Appendix 10 – Public Participation and Plan Adoption

Appendix 10.1

Appendix 10.1: Survey Questions

Background Questions

1. NFIP Partipant? (y/n)
2. Population 2020?
3. Projected Population 2050?
4. CRS Rating?
5. Latest FMEA Map Date?
6. Critical Facilities?
7. Totally Stream Miles in Community?
8. Numbers of Letters of Map Revision (LOMR)?
9. Stormwater Utility or Draiange Fee?
10. Percent of Community in 100-Year or 500-Year Floodplain?
11. CEO (Mayor or Judge)?
12. Floodplain Administrator?
13. Additional Contacts?

Community Questionnaire

Floodplain Management/Ordinances

1. What planning documents or information does your jurisdiction have that you would like to provide to the regional flood planning group?
2. If your jurisdiction is willing to share planning documents, please upload or provide a web link to access the data.
3. What flood response measures your jurisdiction CURRENTLY USES for emergency response.
4. What flood response measures your jurisdiction PLANS TO IMPLEMENT as changes or additions to the emergency response system over the next five years.
5. IN PREPARATION OF A FLOOD EVENT, indicate the entities with whom you coordinate to improve flood response.
6. DURING A FLOOD EVENT, indicate the entities with whom you coordinate flood response.
7. FOLLOWING A FLOOD EVENT, indicate the entities with whom you coordinate flood recovery and cleanup.
8. Would your jurisdiction like to provide geospatial (GIS) files for any of the infrastructure types?
9. If your jurisdiction is willing to share geospatial files for existing infrastructure, please upload or provide a web link to access the data.
10. Does your jurisdiction have flood infrastructure that provides water quality benefits?
11. If so, which features provide water quality benefit.
12. Does your entity have floodplain management regulations?

13. Has your entity adopted the minimum regulations to be eligible to participate in the National Flood Insurance Program (pursuant to Texas Water Code Section 16.3145)?
14. What regulations and/or development codes does your jurisdiction have in place to manage existing and future flood risk for developments?
15. If your jurisdiction is willing to share a copy of regulations and/or development codes, please upload or provide a web link to access the data.
16. Does your jurisdiction have a land use plan?
17. If your jurisdiction is willing to share a copy of your existing condition land use plan, please upload or provide a web link to access the data.
18. Does your jurisdiction have a future condition land use plan or future zoning plan?
19. If your jurisdiction is willing to share a copy of your future condition land use plan, please upload or provide a web link to access the data.
20. What best describes the activity of your jurisdiction in Floodplain Management practices?
21. What best describes your jurisdiction's level of enforcement of its Floodplain Management practices?
22. In your opinion, should the RFPG RECOMMEND consistent minimum standards across the entire region?
23. If you selected yes to the question above, what are the minimum standards the RFPG should consider recommending for all jurisdictions within the region?
24. In your opinion, should the RFPG ADOPT/REQUIRE consistent minimum standards across the entire region? Such a requirement would only allow the RFPG to consider including flood mitigation solutions for those entities who currently meet the adopted/required minimum standards.
25. If you selected yes to the question above, what are the minimum standards the RFPG should consider recommending for all jurisdictions within the region?
26. What measures is your jurisdiction taking to promote resilience within flood-prone areas.
27. Are you aware of any other jurisdiction with flood-related responsibilities in your area, such as a drainage district, levee district, flood control district, etc.?
28. If you selected yes to the question above, please provide name of entity and contact information.
29. Does your jurisdiction wish to include floodplain management goals in the regional flood plan?
30. If you selected yes to the question above, please provide your desired goals, including whether it is a Short-term (10-year) or Long term (30-year) goal, the location or other applicability of goal (i.e. local or regional), flood risk reduction of goal (i.e. structures at risk), as well as the method to measure the goal.
31. What following describes the higher standards required by your jurisdiction, if any?
32. Do you have any suggestions (improvements) for legislative authority needed for increased Floodplain Management standards?

Flood History

1. Based upon experience with past floods and finding from studies please indicate the anticipated exposure to flooding for the following assets / service categories within your jurisdiction (None / Low / Medium / High):
    a. Energy Generation
    b. Emergency Services
    c. Health and Human Services
    d. Power Utilities
    e. Roadway Transportation
    f. Mass Transit Transportation
    g. Water Supply
    h. Water Treatment
    i. Communication Utilities
    j. Agriculuture
    k. Natural Resources
2. If your jurisdiction tracks drainage complaints and you are willing to share the data, please upload or provide a web link to access the data.

Floodplain Studies / Maps

1. Which of the following is used to define best available flood risk (floodplains) in your community or jurisdiction in addition to FEMA studies and Base Level Engineering? Select all that apply.
    a. No other studies, we use FMEA maps, studies or Base Level Engineering
    b. Flood Protection Plan
    c. Local Flood Study
    d. Master Drainage Plan / Stormwater Draiange Plan
    e. Watershed Plan / Study
    f. LOMRs not yet approved by FEMA
    g. Models, including hydrology, hydraulics or any available screening level models that you consider to be the best available data for your jurisdiction
2. If your jurisdiction is willing to share best available flood risk (floodplain studies) that you would like considered for inclusion in the plan, please upload or provide a web link to access the data.
3. Was future condition analysis conducted in any of the flood studies provided?
4. Were flood risk reduction activities identified in any of the flood studies provided?
5. Any other comments or notes?

Risk Reduction Alternatives

1. Which planning documents or information does your jurisdiction have that identify flood risk reduction activities (these may include evaluations, strategies, and/or projects) for consideration by the regional flood planning group?
2. If your jurisdiction is willing to share flood risk reduction activities for your community that you would like considered for inclusion in the plan, please upload or provide a web link to access the

data. If already provided under the Floodplain Studies/Maps section, no need to upload data again.

3. What, if any, flood management strategies or flood mitigation projects are currently in progress / ongoing, or proposed?
4. Are any of the in progress/ongoing or proposed infrastructure or flood mitigation projects at or above a 30% level of design?

Flood Finance

1. Which of the following describes your local funding sources for flood management activities? Select all that apply.
2. If you have a Stormwater Utility Fee, what is the Storm Water Utility Rate.
3. In addition to local resources, if any, what other funding sources have you obtained to pay for implementation of your flood management activities? Select all that apply.
4. Are there reasons why your jurisdiction does not seek other funding sources to pay for implementation of your flood management activities? Select all that apply.

Natural Resources and Condition Changes

1. Which of the following planning documents or information does your jurisdiction have that you would like to provide to the regional flood planning group? Select all that apply.
2. If your jurisdiction is willing to share planning documents, please upload or provide a web link to access the data.

Hazard Mitigation and Emergency Planning

1. What planning documents or information does your jurisdiction have that you would like to provide to the regional flood planning group?
2. If your jurisdiction is willing to share planning documents, please upload or provide a web link to access the data.
3. What flood response measures your jurisdiction CURRENTLY USES for emergency response.
4. What flood response measures your jurisdiction PLANS TO IMPLEMENT as changes or additions to the emergency response system over the next five years.
5. IN PREPARATION OF A FLOOD EVENT, indicate the entities with whom you coordinate to improve flood response.
6. DURING A FLOOD EVENT, indicate the entities with whom you coordinate flood response.
7. FOLLOWING A FLOOD EVENT, indicate the entities with whom you coordinate flood recovery and cleanup.

Existing Infrastructure

1. Would your jurisdiction like to provide geospatial (GIS) files for any of the infrastructure types?
2. If your jurisdiction is willing to share geospatial files for existing infrastructure, please upload or provide a web link to access the data.
3. Does your jurisdiction have flood infrastructure that provides water quality benefits?

4. If so, which features provide water quality benefit.

Interactive Webmap

1. Please preview the populated datasets and add, remove, or edit these features as needed:
    a. Levees / Dams
    b. Storm Draiange System
    c. Roadways
    d. Coastal
    e. Critical Infrastructure

Appendix 10.2

Entitiy Represented	Contact Position	Contact Name
Abbott	Mayor	Anthony Pustejovsky
Angelton Drainage District	Representative	JD Rickaway
Angleton	City Manager	Chris Whittaker
Angleton	Emergency Management Coordinator	Glenn LaMont
Angleton	Mayor	Jason Perez
Arcola	City Administrator	Gwendolyn Tealer
Arcola	City Engineer; Floodplain Administrator	Llarance L. Turner
Arcola	Mayor	Fred Burton
Austin *	Development Coordinator	Erica Resendez
Austin *	Floodplain Administrator	Marcy Grimes
Austin *	Judge	Tim Lapham
Bailey's Prairie	Floodplain Administrator	Randy L. Stroud
Bailey's Prairie	Mayor; Emergency Management Coordinator	Tammy Mutina
Bartlett *	Mayor	Chad Mess
Bastrop County Municipal Utility District 1	Representative	Bradley Loehr
Bell *	County Engineer	Bryan Neaves
Bell *	Judge	David Blackburn
Bellmead	City Manager	Yousry "Yost" Zakhary
Bellmead	Mayor	Gary Moore
Bellmead	Public Works Director	Herb Blomquist
Bellville	City Administrator	Shawn Jackson
Bellville	Mayor	James Harrison
Bellville	Public Works Director	Ben Munsch
Belton *	City Manager	Sam A. Listi
Belton *	Director of Public Works	Angellia Points
Belton *	Mayor	Wayne Carpenter
Bertram	City Engineer	Garry Montgomery
Bertram	Mayor	Mike Dickinson
Beverly Hills	Mayor	David Gonzales
Bluebonnet Groundwater Conservation District	Representative	Zach Holland
Blum	Mayor	Chryle Hackler
Bonney	City Secretary	Kaylee Winans
Bonney	Mayor	Raymond Cantu
Bosque	Emergency Management Coordinator	Chris Anderson
Bosque	Judge	Cindy Vanlandingham
Brazoria	City Manager	Mike Collard
Brazoria	Director of Public Works	Derrell Travis
Brazoria	Emergency Management Coordinator	Marcus Rabren
Brazoria	Mayor	Roger Shugart
Brazoria County *	County Engineer	Matthew Hanks
Brazoria County *	Emergency Management Coordinator	Steve Rosa
Brazoria County *	Floodplain Administrator	Joe K. Ripple
Brazoria County *	Judge	L.M. "Matt" Sebesta, Jr
Brazoria County Drainage District 11	Director	Mark Ducroz
Brazoria County Drainage District 4	Interim District Engineer	Jarrod Aden
Brazoria County Drainage District 5	Representative	Jarrod Aden
Brazoria County Drainage District 8	Representative	Charles LeCompte
Brazoria County Municipal Utility District 17	Representative	James W. Chick
Brazoria County Municipal Utility District 19	Representative	Troy Nixon
Brazoria County Municipal Utility District 2 & 3	Representative	Gary Rabalais
Brazoria County Municipal Utility District 21, 26, 28	Representative	Jeff Collins
Brazoria County Municipal Utility District 22	Representative	Bill Ehler
Brazoria County Municipal Utility District 22	Representative	Joe White
Brazoria County Municipal Utility District 23	Representative	Russel Secrest
Brazoria County Municipal Utility District 24	Representative	Lisa Diese
Brazoria County Municipal Utility District 25	Representative	Sam Anawaty
Brazoria County Municipal Utility District 29	Representative	Andy Palermo
Brazoria County Municipal Utility District 31	Representative	Jerry Wood
Brazoria County Municipal Utility District 32	Representative	Mary Tysor
Brazoria County Municipal Utility District 34	Representative	Roland Falgoust
Brazoria County Municipal Utility District 35	Representative	Loren Kool
Brazoria County Municipal Utility District 36	Representative	James Woodring
Brazoria County Municipal Utility District 38	Representative	Terrance Bircher
Brazoria County Municipal Utility District 39 & 40	Representative	James Brown
Brazoria County Municipal Utility District 42	Representative	Chris Havney
Brazoria County Municipal Utility District 43	Representative	Steve Sheldon
Brazoria County Municipal Utility District 53	Representative	Robert Serrett
Brazoria County Municipal Utility District 55	Representative	Houston Hamilton
Brazoria County Municipal Utility District 56	Representative	Lance E. Taylor
Brazoria County Municipal Utility District 6	Representative	Michael Haney
Brazoria County Municipal Utility District 61	Representative	David B. Jackson
Brazoria County Municipal Utility District 66	Representative	John Buford
Brazoria County-Fort Bend County Municipal Utility District 1	Representative	James Ross

All listed entities received an outreach call between 7/20/2021 and 7/30/2021.
*Entities with populations greater than 20,000 receieved a second phone call between 8/1/2021 and 9/1/2021.

Entitiy Represented	Contact Position	Contact Name
Brazoria-Fort Bend Counties Municipal Utility District 1	Representative	Michael Parks
Brazos *	County Engineer	Prarthana Banerji
Brazos *	Emergency Management Coordinator	Michele Bailey-Meade
Brazos *	Judge	Duane Peters
Brazos Country	Mayor	Albert A. Sykes
Brazos Country	Mayor Pro Tem	Joe McSloy
Brazos Valley Council of Governments	Representative	Tom Wilkinson, Jr.
Bremond	Director of Public Works	James Kloss
Bremond	Mayor	Rick Swick
Brenham	City Manager	James Fisher
Brenham	Director of Public Works	Dane Rau
Brenham	Fire Chief; Emergency Management Coordinator	Ricky Boeker
Brenham	Mayor	Milton Tate, Jr.
Brookshire	Director of Public Works	Earnest Kelley
Brookshire	Mayor	Darell Branch
Bruceville-Eddy	City Administrator	Sonya Bishop
Bruceville-Eddy	Mayor	Connally Bass
Bryan *	City Engineer	W. Paul Kaspar
Bryan *	Mayor	Andrew Nelson
Bryson	Director of Public Works	Clifford Smith
Bryson	Mayor	Lutitia Ford
Buckholts	Mayor	Teresa Eaton
Burleson	Judge	Keith Schroeder
Burleson	Mayor	Chris Fletcher
Burleson *	City Manager	Bryan Langley
Burleson *	Director of Public Works	Aaron Russell
Burleson *	Emergency Management Coordinator	Duane Strange
Burleson Municipal Utility District 1	Representative	Susan Lee
Burton	City Administrator	Karen H. Glynn
Burton	Mayor	David Zajicek
Calvert	Mayor	Marcus Greaves
Cameron	Engineer	Eric Engelskirchen
Cameron	Mayor	William Harris
Capital Area Council of Governments	Representative	Betty Voights
Carbon	Mayor	Corey Hull
Cedar Park *	Director of Engineering	Darwin Marchell
Cedar Park *	Mayor	Corvin Van Arsdale
Central Texas Council of Governments	Representative	Jim Reed
Chelford City Municipal Utility District	Representative	Norman Scholes
Cimarron Municipal Utility District	Representative	Erik Spencer
Cinco Municipal Utility District 1	Representative	Larry Mueller
Cinco Municipal Utility District 12	Representative	Sandy Cantner
Cinco Municipal Utility District 2	Representative	Jacob Floyd
Cinco Municipal Utility District 5	Representative	John Van De Wiele
Cisco	City Manager	Darwin Archer
Cisco	Mayor	Tammy Douglas
Cleburne *	Mayor	Scott Cain
Cleburne *	Public Works Director	Jeremy Hutt
Clifton	Mayor	Richard Spitzer
Clute	City Manager	CJ Snipes
Clute	Mayor	Calvin Shiflet
Clute	Public Works Director	John Wilkinson
College Station *	City Engineer	Carol Cotter
College Station *	Mayor	Karl Mooney
Comanche	Judge	Stephanie Davis
Comanche	Mayor	Mary Boyd
Comanche	Emergency Management Coordinator	Raymond Helberg
Comanche	Floodplain Administrator	Leslie Grace
Cool	City Secretary	Laura Watkins
Coolidge	Mayor	Jesse Ashmore
Copperas Cove *	Development Services Director	Robert Lewis
Copperas Cove *	Mayor	Bradi Diaz
Cornerstones Municipal Utility District	Representative	Matthew Carpenter
Coryell *	County Environmental Officer	Cody Wallace
Coryell *	Emergency Management Coordinator	Robert L. Harrell
Coryell *	Judge	Roger Miller
Coupland	Mayor	Jack Piper
Coupland	Mayor Pro Temp	Barbara Piper
Covington	Mayor	George Burnett
Cranfills Gap	Mayor	David White
Crawford	Mayor	Franklin Abel
Danbury	Deputy City Secretary	Cynthia Sharp
Danbury	Mayor; Emergency Management Coordinator	Melinda Strong
De Leon	City Engineer	David Todd

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Appendix 10.2 Interest Groups Contacted

Entitiy Represented	Contact Position	Contact Name
De Leon	Floodplain Administrator	Derek Turner
De Leon	Mayor	Jan Grisham
DeCordova	City Secretary	Sylvia Hickey
DeCordova	Mayor	Dave Hanson
Dublin	Director of Public Works	Cory James
Dublin	Mayor	David Leatherwood
Eastland	Mayor	Larry Vernon
Eastland	City Manager	John Oznick, Jr.
Eastland	Judge	Rex Fields
Erath *	Emergency Management Coordinator	Susan Driskill
Erath *	Judge	Alfonso Campos
Evant	Mayor	Roger Kircus
Fairchilds (Village)	Assistant County Engineer; Floodplain Administrator	Sean Eglinton
Falls	Emergency Management Coordinator	Jeff Watkins
Falls	Judge	Jay Elliott
First Colony Levee Improvement District 1	Engineer	Greg Frank
First Colony Levee Improvement District 1	Representative	Richard Sherrill
First Colony Levee Improvement District 2	Engineer	Martin Murdock
First Colony Levee Improvement District 2	President	Ron Frerich
First Colony Municipal Utility District 10	Representative	Chad E. Hablinski
Florence	City Secretary	Amy Crane
Florence	Mayor	Mary Condon
Fort Bend *	County Engineer	Stacy Slawinski
Fort Bend *	Drainage District	Mark Vogler
Fort Bend *	Judge	KP George
Fort Bend County Levee Improvement District 10	President	Don Burns
Fort Bend County Levee Improvement District 11	Engineer	Michael Rusk
Fort Bend County Levee Improvement District 11	Representative	Roberta Terrell
Fort Bend County Levee Improvement District 12	Representative	Alene Efaw
Fort Bend County Levee Improvement District 14	Engineer	Craig Kalkomey
Fort Bend County Levee Improvement District 14	President	Sujeeth Draksharam
Fort Bend County Levee Improvement District 15	Engineer	Chad Hablinski
Fort Bend County Levee Improvement District 15	President	Rohit Sankholkar
Fort Bend County Levee Improvement District 17	Engineer	Jason Kelly
Fort Bend County Levee Improvement District 17	President	David Gornet
Fort Bend County Levee Improvement District 19	President	Kalapi Sheth
Fort Bend County Levee Improvement District 2	President	Bryan K Chapline
Fort Bend County Levee Improvement District 2	Representative	Andrew McDonald
Fort Bend County Levee Improvement District 20	Engineer	Sean Humble
Fort Bend County Levee Improvement District 20	President	Joseph Sheets
Fort Bend County Levee Improvement District 6	Engineer	Ron Dechert
Fort Bend County Levee Improvement District 6	Representative	Gary Pochyla
Fort Bend County Levee Improvement District 7	Chairman	James Grotte
Fort Bend County Levee Improvement District 7	Engineer	Jon R. Vanderwilt
Fort Bend County Levee Improvement District 8	Representative	Bobby Wilson
Fort Bend County Municipal Utility District 116	Administrator	Karen Gilbert
Fort Bend County Municipal Utility District 116	Engineer	Asim Tufail
Fort Bend County Municipal Utility District 118	Representative	Tobin Synatschk
Fort Bend County Municipal Utility District 119	Representative	Brian Chovanec
Fort Bend County Municipal Utility District 121	Engineer	Wallace E. Trochesset
Fort Bend County Municipal Utility District 121	Representative	William Lowry
Fort Bend County Municipal Utility District 124	Representative	Philip M. Mullan
Fort Bend County Municipal Utility District 130	Representative	Michael Kurzy
Fort Bend County Municipal Utility District 134D	Representative	Clayton Black
Fort Bend County Municipal Utility District 134E	Representative	Cameron Miller
Fort Bend County Municipal Utility District 136	Representative	Christopher J. Leblanc
Fort Bend County Municipal Utility District 141	Representative	Todd Elston
Fort Bend County Municipal Utility District 143	Representative	Bradley Jenkins
Fort Bend County Municipal Utility District 144	Representative	Jared Bowlin
Fort Bend County Municipal Utility District 145	Representative	Justin Ring
Fort Bend County Municipal Utility District 146	Representative	Ralph Wissel
Fort Bend County Municipal Utility District 147	Representative	Michael Preiss
Fort Bend County Municipal Utility District 148	Representative	Shawn Pachlhofer
Fort Bend County Municipal Utility District 152 & 2	Representative	Chad Abram
Fort Bend County Municipal Utility District 155	Representative	Michael Wang
Fort Bend County Municipal Utility District 167	Representative	Stephen Sheldon
Fort Bend County Municipal Utility District 169	Representative	Karena Hauter
Fort Bend County Municipal Utility District 182	Representative	Melony Gay
Fort Bend County Municipal Utility District 184	Representative	Christopher C. Jousan
Fort Bend County Municipal Utility District 185	Representative	Nick Bailey
Fort Bend County Municipal Utility District 19	Representative	Blair Bozoarth
Fort Bend County Municipal Utility District 192	Representative	Terry Reeves
Fort Bend County Municipal Utility District 194	President	Justin Morales
Fort Bend County Municipal Utility District 198	Representative	Kevin Gilligan
Fort Bend County Municipal Utility District 199	Representative	Raphael Saldana

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Entitiy Represented	Contact Position	Contact Name
Fort Bend County Municipal Utility District 200	Representative	Linh Tran
Fort Bend County Municipal Utility District 214	Representative	Teague Harris
Fort Bend County Municipal Utility District 218	Representative	Amanda Edmonson
Fort Bend County Municipal Utility District 220	Representative	Angie Sanchez
Fort Bend County Municipal Utility District 23	Representative	Brian Edwards
Fort Bend County Municipal Utility District 25	Representative	Beth Murany
Fort Bend County Municipal Utility District 26	Representative	Wayne Saliger
Fort Bend County Municipal Utility District 30	Representative	Greg Phipps
Fort Bend County Municipal Utility District 34	Representative	Jeff R. Safe
Fort Bend County Municipal Utility District 42	Representative	Jack Carter
Fort Bend County Municipal Utility District 46	President	Sonal Shah
Fort Bend County Municipal Utility District 47	Representative	Stephen Swindell
Fort Bend County Municipal Utility District 48	Representative	Sean Burch
Fort Bend County Municipal Utility District 49	Engineer	Clayton Weishuhn
Fort Bend County Municipal Utility District 49	Representative	Bill Quinn
Fort Bend County Municipal Utility District 5	Representative	Justin Wagner
Fort Bend County Municipal Utility District 57	Representative	William Saour
Fort Bend County Municipal Utility District 81	Representative	Robert W. Dazey
Fort Bend County Municipal Utility District 94	Representative	Lisa Bonham
Fort Bend County Water Control & Improvement District 2	Representative	Drew Crow
Fort Bend County Water Control & Improvement District 2	Representative	Jason Kirby
Fort Bend County Water Control & Improvement District 3	Representative	Trey Schneider
Fort Bend Freshwater Supply District 2	Representative	John Sherrington
Fort Bend-Waller Counties Municipal Utility District 3	Representative	Charlie Chapline
Freeport	City Manager	Tim Kelty
Freeport	Mayor	Brooks Bass
Fulshear	City Manager	Jack Harper
Fulshear	Emergency Management Coordinator	Felix Vargas
Fulshear	Mayor	Aaron Groff
Fulshear	Public Works Director	Sharon Valiante
Fulshear Municipal Utility District 1	Representative	Brooks Tueting
Fulshear Municipal Utility District 2	Representative	Bobby Deden
Fulshear Municipal Utility District 3	Representative	Glen Nordt
Gatesville	City Manager	William H. Parry, III
Gatesville	City Secretary	Wendy Cole
Gatesville	Mayor	Gary Chumley
Georgetown *	City Manager	David Morgan
Georgetown *	Mayor	Josh Schroeder
Gholson	Mayor	Phillip Bagley
Glen Rose	Building Official	Rowena West
Glen Rose	Mayor	Julia Douglas
Godley	City Administrator	David J. Wallis
Godley	City Engineer	Glenn Breisch
Godley	Mayor	Jan Whitehead
Golinda	Mayor	Joyce Farr
Gordon	Mayor	Jack Coleman
Gorman	City Secretary	Tacy Warren
Gorman	Mayor	David Perry
Graford	Mayor	Carl Walston
Graham	City Manager	Brandon Anderson
Graham	Mayor	Neal Blanton
Granbury	City Engineer; Floodplain Administrator	JoAnne Kamman
Granbury	City Manager	Chriss Coffman
Granbury	Mayor	Nin Hulett
Grand Lakes Municipal Utility District 1	Representative	David Corbin
Granger	City Engineer	Scott Murrah
Granger	Mayor	Trevor Cheatheam
Grimes *	Emergency Management Coordinator; Floodplain Administrator	David Lilly
Grimes *	Judge	Joe Fauth III
Grimes *	Road and Bridge Engineer	Harry B. Walker
Groesbeck	City Administrator	Chris Henson
Groesbeck	Mayor	Ray O'Docharty
Gustine	Mayor	Ken Huey
Hallsburg	Mayor	Mike Glockzin
Hamilton	City Administrator	Ryan Polster
Hamilton	Mayor	Jim McInnis
Hamilton	Judge; Emergency Management Coordinator	W. Mark Tynes
Harker Heights *	Assistant City Manager	Jerry Bark
Harker Heights *	Building Official	Michael Beard
Harker Heights *	City Manager	David Mitchell

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Entitiy Represented	Contact Position	Contact Name
Harker Heights *	Mayor	Spencer H. Smith
Harris County Municipal Utility District 393	Representative	Alix Boes
Harris-Brazoria Counties Municipal Utility District 509	Representative	Ricardo Rodriguez
Harris-Fort Bend Municipal Utility District 1	Representative	Jolie Craft
Harris-Fort Bend Municipal Utility District 3	Representative	Thomas Laseter
Harris-Waller Counties Municipal Utility District 3	Representative	Lonnie Lee
Hearne	City Manager	John Naron
Hearne	Mayor	Ruben Gomez
Heart of Texas Council of Governments	Representative	Russell Devorsky
Hempstead	Mayor	Dave Shelburne
Hempstead	Mayor Pro Tem	Katherine Ragston
Hewitt	City Manager	Bo Thomas
Hewitt	Mayor	Steve Fortenberry
Hico	City Administrator	Adam Niolet
Hico	Mayor	Eddie Needham
Hill *	Emergency Management	Tom Hemrick
Hillsboro	City Manager	Megan Henderson
Hillsboro	Mayor	Andrew L. Smith
Hillsboro	Planning Technician	Richard Reinhardt
Hillsboro	Public Works	Walter Garcia
Holiday Lakes	Floodplain Administrator	Cindy Clark
Holiday Lakes	Mayor	Norman Schroeder
Holland	City Secretary	Paula Kreinheder
Holland	Mayor	Charles Jennings
Hood *	Development Director	Clint Head
Hood *	Fire Marshall	Jeff Young
Hood *	Judge	Ron Massingill
Houston-Galveston Area Council	Representative	Chuck Wemple
Hutto *	City Engineer	Samuel Ray
Hutto *	City Manager	Warren Hutmacher
Hutto *	Mayor	Mike Snyder
Industry	Mayor	Mable Meyers
International Management District	Representative	David Hawes
Iola	Mayor	Christina Stover
Iredell	Mayor	Joel Wellborn
Itasca	Mayor	James Bouldin
Jarrell	City Manager	Vanessa Shrauner
Jarrell	Mayor	Larry Bush
Johnson *	Emergency Management Coordinator	Jamie Moore
Johnson *	Judge	Roger Harmon
Johnson *	Public Works Director	Thomas Disheroon
Johnson County - Precinct 1	Commissioner	Rick Bailey
Joshua	City Manager	Mike Peacock
Joshua	Mayor	Joe M. Hollam
Kempner	City Manager	David C. Williams, II
Kempner	Mayor	John Wilkerson
Killeen *	City Engineer	MD Hossain
Killeen *	City Manager	Kent Cagle
Killeen *	Mayor	Jose L. Segarra
Killeen *	Risk Manager	Alwin R. Collado
Kingsbridge Municipal Utility District	Representative	David Miller
Kosse	Mayor	Brooks A. Valls
Kosse	Mayor Pro Tem	Ronnie Funderburk
Kurten	Mayor	Chris Courtney
Lacy-Lakeview	City Manager	Keith Bond
Lacy-Lakeview	Mayor	Sharon Clark
Lake Jackson *	Assistant County Engineer	Athelstan Sanchez
Lake Jackson *	City Manager	Modesto Mundo
Lake Jackson *	Mayor	Gerald Roznovsky
Lampasas	City Manager	Finley Degraffenried
Lampasas	Economic Development Director	Mandy Walsh
Lampasas	Mayor	T.J. Monroe
Lampasas *	Emergency Management Coordinator	Angela Rainwater
Lampasas *	Floodplain Administrator	Wayne L. Boutinghouse
Lampasas *	Judge	Randy Hoyer
Leander	Interim City Engineer	Ross Blackketter
Leander *	Mayor	Christine Sederquist
Lee	County Assistant	Jessica Graefe
Lee	Emergency Management Coordinator	Delynn Peschke
Lee	Judge	Paul E. Fischer
Leroy	Mayor Pro Tem	Charles Garretson
Lexington	Mayor	Allen Retzlaff
Lexington	Public Works Supervisor	Chase Nail
Liberty Hill	Director of Public Works	Jay Holmes

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Entitiy Represented	Contact Position	Contact Name
Liberty Hill	Mayor	Liz Branigan
Limestone *	Floodplain Administrator	Matt Groveton
Limestone *	Judge	Richard Duncan
Lipan	City Secretary	Robin Viducic
Lipan	Mayor	Mike Stowe
Little River Academy	Mayor	Drew Lanham
Lorena	City Manager	Joseph Pace
Lorena	Mayor	Tommy Ross
Lott	Mayor	Sue Tacker
Marlin	City Manager	Cedric W. Davis, Sr.
Marlin	Mayor	Carolyn Lofton
Marlin	Public Works Director	Scott Fornash
Marquez	City Manager	Lauren Powers
Marquez	Mayor	Stynette Clary
Mart	Mayor	Len Williams
Mart	Mayor Pro Tem	Haley Pankonien
McGregor	City Manager	Kevin Evans
McGregor	Community Development Director	Michael Olson
McGregor	Mayor	James S. Hering
McLennan *	County Engineer	Zane Dunnam
McLennan *	Judge	Scott Felton
Meridian	City Administrator	Marie Garland
Meridian	Mayor	Johnnie Hauerland
Milam *	Emergency Management Coordinator	Susan Reinders
Milam *	Judge	Steve Young
Milano	City Secretary	Carolyn Vinton
Milano	Mayor	Karl Westbrook
Millsap	Mayor	Jamie French
Mineral Wells	Mayor	Regan Johnson
Mingus	Mayor	Milo Moffit
Mingus	Mayor Pro Tem	Janet Lynn
Missouri City *	Assistant City Engineer	Jeremy Davis
Missouri City *	Mayor	Robin J. Elackatt
Missouri City *	Public Works Director	Shashi Kumar
Missouri City Management District 2	Representative	John J. Moy
Moody	City Administrator	William Sterling
Moody	Mayor	Charleen Dowell
Morgan	Mayor	Jonathan W. Croom, II
Morgan's Point Resort	City Manager	Dalton Rice
Morgan's Point Resort	Mayor	Dennis Green
Mount Calm	Mayor	Jimmy Tucker
Navasota	City Manager	Brad Stafford
Navasota	Fire Chief; Emergency Management Coordinator	Jason Katkoski
Navasota	Floodplain Manager	Jose Coronilla
Navasota	Mayor	William "Bert" Miller, III
Nolanville	City Manager	Kara Escajeda
Nolanville	Mayor	Andy Williams
Normangee	Mayor	Troy Noey
North Central Texas Council of Governments	Representative	Michael Eastland
North Fort Bend County Water Authority & MUD 112	Representative	Lindsay Kovar
North Mission Glen Municipal Utility District	Representative	Robert Wempe
Oglesby	City Secretary	Jennifer Thompson
Olney	City Administrator	Neal Welch
Olney	Mayor	Rue Rogers
Orchard	Mayor	Rod Pavlock
Oyster Creek	Mayor	Justin Mills
Palmer Plantation Municipal Utility District 1	Engineer	Gary Mensik
Palmer Plantation Municipal Utility District 1	President	Tara Wagner
Palo Pinto *	Emergency Management Coordinator	Mistie Moon
Palo Pinto *	Judge	Shane Long
Parker *	Fire Marshall	Sean Hughes
Parker *	Judge	Pat Deen
Parker *	Permitting Director	Ryen Mowrey
Pattison	Mayor	Joe Garcia
Pattison	Mayor Pro Tem	Seth Stokes
Pearland Municipal Management District 2	Representative	Sylvester Reeder III
Pecan Grove Municipal Utility District 1	Director	Ryan Yokubaitis
Pecan Grove Municipal Utility District 1	Engineer	Megan Crutcher
Pecan Grove Municipal Utility District 1	Representative	Buddy Kluppel
Pine Island	Mayor	Steve Nagy
Pleak	Assistant County Engineer	Sean Ellington
Pleak	City Engineer	David Leyendecker
Pleak	Fire Chief; Emergency Management Coordinator	Jordan Blegen
Pleak	Mayor	Larry Bitner

All listed entities received an outreach call between 7/20/2021 and 7/30/2021.
*Entities with populations greater than 20,000 receieved a second phone call between 8/1/2021 and 9/1/2021.

Entitiy Represented	Contact Position	Contact Name
Port Freeport	Director of Engineering	Jason Hull P.E.
Prairie View	Judge	Shelytha Alexander-Simmons
Prairie View	Mayor	Dr. Brian E. Rowland
Quintana	Administrator	Tammi Cimiotta
Quintana	Mayor	Steve Alongis
Ranger	City Manager	Gerald Gunstanson
Ranger	Mayor	John Casey
Renn Road Municipal Utility District & Drainage District Engineer	Representative	Jeffrey Vogler
Richmond	City Manager	Terri Vela
Richmond	Emergency Management Coordinator	Anthony Pryor
Richmond	Mayor	Rebecca Haas
Richwood	City Manager	Eric Foerster
Richwood	Mayor	Steve Boykin
Riesel	City Secretary	Alisha Flanary
Riesel	Mayor	Kevin Hogg
Rio Vista	Director of Public Works	Robin Borre
Rio Vista	Mayor	Tim Dalan
Rising Star	City Administrator	Jan Clark
Robertson	Emergency Management	Erik Maiorano
Robertson	Judge	Charles Ellison
Robinson	City Manager	Craig Lemin
Robinson	Director of Planning & Community Development	Justin French
Robinson	Mayor	Bert Echterling
Rockdale	City Manager	Barbara Holly
Rockdale	Mayor - At Large	John King
Rockdale	Public Works Director	Jerald Brunson
Rogers	Mayor	Billy Crow
Rosebud	City Administrator	Kenny Ray Murray
Rosebud	Emergency Management Coordinator	Dr. Owen Smith
Rosebud	Mayor	Marlene Zipperlen
Rosenberg *	City Engineer	Charles Kalkomey
Rosenberg *	City Manager	John Maresh
Rosenberg *	Emergency Management Coordinator	Bill Adams
Rosenberg *	Executive Director Community Development	Travis Tanner
Rosenberg *	Mayor	Kevin Raines
Ross	City Secretary	David Filer
Round Rock *	City Engineer	Danny Halden
Round Rock *	City Manager	Laurie Hadley
Round Rock *	Mayor	Craig Morgan
Salado	Mayor	Michael Coggin
Salado	Mayor Pro Tem	Rodney Bell
San Felipe	Mayor	Bobby Byars
San Felipe	Public Works	Max Zapalac
Sandy Point	Mayor	CJ Waller
Sealy	Director of Public Works	Mark Pulos
Sealy	Executive Director of Economic Development Commission	Kimbra Hill
Sealy	Interim City Manager	Warren Escovy
Sealy	Mayor	Carolyn Bilski
Sienna Plantation Levee Improvement District	President	Kendall Beckman
Sienna Plantation Levee Improvement District	Representative	John Richardson
Sienna Plantation Municipal Utility District 13	Representative	Jerry Graham
Sienna Plantation Municipal Utility District 14	Representative	Noe Escobar
Simonton	City Engineer	Charles Kalkomey
Simonton	Emergency Management Coordinator	Erica Molina
Simonton	Mayor	Laurie Boudreaux
Snook	Mayor	John W. See, III
Somervell	Emergency Management Coordinator	Dwayne Griffin
Somervell	Judge	Danny L. Chambers
Somerville	Mayor	Tommy Thompson
Stephenville *	City Manager	Allen L. Barnes
Stephenville *	Mayor	Doug Sevin
Strawn	City Administrator	Daniel Miller
Strawn	Mayor	Omer Mallory
Sugar Land *	Asst City Manager	Chris Steubing
Sugar Land *	City Engineer	Jessie Li
Sugar Land *	Mayor	Joe R. Zimmerman
Surfside Beach	Mayor	Gregg Bisso
Teague	City Administrator	Theresa Bell
Teague	Mayor	James Monks
Temple *	City Engineer	Richard Wilson
Temple *	Mayor	Tim Davis
Thompsons	Mayor	Freddie Newsome Jr.
Thorndale	City Administrator	Keith Kiesling

All listed entities received an outreach call between 7/20/2021 and 7/30/2021.
*Entities with populations greater than 20,000 receieved a second phone call between 8/1/2021 and 9/1/2021.

Entitiy Represented	Contact Position	Contact Name
Thorndale	Mayor	George Galbreath, Jr.
Thornton	Mayor	Keneth Capps
Thrall	Mayor	Troy Marx
Tolar	Director of Public Works	Derek Malone
Tolar	Mayor	Terry Johnson
Troy	Building Official	Tom Doehre
Troy	Mayor	Michael Morgan
Upper Brushy Creek Water Control & Improvement District	General Manager	Alysha Girard
Valley Mills	City Secretary	Celia Rodgers
Valley Mills	Mayor	Josh Thayer
Velasco Drainage District	Superintendent	Chris Gallion
Vista Oaks & Williamson-Travis Municipal Utility Districts	Representative	David Gray
Waco *	City of Waco EOC	Elizabeth Thomas
Waco *	Director of Public Works	Amy Burlarley-Hyland
Waco *	Mayor	Dillon Meek
Waller	Mayor	Danny Marburger
Waller	Mayor Pro Tem	Dwayne Hajek
Waller *	County Engineer	Yancy Scott
Waller *	Fire Chief; Emergency Management Director	Brian Cantrell
Waller *	Judge	Carbett "Trey" J. Duhon, III
Waller County Improvement District 2	Representative	George Huntoon III
Waller County Municipal Utility District 19	Representative	Adam Hollingsworth
Walnut Springs	Mayor	Sammy Ortega
Washington *	Emergency Management Coordinator	Bryan Ruemke
Washington *	Floodplain Administrator	Mark Marzahn
Washington *	Judge	John Durrenberger
Washington *	Washington County Engineering and Development Services	J. Ross McCall
Weir	City Secretary	Veronica Garner
West	City Administrator	Shelly Nors
West	Mayor	Tommy Muska
West Bastrop Village Municipal Utility District	Representative	Kalinda Howe
West Central Texas Council of Governments	Representative	Tom Smith
West Columbia	City Manager	Debbie Sutherland
West Columbia	Mayor	Laurie B. Kincannon
West Fort Bend County Water Authority	Representative	Matthew Froehlich
West Harris County Regional Water Authority	Representative	Wayne Ahrens
Weston Lakes	Emergency Management Coordinator	Barrett Shepherd
Weston Lakes	Mayor	Ramona Neal
Whitney	City Administrator	Chris Bentley
Whitney	Mayor	Trey J. Jetton
Williamson *	County Engineer	J. Terron Evertson
Williamson *	Director	Michael Shoe
Williamson *	Judge	Bill Gravell, Jr.
Williamson Municipal Utility District 10	Representative	Bradley Burns
Williamson Municipal Utility District 11	Representative	Alan Tillman
Williamson Municipal Utility District 13	Representative	Hal Lanham
Williamson Municipal Utility District 23	Representative	Kris Elhert
Williamson Municipal Utility District 25	Representative	Jason Natho
Williamson Municipal Utility District 26	Representative	Tyler Gatewood
Williamson Municipal Utility District 30	Representative	Rob Glenn
Wixon Valley	Mayor	James Soefje
Wixon Valley	Planning and Development	Kim Hinton
Woodway	City Manager	Shawn Oubre
Woodway	Mayor	Jane Kittner

All listed entities received an outreach call between 7/20/2021 and 7/30/2021.
*Entities with populations greater than 20,000 receieved a second phone call between 8/1/2021 and 9/1/2021.

Appendix 10.3

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP

MONTHLY PUBLIC MEETING

THURSDAY
JUNE 23, 2022
10:00 A.M.

Please make plans to attend our meeting virtually or in person. We're currently seeking public input on the draft chapters of the regional flood plan that describe the flood management strategies, evaluations, and mitigation projects, as well as impacts of regional flood plan for the basin.

Visit ***lowerbrazosflood.org*** for details on the virtual meeting and draft documents for public review and comments.

In person meeting location:
Brazos River Authority
4600 Cobbs Drive
Waco, TX 76710

Appendix 10.4

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP

PUBLIC OPEN HOUSE WACO

Please join us at the Waco open house meeting to learn about the State's Flood Planning Program and the current draft of the Lower Brazos Regional Flood Plan.

We need your feedback to make sure the proposed flood mitigation projects and strategies represent your community for future funding opportunities.

Visit **lowerbrazosflood.org** for additional meeting details.

Thursday, March 24, 2022

1:00 - 3:00 PM

Brazos River Authority - Central Office

4600 Cobbs Drive, Waco, Texas 76710

Appendix 10.5

REGION 8

LOWER BRAZOS REGIONAL FLOOD PLAN

Public Open House Meeting No. 1

Brazos River Authority – Central Office (Waco)
March 24, 2022

Opening Remarks

Scott Rushing, P.E., CFM
Project Manager, Halff Associates

Welcome

Brandon Wade, P.E.
Lower Brazos RFPG Chair

Presentation Outline

- Open House Meeting Overview
- TWDB State Flood Planning Highlights
- Lower Brazos Regional Flood Planning Group
- Project Scope of Work Summary
- Data Collection Request
- Project Schedule
- Interactive Stations

Open House Meeting Overview

Purpose:

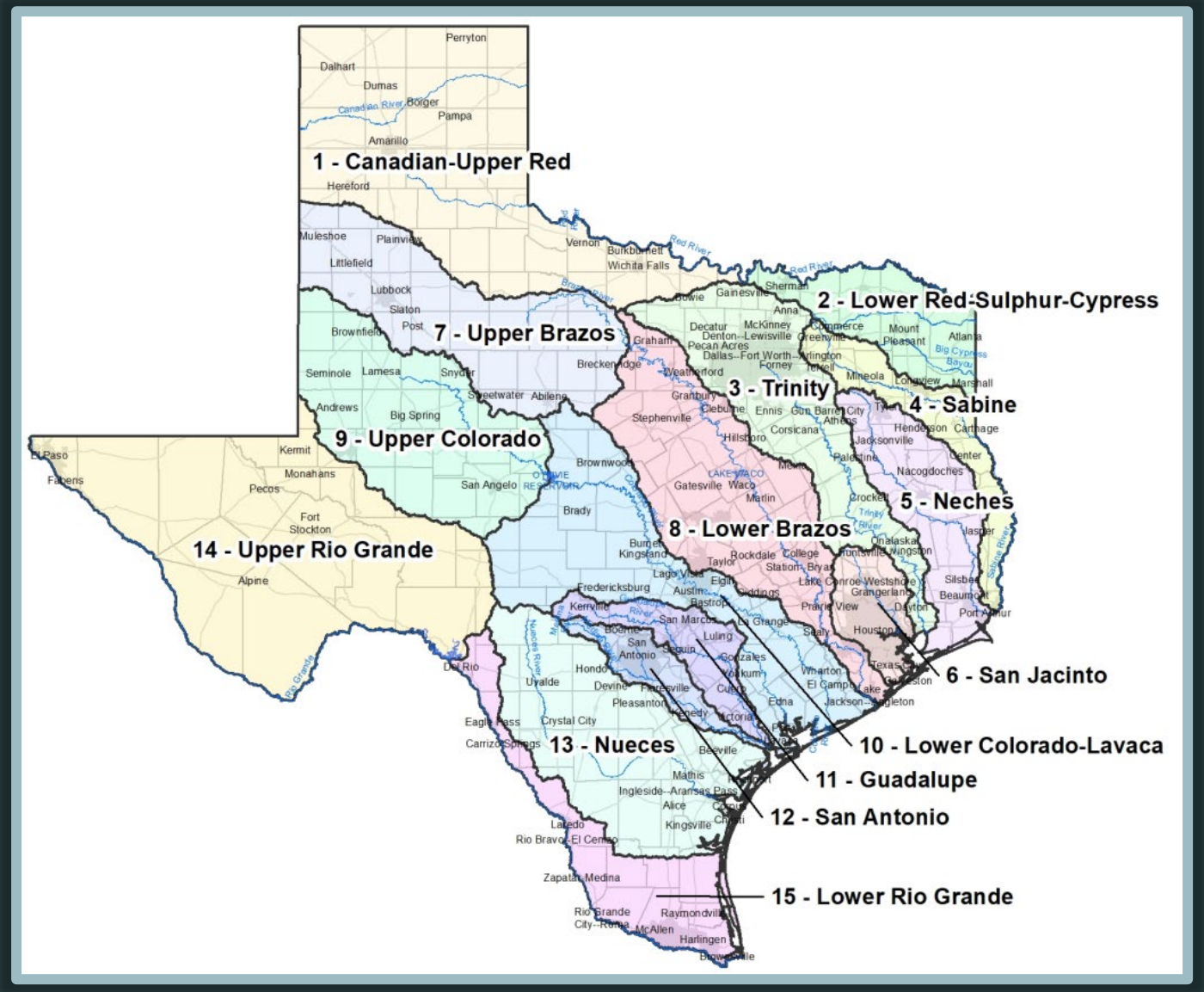
- Educate the public on the planning process, provide update on progress, and gather feedback.
- Understand the flood risk needs in the region.
- Increase participation in planning process from stakeholders and the public.

Relevance:

- We need your input to make sure the flood-related concerns, challenges and goals are accurately captured for the entire region.
- Your applicable flood risk needs will be included in the plan and may be eligible for future funding.

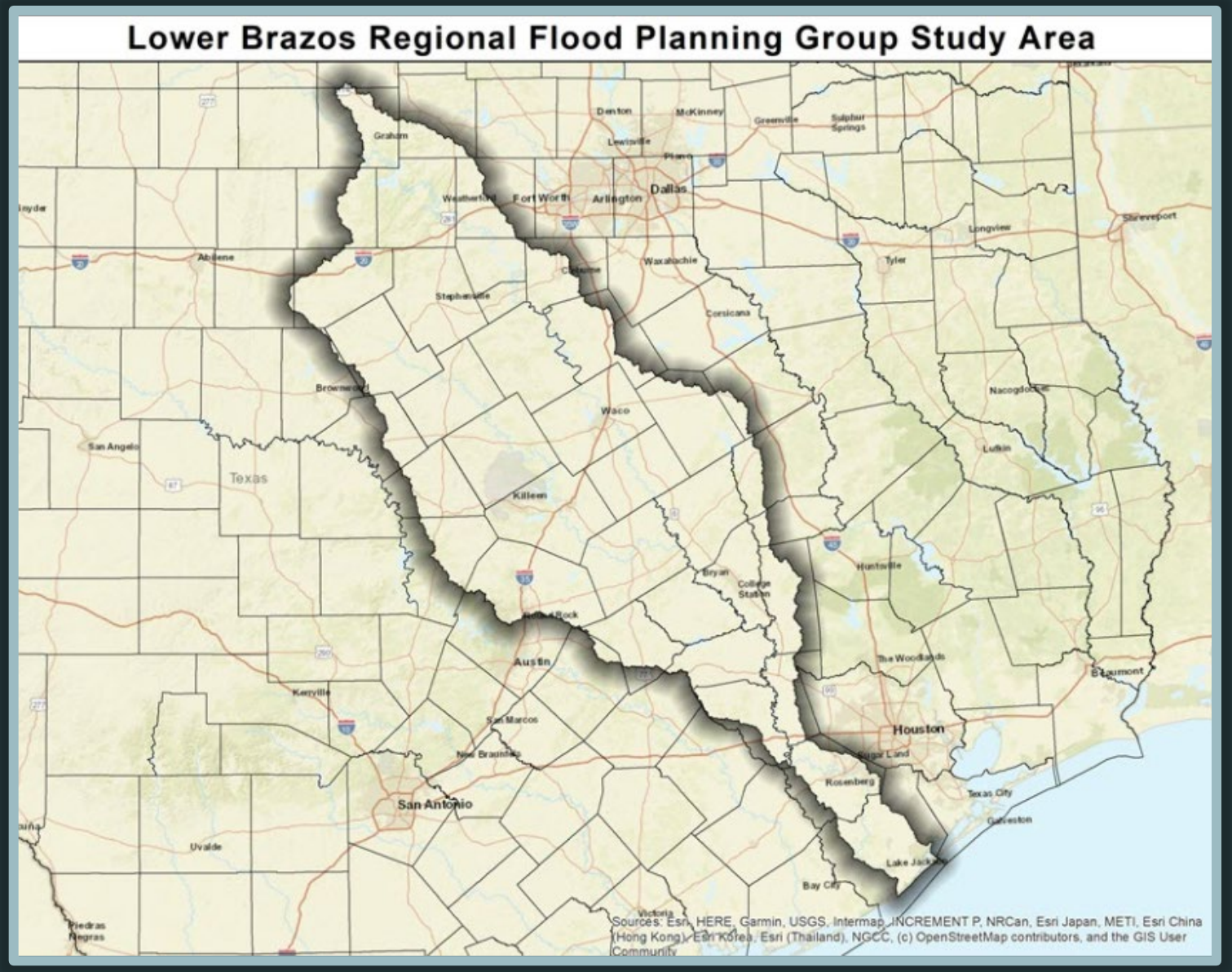
State Flood Plan Overview

- In 2019, the 86th Texas Legislature passed Senate Bill SB8
- SB8 provides a process for statewide flood planning
- Texas Water Development Board (TWDB) charged with implementing SB8
- Fifteen (15) regional flood planning groups created by TWDB

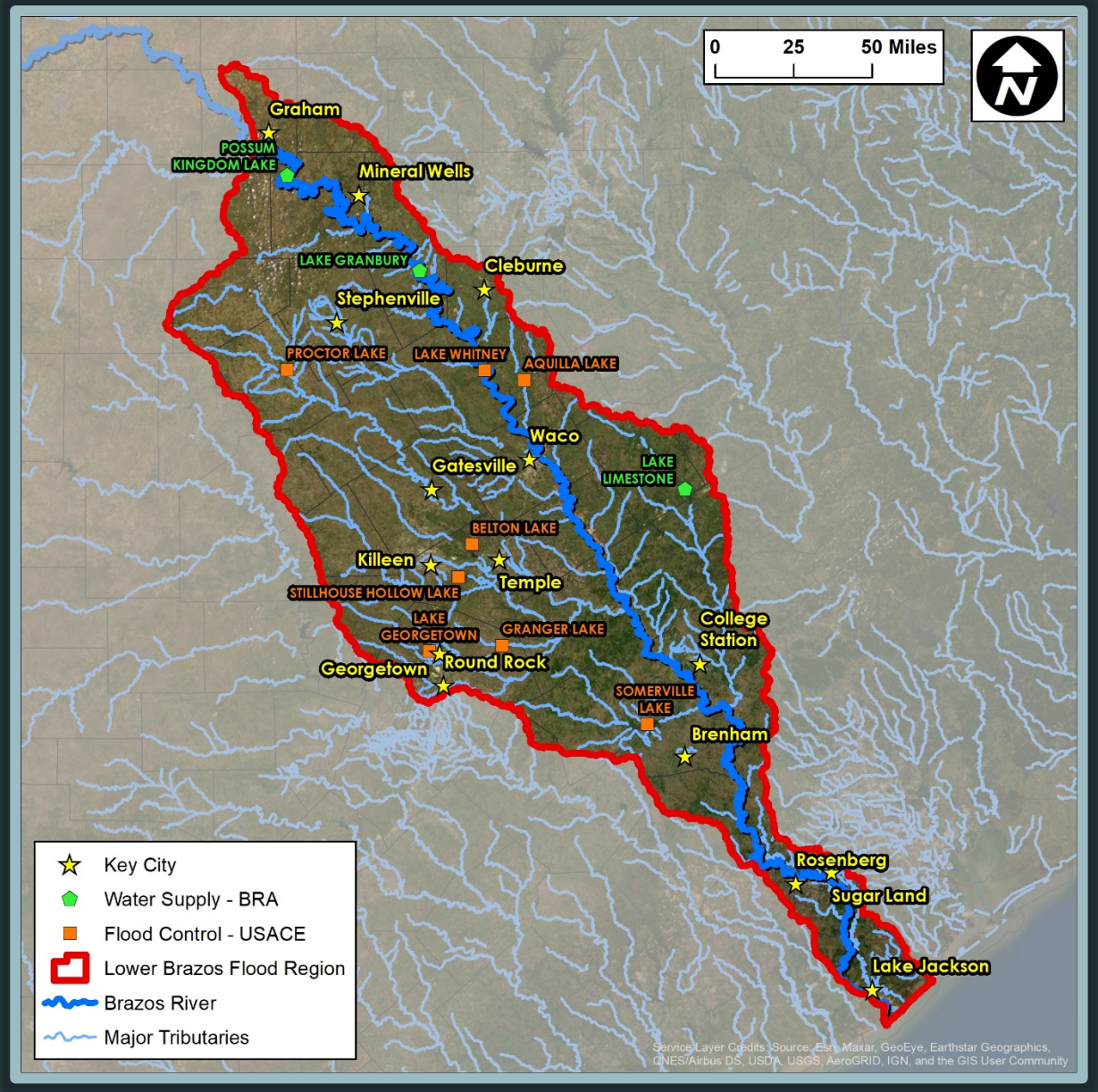


Regional Flood Plan Overview

- Each regional flood planning group (RFPG) will develop regional flood plan
- Bottom-up approach to flood planning
- Updated regional plans required every 5 years
- **Projects must be included in plan to be considered for TWDB funding assistance**



Lower Brazos Region



MAJOR STREAMS

- Brazos River
- North Bosque River
- Leon River
- San Gabriel River
- Lampasas River
- Little River
- Navasota River
- Yegua Creek
- Oyster Creek

RESERVOIRS

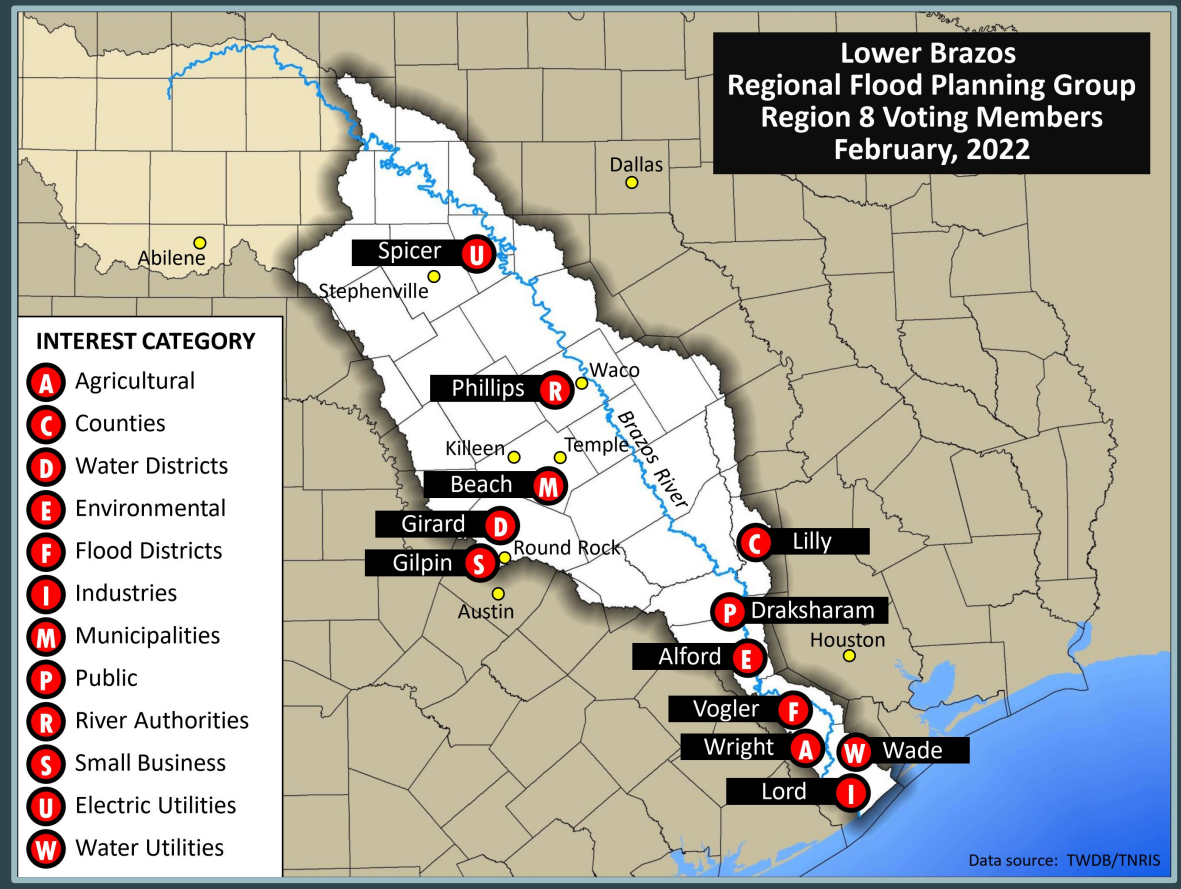
- 9 flood control reservoirs
- 3 water supply reservoirs

BASIN DETAILS

- Extents: 23,450 square miles
- 2020 Population: 3 million
- Number of counties: 43
- Number of communities: 193

Lower Brazos RFPG Members (Voting)

Name	Interest Category
Claudia Wright	Agricultural Interests
David Lilly	Counties
Gary Spicer	Electric Generating Utilities
Susan Alford	Environmental Interests
Mark Vogler	Flood Districts
Glenn Lord	Industries
Anthony Beach	Municipalities
Sujeeth Drakshram	Public
Matt Phillips, *Secretary*	River Authorities
Charlotte Gilpin	Small Business
Alysha Girard, *Vice-Chair*	Water Districts
Brandon Wade, *Chair*	Water Utilities



Lower Brazos RFPG Members (Non-Voting)

Name	Position/Title	Entity
David Young	Hydrologist	Texas Parks and Wildlife Department
Natalie Johnson	Unit Chief Recovery and Mitigation	Texas Division of Emergency Management
Michele Bobo	Field Representative	Texas Department of Agriculture
Steve Bednarz	Flood Control Program Administrator/Engineer	Texas State Soil and Water Conservation Board
**Vacant Position*	NA	General Land Office
Ryke Moore	Regional Flood Planner	Texas Water Development Board
Richard Monreal	Waco Water Station Manger	Texas Commission on Environmental Quality
Charles Erickson	Lead Hydraulic Engineer	US Army Corp of Engineers
Larry Voice	Senior Engineer	Federal Emergency Management Agency, Region 6
Mike Turco	General Manager	Fort Bend Subsidence District
Matt Hanks	County Engineer	Brazoria County

Technical Consultant Team

HALFF

FREESE AND NICHOLS

H2O PARTNERS

TORRES & ASSOCIATES, LLC
ENGINEERS | SCIENTISTS | PROFESSIONALS

SUSAN ROTH
water and wastewater consulting

Experts in

FLOOD CONTROL

70+ years of Flood Control Experience

25 *offices* *in* **5** *states*

over **1,000** *employees*

serving **Texas** *since 1950*

pioneered *watershed-based flood planning since 1968*

Roles and Responsibilities

RFPG Member Responsibilities

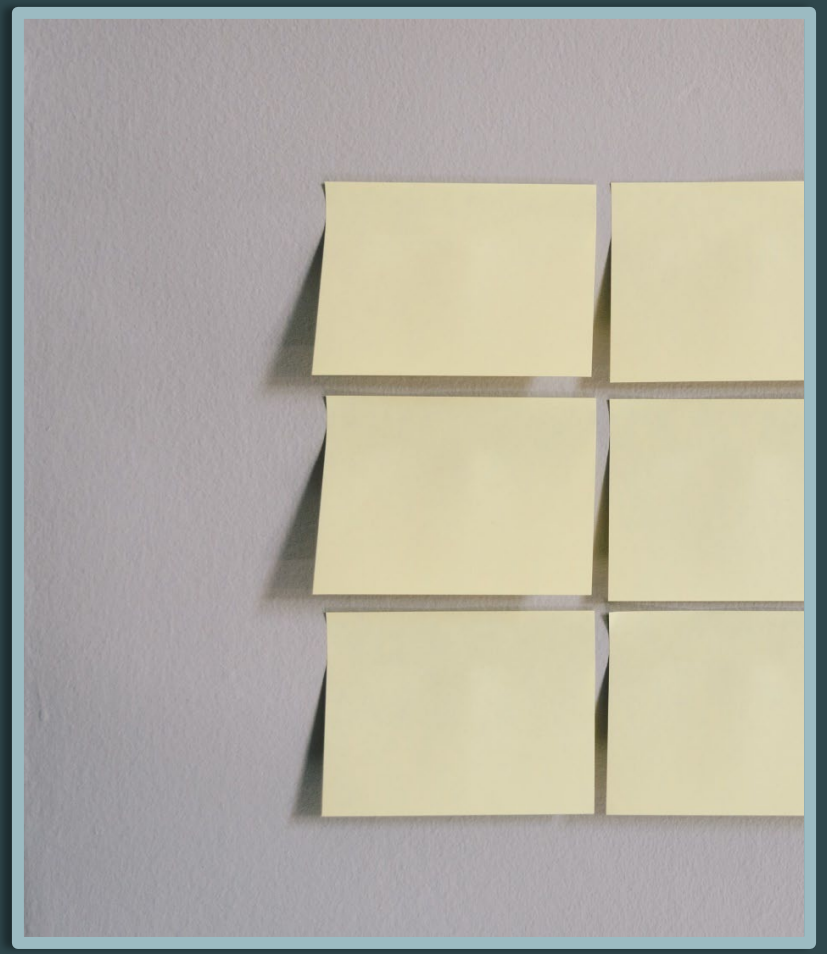
- Support public and stakeholder engagement
- Identify key stakeholders
- Prepare for and participate in meetings and workshops
- Review and provide feedback on consultant deliverables
- Approve submittal of Chapters, Technical Memo, and Draft Regional Plan
- Adopt and submit the Regional Flood Plan

Technical Team Responsibilities

- Ensure compliance with TWDB requirements and schedule
- Guide and facilitate the planning process
- Facilitate public and stakeholder engagement
- Gather data/information
- Conduct planning and technical analysis
- Prepare Chapters, Technical Memo, Draft Report, and Final Report based on RFPG input

Regional Flood Plan – High Level Scope

- Gather and analyze data
- Identify existing and future flood risks
- Evaluate flood management practices and determine goals
- Recommend evaluations, strategies, and project to reduce flood risks
- Develop a regional flood plan to help mitigate and provide solutions to flooding in the future



Data Collection Collaboration

TWDB Provided Data

Other Data Sources

TXGLO

FEMA

National Weather Service

Texas Commission on Environmental Quality

US Army Corps of Engineers®

Texas Division of Emergency Management

USGS science for a changing world

NOAA National Oceanic and Atmospheric Administration U.S. Department of Commerce

Texas Parks & Wildlife

Texas Department of Transportation

Texas A&M AgriLife Extension

Data Collection

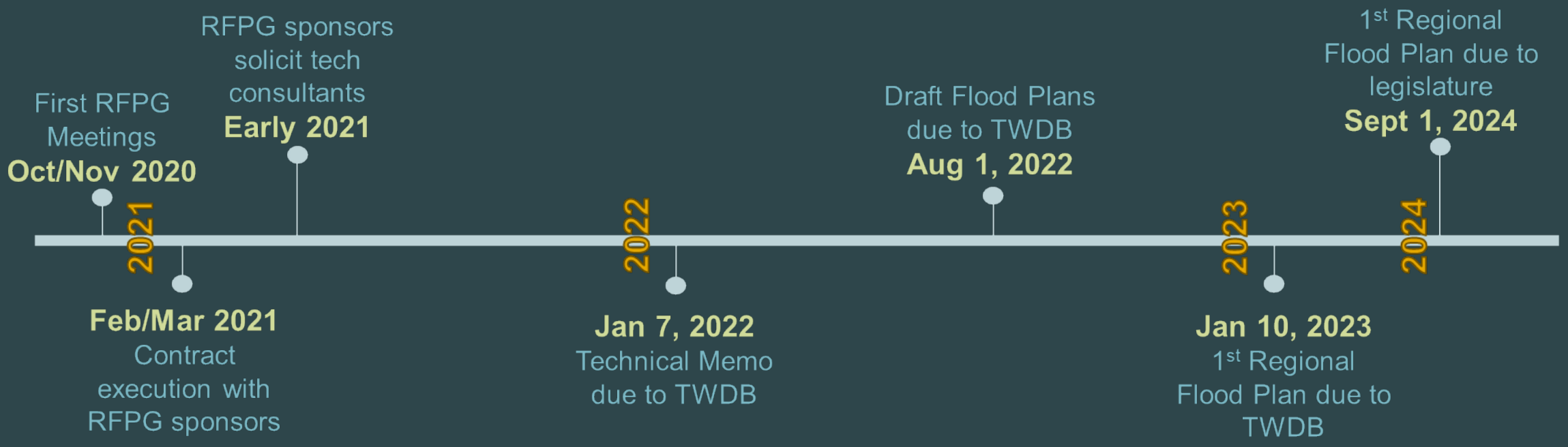
STAKEHOLDER SURVEY

- Sent out to 550 stakeholders to gather community information
  - Floodplain Management / Ordinances
  - Flood History
  - Floodplain Maps and Studies
  - Risk Reduction Alternatives
  - Flood Finance
  - Natural Resources & Condition Changes
  - Hazard Mitigation & Emergency Planning
  - Existing Infrastructure
- Open June 30, 2021 – August 31, 2021

KEY INFORMATION STILL NEEDED

- Proposed flood mitigation projects, evaluations, or strategies **with supporting hydraulic & hydrologic models**
- Details on ongoing mitigation efforts
- Upload data to respective questions within Stakeholder Survey
  - Prioritize relevant questions that are key to your community
- Or upload data files to **www.lowerbrazosflood.org**

Overall Flood Planning Timeline



Looking Ahead to August 2022

MARCH 2022

- Lower Brazos RFPG Meeting (3/24)
- Waco Open House Meeting (3/24)
- Granbury Open House Meeting (3/29)
- Georgetown Open House Meeting (3/30)

APRIL 2022

- College Station Open House Meeting (4/5)
- Rosenberg Open House Meeting (4/7)
- Draft Ch 2 – Flood Risk Analyses (4/21)
- Draft Ch 4 – Assessment and Identification of Flood Mitigation Needs (4/21)
- Lower Brazos RFPG Meeting (4/28)
- Deadline for public to submit studies, projects, or strategies (4/30)

MAY 2022

- Lower Brazos RFPG Meeting (5/26)

JUNE 2022

- Lower Brazos RFPG Meeting (6/23)

JULY 2022

- Draft Regional Flood Plan available for public comment (7/21)
- Lower Brazos RFPG Meeting (7/28)

AUGUST 2022

- Draft Regional Flood Plan due to TWDB (8/1)

Interactive Stations

- TWDB State Flood Plan
- Regional Flood Risk (Existing/Future)
- Lower Brazos RFPG Practices & Goals
- Flood Management Evaluations, Strategies & Projects

Lower Brazos Regional Flood Planning Group Email Address & Website

Project Email Address:
LBFlood@brazos.org

Project Website:
www.lowerbrazosflood.org

Appendix 10.6

Appendix 10.6 - Waco Public Roadshow Meeting

Name	Entity/Agency
Caitlin Heller	H2O Partners
Curtis Beitel	Walker Partners
Mark Hyde	City of Harker Heights
Jeff Watkins	Falls County
Peyton Lisenby	BRA
Justin French	City of Robinson
Bob Harrell	Coryell County
Will Jones	McLennan County Pct. 3
Arthur Mann	Hillsboro EDC
Duane Herrera	Bell County Engineer Office
Richard Reinhardt	City of Hillsboro

Appendix 10.6 - Georgetown Public Roadshow Attendance

Name	Entity/Agency
Mark Vogler	Fort Bend County Drainage District
Chad Cormack	EDGE Engineering, PLLC
Alysha Girard	LBRFPG
David Zwernemann	Williamson County
James Bronikowski	TWDB
Staci Vance	BRA

Appendix 10.6 - Grandbury Public Roadshow Attendance

Name	Entity/Agency
Caitlin Heller	H2O Partners
Dane Eagle	Hood County Commissioner Pct. 4
Jeannie Stacks	Hood County Environmental
Clint Head	Hood County Development/Floodplain
Nannette Samuelson	Public
Ron Massingill	County Judge
Roger Deeds	Sheriff
Jay Webster	EMC
Larissa Knapp-Scott	LJA Engineering
Jack Wilson	Hood County Commissioner Pct. 3
Kevin Andrews	Hood County Commissioner Pct. 1

Appendix 10.6 - College Station Public Roadshow Attendance

Name	Entity / Agency
Name	Entity/Agency
John and Rickie Bonner	Lake Limestone Residents
Carol Cotter	City of College Station
Reem Zoun	TWDB
Clark and Susan Gandy	Lake Limestone
Rusty and Shirley Richards	Lake Limestone
Joyce M Coleman	Navasota River - North Zulch
Michael Phillips	Public
Caroline Ask	City of College Station
Mike & Kelly Harvey	Lake Limestone
Mike & Debbie Wood	Lake Limestone
Rhonda Cerrone	Lake Limestone Property
John Cerrone	Lake Limestone Property
Steve London	Lake Limestone Property
Steve Moore	Lake Limestone Property
Chuck Radney	Lake Limestone Property
Robert Moore	Lake Limestone Property
Diana Bayliss	Lake Limestone Property
Mark Bayliss	Lake Limestone Property
Larry Dyer	Lake Limestone Property
R? and Ronelle Jamieson	Lake Limestone Property
Jeff Janecek	Fort Bend Co. Drainage District
Zeta Fail	
John Greensage	SLC Water Supply
Sam Vernon	City of Bryan
Erika Bridges	City of College Station
Vicki Dobiyanski	Lake Limestone

Appendix 10.6 - Rosenberg Public Roadshow Attendance

Name	Entity/Agency
Greg Babst	FBC HS +EM
Ron Frerich	FC LID 2
Debby Coffman	FCLID
Jorge L. Alba	City of Sugar Land
Doug Roesler	Angelton Drainage District, Velasco Drainage District, Baker & Lawson
Jeff Wiley	Fort Bend EDC/LID 2
Kent Savage	FB LID #6
Kalapi Sheth	President, FB LID 19
Jacob Clayton	FBCDD
Chris Steubing	City of Sugar Land
Don Burns	Fort Bend LID # 10
Mark Vogler	Fort Bend County
Jeff Janecek	FBCDD
Ed Harrigan	Resident MUD 140
Michael Turco	Fort Bend Subsidence District
Roberta Terrell	Fort Bend LID 11
Karen Carr	Resident
Gary Pochyla	Fort Bend LID 6
Craig Kalkomey	LJA/ Fort Bend LID No 2/14
Barbara Minton	FB
Robert Frost	
Synda Frost	
Stephen Lammers	Fort Bend County MUD No 25
Brian Fambrough	FBCDD
Mike Thelen	LID
Neil Goertz	FBCDD
Claudia Wright	Lower Brazos RFPG
Dave Scott	
Dan Ives	Bayou Park
Brad Moon	MUD 25

Appendix 10.7

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
1	1	General	Please ensure that all “Submittal requirements” identified in each of the Exhibit C Guidance document sections are submitted in the final flood plan.	The final submittal was checked against all regional flood planning documentation to ensure there is consistency with the requirements.
2	1	SOW Task 1	Existing Flood Infrastructure, Text: Some data within Tables 1.13 through 1.18 do not appear to align with GIS feature classes. For example, the ExFldInfraLn feature class includes 59 Levees and 32 Sea Barriers which does not appear to align with the count in the tables. Please review and reconcile [31 TAC §361.31(a)&(b)].	Tables 1.13 through 1.18 were checked against the GIS information and updated to reflect the current data where applicable.
3	1	SOW Task 1	Existing Flood Projects Table (Exhibit C, Table 2): Please review unique ID guidance listed in Exhibit D Table 2 guidance pertaining to Existing Project IDs for Exhibit C Table 2. Existing Project ID 8000001 begins with “8” when it should begin with “08”. Please reconcile [31 TAC §361.32].	The Existing Project ID numbers were revised to all start with 08 and follow Exhibit D guidance on number formatting.
4	1	SOW Task 1	Existing Flood Infrastructure GIS Feature Class, ExFldInfraPt: Please include all low water crossings (LWCs) identified during the flood planning process in this feature class. The ExFldExpAll feature class appears to contain LWCs that are not included in the ExFldInfraPt feature class. Note: This is required in contrast to the optional LWC feature class. Refer to Exhibit D Table 7 for a list of valid entries [31 TAC §361.31].	After reviewing the data, we did not find a discrepancy. All LWC points found within the ExFldExpAll layer were present in the ExFldInfraPt layer.
5	1	SOW Task 2A	Existing Condition Flood Hazard Analysis, Text: Please include total land areas (square miles) of each flood risk by flood risk type, county, region, and frequency as per guidance document (Exhibit C page 24): Submittal requirement #2.	Table 2A-1 in Appendix 2A.1 was revised to provide total land area in square miles of the flood risk areas by flood risk type, county, region, and frequency.
6	1	SOW Task 2A	Existing Condition Flood Exposure, Text: The Structure and Residential Structure counts in Table 2.3 do not appear to match the Table 3 and ExFldExpAll feature class counts. Please review and reconcile [31 TAC §361.33(c)].	Table 2.3 was updated to reflect the exposed low water crossings, agricultural area, and structure counts from the ExFldExpAll feature class.
7	1	SOW Task 2A	Existing Condition Flood Exposure Table (Exhibit C, Table 3): The Structure and Residential Structure counts in Table 3 do not appear to match the ExFldExpAll feature class counts. Please review and reconcile [31 TAC §361.33 & Exhibit C 2.2.A.3].	Table 3 was updated to reflect the structure and residential structure counts from the ExFldExpAll feature class.
8	1	SOW Task 2A	Existing Condition Flood Exposure GIS Feature Class, ExFldExPt: Please ensure that the following critical facility types are included in the polygon feature class (ExFldExpPol) instead of the Point feature class (ExFldExpPt): Schools, hospitals, and fire stations [31 TAC §361.33(c) & Exhibit C 2.2.A.2].	Each critical facility point in ExFldExpPt was related to its associated building within the ExFldExpPol and ExFldExpAll layers. This was accomplished by inspecting each critical facility point within ExFldExpPt and determining its associated building within the ExFldExpPol layer. The identified buildings were then updated within the ExFldExpAll layer to reflect the corresponding critical attributes (i.e., CRITICAL, CRIT_TYPE, and CRIT_DESC). The critical facility within ExFldExpPt was removed to avoid instances of duplication.
9	1	SOW Task 2A	Existing Condition Flood Vulnerability GIS Feature Class, ExFldExpAll: The Structure and Residential Structure counts in Table 3 do not appear to match the ExFldExpAll feature class counts. Please review and reconcile [31 TAC §361.33(c), (d) & Exhibit C 2.2.A.2].	Table 3 was updated to reflect the structure and residential structure counts from the ExFldExpAll feature class.
10	1	SOW Task 2A	Model Coverage, Text: The future hydraulic models are described, but not the existing models. Please include a summary of information from all models identified in the ModelCoverage feature class within the text of Chapter 2 [31 TAC §361.33(b)(2)].	Section 2A.1.b in Chapter 2 was expanded to provide a description of all the models found in the ModelCoverage feature class.
11	1	SOW Task 2B	Future Condition Flood Hazard Analysis, Text: Please include total land areas (square miles) of each flood risk by flood risk type, county, region, and frequency as per guidance document (Exhibit C page 33): Submittal requirement number 3.	Table 2B-2 in Appendix 2B.1 was revised to provide total land areas in square miles of flood risk areas by flood risk type, county, and frequency.
12	1	SOW Task 2B	Future Condition Flood Exposure, Text: The Low Water Crossing and Residential Structure counts in Table 2.8 do not appear to match the Table 5 and FutFldExpAll feature class counts. Please review and reconcile [31 TAC §361.34(c)].	LWC counts were reviewed and found to be accurate. Updates were made to residential structure counts in Table 5 to match GIS data, which was found to be accurate.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
13	1	SOW Task 2B	Future Map Gaps Map (Exhibit C, Map 9): Please include identified additional Flood Prone Areas that were originally included in Map 10 submitted with the March 7 Tech Memo deliverables. These do not appear to be included [31 TAC 361.34(b)(6)].	Included Flood Prone Areas as was done in Map 10 from the Technical Memorandum submittal.
14	1	SOW Task 3B	Goals, Text: Please state and explain the levels of residual risk that will remain in the Flood Planning Region even after the stated flood mitigation goals are fully met [§361.36 & Exhibit C 2.3.B].	Residual risk was added to Appendix 3.3 - Table 11. A more explicit reference to the information was added to the text of Chapter 3.
15	1	SOW Task 4B	Flood Management Evaluations (FME) Map (Exhibit C, Map 16): It appears that an indication of whether FME area is associated with previous studied area is not noted. Please indicate on the map whether the identified FME area is associated with a previously studied area that requires an update or if the identified study area does not have any existing or anticipated flood mapping, models, etc., and therefore requires an initial study [31 TAC §§61.38(m)].	Maps 16 and 19 were revised to show all FME records as polygons so that project boundaries are more clearly defined. FMEs were then symbolized based upon FME Type and status of associated mapping to follow the Exhibit C guidance more strictly. The design principles of Maps 16 and 19 were also applied to maps 17, 18, 20 and 21. All FMXs previously displayed as points are now represented as their actual polygon shape within the FMX layers. This should address the following comments: 15, 21, 46, 48, 52, and 53. Note: Due to the variable size of FMX boundaries and their closeness in proximity, there are multiple instances of FMX boundaries overlapping one another within Maps 16-21. While efforts were made to reduce instances of obscured FMXs, not all FMX boundaries are completely visible.
16	1	SOW Task 4B	Flood Mitigation Projects (FMP) Table (Exhibit C, Table 13): Many BCR field entries appear to contain values of 0 or less than 0.1. Please review and confirm. [31 TAC §361.38(c-e) & Exhibit C 2.4.B].	The BCR values were checked for accuracy. More detail was added to Section 4B.5.c of Chapter 4 to explain why the BCRs are low for the projects located near the Brazos River. Even though the projects considerably reduce flood risk associated with local riverine flooding, the areas still have a residual risk associated with the Brazos River floodplain. When accounting for the Brazos River floodplain, the BCR drops considerably. Additionally, many of the projects are located in rural areas. These projects will help contain the floodplain within banks of the creek and reduce future flood risk. However, the benefit to existing flood risk is small due to the low population density of the benefit area.
17	1	SOW Task 4B	Flood Mitigation Projects GIS Feature Class, FMP: Many 'BC_RATIO' field entries contain values of 0 or less than 0.1. Please review and confirm [31 TAC §361.38(c-e) & Exhibit C 2.4.B].	See response to comment 16 above.
18	1	SOW Task 4B	Flood Management Strategy (FMS) Table (Exhibit C, Table 14): It appears that the required field Non-recurring Non-capital Cost is missing from Table 14. Please confirm that all NULL values utilized for numeric fields represent either "not applicable" or "unknown". Please complete all required fields with valid entries per the Summary Update to Exhibit D document available on the TWDB website [31 TAC §361.38(d) & Exhibit C 2.4.B].	The Non-recurring Non-capital Costs field was added to Table 14. Values were filled in where appropriate in the Table and associated GIS feature class.
19	1	SOW Task 4B	Flood Management Strategy (FMS) GIS Feature Class, FMS: It appears there are several required fields including but not limited to 'AREA_100', 'STRUCT_100', and 'POP100' with missing values. Please confirm that all NULL values utilized for numeric fields represent either "not applicable" or "unknown". Please adhere to Exhibit D guidance on required fields and valid entries and reconcile where necessary [31 TAC §361.38(d) & Exhibit D].	The identified fields, and other similar fields, were confirmed to be intentionally filled out with NULL values. These values were determined to be difficult to calculate for FMSs, due to their broad and undefined nature. More detail on the evaluation approach for FMSs can be found in Section 4B.5.c of Chapter 4.
20	1	SOW Task 5	Flood Management Evaluation (FME) Recommendations (Text, Exhibit C Table 15, and GIS Feature Class, FME): Table 15 and the FME feature class both include 85 recommended FMEs, however, Section 5.5.2 of the report states that 86 FMEs were recommended by the RFPG. Please review and reconcile accordingly for consistency.	Section 5.5.2 of Chapter 5 was reconciled with Table 15 and the FME feature class to represent the correct number of recommended FMEs. As public comments have been addressed, this number has changed and has been updated accordingly in all sections.

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TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
21	1	SOW Task 5	Flood Management Evaluation (FME) Recommendations Map (Exhibit C, Map 19): It appears that an indication of whether FME area is associated with a previously studied area is not noted. Please indicate on the map whether the identified FME area is associated with a previously studied area that requires an update or if the identified study area does not have any existing or anticipated flood mapping, models, etc., and therefore requires an initial study [31 TAC §361.39 & Exhibit D 3.10].	Map 19 was revised to more strictly adhere to the guidelines of Exhibit C. See response to comment 15.
22	1	SOW Task 5	Flood Mitigation Project (FMP) Recommendations, Text: Each recommended FMP must be accompanied with an associated model or supporting documentation to show no negative impact. Please confirm that this was done and provide reference to supporting materials. As per the draft report (page 4-30), "For structural FMPs and FMSs, reports were checked for certified statements by an engineer registered in the State of Texas that the associated project or strategy would not cause negative impacts upstream, downstream, or within the project area in events up to and including the one percent annual chance events. For FMPs and FMSs without these certifications, H&H models were reviewed for negative impacts as defined in the TWDB Technical Guidelines." For each recommended FMP, please identify in the plan how no negative impact was determined as required by Exhibit C Section 3.6.A (page 108), either via a model or a study, and submit the associated model or include the study name in tabular format.	Additional clarity has been provided under section 5.6 and table 5-6 that describes the process and methodology used to check for no negative impacts. The models and reporting associated with each FMP that were used to determine no impacts have been included in the submittal package.
23	1	SOW Task 5	Flood Mitigation Project (FMP) Recommendations Table (Exhibit C, Table 16): It appears that the sum of the 'FMP_COST' field entries in the FMP feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].	The FMP costs were validated using reports and other supporting documentation. The FMP GIS feature class was updated to include the correct FMP costs, and correspond to Table 16 and the FMP details table.
24	1	SOW Task 5	Flood Mitigation Project (FMP) Recommendations GIS Feature Class, FMP: It appears that the sum of the 'FMP_COST' field entries in the FMP feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].	The FMP costs were validated using reports and other supporting documentation. The FMP GIS feature class was updated to include the correct FMP costs, and correspond to Table 16 and the FMP details table.
25	1	SOW Task 5	Flood Mitigation Project (FMP) Details Table (Exhibit C, Section 3.9): It appears that the sum of the 'FMP_COST' field entries in the FMP feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].	The FMP costs were validated using reports and other supporting documentation. The FMP GIS feature class was updated to include the correct FMP costs and checked for consistency against Table 16 and the FMP details table.
26	1	SOW Task 5	Flood Management Strategy (FMS) Recommendations Table (Exhibit C, Table 17): It appears that the entire, required field Non-recurring Non-capital Cost is missing from Table 14. Please include and complete all required fields with valid entries per the Summary Update to Exhibit D document available on the TWDB website [31 TAC §361.39 & Exhibit C 2.5.C].	The Non-recurring Non-capital Costs field was added to Table 14. Values were filled in where appropriate in the Table and associated GIS feature class.
27	1	SOW Task 7	Flood Response Information and Activities, Text: Please include a written, general summary of actions taken or planned for recovery from past flood disasters in the region [31 TAC §361.42 & Exhibit C 2.7].	Additional discussion was added to Section 7.3 in Chapter 7 that outlines actions taken during previous disaster declarations in the Lower Brazos basin.

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TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
28	1	SOW Task 10	Please include a statement explaining that the plan, if implemented, will not negatively affect a neighboring area [31 TAC §361. 20(b)].	The following statement was added to Section 10.9 of Chapter 10: "Implementation of the regional flood plan will not negatively impact a neighboring area".
29	2	General	To better align with our agency's preferred nomenclature, please consider using the name, "Cursory Floodplain Data" instead of "Fathom" or Cursory Fathom Data" throughout the regional flood plan.	"Fathom" was updated to "Cursory Floodplain" or "Cursory Floodplain Modeling" as appropriate throughout the text.
30	2	General	When hyperlinks are included within the text, please consider including the full URL in a footnote or in-text parentheses so that those reading physical copies of the plan can more easily access the source material.	Full URLs were added in parentheses to all hyperlinks in the text.
31	2	General	Consider reviewing certain maps for legibility. It appears that some maps (Figure 1.15) may have lost resolution when incorporated into the draft plan document. Please consider enhancing image quality for legibility, as appropriate.	Figure 1.15 was replaced with a higher quality image to increase legibility.
32	2	SOW Task 1	Watersheds GIS Feature Class, Watersheds: Please consider linking this feature class to any relevant FME, FMS, or FMP when appropriate by populating the associated ID fields.	The watershed feature class was intersected with the FMX lists, and all FMXs with significant portions of their benefit areas within a watershed were listed in the associated ID fields.
33	2	SOW Task 1	Existing Flood Infrastructure Text (Exhibit C, Section 2.1): Please provide a description of how Low Water Crossings were identified within the text of Chapter 1.	Low Water Crossings were only identified through the dataset supplied by the TWDB. This is described in Chapter 1, section 1.2.2.a.
34-a	2	SOW Task 1	Existing Flood Infrastructure GIS Feature Classes, ExFldInfraPol, ExFldInfraLn, ExFldInfraPt: For fields which are unknown or not applicable, please use the following guidelines: Numeric fields should NOT have a placeholder value or "999999". They should be NULL if the field is not applicable, or the data is unknown.	Numeric fields in the outlined feature classes were checked for consistency with the NULL value guidance; no changes were made.
34-b	2	SOW Task 1	Existing Flood Infrastructure GIS Feature Classes, ExFldInfraPol, ExFldInfraLn, ExFldInfraPt: For fields which are unknown or not applicable, please use the following guidelines: For text fields with valid entry lists, only values on the Valid Entry list should be used, including NA and/ or Unknown. See the Additional Valid Entry section in this document for values that have been added during Draft review.	Text fields with valid entry lists in the outlined feature classes were checked for consistency with the NULL value guidance; no changes were made.
34-c	2	SOW Task 1	Existing Flood Infrastructure GIS Feature Classes, ExFldInfraPol, ExFldInfraLn, ExFldInfraPt: For fields which are unknown or not applicable, please use the following guidelines: Fields which list IDs from other feature classes may be "999999" if it is desired to indicate intentionally left blank. An example field is WS_ID in Ex_Map_Gaps.	Fields that refer to IDs of other feature classes in the outlined feature classes were checked for consistency with the NULL value guidance; no changes were made.
34-d	2	SOW Task 1	Existing Flood Infrastructure GIS Feature Classes, ExFldInfraPol, ExFldInfraLn, ExFldInfraPt: For fields which are unknown or not applicable, please use the following guidelines: Text fields without valid entry lists may be filled with NULL (preferred) or "999999" consistently if needed to indicate intentionally left blank unless "999999" has other specified use.	Text fields without valid entry lists in the outlined feature classes were checked for consistency with the NULL value guidance; no changes were made.
35	2	SOW Task 1	Deficient Flood Infrastructure Map (Exhibit C, Map 3): Please consider reviewing for consistency across certain maps, as necessary, and consider labeling lakes on Map 3 to match Map 1.	Map 3 was updated to include lake labels.
36	2	SOW Task 1	Previous Studies, Text: Please consider including the funding sources of the previous studies and consider incorporating previous studies funded by TWDB.	Funding sources were added to the chapter 1 text. Since no other studies were found to be relevant to the Lower Brazos regional flood plan, no additional studies were referenced in the report.

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TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
37	2	SOW Task 1	Existing Flood Projects, Text: Please consider expanding upon the summary of proposed or ongoing flood mitigation projects by discussing any significant or specific projects.	The proposed and ongoing projects are discussed in more detail in Section 2A.2.b in Chapter 2, as well as in Chapters 4 and 5.
38	2	SOW Task 2A	Existing Condition Flood Vulnerability, Text: Please consider adding a more detailed region-specific summary under Section 2A.4 Summary of Existing Conditions Flood Exposure Analysis and Vulnerability.	Section 2A.4 was updated to include a summary of flood exposure specific to the Lower Brazos region.
39a	2	SOW Task 2A	Existing Condition Flood Vulnerability GIS Feature Class, ExFldExpAll: There appears to be several features with an SVI value of 0. Please consider reviewing these points for accuracy.	Where possible, 0 values were updated to include latest SVI data. Values were set to NULL where data is unavailable.
39b	2	SOW Task 2A	Existing Condition Flood Vulnerability GIS Feature Class, ExFldExpAll: Please consider reclassifying features with entries of “Other” for the ‘EXP_TYPE’ field. For example, some features with ‘CRIT_TYPE’ as “Fire” or “School” may be better categorized as “Public Bldg” for the ‘EXP_TYPE’ field.	Critical facility EXP_TYPE and CRIT_TYPE designations were updated when adjusting the feature class as discussed in comment 8.
40	2	SOW Task 2B	Future Condition Flood Vulnerability, Text: Please consider adding a more detailed region-specific summary under Section 2B.4 Summary of Future Conditions Flood Exposure Analysis and Vulnerability.	Section 2B.4 was updated to include a summary of future flood exposure specific to the Lower Brazos region.
41	2	SOW Task 2B	Future Condition Flood Vulnerability GIS Feature Class, FutFldExpAll: There appears to be several features with SVI value of 0. Please consider reviewing these points for accuracy.	Where possible, 0 values were updated to include latest SVI data. Values were set to NULL where data is unavailable.
42-a	2	SOW Task 4B	Streams GIS Feature Class, Streams: Please consider linking this feature class to any relevant FME, FMS, or FMP when appropriate by populating the associated ID fields.	The streams were intersected with the FMXs, and relevant IDs were added to the associated ID fields in the Streams feature class.
42-b	2	SOW Task 4B	Streams GIS Feature Class, Streams: Please consider replacing “Unnamed Tributary” with “Tributary of XX” whenever the main channel is known.	Where possible, "Unnamed Tributary" designations were updated to indicate which channel the tributary flowed in to.
43-a	2	SOW Task 4B	Flood Management Evaluations (FME), Text: For county-wide watershed strategies where majority of the county falls outside of the RFPG boundary, please include justification how the strategy benefits the region and please coordinate with other RFPGs to make sure the efforts are not duplicated. For example, FME_ID 081000327.	FMEs with the majority (> 50%) of the area falling outside of the Lower Brazos region boundary were removed from our list and sent to the relevant region as discussed in Section 4B.3.c of Chapter 4. The FME mentioned in the example has 57% of it's area within the Lower Brazos region.
43-b	2	SOW Task 4B	Flood Management Evaluations (FME), Text: For areas with existing BLE models, please consider stating how the FME would improve upon the current BLE models. BLE is available for most of Region 8 and can be viewed here: https://www.twdb.texas.gov/flood/science/ble-status-viewer.html	A statement was added that some FMEs could leverage existing BLE models to enhance them and help fulfill the intent of the FME (section 4B.4.a in Chapter 4).
43-c	2	SOW Task 4B	Flood Management Evaluations (FME), Text: In areas where there is an ongoing TWDB-funded, FIF Category 1 study, please describe how this would be incorporated into the proposed FME. For example, FME_IDs 081000941 and 081000944 appear that they may, potentially contain duplicative efforts of an existing TWDB-funded, FIF Category 1 study in Williamson County (FIF_ID 40046).	A statement was added that some FMEs could utilize the results of the ongoing FIF Cat 1 studies to not duplicate effort (section 4B.4.a in Chapter 4).
43-d	2	SOW Task 4B	Flood Management Evaluations (FME), Text: Please consider reviewing to determine if certain FMEs can be classified as FMPs or FMSs or if they need to be studied and evaluated. For example, FME_IDs 081000934 and 081000921.	A few FMEs were moved to FMPs based on public comments. FME ID 081000934 and 081000921 were reviewed to determine if they, or other similar FMEs, could be reclassified as FMPs. This was determined to not be feasible due to lack of modeling provided by the sponsor. Modeling is necessary to prove a no negative impact and to determine flood risk reduction benefits.
44-a	2	SOW Task 4B	Flood Management Evaluations GIS Feature Class, FME: Please consider populating the ’MODEL_DESC’ field for clarity on existing studies to be used.	The MODEL_DESC field was updated to include a short description of the model that could be leveraged in development of the FME.
44-b	2	SOW Task 4B	Flood Management Evaluations GIS Feature Class, FME: It appears that the field 'ASSOCIATED' is missing from the FME feature class. Please consider adding and populating this field with valid entries per the TWDB broadcast email sent on June 3, 2022.	The ASSOCIATED field was added to the FME feature class and updated to include indications of interdependencies.

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TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
45	2	SOW Task 4B	Flood Mitigation Project (FMP), Text: Please consider expanding more on the general description of identified FMPs.	Section 4B.5.a was updated to include more information in the description of identified FMPs.
46	2	SOW Task 4B	Flood Mitigation Project (FMP) Map (Exhibit C, Map 17): Polygons in the FMP feature class appear to be represented as points in the map. Please consider representing FMPs as polygons for consistency.	Map 17 has been updated to represent FMPs as polygons.
47	2	SOW Task 4B	Flood Management Strategy (FMS), Text: Please consider expanding upon the general description of identified FMSs within the body of Chapter 4.	Section 4B.5.b was updated to include more information on the description of identified FMSs.
48	2	SOW Task 4B	Flood Management Strategy (FMS) Map (Exhibit C, Map 18): Polygons in the FMS feature class appear to be represented as points in the map. Please consider representing FMSs as polygons for consistency.	Map 18 has been updated to represent FMPs as polygons.
49-a	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations, Text: For county-wide watershed strategies where majority of the county falls outside of the RFPG boundary, please include justification how the strategy benefits the region and please coordinate with other RFPGs to make sure the efforts are not duplicated. For example, FME_ID 081000327.	FMEs with the majority of the area falling outside of the Lower Brazos region boundary were removed from our list and sent to the relevant region, as discussed in Section 4B.3.c of Chapter 4. The FME mentioned in the example has 57% of it's area within the Lower Brazos region.
49-b	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations, Text: For those areas in RFPG with existing BLE models, please consider stating how the FME will improve upon the current BLE models. BLE is available for most of Region 8.	A statement was added that some FMEs could leverage existing BLE models and enhance them to fulfill the intent of the FME (section 5.2.1 in Chapter 5).
49-c	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations, Text: In areas where there is an ongoing TWDB-funded FIF Category 1 study, please describe how this would be incorporated into the proposed FME. For example, FME_IDs 081000941 and 081000944 appear that they may contain duplicative efforts of an existing FIF Category 1 study in Williamson County (FIF_ID 40046).	A statement was added that some FMEs could utilize the results of the ongoing FIF Cat 1 studies to not duplicate effort (section 5.2.1 in Chapter 5).
49-d	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations, Text: Please consider reviewing to determine if some of the FMEs can be classified as FMPs or FMSs or if they need to be studied and evaluated. For example, FME_IDs 081000934 and 081000921.	FME ID 081000934 and 081000921 were reviewed to determine if they, or other similar FMEs, could be reclassified as FMPs. This was determined to not be feasible due to lack of modeling provided by the sponsor to prove a no negative impact analysis, or determine flood risk benefits.
50-a	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations GIS Feature Class, FME: Please consider populating the 'MODEL_DESC' field for clarity on existing studies to be used.	The MODEL_DESC field was updated to include a short description of the model that could be leveraged in development of the FME.
50-b	2	SOW Task 5	Flood Management Evaluation (FME) Recommendations GIS Feature Class, FME: It appears that the field 'ASSOCIATED' is missing from the FME feature class. Please consider adding and populating this field with valid entries per the TWDB broadcast email sent on June 3, 2022.	The ASSOCIATED field was added to the FME feature class and updated to indicate any interdependencies.
51	2	SOW Task 5	Flood Mitigation Project (FMP) Recommendations, Text (Exhibit C, Section 2.5.B): Please consider expanding more on the general description of identified FMPs.	Section 5.4.2.a was updated to include more information in the description of the recommended FMPs.
52	2	SOW Task 5	Flood Mitigation Project (FMP) Recommendations Map (Exhibit C, Map 20): Polygons in the FMP feature class appear to be represented as points in the map. Please consider representing the FMPs as polygons, when possible, for consistency.	Map 20 was updated to represent FMPs as polygons.
53	2	SOW Task 5	Flood Management Strategy (FMS) Recommendations Map (Exhibit C, Map 21): Polygons in the FMS feature class appear to be represented as points in the map. Please consider representing the FMSs as polygons, when possible, for consistency.	Map 21 was updated to represent FMSs as polygons.
54	2	SOW Task 7	Flood Response Information Activities, Text (Exhibit C, Section 2.7): Please consider providing reference information where more detailed information regarding recovery is available.	This comment may be considered in the amendment period, or in future planning cycles.

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TWDB Comments Received on Draft Lower Brazos Regional Flood Plan				
Comment Number	**Comment Level**	**Associated Task**	**Comment**	**Response**
55	2	SOW Task 9	Flood Infrastructure Financing Analysis, Text: Please consider providing the supporting calculation and reference to supporting data for the following text in the report “there is an estimated $4.6 billion in state and federal funding projected to be needed to implement the recommended FMEs, FMSs, and FMPs in the Lower Brazos Regional Flood Plan” (Page 9-14).	Additional detail was added describing how the total state and federal funding amount was determined.

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Public Comments Received on Draft Lower Brazos Regional Flood Plan

Comment Number	Associated Task	Commenter	Date Received	Comment	Comment Response
1	SOW Task 5	City of College Station	9/8/2022	On behalf of the City of College Station, we request that the following actions be included in the Regional Flood Plan as having a sponsor and to classify them as recommended Flood Mitigation Evaluations and Strategies: • FMS ID #82001113 – College Station Early Flood Warning System • FMS ID #82001140 – College Station Property Acquisition • FME ID #81000226 – Bee Creek Basin Detention Pond The above listings are representative of proposed flood mitigation and/or management actions that the City of College Station had previously agreed to support as the sponsor; however, they were listed as not-recommended due to lack of sponsorship within the draft flood plan. We believe this was done in error since the City previously agreed to be listed as a sponsor. The City would like to be listed as the sponsor for these needs and request that they be classified as recommended Flood Mitigation Evaluations and Strategies.	The indicated FME and FMSs were moved from the non-recommended lists to the recommended lists based on the RFPGs approval. All supporting documentation, tables, and GIS data were updated to reflect this.
2	SOW Task 5	City of Waco	9/16/2022	On behalf of the City of Waco, we request that the following needs be included in the Regional Flood Plan as recommended Flood Mitigation Evaluations, Strategies, or Projects: • Waco Creek Diversion Tunnel • Oakwood Channel and Bridge Improvements • Upper Waco Creek Tributary Projects • Chapel Ridge Regional Detention • Primrose IH35 Betterments • Speegleville Road Bridges over Middle Bosque • Barron's Branch Buyouts • 12th / 13th Street Storm Replacement • Sharondale Drainage Improvements • New Road & Homan Ave Channel and Culvert Improvements • Waco Creek buyouts • West Waco Drainage improvements and Erosion Control • Taylor Street Storm Infrastructure and Outfall • Elm Avenue Storm Infrastructure and Outfall • Loop 340 Berm and Frontage Road Improvements • Brentwood and Cougar Ridge Stormwater Infrastructure and Detention Modifications • South Fork Stormwater Infrastructure and Detention • Mary Street underground Storm and Outfall • Cottonwood Creek – Beverly to Bagby Improvements The above listings are representative of proposed flood mitigation and/or management actions that the City of Waco had previously submitted to the regional flood planning group for consideration; however, they do not all appear in the Draft Regional Flood Plan. Additional information supporting these actions can be provided to the technical consultant team for evaluation, if needed.	The indicated FMXs were added to the lists and moved to the recommended lists as applicable. All supporting documentation, tables, and GIS data were updated to reflect this. The comment received from the City of Waco on 10/25 supersedes this comment where there were conflicting requests.
3	SOW Task 8	USACE	9/26/2022	Non regulatory regional flood control or drainage districts should be established and funded for rapidly growing urban areas such as DFW, Houston, San Antonio, etc. Responsibility would be to provide consistency, technical resources, funding and reviews in support of FME's, FMS's. These organizations would also implement or support implementation of FMP's. These organizations would augment communities and counties that just don't have the resources and expertise to manage flooding. Rapidly developing areas surrounding larger urban centers are at greater risk of having runoff patterns increasing because of development. These urban areas are comprised of many communities and unincorporated county areas. Many of the smaller communities are not funded or resourced to deal with the complexities of floodplain management and therefore there is a lack of or inconsistencies in floodplain management practices.	This recommendation aligns with the intent of recommendations 8.1.1, 8.1.9, 8.2.1, 8.2.3, and 8.2.6 included in Chapter 8.

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Public Comments Received on Draft Lower Brazos Regional Flood Plan					
Comment Number	**Associated Task**	**Commenter**	**Date Received**	**Comment**	**Comment Response**
4	SOW Task 8	USACE	9/26/2022	Clarify the early 2000's state legislation that provide counties the authority to regulate floodplains to explicitly allowed and encorage activites associated with floodplain management such as development of land use plans, regulatory authorites, e.g. permitting. Although state legislation was passed in the early 2000's which gave counties the ability to regulate floodplains, interpretation of these regulations varies widely from county to county. The legislate bill lacks implementation guidance in the form of administrative rules. If development is occuring in unincorporated areas, this development can dynamically impact flood risk.	This recommendation aligns with the intent of recommendations 8.1.1, 8.1.9, and 8.1.10 included in Chapter 8.
5	SOW Task 8	USACE	9/26/2022	Require the use of n-values and channel conditions which would likely result if the channel or project were not maintained. Exceptions would be golf courses or other areas where an organization exists which would maintain the channel in perpetuity. Disallow maintence by marginal organizations such as home owners associations to justify acceptance of lower n-values as this is an unrealistic expectation. When channels are constructed, most often channel bed, banks and overbanks are cleared; however; with many miles of these channels, it is often difficult for communities to maintain those beds, banks and overbanks at their design conditions. Generally, there is a lack of channel maintenance to ensure flood conveyance areas, established as part of a development or improvement projects, to retain their design level n-values. This results in unexpected changes in channel conveyance and increased flooding. Channel maintenance is very expensive activity that can trigger environmental permitting requirements.	This recommendation aligns with the intent of recommendations 8.1.5 and 8.1.1, included in Chapter 8. Recommendation 8.1.5 encourages the state to provide funding and technical assistance to entities so that they can update their drainage criteria and development standards. Recommendation 8.1.1 encourages the state to provide additional funding for maintenance purposes to help prevent some infringement on the infrastructures performance.
6	SOW Task 8	USACE	9/26/2022	No loss of valley storage to the 500-year level. Communities could allow redistribution of valley storage to allow interactions with natural areas but no loss of storage. Land development in upstream areas increases runoff in downstream areas. This happens because of increased impervious cover and decreased tree cover, and therefore less ability to absorb rainfall. Additionally, development, in most communities, encroaches into riparian areas and decreases the amount of storage available to accommodate flood waters. Just the main thread of the Trinity River though DFW stores more flood waters during of flood than any three of the USACE reservoirs that provide flood protection for DFW. The many other streams provide even more storage than the main stem. There is limited capacity in rivers and streams to convey floodwaters. This means that all areas above any given conveyance point have to store flood water until sufficient time has lapsed to pass the water away from the impacted area. The streams are where this water is stored and depleting these storage areas will impact DS areas.	This recommendation is reflected in the approved standards found in Chapter 3, Section 3A.1. The Lower Brazos RFP recommends that communities in the southern portion of the basin use compensatory storage requirements for the 500-year storm.
7	SOW Task 8	USACE	9/26/2022	Establish future land use plans for unincorporated areas associated with rapidly growing urban areas.	This recommendation aligns with recommendation 8.1.10 in Chapter 8 which requests that counties be granted additional authority to regulate land use.
8	SOW Task 8	USACE	9/26/2022	Use of ultimate development land use conditions in the development of future flows. Require use of future flows for regulation of floodplains and development of FMP's.	This recommendation aligns with the intent of recommendations 8.1.6 and 8.1.10 included in Chapter 8.
9	SOW Task 8	USACE	9/26/2022	Encorage storm shifting to validate 100-yr estimates and to provide a broader understanding of communities actual flood risk Storms identified and cataloged as part of the GLO funded USACE led Texas Storm Study could be the primary source of storms to be shifted. Great deal of uncertainty in 100-yr estimates. Use of observed storms that approximately match depth duration data from NOAA Atlas 14 or other precipitation frequency sources validates 100-yr estimates. Additionally wet, dry and average conditions as well as conditions at the time the storm occured can be presented. Additionally, communities have and can experience storms that exceed the 100-yr. While not regulatory, this information will provide additional hazard mitigation data so communities can address critical infrastructure impacts and be better prepared.	This recommendation aligns with the intent of recommendations 8.1.6 included in Chapter 8.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

Public Comments Received on Draft Lower Brazos Regional Flood Plan

Comment Number	Associated Task	Commenter	Date Received	Comment	Comment Response
10	SOW Task 8	USACE	9/26/2022	Add detail to Watershed Hydrology Assessments (WHA) for communities within basins with completed WHA's. The WHA for the Trinity has been completed. The WHA's, funded by FEMA, are considered the best available flood flow frequency estimates, e.g. 100-yr. These estimates consider the latest precipitation frequencies, the variations in watershed response and determine critical flood drivers by employing a wide range of sensitivity analysis for each computation point.	The Watershed Hydrology Assessment for the Lower Brazos basin has not yet been completed. This may be considered in future cycles, upon WHA availability.
11	SOW Task 8	USACE	9/26/2022	Update WHA's when future precipitation frequency estimates become available. Efforts to develop future precipitation frequency estimates for Texas are starting.	The Watershed Hydrology Assessment for the Lower Brazos basin has not yet been completed. This may be considered in future cycles, upon WHA availability.
12	SOW Task 8	USACE	9/26/2022	Establish regional efforts, for large urban centers to develop future land use data for all developing areas, not just incorporated areas, for use in developing future flood flow frequency estimates and future 100-yr (and other recurrence interval) hazard boundaries.	This recommendation may be considered in future flood planning cycles.
13	SOW Task 8	City of Waco	10/25/2022	On behalf of the City of Waco, the following is a revised list of FMXs for consideration by the Lower Brazos Regional Flood Planning Group. This list is a subset of the list previously provided and consists of FMXs that have been determined to align with the Regional Flood Planning requirements. Based on discussion with the Technical Consultant Team we request the following actions: • The Waco Creek Diversion Tunnel be added to the recommended FMP list, with an associated cost of $100,000,000. • The Oakwood Channel and Bridge Improvements project be added to the recommended FMP list, with an associated cost of $40,000,000. • The Taylor / Elm Storm Infrastructure Outfall study be added to the recommended FME list, with an associated construction cost of $18,000,000. • The Sharondale / Brown's Lake Drainage Improvements study be moved from the non-recommended list to the recommended FME list, with an associated construction cost of $5,000,000. • The New Road and Homan Channel and Culverts project be moved from the non-recommended list to the recommended FMP list, with an associated cost of $6,000,000. • The Loop 340 Berm and Frontage Road Improvements be moved from the non-recommended list to the recommended FMP list, with an associated cost of $7,000,000. • The City of Waco Property Acquisition strategy be moved from the non-recommended list to the recommended FMS list, with an associated cost of $14,000,000. • The Cross Creek Road Low Water Crossing Removal project be added to the recommended FMP list, with an associated cost of $1,013,946. • The other previously submitted FMXs (Upper Waco Creek Tributary Projects, Primrose IH-35 Betterments, Speegleville Road Bridges over Middle Bosque, 12th/13th Street Storm Replacement, West Waco Drainage Improvements and Erosion Control, Brentwood and Cougar Ridge Stormwater Infrastructure and Detention Modifications, South Fork Stormwater Infrastructure and Detention, Mary Street Underground Storm and Outfall, and Cottonwood Creek – Beverly to Bagby Improvements) can be removed or left off the Lower Brazos Regional Flood Planning FMX list as necessary due to not meeting the TWDB and RFPG requirements.	The indicated FMXs were added to the lists, removed from the lists, and moved to the recommended lists as applicable. All supporting documentation, tables, and GIS data were updated to reflect this.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

Public Comments Received on Draft Lower Brazos Regional Flood Plan					
Comment Number	**Associated Task**	**Commenter**	**Date Received**	**Comment**	**Comment Response**
14	SOW Task 4B	TPWD	10/26/2022	The proposed Flood Management, Evaluations, Plans, and Strategies (FMXs, all together) include numerous infrastructure projects that may affect the aquatic habitats that are prioritized in the TCAP. For example, the removal of low-water crossings can benefit rare species such as mussels and fish if the crossing is replaced with a bridge or culvert that does not form a barrier to species movement. Conversely, building dams and channelizing streams can adversely affect aquatic habitats and species. As such, TPWD requests that a technical committee be formed to review FMXs. An Environmental Review Technical Committee could provide input on avoiding impacts to rare species and habitats and ensure that the projects align with the Texas Conservation Action Plan (TCAP). An environmental review at early stages of projects can also benefit the project later at the permitting stage if environmental issues that would be a hurdle to permitting are recognized and addressed in advance of the permit application. TPWD is working to prevent the need for a federal listing or rare species and has found that working in collaboration with developers can minimize impacts to rare species and habitats.	This recommendation may be considered in future flood planning cycles.
15	SOW Task 1	TPWD	10/26/2022	The RFP should acknowledge that flooding provides multiple benefits to human and natural systems. The plan should incorporate into plan elements and processes opportunities to safeguard, promote, and restore the benefits of flood and the ecosystem services provided. Omission of this information reduces potential opportunities to take advantage of natural flood infrastructure, maximize co-benefits and minimize socio-environmental impacts. TPWD recommends incorporating the ecological and societal benefits of flooding into Chapter 1 where impacts and flood infrastructure are described. For instance, municipal, agricultural, and industrial water needs of today rely on floods for filling water supply reservoirs and recharging groundwater aquifers. Nature has also evolved with flooding and has developed strategies that depend on floods for food, habitat, reproductions, and ultimately survival. For example, fish like the alligator-gar depend on periodic expansion of flood waters into floodplains and oxbows to provide connectivity to nursery habitat. Waterfowl depend on inundated lands for habitat and forage while over wintering. Flood maintains stream channels by flushing silt, sand, and alae providing habitat for bottom dwelling insects, the basis of the aquatic food web. Riparian forests require flood nutrients and seed dispersal. Coastal bays and estuaries depend on floods to bring nutrients and sediments that feed plankton, wetland plants, fish, and wildlife.	This recommendation may be considered in future flood planning cycles.
16	SOW Task 1	TPWD	10/26/2022	The RFPG should further identify and describe natural flood infrastructure. The RFP describes the role and extend to wetlands. However, additional landforms that provide benefits in minimizing and retaining flood waters are not described. Omission of this information reduces potential opportunities to take advantage of natural flood infrastructure, maximize co-benefits, maximize project feasibility and minimize socio-environmental impacts. TPWD recommends that additional landforms be added to mapping, Chapter 1 (where flood infrastructure is described), and Chapter 5 (obstacles that could hinder implementation), such as: natural river channels, floodplains, sinuous channel morphology, natural levees, connectivity to oxbows, riparian vegetation, grasslands, forests, oyster and coral reefs, barrier islands, beaches, sand dunes, and mangroves. When considering FMPs these landforms should be flagged to minimize potential impacts (5.6.3.f) on natural resources. Furthermore, TPWS recommends the continued conservation of ranchlands due to the co-benefits these types of lands provide to ranching, habitat conservation, and flood mitigation. For example, in the shallow topography of the southernmost counties.	This recommendation may be considered in future flood planning cycles.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

Public Comments Received on Draft Lower Brazos Regional Flood Plan

Comment Number	Associated Task	Commenter	Date Received	Comment	Comment Response
17	SOW Task 1	TPWD	10/26/2022	The RFP can do more to inform, promote, and incorporate natural and nature-based solutions (NNBS) in flood mitigation approaches throughout all aspects of the plan. The plan does not adequately describe NNBS, its uses and benefits. Nor does it recommend any FMPs, FMSs, or FMEs that incorporate NNBS measures. To meet the objective of the TAC §362.3, the RFG, "shall include strategies and projects that provide for a balance of structural and nonstructural flood mitigation measures, including projects that use nature-based features…"/ The RFPG should be a guide to help establish NNBS practices into the portfolio of options. TPWS recommends the RFPG sponsor an FME to develop an implementation guide for using NNBS measures in the region. Also, the RFPG should recommend to the FMP, FMS, and FME sponsors that NNBS measures be considered as an alternative to or in conjunction with the proposed projects. For example, regional channel improvements and regional detention could include the construction of wetlands to provide additional flood mitigation and co-benefits.	Additional discussion of nature based solutions and their benefits was added Ch 4, Section 4B.5.c - Nature-Based Solutions. 10 nature-based solutions were identified as part of the Lower Brazos RFP. However, they were not recommended due to lack of local sponsorship.
18	SOW Task 4B	TPWD	10/26/2022	TPWD supports the RFPG for incorporating social vulnerability into its assessment of risk and using the SVI as recommended by the TWDB in Exhibit C Technical Guidance for Regional Flood Planning. The report could be improved by including SVI scores in Task 4 Flood Mitigation Needs Analysis and Task 6 project (FMS, FMP, FME) details and summaries (Chapter 5 and Appendix 5).	SVIs are included as part of the FMX evaluations. They can be found in Appendices 4 and 5 in the TWDB tables and FMX one-pagers.
19	SOW Task 4B	TPWD	10/26/2022	TPWD would like to encourage all the FMX proponents to consider stream crossing designs that allow for sediment transport and passage of aquatic organisms and do not impound water. Basically, designs that are invisible to the creek. This includes bridges that span the creek where possible or culverted crossing designed with the culver(s) in the active channel area lower than those in the floodplain benches so that the flow in the channel is not overly spread out. The central/low-flow culvert(s) should be large enough to handle a 1.5-year flow without backing up water. The bottoms of these lower culverts should be set at least a foot below grade (i.e., recessed) to allow natural substrate to cover the culvert bottom and to allow for aquatic organism passage. These lowered, recessed culverts should be installed in the thalweg or deepest part of the channel and be aligned with the low flow channel.	This recommendation may be considered in future flood planning cycles.
20	SOW Task 5	TAMU Disaster Resilient Texas	10/26/2022	Future regional flood planning cycles should proactively identify more sponsors in the Navasota watershed to support the numerous planning studies and mitigation activieis in the study area, including various debris removal projects and drainage master studies, that were collected as suggestions during the current flood planning process, but not adopted in this planning cycle.	This recommendation may be considered in future flood planning cycles.
21	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Clarify Debris Management Programs and Funding: The Texas Department of Transporations (TxDOT) and appropriate local jurisdictions should evaluate major bridge structures crossing the Navasota for debris blockages and potential removal.	This recommendation aligns with the intent of recommendations 8.1.1 and 8.2.2, from Chapter 8, which recommend specific funding for maintenance of stormwater infrastructure and a review of state entities' stormwater policies to ensure best practices.
22	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Clarify Debris Management Programs and Funding: Given the importance of bridge crossings to flood mitigation activities, the Texas Water Development Board should consider adding additional representatives from road and bridge infrastructure organizations (such as TxDOT and local governments) to Regional Flood Planning Group compositions.	This recommendation may be considered in future flood planning cycles.
23	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Clarify Debris Management Programs and Funding: In future flood planning cycles, the Regional Flood Planning Process should more comprehensively address regional debris removal needs, document and communicate responsible jurisdictions, and suggest a process for funding and maintaining debris removal programs for mitigation purposes.	This recommendation aligns with the intent of recommendation 8.1.1, found in Chapter 8, which recommends that funding for maintenance of stormwater infrastructure is provided statewide.
24	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Clarify Debris Management Programs and Funding: The state and federal government should consider funding regional debris removal programs as a mitigation strategy and clarify eligible entities to carry out the work.	This is reflected in Chapter 8, recommendation 8.1.1 which requests that funding for maintenance of stormwater infrastructure is funded for communities throughout the state.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

Public Comments Received on Draft Lower Brazos Regional Flood Plan					
Comment Number	**Associated Task**	**Commenter**	**Date Received**	**Comment**	**Comment Response**
25	SOW Task 4B	TAMU Disaster Resilient Texas	10/26/2022	Collect Additional Data and Conduct Studies to Monitor the Navasota Over Time: The Brazos River Authority (BRA), in coordination with USGS and other appropriate local jurisdictions, should consider funding the placement of additional gauges downstream of Lake Limestone to support more robust monitoring and analysis of flooding in localized downstream areas in the future. Placement of additional rain gauges would provide improved coverage and spatial distribution within the watershed. Stream gauge placement should focus on locations that see significant runoff or discharge (e.g., channel / tributary confluences) and/or prioritize locations that are known to be flood prone (e.g., inundation hotspots) or have experienced repetitive flood loss. Data from rain gauges could be used to correct any bias from radar rainfall, and stream gauges could be used to help calibrate and/or validate modeling results. More importantly, the gauges could be used to better monitor the stream conditions during severe storm / dam release events and aid in decision-making and/or emergency response measures.	This recommendation may be considered in future flood planning cycles.
26	SOW Task 4B	TAMU Disaster Resilient Texas	10/26/2022	Collect Additional Data and Conduct Studies to Monitor the Navasota over Time: Based on the findings of this study, future Regional Flood Planning cycles should support additional studies that: - Evaluate the causes and impacts of geomorphic changes and erosion on flooding along the Navasota. (FMS) - Analyze a broader range of historical storm events to fully understand how flooding and flood duration changes across storm types. (FME) - Collect additional bathymetric data to better determine the river's water storage capacity and assess how it changes over time. (FMS) - Fly low altitude crewed aircraft to comprehensively map the entire region of the Navasota River to begin collecting high resolution elevation data, channel structure, and building footprints to help understand future implications of flooding. (FMS) - Conduct a soil infiltration study to better understand soil characteristics and moisture conditions of the study area to improve the accuracy of hydrologic & hydraulic modeling efforts. (FMS) - Conduct a study that explicitly addresses how pre-releases from the Lake Limestone dam would or would not not influence downstream flooding. Such a study should analyze the range of costs and benefits associated with the impacts on both water supply and flood impacts and the high level of uncertainty with determining these tradeoffs. The study should also illustrate how such measures could potentially reduce water supply and increase downstream flooding during events such as Hurricane Harvey in which pre-releases would have been recommended but ultimately unnecessary since little to no rain occurred upstream of the reservoir. (FME)	FMEs 081001161 and 081001248 identify the need for additional evaluation and study of flooding conditions in the Navasota River Basin. The current Navasota River Flooding Projects efforts being lead by the Institute for Disaster Resilient Texas are also discussed in Section 2A.2.c Chapter 2 where many of these types of evaluations are being performed. Additional evaluations and strategies will be considered in future amendment periods and Regional Flood Planning cycles if brought forth from sponsors.
27	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Improve Stakeholder Communication Downstream of Lake Limestone: The BRA should conduct additional stakeholder outreach and develop communications specific to their roles and responsibilities and those of other entities along the river, including in topics of water supply, flood control, and debris removal.	This recommendation may be considered in future flood planning cycles.
28	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Improve Stakeholder Communication Downstream of Lake Limestone: The BRA should develop communications and stakeholder outreach specific to the communities below Lake Limestone to directly address questions regarding the operation of the dam and continue to improve transparency and relationships with these communities.	This recommendation may be considered in future flood planning cycles.
29	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Embrace Multi-Pronged, Watershed-Level Resilience Strategies: The Regional Flood Planning Process should continue to embrace a multi-pronged approach to flood mitigation. In the future, the planning process should consider using and building upon the Institute for a Disaster Resilient Texas' "avoid, resist, accommodate, and communicate" framework adopted by the Commission to Rebuild Texas following Hurricane Harvey.	This recommendation may be considered in future flood planning cycles.

Appendix 10.7 - Comments and Comment Responses on Draft Lower Brazos Regional Flood Plan

Public Comments Received on Draft Lower Brazos Regional Flood Plan					
Comment Number	**Associated Task**	**Commenter**	**Date Received**	**Comment**	**Comment Response**
30	SOW Task 8	TAMU Disaster Resilient Texas	10/26/2022	Furter Develop Multi-Disciplinary Flood Evaluation Methods: The use of drones to investigate potential flood mitigation opportunities, coordination of multiple modeling techniques, and integration of social science methods to rapidly assess localized flooding concerns were innovations of this study. Regularly coordinating with the regional flood planning process throughout the study also helped ensure the research could contribute to the state's planning process. IDRT and partner organizations should further develop these multi-disciplinary flood impact and assessment methods to improve this type of research in the future and continue to contribute to the regional flood planning process as funding allows.	This recommendation may be considered in future flood planning cycles.
31	SOW Task 5	Waller County	10/27/2022	On behalf of Waller County, we request that the following FME be included in the Regional Flood Plan as a recommended Flood Mitigation Evaluation: Waller County Master Drainage Plan Waller County previously submitted the FME to the group and offered to be listed as the sponsor. It appears that the FME was listed in the draft plan as not having a sponsor, in error. The County would like this to be corrected ot list the County as the sponsor and to have this FME classified as a recommended FME.	The indicated FME was moved from the non-recommended list to the recommended list as requested. All supporting documentation, tables, and GIS data were updated to reflect this.

Texas Water Development Board

P.O. Box 13231, 1700 N. Congress Ave.
Austin, TX 78711-3231, www.twdb.texas.gov
Phone (512) 463-7847, Fax (512) 475-2053

October 21, 2022

Pamela Hannemann
Water Resources Regional Planner
Brazos River Authority
4600 Cobbs Drive,
Waco, TX

RE: Texas Water Development Board Comments on Region 08 Lower Brazos RFPG's Draft Regional Flood Plan Contract No. 2101792493

Dear Ms. Hannemann:

Texas Water Development Board (TWDB) staff has performed a review of the draft regional flood plan submitted by August 1, 2022, on behalf of the Region 08 Lower Brazos Regional Flood Planning Group (RFPG). The attached comments will follow this format:

- **LEVEL 1**: Comments and questions that must be satisfactorily addressed to meet specific statute, rule, or contract requirements; and,
- **LEVEL 2**: Comments and suggestions for consideration that may improve the readability and/or overall understanding of the regional flood plan

Please note that while Level 2 comments are provided for the planning group's consideration, Level 1 comments must be addressed prior to the submission of final Regional Flood Plans by the January 10, 2023, deadline.

It is expected that the data contained in all written report sections, tables, excel spreadsheets, and the geodatabase will be consistent throughout. In cases where there are any discrepancies in data, the geodatabase dataset will supersede other data, and the TWDB will utilize the geodatabase dataset when developing the state flood plan.

TWDB review of the draft regional flood plans is comprised of many spot checks of data across several deliverables and is not an all-encompassing data review. Please note that TWDB's review does not imply accuracy of the draft regional flood plan. Each RFPG is responsible for ensuring the completeness and accuracy of the plan and all associated data.

To facilitate efficient and timely completion, and Board approval, of your final regional flood plan, please provide your TWDB Regional Flood Planner with a draft of your response to these comments (e.g., informally via email) on the draft RFP as soon as possible. This will allow TWDB staff to provide preliminary feedback on proposed RFPG responses to assist you in meeting your RFPG's timeline for approval and submission to TWDB of the final plan by the deadline. It will also help to minimize the need for subsequent follow-ups after final regional flood plan submission to TWDB.

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Title 31 TAC §361.50(c) requires the regional flood planning group to consider any written or oral Comment received from the public on the draft regional flood plan (RFP); and the EA's written comment on the draft RFP prior to adopting a final RFP. Section 361.50(d) requires the final adopted plan include summaries of all timely written and oral comments received, along with a response, for each, explaining any resulting revisions or why changes are not warranted. Copies of TWDB's Level 1 and 2 written comments and the RFPG's responses must be included in the final, adopted RFP. While the comments included in this letter represent TWDB's review to date, please anticipate the need to respond to additional comments or questions, as necessary, regarding data integrity related to the Board's State Flood Plan Database (that is built from the 15 regional databases), even after submission of the final plan to TWDB.

Standard to all RFPGs is the need to include certain content in the final RFPs that was not yet available at the time that drafts were prepared and submitted. In your final RFP, please be sure to incorporate in the final submitted plan, documentation, for example, that a public meeting to receive comments was held as required and that comments received on the draft RFP were considered in the development of the final plan [31 TAC §361.50(d)].

If you have any questions regarding these comments or would like to discuss your approach to addressing any of these comments, please do not hesitate to contact Ryke Moore at 512-475-1564 or via email at Ryke.Moore@twdb.texas.gov. TWDB staff are available to assist you in any way possible to ensure successful completion of your final regional flood plan.

Lastly, on behalf of TWDB, I would like to thank you, the sponsor, the RFPG members and the technical consultants for accomplishing this major milestone of a herculean effort and advancing the flood risk reduction mission in our state.

Sincerely,

Reem Zoun Digitally signed by Reem Zoun Date: 2022.10.21 13:06:52 -05'00'

Reem J. Zoun, PE, CFM
Director
Flood Planning

Attachment: TWDB Comments

Cc: Brandon Wade, RFPG Chair
Aaron Able, Brazos River Authority
Sam Hinojosa, Halff Associates, Inc.
Scott Rushing, Halff Associates, Inc.
Ryan Londeen, Halff Associates, Inc.
Matt Nelson, TWDB
James Bronikowski, TWDB
Anita Machiavello, TWDB
Ryke Moore, TWDB

October 21, 2022

TWDB Comments on Region 08 Lower Brazos Regional Flood Planning Group's Draft Regional Flood Plan

Level 1: Comments and questions must be satisfactorily addressed to meet statutory, agency rule, and/or contract requirements.

General Comments

1. Please ensure that all "Submittal requirements" identified in each of the Exhibit C Guidance document sections are submitted in the final flood plan.

SOW Task 1

2. Existing Flood Infrastructure, Text: Some data within Tables 1.13 through 1.18 do not appear to align with GIS feature classes. For example, the *ExFldInfraLn* feature class includes 59 Levees and 32 Sea Barriers which does not appear to align with the count in the tables. Please review and reconcile [31 TAC §361.31(a)&(b)].
3. Existing Flood Projects Table (Exhibit C, Table 2): Please review unique ID guidance listed in Exhibit D Table 2 guidance pertaining to Existing Project IDs for Exhibit C Table 2. Existing Project ID 8000001 begins with "8" when it should begin with "08". Please reconcile [31 TAC §361.32].
4. Existing Flood Infrastructure GIS Feature Class, *ExFldInfraPt*: Please include all low water crossings (LWCs) identified during the flood planning process in this feature class. The *ExFldExpAll* feature class appears to contain LWCs that are not included in the *ExFldInfraPt* feature class. Note: This is required in contrast to the optional *LWC* feature class. Refer to Exhibit D Table 7 for a list of valid entries [31 TAC §361.31].

SOW Task 2A

5. Existing Condition Flood Hazard Analysis, Text: Please include total land areas (square miles) of each flood risk by flood risk type, county, region, and frequency as per guidance document (Exhibit C page 24): Submittal requirement #2.
6. Existing Condition Flood Exposure, Text: The Structure and Residential Structure counts in Table 2.3 do not appear to match the Table 3 and *ExFldExpAll* feature class counts. Please review and reconcile [31 TAC §361.33(c)].
7. Existing Condition Flood Exposure Table (Exhibit C, Table 3): The Structure and Residential Structure counts in Table 3 do not appear to match the *ExFldExpAll* feature class counts. Please review and reconcile [31 TAC §361.33 & Exhibit C 2.2.A.3].
8. Existing Condition Flood Exposure GIS Feature Class, *ExFldExPt*: Please ensure that the following critical facility types are included in the polygon feature class (*ExFldExpPol*) instead of the Point feature class (*ExFldExpPt*): Schools, hospitals, and fire stations [31 TAC §361.33(c) & Exhibit C 2.2.A.2].
9. Existing Condition Flood Vulnerability GIS Feature Class, *ExFldExpAll*: The Structure and Residential Structure counts in Table 3 do not appear to match the *ExFldExpAll* feature class counts. Please review and reconcile [31 TAC §361.33(c), (d) & Exhibit C 2.2.A.2].

10. Model Coverage, Text: The future hydraulic models are described, but not the existing models. Please include a summary of information from all models identified in the *ModelCoverage* feature class within the text of Chapter 2 [31 TAC §361.33(b)(2)].

SOW Task 2B

11. Future Condition Flood Hazard Analysis, Text: Please include total land areas (square miles) of each flood risk by flood risk type, county, region, and frequency as per guidance document (Exhibit C page 33): Submittal requirement number 3.
12. Future Condition Flood Exposure, Text: The Low Water Crossing and Residential Structure counts in Table 2.8 do not appear to match the Table 5 and *FutFldExpAll* feature class counts. Please review and reconcile [31 TAC §361.34(c)].
13. Future Map Gaps Map (Exhibit C, Map 9): Please include identified additional Flood Prone Areas that were originally included in Map 10 submitted with the March 7 Tech Memo deliverables. These do not appear to be included [31 TAC 361.34(b)(6)].

SOW Task 3B

14. Goals, Text: Please state and explain the levels of residual risk that will remain in the Flood Planning Region even after the stated flood mitigation goals are fully met [§361.36 & Exhibit C 2.3.B].

SOW Task 4B

15. Flood Management Evaluations (FME) Map (Exhibit C, Map 16): It appears that an indication of whether FME area is associated with previous studied area is not noted. Please indicate on the map whether the identified FME area is associated with a previously studied area that requires an update or if the identified study area does not have any existing or anticipated flood mapping, models, etc., and therefore requires an initial study [31 TAC §§61.38(m)].
16. Flood Mitigation Projects (FMP) Table (Exhibit C, Table 13): Many BCR field entries appear to contain values of 0 or less than 0.1. Please review and confirm. [31 TAC §361.38(c-e) & Exhibit C 2.4.B].
17. Flood Mitigation Projects GIS Feature Class, *FMP*: Many 'BC_RATIO' field entries contain values of 0 or less than 0.1. Please review and confirm [31 TAC §361.38(c-e) & Exhibit C 2.4.B].
18. Flood Management Strategy (FMS) Table (Exhibit C, Table 14): It appears that the required field Non-recurring Non-capital Cost is missing from Table 14. Please confirm that all NULL values utilized for numeric fields represent either "not applicable" or "unknown". Please complete all required fields with valid entries per the Summary Update to Exhibit D document available on the TWDB website [31 TAC §361.38(d) & Exhibit C 2.4.B].
19. Flood Management Strategy (FMS) GIS Feature Class, *FMS*: It appears there are several required fields including but not limited to 'AREA_100', 'STRUCT_100', and 'POP100' with missing values. Please confirm that all NULL values utilized for numeric fields represent either "not applicable" or "unknown". Please adhere to Exhibit D guidance on required fields and valid entries and reconcile where necessary [31 TAC §361.38(d) & Exhibit D].

SOW Task 5

20. Flood Management Evaluation (FME) Recommendations (Text, Exhibit C Table 15, and GIS Feature Class, *FME*): Table 15 and the *FME* feature class both include 85 recommended

FMEs, however, Section 5.5.2 of the report states that 86 FMEs were recommended by the RFPG. Please review and reconcile accordingly for consistency.

21. Flood Management Evaluation (FME) Recommendations Map (Exhibit C, Map 19): It appears that an indication of whether FME area is associated with a previously studied area is not noted. Please indicate on the map whether the identified FME area is associated with a previously studied area that requires an update or if the identified study area does not have any existing or anticipated flood mapping, models, etc., and therefore requires an initial study [31 TAC §361.39 & Exhibit D 3.10].
22. Flood Mitigation Project (FMP) Recommendations, Text: Each recommended FMP must be accompanied with an associated model or supporting documentation to show no negative impact. Please confirm that this was done and provide reference to supporting materials. As per the draft report (page 4-30), "For structural FMPs and FMSs, reports were checked for certified statements by an engineer registered in the State of Texas that the associated project or strategy would not cause negative impacts upstream, downstream, or within the project area in events up to and including the one percent annual chance events. For FMPs and FMSs without these certifications, H&H models were reviewed for negative impacts as defined in the TWDB Technical Guidelines." For each recommended FMP, please identify in the plan how no negative impact was determined as required by Exhibit C Section 3.6.A (page 108), either via a model or a study, and submit the associated model or include the study name in tabular format.
23. Flood Mitigation Project (FMP) Recommendations Table (Exhibit C, Table 16): It appears that the sum of the 'FMP_COST' field entries in the *FMP* feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].
24. Flood Mitigation Project (FMP) Recommendations GIS Feature Class, *FMP*: It appears that the sum of the 'FMP_COST' field entries in the *FMP* feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].
25. Flood Mitigation Project (FMP) Details Table (Exhibit C, Section 3.9): It appears that the sum of the 'FMP_COST' field entries in the *FMP* feature class or FMP Details table are not equal to the sum of Estimated Project Cost in Table 16. Please review and reconcile for consistency [31 TAC §361.39 & Exhibit C 2.5.B].
26. Flood Management Strategy (FMS) Recommendations Table (Exhibit C, Table 17): It appears that the entire, required field Non-recurring Non-capital Cost is missing from Table 14. Please include and complete all required fields with valid entries per the Summary Update to Exhibit D document available on the TWDB website [31 TAC §361.39 & Exhibit C 2.5.C].

SOW Task 7

27. Flood Response Information and Activities, Text: Please include a written, general summary of actions taken or planned for recovery from past flood disasters in the region [31 TAC §361.42 & Exhibit C 2.7].

SOW Task 10

28. Please include a statement explaining that the plan, if implemented, will not negatively affect a neighboring area [31 TAC §361. 20(b)].

Level 2: Comments and suggestions for consideration that may improve the readability and overall understanding of the regional flood plan.

General Comments

29. To better align with our agency's preferred nomenclature, please consider using the name, "Cursory Floodplain Data" instead of "Fathom" or Cursory Fathom Data" throughout the regional flood plan.
30. When hyperlinks are included within the text, please consider including the full URL in a footnote or in-text parentheses so that those reading physical copies of the plan can more easily access the source material.
31. Consider reviewing certain maps for legibility. It appears that some maps (Figure 1.15) may have lost resolution when incorporated into the draft plan document. Please consider enhancing image quality for legibility, as appropriate.

SOW Task 1

32. Watersheds GIS Feature Class, *Watersheds*: Please consider linking this feature class to any relevant FME, FMS, or FMP when appropriate by populating the associated ID fields.
33. Existing Flood Infrastructure Text (Exhibit C, Section 2.1): Please provide a description of how Low Water Crossings were identified within the text of Chapter 1.
34. Existing Flood Infrastructure GIS Feature Classes, *ExFldInfraPol, ExFldInfraLn, ExFldInfraPt*: For fields which are unknown or not applicable, please use the following guidelines:
    a. Numeric Fields: Numeric fields should NOT have a placeholder value or "999999". They should be NULL if the field is not applicable, or the data is unknown.
    b. Text fields with valid entry lists: Only values on the Valid Entry list should be used, including NA and/ or Unknown. See the Additional Valid Entry section in this document for values that have been added during Draft review.
    c. Fields that refer to IDs of other feature classes: Fields which list IDs from other feature classes may be "999999" if it is desired to indicate intentionally left blank. An example field is WS_ID in *Ex_Map_Gaps*.
    d. Text fields without valid entry lists: Text fields without valid entry lists may be filled with NULL (preferred) or "999999" consistently if needed to indicate intentionally left blank unless "999999" has other specified use.
35. Deficient Flood Infrastructure Map (Exhibit C, Map 3): Please consider reviewing for consistency across certain maps, as necessary, and consider labeling lakes on Map 3 to match Map 1.
36. Previous Studies, Text: Please consider including the funding sources of the previous studies and consider incorporating previous studies funded by TWDB.
37. Existing Flood Projects, Text: Please consider expanding upon the summary of proposed or ongoing flood mitigation projects by discussing any significant or specific projects.

SOW Task 2A

38. Existing Condition Flood Vulnerability, Text: Please consider adding a more detailed region-specific summary under Section 2A.4 Summary of Existing Conditions Flood Exposure Analysis and Vulnerability.

39. Existing Condition Flood Vulnerability GIS Feature Class, *ExFldExpAll*:
    a. There appears to be several features with an SVI value of 0. Please consider reviewing these points for accuracy.
    b. Please consider reclassifying features with entries of "Other" for the 'EXP_TYPE' field. For example, some features with 'CRIT_TYPE' as "Fire" or "School" may be better categorized as "Public Bldg" for the 'EXP_TYPE' field.

SOW Task 2B

40. Future Condition Flood Vulnerability, Text: Please consider adding a more detailed region-specific summary under Section 2B.4 Summary of Future Conditions Flood Exposure Analysis and Vulnerability.
41. Future Condition Flood Vulnerability GIS Feature Class, *FutFldExpAll*: There appears to be several features with SVI value of 0. Please consider reviewing these points for accuracy.

SOW Task 4B

42. Streams GIS Feature Class, *Streams*:
    a. Please consider linking this feature class to any relevant FME, FMS, or FMP when appropriate by populating the associated ID fields.
    b. Please consider replacing "Unnamed Tributary" with "Tributary of XX" whenever the main channel is known.
43. Flood Management Evaluations (FME), Text:
    a. For county-wide watershed strategies where majority of the county falls outside of the RFPG boundary, please include justification how the strategy benefits the region and please coordinate with other RFPGs to make sure the efforts are not duplicated. For example, FME_ID 081000327.
    a. For areas with existing BLE models, please consider stating how the FME would improve upon the current BLE models. BLE is available for most of Region 8 and can be viewed here: https://www.twdb.texas.gov/flood/science/ble-status-viewer.html
    b. In areas where there is an ongoing TWDB-funded, FIF Category 1 study, please describe how this would be incorporated into the proposed FME. For example, FME_IDs 081000941 and 081000944 appear that they may, potentially contain duplicative efforts of an existing TWDB-funded, FIF Category 1 study in Williamson County (FIF_ID 40046).
    c. Please consider reviewing to determine if certain FMEs can be classified as FMPs or FMSs or if they need to be studied and evaluated. For example, FME_IDs 081000934 and 081000921.
44. Flood Management Evaluations GIS Feature Class, *FME*:
    a. Please consider populating the 'MODEL_DESC' field for clarity on existing studies to be used.
    b. It appears that the field 'ASSOCIATED' is missing from the *FME* feature class. Please consider adding and populating this field with valid entries per the TWDB broadcast email sent on June 3, 2022.
45. Flood Mitigation Project (FMP), Text: Please consider expanding more on the general description of identified FMPs.

46. Flood Mitigation Project (FMP) Map (Exhibit C, Map 17): Polygons in the FMP feature class appear to be represented as points in the map. Please consider representing FMPs as polygons for consistency.
47. Flood Management Strategy (FMS), Text: Please consider expanding upon the general description of identified FMSs within the body of Chapter 4.
48. Flood Management Strategy (FMS) Map (Exhibit C, Map 18): Polygons in the FMS feature class appear to be represented as points in the map. Please consider representing FMSs as polygons for consistency.

SOW Task 5

49. Flood Management Evaluation (FME) Recommendations, Text:
    a. For county-wide watershed strategies where majority of the county falls outside of the RFPG boundary, please include justification how the strategy benefits the region and please coordinate with other RFPGs to make sure the efforts are not duplicated. For example, FME_ID 081000327.
    b. For those areas in RFPG with existing BLE models, please consider stating how the FME will improve upon the current BLE models. BLE is available for most of Region 8.
    c. In areas where there is an ongoing TWDB-funded FIF Category 1 study, please describe how this would be incorporated into the proposed FME. For example, FME_IDs 081000941 and 081000944 appear that they may contain duplicative efforts of an existing FIF Category 1 study in Williamson County (FIF_ID 40046).
    d. Please consider reviewing to determine if some of the FMEs can be classified as FMPs or FMSs or if they need to be studied and evaluated. For example, FME_IDs 081000934 and 081000921.
50. Flood Management Evaluation (FME) Recommendations GIS Feature Class, *FME*:
    a. Please consider populating the 'MODEL_DESC' field for clarity on existing studies to be used.
    b. It appears that the field 'ASSOCIATED' is missing from the *FME* feature class. Please consider adding and populating this field with valid entries per the TWDB broadcast email sent on June 3, 2022.
51. Flood Mitigation Project (FMP) Recommendations, Text (Exhibit C, Section 2.5.B): Please consider expanding more on the general description of identified FMPs.
52. Flood Mitigation Project (FMP) Recommendations Map (Exhibit C, Map 20): Polygons in the FMP feature class appear to be represented as points in the map. Please consider representing the FMPs as polygons, when possible, for consistency.
53. Flood Management Strategy (FMS) Recommendations Map (Exhibit C, Map 21): Polygons in the FMS feature class appear to be represented as points in the map. Please consider representing the FMSs as polygons, when possible, for consistency.

SOW Task 7

54. Flood Response Information Activities, Text (Exhibit C, Section 2.7): Please consider providing reference information where more detailed information regarding recovery is available.

SOW Task 9

55. Flood Infrastructure Financing Analysis, Text: Please consider providing the supporting calculation and reference to supporting data for the following text in the report "*there is an estimated $4.6 billion in state and federal funding projected to be needed to implement the recommended FMEs, FMSs, and FMPs in the Lower Brazos Regional Flood Plan*" (Page 9-14).

Appendix 10.8

Appendix 10.8 - Comments and Comment Responses on Final Lower Brazos Regional Flood Plan

TWDB Comment Received on Final Lower Brazos Regional Flood Plan				
Comment Number	**Level**	**Associated Task**	**Comment**	**Response**
1	2	General	The scale provided in several maps appear to be in units of "feet". Please consider revising these to units of "miles" for increased comprehension.	Map scales were be adjusted to appear in units of miles.
2	2	SOW Task 1	There is approximately 106 square miles of instrastructure that appears to be duplicated, particularly along the coastline. Please review and reconcile.	ExFldInfra SHP was reviewed for duplicates and excess instances of duplicated polygons were removed. 14 features were removed and 36,470 acres were removed.
3	1	SOW Task 2A	Critical Facilities in 1% annual risk is 182 in the geodatabase as opposed to 163 in the Exhibit C Table 3. Please reconcile.	Exhibit C Table 3 was updated to reflect the number of critical facilities at 1% annual risk shown in the geodatabase.
4	1	SOW Task 2A	Critical Facilities in Unknown% annual risk is 159 in the geodatabase as opposed to 143 in the Exhibit C Table 3. Please reconcile.	Exhibit C Table 3 was updated to reflect the number of critical facilities at Unknown annual risk shown in the geodatabase.
5	2	SOW Task 2A	Structures in 1% annual risk is 62,936 in the geodatabase as opposed to 63,056 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that several critical facilities were inadvertently duplicated between versions of feature class updates. Additionally, several structures were erroneously removed between successive updates. These structures were addressed in a comprehensive update that resulted in reconcilliation between the table and geodatabase. In total, 243 structures were added to the exposure database and 123 structures were removed.
6	2	SOW Task 2A	Residential structures in 1% annual risk is 42,412 in the geodatabase as opposed to 42,646 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 234 residential structures in the 1% were inadvertently removed in an update. These structures were added back to the geodatabase.
7	2	SOW Task 2A	Structures in Unknown% annual risk is 65,753 in the geodatabase as opposed to 65,595 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 159 structures in 'Unknown' were inadvertently duplicated in an update. These structures were removed from the geodatabase. The true value of structures in 'Unknown' was found to be 65,594.
8	2	SOW Task 2A	Residential structures in Unknown% annual risk is 59,601 in the geodatabase as opposed to 59,599 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 3 residential structures in 'Unknown' were inadvertently duplicated in an update. These structures were removed from the geodatabase. The true value of residential structures in 'Unknown' was found to be 59,598.
9	1	SOW Task 2A	The sum of features in the ExFldExpPt, ExFldExpLn, and ExFldExpPol feature classes do not appear to equal the count of this ExFldExpAll feature class. Please reconcile.	Removed 1 power generation center from ExFldExpPt. Added 12 power generation centers to ExFldExpAll, FutFldExpPt, FutFldExpALL. Exhibit C Tables 3 and 5 were updated to reflect the new totals for critical facilities.
10	1	SOW Task 2A	Critical Facilities in 1% annual risk is 182 in the geodatabase as opposed to 163 in the Exhibit C Table 3. Please reconcile.	Exhibit C Table 3 was updated to reflect the number of critical facilities at 1% annual risk shown in the geodatabase.
11	1	SOW Task 2A	Critical Facilities in Unknown% annual risk is 159 in the geodatabase as opposed to 143 in the Exhibit C Table 3. Please reconcile.	Exhibit C Table 3 was updated to reflect the number of critical facilities at Unknown annual risk shown in the geodatabase.
12	2	SOW Task 2A	Structures in 1% annual risk is 62,936 in the geodatabase as opposed to 63,056 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that several critical facilities were inadvertently duplicated between versions of feature class updates. Additionally, several structures were erroneously removed between successive updates. These structures were addressed in a comprehensive update that resulted in reconcilliation between the table and geodatabase. In total, 243 structures were added to the exposure database and 123 structures were removed.
13	2	SOW Task 2A	Residential structures in 1% annual risk is 42,412 in the geodatabase as opposed to 42,646 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 234 residential structures in the 1% were inadvertently removed in an update. These structures were added back to the geodatabase.
14	2	SOW Task 2A	Structures in Unknown% annual risk is 65,753 in the geodatabase as opposed to 65,595 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 159 structures in 'Unknown' were inadvertently duplicated in an update. These structures were removed from the geodatabase. The true value of structures in 'Unknown' was found to be 65,594.
15	2	SOW Task 2A	Residential structures in Unknown% annual risk is 59,601 in the geodatabase as opposed to 59,599 in the Exhibit C Table 3. Please reconcile. We will accept a comment response with explanation for the discrepancy.	A review of the exposure database found that 3 residential structures in 'Unknown' were inadvertently duplicated in an update. These structures were removed from the geodatabase. The true value of residential structures in 'Unknown' was found to be 59,598.
16	2	SOW Task 2A	In the HHModel Excel spreadsheet, please populate MODEL TYPE with valid entries for MODEL_TYPE from the ModelCoverage feature class instead of filling with Software type. Valid entries for 'MODEL_TYPE' are Hydraulic, Hydrologic, Coastal, Combined Riverine-Coastal, 2D, Risk Assessment, Economics/BCA, Other, Unknown.	The HHModel Excel spreadsheet was updated to correspond to the valid entried from the ModelCoverage feature class.
17	2	SOW Task 2A	One model has mismatched names between TDIS and ModelCoverage feature class. For model 080000000039, the corresponding boundaries between ModelCoverage and TDIS are not congruent, with the TDIS boundary being a larger simplified boundary. Please reconcile.	Model names in the ModelCoverage feature class were updated to match exact TDIS names. No discrepency between the boundaries in the ModelCoverage and TDIS submittals was found for model 080000000039. However, the boundaries included in the TDIS submittal were copied over to the ModelCoverage feature class to ensure reconciliation.
18	2	SOW Task 2B	1% Risk Area is 4,955 square miles in the geodatabase as opposed to 5,048 square milse in the Exhibit C Table 5. Please reconcile.	The FutFldHaz feature class was reviewed and the value of 4,955 sq miles was found to be accurate. Table 5 was updated accordingly.
19	2	SOW Task 2B	Expected critical facilities such as 'EMS' appear to be missing. Please confirm this is correct.	Reviewed critical structure types for accuracy. Changed 18 structures listed as 'Other' to more accurate category types. Additionally, critical descriptions were added to each critical facility marked as 'Other'.
20	1	SOW Task 4B	Many required fields for recommended FMS are Null. Please reconcile	The FMS required fields were reviewed to ensure Null entries adhered to the Valid Entries guidance provided by the TWDB. All Null values entered were confirmed to be intentionally provided as Null to represent unknown or non-applicable data fields.
21	1	SOW Task 5	Cumulative Estimated number of road closures is 4,692 in the geodatabase as opposed to 1,027 in the Exhibit C Table 15. Please reconcile.	Exhibit C Table 15 was updated with the correct values for road closures from the geodatabase.
22	1	SOW Task 5	Cumulative Estimated length of roads at flood risk is 1,049 miles in the geodatabase as opposed to 4,714 miles in the Exhibit C Table 15. Please reconcile.	Exhibit C Table 15 was updated with the correct values for miles of road at flood risk from the geodatabase.
23	1	SOW Task 5	In the FME feature class, 59 FMEs appear to have a higher total population than the max of day and night populations. Please reconcile.	The max population field was recalculated to take the MAX value of day and night 100yr populations. These values were updated in Exhibit C Tables 12 and 15.
24	1	SOW Task 5	Cumulative Estimated number of road closures is 4,692 in the geodatabase as opposed to 1,027 in the Exhibit C Table 15. Please reconcile.	Exhibit C Table 15 was updated with the correct values for road closures from the geodatabase.
25	1	SOW Task 5	Cumulative Estimated length of roads at flood risk is 1,049 miles in the geodatabase as opposed to 4,714 miles in the Exhibit C Table 15. Please reconcile.	Exhibit C Table 15 was updated with the correct values for miles of road at flood risk from the geodatabase.
26	1	SOW Task 5	Cumulative Estimated number of road closures (#) is 912 in the geodatabase as opposed to 259 in the Exhibit C Table 23. Please reconcile.	The cumulative number of road closures in Exhibit C Table 16 was confirmed to be 912, as recorded in the geodatabase. The cumulative estimated length of roads at flood risk total 259 miles in Exhibit C Table 16, as recorded in the geodatabase.
27	1	SOW Task 5	Cumulative Estimated reduction in road closure occurrences is 406 in the geodatabase as opposed to 135 in the Exhibit C Table 23. Please reconcile.	The cumulative number of road closures in Exhibit C Table 16 was confirmed to be 406, as recorded in the geodatabase. The cumulative estimated length of roads at flood risk total 135 miles in Exhibit C Table 16, as recorded in the geodatabase.

Appendix 10.8 - Comments and Comment Responses on Final Lower Brazos Regional Flood Plan

TWDB Comment Received on Final Lower Brazos Regional Flood Plan				
Comment Number	**Level**	**Associated Task**	**Comment**	**Response**
28	1	SOW Task 5	Cumulative Estimated number of road closures (#) is 912 in the geodatabase as opposed to 259 in the Exhibit C Table 23. Please reconcile.	The cumulative number of road closures in Exhibit C Table 16 was confirmed to be 912, as recorded in the geodatabase. The cumulative estimated length of roads at flood risk total 259 miles in Exhibit C Table 16, as recorded in the geodatabase.
29	1	SOW Task 5	Cumulative Estimated reduction in road closure occurrences is 406 in the geodatabase as opposed to 135 in the Exhibit C Table 23. Please reconcile.	The cumulative number of road closures in Exhibit C Table 16 was confirmed to be 406, as recorded in the geodatabase. The cumulative estimated length of roads at flood risk total 135 miles in Exhibit C Table 16, as recorded in the geodatabase.
30	2	SOW Task 5	Please include a table or a reference to it in the body of the report, listing each recommended FMP, how no negative impact was determined, either via a model, a study or engineering judgement, listing of the model's name and unique model ID, study name, or engineering judgement description and submit the associated model. Please utilize attached template for the No Negative Impact table.	Chapter 5 was updated to include the provided table in Appendix 5.10 with a reference to the table in section 5.6.2 Negative Impact Identification within the body of the report.
31	2	General	Figures alternative text and other elements alternative text failed in accessibility check. Please consider adding alternative text as appropriate.	All PDF submittals were reviewed for accessibility failures and corrected accordingly.
32	1	General	We noted 41 failures when reviewing the PDF submittal with the Adobe Acrobat accessibility full check. At a minimum, please ensure that the following document properties are satisfied. PDF documents must have a very good document title, the primary language must be set to English, and the primary view must be set to document title. PDFs must also be tagged documents.	All PDF submittals were reviewed for accessibility failures and corrected accordingly. Appendix 1 was split from Appendices 2-10 to meet the guidelines on PDF size.

Appendix 10.8 - Comments and Comment Responses on Final Lower Brazos Regional Flood Plan

Public Comments Received on Final Lower Brazos Regional Flood Plan

Comment Number	Associated Task	Commenter	Date Received	Comment	Response
1	SOW Task 4B and 5	Washington County	3/14/23	Washington County is interested in a New Years Creek study at some point in the future. I understand this does not obligate us to do a study, but we would be greateful to get a placeholder in the state flood plan in case we want to appy for state funds in the future.	Moved FME 081001204 from the Non-Recommended to Recommended List to reflect received sponsorship support.
2	SOW Task 4B and 5	City of Stephenville	1/20/23	We have recently completed our draft submittal for a Category 1 FIF project in Erath County. As part of our study, we did alternative analyses at five sites in Stephenville, Texas that we would like to include in the Region 8 Flood Plan. From these five sites, we have developed 12 alternatives. The recommended alternatives, in priority order, are: 1. Prairie Wind Boulevard Alternative 2 2. Morgan Mill Road Alternative 1 3. Long Street Alternative 1 4. Lingleville Road Alternative 2 5. County Road 256 Alternative 1	Evaluated and added FMPs 083001298, 083001299, 08001300, 083001301, and 083001302 to the Recommended FMP list.
3	SOW Task 4B and 5	City of Taylor	2/9/23	The City would like to advance their top 5 unfunded large projects (see list below) in this plan so that they can be included in the revised 2024 State Flood Plan and considered for future funding. 1. Mallard Lane 2. Annie Street - 2nd Street 3. KBI / TH Johnson Drive 4. Bel Air Drive 5. Davis Street South	Evaluated and added FMPs 083001306, 083001307, 083001308, 083001309, and 083001310 to the Recommended FMP list.
4	SOW Task 4B and 5	City of Taylor	3/8/23	The attached letter from the City of Taylor has been mailed to your attention in regards to the Region 8 flood plan. The City of Taylor would like to formally request an exception from the drainage area restriction for its highest priority Draiange Master Plan projects, and for these projects to be considered for inclusion in the revised flood plan as recommended flood mitigation projects at the upcoming March 23rd planning group meeting.	Evaluated and added FMPs 083001306, 083001307, 083001308, 083001309, and 083001310 to the Recommended FMP list.
5	SOW Task 4B and 5	City of Eastland	4/19/23	We recently turned in a Category 1 FIF Report to TWDB for the City of Eastland. With the submittal, we provided to the board, all the necessary information (BCAs, models, geodatabase) for the 4 CIPs we recommend to be included as FMPs in the Regional Flood Plan.	Evaluated and added FMPs 083001303, 083001304, and 083001305 to the Recommended FMP list.
6	SOW Task 4B and 5	City of Gatesville	4/19/23	We are getting close on finalizing the Gatesville Master Draiange Plan Final Report. Per the attached review comments from TWDB, we will provide the full Table C and Appendix D information for the Sun Valley Neighborhood Levee and Straws Mill Road Low Water Crossing projects. Four other projects are recommended in the Master Draiange Plan, but they will not be funded with FIF funds. The Arrowood Low Water Crossing is currently funded with a CDBG-DR MIT grant, the SH 36 and FM 929 will be funded in cooperation with TXDOT and the Leon WWTP parapet wall will be funded with a CWSRF grant. We will provide the abridged analysis data for these 4 projects as well. We need to get this data included in the updated Region 8 Flood Plan.	Evaluated and added FMPs 083001211, 083001312, 083001313, 083001314, 083001315, 083001316 to the Recommended FMP list.
7	SOW Task 4B and 5	City of Nolanville	4/24/23	Requested inclusion of a city-wide Master Drainage Plan as an FME.	Evaluated and added FME 081001298 to the Recommended FME list.
8	SOW Task 4B and 5	City of Cedar Park	4/24/23	Requested inclusion of a city-wide Master Drainage Plan as an FME.	Evaluated and added FME 081001299 to the Recommended FME list.

Texas Water Development Board

P.O. Box 13231, 1700 N. Congress Ave.
Austin, TX 78711-3231, www.twdb.texas.gov
Phone (512) 463-7847, Fax (512) 475-2053

March 28, 2023

Pamela Hannemann
Water Resources Regional Planner
Brazos River Authority
4600 Cobbs Drive,
Waco, TX

RE: Request for Information: Regional Flood Planning Grant Contract with Brazos River Authority; Contract No. 2101792493, Final Regional Flood Plan

Dear Ms. Hannemann:

Thank you for submitting the 2023 Region 08 Lower Brazos Regional Flood Plan (RFP) to the Texas Water Development Board (TWDB) under the above referenced contract.

During our review we noticed some deficiencies that need to be addressed before the regional flood plan will be considered acceptable by TWDB. Please see the attached spreadsheet that contains a listing of these issues.

It is expected that the data presented within and across all written report sections, tables, excel spreadsheets, and the geodatabase which constitute the single RFP submission will be consistent. In cases where there are any discrepancies between equivalent data, the submitted geodatabase dataset shall supersede other data and the TWDB shall utilize the geodatabase dataset when developing the state flood plan.

For Level 1 comments:
Staff members have completed their initial review and have found these items either missing or not sufficient for our review. These Level 1 comments must be addressed with all relevant files resubmitted before our final plan review may continue. Note that we identified several Level 1 comment(s) that had been made during the TWDB review of draft regional flood plans that do not appear to have been fully addressed in the final plan. Those same comments are therefore included, once again, as Level 1 comments in the attached spreadsheet and are denoted with asterisks "***".

For Level 2 comments:
We noted several issues that will require attention. Note that these issues are not required to be resolved and resubmitted. However, we do request that you work to address these issues as part of the Amended Regional Flood Plan due by July 14, 2023.

Please email your Planner with a response, including resubmission of all relevant files, to the above information request(s) no later than April 11, 2023.

If you have any questions, please do not hesitate to contact Ryke Moore of our Flood Planning staff at 512-475-1564 or via email at Ryke.Moore@twdb.texas.gov.

Sincerely,

Reem Zoun, PE, CFM
Director, Flood Planning
Office of Planning

Attachment: TWDB Final Regional Flood Plan Review Comments

cc: Alysha Girard, RFPG Chair
Pam Hannemann, Brazos River Authority
Aaron Able, Brazos River Authority
Sam Hinojosa, Halff Associates, Inc.
Scott Rushing, Halff Associates, Inc.
Ryan Londeen, Halff Associates, Inc.
Ryke Moore, TWDB
James Bronikowski, TWDB
Matt Nelson, TWDB

Appendix 10.9

Appendix 10.9 - Index of Changes

Lower Brazos Amended Regional Flood Plan Index of Revisions						
Revision	**SOW Task Number**	**SOW Task Name**	**Item Type**	**Text Section and Name**	**Appendix Number and Name**	**Brief Description of Revision**
1	General	Executive Summary	Text	ES.5 Identification, Evaluation, and Recommendation of Flood Management and Mitigation Actions	-	Updated section to include additional FMXs received and developed during amendment period.
2	1	Existing Infrastructure	Table	-	Appendix 1.1 - TWDB Table 1c Summary of Flood Infrastructure	Instaces of duplicated polygons were reviewed and adjustments were made in response to TWDB comment 2.
3	1	Previous Studies	Text	Section 1.1.2.c Previous Studies	-	Updated section to include a brief description of additional studies performed and received during the amendment cycle.
4	2A	Existing Exposure	Table	-	Appendix 2A.2 - TWDB Table 3 Existing Flood Exposure	Updated to reconcile with changes made to ExFldExpAll feature class.
5	2A	Model Coverage	Text	Section 2A.1.b Existing Hydrologic and Hydraulic Model Availability	-	Updated section to include a brief description of additional models developed and received during the amendment cycle.
6	2A	Model Coverage	Map	-	Appendix 0 - Map 22	Updated to include additional models developed and received during the amendment cycle.
7	2B	Future Exposure	Table	-	Appendix 2B.2 - TWDB Table 5 Future Flood Exposure	Updated to reconcile with FutFldExpPol and FutFldExpAll feature classes.
8	4B	FMX	Text	Section 4B.3 Identification Process	-	Created section 4B.3.d to discuss additional FMXs received and developed during amendment period.
9	4B	FMX	Appendix	-	Appendix 4.5 Lower Brazos Flood Early Warning System Investigation	Created appendix to summarize RFPG efforts made under amendment process to evaluate flood warning in the Lower Brazos Region and make recommendations for additional flood warning.
10	4B	FMS	Appendix	-	Appendix 4.6 Development of Regional Watershed Studies and Additional FMPs	Created appendix to summarize RFPG efforts made under amendment process to evaluate watersheds and develop potentially feasible FMPs.
11	4B	FME	Text	Section 4B.4.b Critical Assessment Information	-	Updated section to include statistics and discussion of additional FMEs.
12	4B	FME	Table	-	Appendix 4.1 - TWDB Table 12 Potentially Feasible FMEs	Updated table to include additional FMEs.
13	4B	FME	Map	-	Appendix 0 - Map 16	Updated map to show extents of additional FMEs.
14	4B	FMP	Text	Section 4B.5.a FMP Types and Overview	-	Updated section to include statistics and discussion of additional FMPs.
15	4B	FMP	Table	-	Appendix 4.2 - TWDB Table 13 Potentially Feasible FMPs	Updated table to include additional FMPs.
16	4B	FMP	Map	-	Appendix 0 - Map 17	Updated map to show extents of additional FMPs.
17	4B	FMS	Text	Section 4B.5.b FMS Types and Overivew	-	Updated to include statistics and discussion of additional FMSs.
18	4B	FMS	Table	-	Appendix 4.3 - TWDB Table 14 Potentially Feasible FMPs	Updated table to include additional FMSs.
19	4B	FMS	Map	-	Appendix 0 - Map 18	Updated map to show extents of additional FMPs.
20	5	FMP Recs	Text	Section 5.1.1.a Benefit Area	-	Updated to include additional recommendation guidance principles determined by the RFPG during the amendment process.
21	5	FME Recs	Text	Section 5.2 Recommended FMEs	-	Updated to include statistics and discussion of additional recommended FMEs.

Appendix 10.9 - Index of Changes

Lower Brazos Amended Regional Flood Plan Index of Revisions						
Revision	**SOW Task Number**	**SOW Task Name**	**Item Type**	**Text Section and Name**	**Appendix Number and Name**	**Brief Description of Revision**
22	5	FME Recs	Table	-	Appendix 5.1 - TWDB Table 15 Recommended FMEs	Updated table to include additional recommended FMEs.
23	5	FME Recs	Map	-	Appendix 0 - Map 19	Updated map to show extents of additional recommended FMEs.
24	5	FMP Recs	Text	Section 5.4 Recommended FMPs	-	Updated to include recommendation approach and statistics and discussion of additional recommended FMPs.
25	5	FMP Recs	Table	-	Appendix 5.2 - TWDB Table 16 Recommended FMPs	Updated table to include additional recommended FMPs.
26	5	FMP Recs	Map	-	Appendix 0 - Map 20	Updated map to show extents of additional recommended FMPs.
27	5	FMP Details	Table	-	Appendix 5.8 - TWDB Tables 23-40 FMP Details	Updated table to include evaluation of additional recommended FMPs.
28	5	FMP Recs	Table	-	Appendix 5.10 - TWDB No Negative Impact Table	Created appendix to include additional TWDB table describing no negative impact determination and supporting data for each recommended FMP.
29	5	FMX Recs	Table	-	Appendix 5.9 - Model Submission Summary	Created appendix to include summary of all supporting models for submittal to TWDB.
30	6	Impacts of the Regional Flood Plan	Text	Section 6A.1 Relative Reduction in Flood Risk	-	Updated evaluation of flood risk reductions due to implementation of recommended FMPs to include additional recommendations.
31	6	Impacts of the Regional Flood Plan	Text	Section 6A.2 Other Impacts	-	Updated impacts of plan to include additional recommendations.
32	10	TWDB Comments	Appendix	-	Appendix 10.8 Final Plan TWDB and Public Comments and Responses	Created appendix to include TWDB comments and responses on the Lower Brazos Final Regional Flood Plan.
33	10	Public Comments	Appendix	-	Appendix 10.8 Final Plan TWDB and Public Comments and Responses	Created appendix to include public comments (requests for inclusion of additional FMXs) and responses on the Lower Brazos Final Regional Flood Plan.
34	10	Index of Changes	Appendix	-	Appendix 10.9 Index of Changes	Created appendix to summarize changes made to the Lower Brazos Regional Flood Plan during the
35	10	Adoption of Plan and Public	Text	Section 10.3.2 Monthly RFPG	-	Updated section to include information about RFPG monthly meetings during amendment period.
36	10	Adoption of Plan and Public	Text	10.8 Plan Adoption	-	Updated section to inlcude information on RFPG adoption of Lower Brazos Amended Regional Flood Plan.

Appendix 10.10

Appendix 10.10 - Comments and Comment Responses on Amended Lower Brazos Regional Flood Plan

TWDB Comments Received on Amended Lower Brazos Regional Flood Plan

Comment Number	Level	Associated Task	Comment	Response
1	2	SOW Task 10	Table ES.4 - Please consider correcting the column #2 header to read "Number of Identified FMPs"	Double-checked column 2 of Table ES.4 to confirm header reads "Number of Identified FMPs". No changes made.
2	2	SOW Task 10	Table ES.4 - There are 0 Recommended FMPs for Property Acquisition but there is a non-zero cost for the recommended FMPs--Please consider updating this table to rectify any potential errors.	Corrected number of recommended FMPs for Property Acquisition to be 1, corresponding to the listed cost for recommended Property Acquisition FMPs and the total number of recommended FMPs.
3	1	SOW Task 1	Tables 1A and 1B are missing from Appendix 1.1. Please include.	Added Tables 1A and 1B to Appendix 1.1.
4	2	SOW Task 1	Please consider revising the Table 1a and 1b titles in the spreadsheet. As they are currently presented, the line features are reported in the point table and the point features are reported in the line table.	Revised titles to be Table 1A: Summary of Flood Infrastructure (Line) and Table 1B: Summary of Flood Infrastructure (Point).
5	1	SOW Task 1	Please remove records that are not flood infrastructure, including, but not limited to, for example, DESCR = 'SCHOOL' or 'FACILITY'.	Removed 8 entries for "SCHOOL" and "FACILITY". Updated innacurate descriptions for infrastructures.
6	1	SOW Task 1	There are 48,588 features in the feature class, and 48,602 entries in the corresponding Exhibit C table (Table 1c). A discrepancy of 14 entries. Please reconcile.	Updated Exhibit C Table and corresponding appendix to reflect feature class.
7	2	SOW Task 1	There are approximately 82.33 square miles of duplicated infrastructure. Please reconcile.	Reviewed for any duplicated infrastructure. Overlaps were identified to only occur where different types of infrastructure coincided. No changes made.
8	2	SOW Task 1	Please consider updating the Woodrow Lake polygon (EXINFPY_ID #08000848) boundaries to more accurately reflect the reservoir boundaries.	Updated polygon boundary for Woodrow Lake to more closely adhere to the reservoir extents.
9	2	SOW Task 1	Please consider including the Watershed ID's in the Watersheds column of Table 2 for each FMP. The WS_ID is present in the GIS feature class.	Added Watershed IDs from WS_ID field in ExFldPrjs feature class to Exhibit C Table 2 and appendix table.
10	1	SOW Task 2A	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
11	1	SOW Task 2A	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct;	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
12	1	SOW Task 2A	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct;	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
13	1	SOW Task 2A	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct;	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
14	1	SOW Task 2A	Please ensure critical infrastructure (CRIT_TYPE = Power Generation) are in the polygon feature class, not points.	ExFldExpPt was revised to have 0 Power Generation structures. ExFldExpPol and ExFldExpAll were revised to have 6 power generation structures.
15	1	SOW Task 2A	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
16	1	SOW Task 2A	Required field SVI contains Nulls. Please verify that SVI is not available in these locations.	All structures with Null SVI entries were confirmed to be located within census tracts that contain '-9999' SVI.
17	1	SOW Task 2A	Critical infrastructure should be in polygons, rather than points (CRIT_TYPE = 'Power Generation'). Please modify, as appropriate.	ExFldExpPt was revised to have 0 Power Generation structures. ExFldExpPol and ExFldExpAll were revised to have 6 power generation structures.
18	2	SOW Task 2A	Critical Facilities in 0.2% annual risk is 309 in the Exhibit C table as opposed to the 0.2% value in the geodatabase (118) or the 1%+0.2% value in the geodatabase (304). Please modify, as appropriate.	Exhibit C Table and corresponding appendix updated to correspond to geodatabase values.
19	2	SOW Task 2A	Structures in Unknown% annual risk is 65,591 in the geodatabase as opposed to 65,594 in the Exhibit C table. Please modify, as appropriate.	Exhibit C Table and corresponding appendix updated to correspond to geodatabase values.
20	2	SOW Task 2A	Residential structures in Unknown% annual risk is 59,595 in the geodatabase as opposed to 59,598 in the Exhibit C table. Please modify, as appropriate.	Exhibit C Table and corresponding appendix updated to correspond to geodatabase values.
21	2	SOW Task 2A	Critical Facilities in Unknown% annual risk is 162 in the geodatabase as opposed to 165 in the Exhibit C table. Please modify, as appropriate.	Exhibit C Table and corresponding appendix updated to correspond to geodatabase values.
22	2	SOW Task 2A	Please consider changing the symbology of the buildings layer, light yellow is difficult to distinguish on a white background.	Adjusted symbology to use orange instead of yellow for increased visibility. Map 11 was updated to correspond.
23	1	SOW Task 2A	Model IDs should be unique 12-character lengths (RR+10 digits). Please modify, as appropriate.	Reviewed Model IDs to ensure they adhered to unique ID guidance. No changes made.
24	1	SOW Task 2A	Please rectify duplicated IDs (080000000060).	Corrected duplicate IDs to be 080000000060, 080000000061, 080000000062, corresponding to HHModels spreadsheet.
25	1	SOW Task 2A	Two models listed in the HHModels spreadsheet are not in the ModelCoverage feature class (IDs: 080000000061&080000000062). Please modify, as appropriate.	Corrected duplicate IDs to be 080000000060, 080000000061, 080000000062, corresponding to HHModels spreadsheet.
26	1	SOW Task 2A	Model IDs 080000000109, 080000000110, 080000000111, 080000000112, 080000000113, 080000000120, 08000000012, and 080000000135 were not listed on the HHModels spreadsheet nor in the ModelCoverage feature class, though these models are listed in MODEL_ID in the FMP feature class. Please modify, as appropriate.	Updated FMP MODEL_ID field to correspond to listed Models in HHModels spreadsheet and ModelCoverage feature class.
27	1	SOW Task 2A	In the HHModels spreadsheet, several associated FMXs listed do not exist in the FMP feature class. Please modify, as appropriate.	Adjusted associated FMXs for Model IDs 080000000050 and 080000000051 to correspond to FMPs within the FMP feature class. Other models have associated FMEs and FMSs that are not within FMP feature class, but are within their respective feature classes.
28	1	SOW Task 2A	There are 78 models listed in the HHModels spreadsheet, but only 65 were uploaded to TDIS MS2 system. Please modify, as appropriate.	Updated to include all 78 models in TDIS MS2 system.
29	1	SOW Task 2A	Several models in the ModelCoverage feature class and the corresponding model coverage features uploaded to TDIS MS2 system are not congruent (080000000039, 080000000059, 080000000073, 080000000075, 080000000094). Please ensure they have the same boundary for consistency.	Re-uploaded model 080000000059 with corrected model coverage feature boundary. Reviewed other model coverage features for alignment and updated ModelCoverage feature class.

Appendix 10.10 - Comments and Comment Responses on Amended Lower Brazos Regional Flood Plan

TWDB Comments Received on Amended Lower Brazos Regional Flood Plan

Comment Number	Level	Associated Task	Comment	Response
30	2	SOW Task 2A	Please consider populating optional field MODEL_ID in FMP feature class to better match HHModels spreadsheet.	Updated Model_ID field in FMP feature class to correspond to HHModels spreadsheet and ModelCoverage feature class.
31	2	SOW Task 2A	Please consider revising Map 22 so that the spatial extents of model coverage match what is submitted in the ModelCoverage feature class (only one HUC12 present for a given model, yet the surrounding HUCs are highlighted in Map 22).	Checked to ensure all models in ModelCoverage feature class are attributed to the correct HUC12s. Not represented using exact spatial extents for increased clarity. No changes made.
32	2	SOW Task 2B	Please consider including an in-text reference to Figure 2.7 (there are two references to Figure 2.6, one of which is likely meant to reference Figure 2.7).	Corrected second reference to Figure 2.6, to reference Figure 2.7.
33	2	SOW Task 2B	Please consider revising the caption for Figure 2.9, there appears to be a digit missing from the date range.	Revised caption for Figure 2.9 to show date range as 1906-2000.
34	1	SOW Task 2B	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
35	2	SOW Task 2B	1% Risk Area is 4,955 in the geodatabase as opposed to 5,048 in the Exhibit C table. Please consider modifying, as appropriate.	Updated Table 5 and corresponding appendix to reflect geodatabase values.
36	2	SOW Task 2B	0.2% Risk Area is 5,698 in the Exhibit C table, which does not match either the 0.2 value in the gdb, 734, nor 1% + 0.2% in the gdb, 5689. Please consider modifying, as appropriate.	Updated Table 5 and corresponding appendix to reflect geodatabase values.
37	2	SOW Task 2B	Please consider including an in-text reference to Table 2.9 and Table 2.10	Added in-text references to the paragraphs preceding Table 2.9 and Table 2.10.
38	1	SOW Task 2B	Please reconcile discrepancies between values in the Appendix table and the Excel Spreadsheet: in the 1% ACE table: Area in Floodplain, Critical Facilities. In the 0.2% ACE table: Area in Floodplain, Roadway Crossings.	Updated Table 5 and corresponding appendix to reflect geodatabase values.
39	1	SOW Task 2B	There are no records for coastal (FLD_TP_CST='Yes') 0.2% flood risk. Please confirm this is correct.	Updated FLD_TP_CST field for relevant FutFldExpPol entries to indicate the influence of coastal flooding.
40	1	SOW Task 2B	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
41	1	SOW Task 2B	There are no records for coastal (FLD_TP_CST='Yes') 0.2% flood risk. Please confirm this is correct.	Updated FLD_TP_CST field for relevant FutFldExpLn entries to indicate the influence of coastal flooding.
42	1	SOW Task 2B	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
43	1	SOW Task 2B	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
44	1	SOW Task 2B	There are no records for local/urban (FLD_TP_LOC = 'Yes') flood risk. Please confirm this is correct.	Region 08 did not receive any community submitted mapping nor acquire any flood risk dataset with the designation of local or urban flooding.
45	1	SOW Task 2B	Notable critical infrastructure 'Water Treatment' and 'Wastewater Treatment' are missing in CRIT_TYPE. Please confirm this is correct.	FutFldExpAll feature class updated to align with treatment facilities identified in ExFldExpAll feature.
46	1	SOW Task 2B	Critical infrastructure should be in polygons, rather than points (CRIT_TYPE = 'Power Generation'). Please modify, as appropriate.	FutFldExpPt was revised to have 0 Power Generation structures. FutFldExpPol and FutFldExpAll were revised to have 6 power generation structures.
47	2	SOW Task 2B	There are only 3 records in coastal (FLD_TP_CST='Yes') 0.2% flood risk. Please confirm this is correct.	FutFldExpAll was updated to include 80 records with FLD_TP_CST as 'Yes'.
48	2	SOW Task 2B	Required field SVI contains Nulls. Please verify that SVI is not available in these locations.	All structures with Null SVI entries were confirmed to be located within census tracts that contain '-9999' SVI.
49	2	SOW Task 2B	Please leave CRIT_TYPE as Null if CRITICAL='No'.	No changes made.
50	2	SOW Task 3A	Please consider including an in-text reference to Table 3.2. An in-text reference to Figure 3.2 is made prior to the table and may be mislabeled.	Added in-text reference for Table 3.2.
51	1	SOW Task 3B	There are two more entries in Table 6 than in the ExFpMp GDB. Please modify, as appropriate.	Added Fort Bend County MMD 2 and Lower Brushy Creek WC&ID to ExFpMp.
52	1	SOW Task 4B	There is one more entry in Table 11 than the Goals GDB table--GOAL_ID 08000020 is missing. Please modify, as appropriate.	Added GOAL_ID 08000020 to Goals geodatabase data table.
53	2	SOW Task 4B	Please consider inserting a higher-DPI version of Figure 4.1; as currently presented there is difficulty in reading the blurry text.	Replaced Figure 4.1 with higher quality version.
54	1	SOW Task 4B	Flood Measurement and Warning' is not a valid entry for FMEs. Please refer to Section 3.10, Table 23 of Exhibit D for a list of FME valid entries for FME_IDs (e.g., 081001115, 081001117, 081001300, 081001301, 081001302). Please modify, as appropriate.	Changed FME_TYPE to valid entry of 'Preparedness'. Updated corresponding Tables and appendices.
55	1	SOW Task 4B	Table 19 contains 85 FMEs, while the FME feature class contains 97 recommended FMEs. Please reconcile, as appropriate.	Updated Table 19 to include all recommended FMEs (85).
56	1	SOW Task 4B	Total FME Cost exceeds Non-construction related costs in Exhibit C Table 19. Please reconcile, as appropriate.	Addition of missing FMEs (per comment 56) resolved discrepency in costs between Table 19 and FME feature class.
57	1	SOW Task 4B	In the FME feature class, 59 recommended FME has/have a higher total population in 1% flood risk than the max of day and night populations. Please reconcile, as appropriate.	Updated POP100 fields to equal the maximum of POP_DAY100 or POP_NIGHT100.
58	2	SOW Task 4B	Estimated Study Cost is 29,579,000 in the geodatabase as opposed to 29,979,000 in the Exhibit C table.	Updated Exhibit C Table and corresponding appendix to reflect feature class (correct total $29,579,000).
59	1	SOW Task 4B	26 FMPs list associated models in the optional field MODEL_ID that do not exist in the ModelCoverage feature class. Please modify, as appropriate.	Reviewed MODEL_ID listings in FMP feature class for consistency with ModelCoverage feature class. No changes made.
60	1	SOW Task 4B	Cumulative Project Area (sqmi) is 581 in the geodatabase as opposed to 25,997 in the Exhibit C table. Please reconcile, as appropriate.	Reconciled Exhibit C Table and appendix with GIS data. Cumulative Project Area (sq mi) for both is 545.1.
61	1	SOW Task 4B	Table 19 contains 25 FMPs, while the FMP feature class contains 49 recommended FMPs. Please reconcile, as appropriate.	Updated Table 19 to include all recommended FMPs (49).
62	2	SOW Task 4B	Cumulative Estimated Project Cost ($) is 4,293,265,721 in the geodatabase as opposed to 4,293,265,048 in the Exhibit C table. Please consider modification, as appropriate.	Updated Exhibit C Table and corresponding appendix to reflect feature class (correct total $4,293,265,674).
63	2	SOW Task 4B	In the FMP feature class, 6 recommended FMPs have a higher total population at 1% flood risk than the max of day and night populations. Please consider modification, as appropriate.	Updated POP100 fields to equal the maximum of POP_DAY100 or POP_NIGHT100.
64	1	SOW Task 4B	Please populate required fields 'OTH_BENEFT' and 'NATURE' for recommended FMSs.	Populated OTH_BENEFT and NATURE fields for recommended FMSs.
65	1	SOW Task 4B	Table 19 contains 9 FMSs, while the FMS feature class contains 10 recommended FMSs. Please reconcile, as appropriate.	Updated Table 19 to include all recommended FMSs (10).
66	2	SOW Task 4B	Cumulative Estimated Project Cost ($) is 365,900,000 in the geodatabase as opposed to 360,000,000 in the Exhibit C table. Please consider modification, as appropriate.	Updated Exhibit C Table to show non-recurring non-capital and strategy costs for each FMS. Reconciled numbers with geodatabase.

TWDB Comments Received on Amended Lower Brazos Regional Flood Plan				
Comment Number	**Level**	**Associated Task**	**Comment**	**Response**
67	2	SOW Task 5	Please consider including an in-text reference to Figure 5.2; It appears that the in-text Figure references for the rest of Chapter 5 are misaligned due to the mislabeling of Figure 5.2.	Updated references throughout Ch 5 to correspond to the appropriate figures.
68	1	SOW Task 5	Please reconcile the discrepancy between the provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Project Cost (FMP_COST) contains 9 entries with discrepancies -- those entries have a total difference of $66,861,496.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
69	1	SOW Task 5	Please reconcile the discrepancy between the provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Cost per Structure Removed (COSTSTRUCT) contains 9 entries with discrepancies -- those entries have a total difference of $45,223,621.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
70	1	SOW Task 5	Please reconcile the discrepancy between the provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Floodplain Population -POPHAZ (POP100) contains 27 entries with discrepancies -- those entries have a total difference of 10,700.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
71	1	SOW Task 5	Please reconcile the discrepancy between the provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: SVI (SVI) contains 48 entries with discrepancies.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
72	2	SOW Task 5	Please consider reconciling the discrepancy between provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Benefit Cost Ratio (BC_RATIO) contains 5 entries with discrepancies -- those entries have a total difference of 0.567.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
73	2	SOW Task 5	Please consider reconciling the discrepancy between provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Structures in 1% chance flood (STRUCT_100) contains 1 entries with discrepancies -- those entries have a total difference of 2.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
74	2	SOW Task 5	Please consider reconciling the discrepancy between provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Structures at reduced risk (REDSTRUCT) contains 3 entries with discrepancies -- those entries have a total difference of 4.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
75	2	SOW Task 5	Please consider reconciling the discrepancy between provided values in the FMP_Details geodatabase table and the corresponding values in the FMP feature class: Critical facilities removed from 1% risk (REMCRITFAC) contains 9 entries with discrepancies -- those entries have a total difference of 14.	Updated FMP_Details data table and FMP Details spreadsheet to correspond to FMP feature class.
76	1	SOW Task 5	Please populate the non-recurring non-capital (NRNC) cost field for each recommended FMS that the region would like to see in the ranked list of FMS in the State Flood Plan.	Updated to include non-recurring non-capital costs for most recommended FMSs.

Texas Water Development Board

P.O. Box 13231, 1700 N. Congress Ave.
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Phone (512) 463-7847, Fax (512) 475-2053

November 6th, 2023

Ms. Pamela Hanneman:
Water Resources Regional Planner
Brazos River Authority
4600 Cobbs Drive
Waco, Texas 76710

RE: Request for Information: Regional Flood Planning Grant Contract with Brazos River Authority; Contract No. 2101792493, Amended Regional Flood Plan

Dear Ms. Hannemann:

Thank you for submitting the 2023 Region 08 Lower Brazos Amended Regional Flood Plan (RFP) to the Texas Water Development Board (TWDB) under the above referenced contract.

During our review we noticed some deficiencies that need to be addressed before the regional flood plan will be considered acceptable by TWDB. Please see the attached spreadsheet that contains a listing of these issues.

It is expected that the data presented within and across all written report sections, tables, excel spreadsheets, and the geodatabase which constitute the single RFP submission will be consistent. In cases where there are any discrepancies between equivalent data, the submitted geodatabase dataset shall supersede other data and the TWDB shall utilize the geodatabase dataset when developing the state flood plan.

For Level 1 comments:
Staff members have completed their initial review and have found these items either missing or not sufficient for our review. These Level 1 comments must be addressed with all relevant files resubmitted before our amended plan review may continue.

For Level 2 comments:
We noted several issues that will require attention. Note that these issues are not required to be resolved and resubmitted.

We kindly request that you respond promptly to this letter with the requested Level 1 revisions. With the upcoming FIF funding cycle and State Flood Plan development, it is imperative that we receive your updated data in a timely manner to ensure that we can obtain our Board's approval of this regional plan.

Please email your Planner with a response, including resubmission of all relevant files, to the above information request(s) no later than November 20th.

If you have any questions, please do not hesitate to contact Jake Madewell of our Flood Planning staff at (512) 475-1902 or via email at Jake.Madewell@twdb.texas.gov.

Sincerely

Reem Zoun

Reem Zoun, PE, CFM
Director, Flood Planning
Office of Planning

Attachment: TWDB Amended Regional Flood Plan Review Comments

cc: Alysha Girard, RFPG Chair
Pamela Hannemann, Brazos River Authority
Sam Hinojosa, Halff Associates, Inc.
Jake Madewell, TWDB
Anita Machiavello, TWDB
Matt Nelson, TWDB