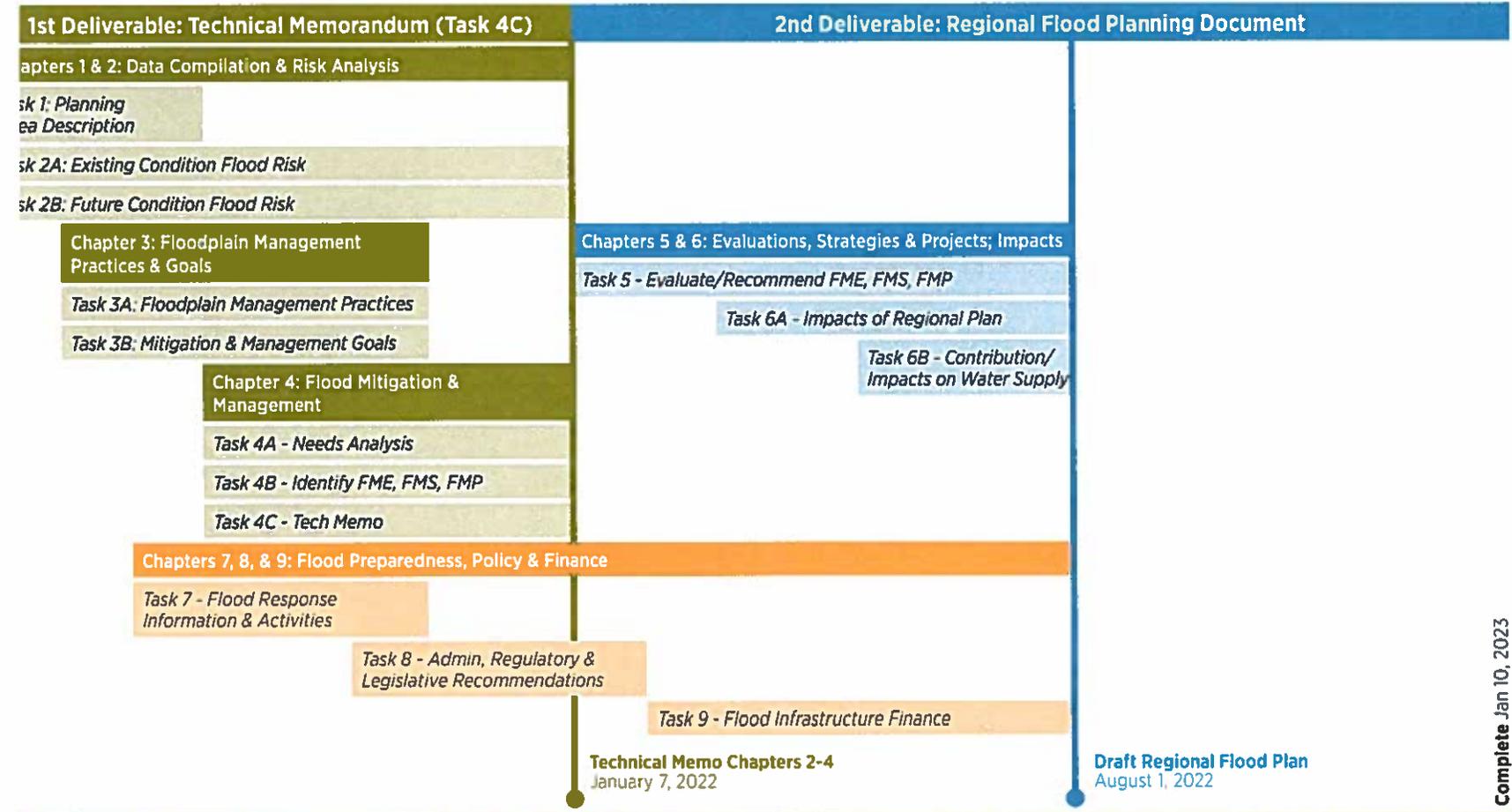


HAYS COUNTY, TEXAS



LAKE MCQUEENY, TEXAS

Clickoff
Discovery
Goals, Policy & Finance
Preparedness & Policy
FMPs
Plan Review



Discovery
Flood Risk Overview & Needs
FMSs, Preparedness & Response
Adoption

May-21 | Jun-21 | July-21 | Aug-21 | Sept-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | July-22 | Aug-22 | Sept-22 | Oct-22 | Nov-22 | Dec-22 | Jan-23

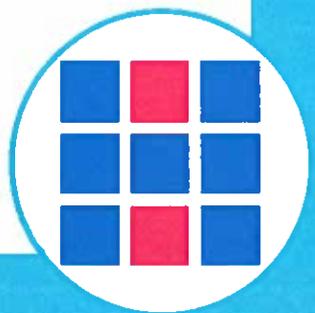
The Halff+HDR Team consists of senior staff with decades of experience across the Guadalupe Basin, Texas, and the nation.

CONTACT

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 Project Manager and
 Water Resources Team Leader
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Agenda Item 6

Public General Comments

Public Comments limited to 3 minutes per speaker

Agenda Item 7

Adjourn