

DRAFT

2023 REGIONAL FLOOD PLAN
REGION 6
SAN JACINTO

AUGUST 2022

PREPARED FOR THE SAN JACINTO
REGIONAL FLOOD PLANNING GROUP

TABLE OF CONTENTS

Appendix 0-1:	Bibliography and Citations
Appendix 1-1:	Map 1 - Existing Flood Infrastructure
Appendix 1-2:	Map 2 - Proposed or Ongoing Flood Mitigation Projects
Appendix 1-3:	Map 3 - Non-Functional or Deficient Flood Mitigation Features or Infrastructure
Appendix 1-4:	Table 1 - Existing Flood Infrastructure (ExFldInfra)
Appendix 1-5:	Table 2 - Existing Flood Projects (ExFldProjs)
Appendix 2A-1:	Map 4 - Existing Condition Flood Hazard
Appendix 2A-2:	Map 5 - Gaps in Inundation Mapping and Flood-Prone Areas
Appendix 2A-3:	Map 6 - Existing Condition Flood Exposure
Appendix 2A-4:	Map 7 - Existing Condition Vulnerability and Critical Infrastructure
Appendix 2A-5:	Table - Existing Hydrologic and Hydraulic Models
Appendix 2A-6:	Table - Expected Loss of Function Summary
Appendix 2A-7:	Table 3 - Existing Conditions Flood Exposure Summary Table
Appendix 2A-8:	Existing Conditions Flood Summary Tables
Appendix 2A-9:	Map 22 - Model Coverage
Appendix 2B-1:	Map 8 - Future Condition Flood Hazard
Appendix 2B-2:	Map 9 - Gaps in Inundation Mapping and Flood-Prone Areas
Appendix 2B-3:	Map 10 - Extent of Increase of Flood Hazard Compared to Existing Condition
Appendix 2B-4:	Map 11 - Future Condition Flood Exposure
Appendix 2B-5:	Map 12 - Future Condition Vulnerability and Critical Infrastructure
Appendix 2B-6:	Table 5 - Future Conditions Flood Exposure Summary Table
Appendix 2B-7:	Task 2B - Future Condition Flood Risk Analysis Technical Memorandum
Appendix 2B-8:	Future Conditions Flood Summary Tables
Appendix 3A-1:	Table 6 - Existing Floodplain Management Practices
Appendix 3A-2:	Map 13 - Floodplain Management
Appendix 3B-1:	Table 11 - Regional Flood Plan Flood Mitigation and Floodplain Management Goals
Appendix 4-1:	Map 16 - Potential Flood Management Evaluations
Appendix 4-2:	Map 17 – Potential Flood Mitigation Projects
Appendix 4-3:	Map 18 - Potential Flood Management Strategies

Appendix 4-4:	Table 12 - Potential FMEs
Appendix 4-5:	Table 13 - Potential FMPs
Appendix 4-6:	Table 14 - Potential FMSs
Appendix 5-1:	Map 19 - Recommended FMEs
Appendix 5-2:	Map 20 - Recommended FMPs
Appendix 5-3:	Map 21 - Recommended FMSs
Appendix 5-4:	Supplemental Source Documentation
Appendix 5-4A:	Non-Structural Flood Mitigation
Appendix 5-4B:	Lower Clear Creek and Dickinson Bayou Flood Mitigation Plan
Appendix 5-4C:	Brays Bayou CDBG-MIT
Appendix 5-4D:	Sims Bayou CDBG-MIT
Appendix 5-4E:	Halls Bayou CDBG-MIT
Appendix 5-4F:	White Oak Bayou CDBG-MIT
Appendix 5-4G:	Greens Bayou CDBG-MIT
Appendix 5-4H:	San Jacinto Master Drainage Plan
Appendix 5-4I:	Coastal Texas Protection and Restoration Feasibility Study
Appendix 5-5:	FMX One Pagers
Appendix 5-5A:	One-Page Summaries of Recommended FMPs
Appendix 5-5B:	One-Page Summaries of Recommended FMSs
Appendix 5-5C:	One-Page Summaries of Recommended FMEs
Appendix 5-6:	Table 15 - Recommended FMEs
Appendix 5-7:	Table 16 - Recommended FMPs
Appendix 5-8:	Table 17 - Recommended FMSs
Appendix 5-9:	FMP Details
Appendix 9-1:	Survey Template
Appendix 9-2:	Table 1 - Survey Results
Appendix 10-1:	Communications and Media Engagement Plan
Appendix 10-2:	Monthly E-Blasts
Appendix 10-3:	SJRFPD Distribution List
Appendix 10-4:	Technical Committee Meeting Minutes and Materials
Appendix 10-5:	Public Engagement Meeting Minutes and Materials

Appendix 10-6: May 2021 Pre-Planning Meeting Minutes

Appendix 10-7: August 2021 Existing Flood Risk Meeting Minutes

Appendix 10-8: May 2022 Open Houses Meeting Minutes

Appendix 10-9: Example Questionnaire

Appendix 10-10: TFMA Conference Materials

Appendix 10-11: Public Engagement Presentation

Appendix 3A-1:
Table 6 - Existing Floodplain Management Practices

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Alvin	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/alvin/codes/code_of_ordinances?nodeId=PTIICOR_APXAFLDAPR
City of Arcola	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Bayou Vista	Yes	Yes	Yes	No	Moderate	-	No	
City of Baytown	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/baytown/codes/code_of_ordinances?nodeId=SPBLADECO
City of Beach City	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Bellaire	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/bellaire/codes/code_of_ordinances?nodeId=PTIICOR_CH9BU_ARTII-AFLDAPR
City of Brookside Village	Yes	Yes	Yes	Yes	Strong	-	No	
City of Bunker Hill Village	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/bunker_hill_village/codes/code_of_ordinances?nodeId=COOR_CH4DEBUCA_ARTVDRFLDAPR
City of Clear Lake Shores	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/clear_lake_shores/codes/code_of_ordinances?nodeId=COOR_CH38FLDAPR
City of Cleveland	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/cleveland/codes/code_of_ordinances?nodeId=PTIICOR_CH58FL_ARTIIFLDAPR
City of Coldspring	No	Yes	Yes	No	Low	-	No	
City of Conroe	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/conroe/codes/code_of_ordinances?nodeId=SPBLADERE_CH78FL_ARTVPRFLHARE
City of Cut and Shoot	Yes	Yes	Yes	No	Low	-	No	
City of Dayton	Yes	Yes	Yes	Yes	Strong	-	No	http://online.encodeplus.com/regs/dayton-tx/doc-viewer.aspx?secid=217#secid-210
City of Deer Park	Yes	Yes	Yes	Yes	Strong	-	Yes	
City of Dickinson	Yes	Yes	Yes	Yes	Moderate	-	Yes	https://library.municode.com/tx/dickinson/codes/code_of_ordinances?nodeId=PTIICOR_CH14PLDE
City of El Lago	Yes	Yes	Yes	Yes	Strong	-	No	
City of Friendswood	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/friendswood/codes/code_of_ordinances?nodeId=PTIICICO_CH34FL
City of Fulshear	Yes	Yes	Yes	No	Low	-	No	https://library.municode.com/tx/fulshear/codes/code_of_ordinances
City of Galena Park	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/galena_park/codes/code_of_ordinances?nodeId=PTIICOR_CH26FLDAPR
City of Galveston	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/galveston/codes/code_of_ordinances?nodeId=PTIICOCICI_CH10BUCA_ARTVIIIICIGAFLDAPROR

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Hedwig Village	Yes	Yes	Yes	No	Low	-	No	https://library.municode.com/tx/hedwig_village/codes/code_of_ordinances?nodeId=COOR_CH38FL
City of Hillcrest Village	Yes	Yes	Yes	No	Low	-	No	
City of Hilshire Village	Yes	Yes	Yes	Yes	Strong	-	No	
City of Hitchcock	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/hitchcock/codes/code_of_ordinances?nodeId=TITXVLAUS_CH152FLHAAR
City of Houston	Yes	Yes	Yes	Yes	Strong	-	Yes	https://library.municode.com/tx/houston/codes/code_of_ordinances?nodeId=COOR_CH19FL https://www.houstonpermittingcenter.org/office-city-engineer/floodplain-management-office#agency-links-2096
City of Humble	Yes	Yes	Yes	Yes	Strong	-	No	
City of Hunters Creek Village	Yes	Yes	Yes	No	Low	-	No	
City of Huntsville	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Iowa Colony	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Jacinto City	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/jacinto_city/codes/code_of_ordinances?nodeId=CH3BURE_S7FLDAPRRE
City of Jamaica Beach	Yes	Yes	Yes	Yes	Moderate	-	No	http://www.ci.jamaicabeach.tx.us/Ordinances.htm
City of Jersey Village	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/jersey_village/codes/code_of_ordinances?nodeId=PTIICOOR_CH14BUDE_ARTIXSTDRFLDAPR https://www.jerseyvillagetx.com/page/city.flood_control
City of Katy	Yes	Yes	Yes	Yes	Strong	-	No	
City of Kemah	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/kemah/codes/code_of_ordinances?nodeId=CH46FL
City of La Marque	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/la_marque/codes/code_of_ordinances?nodeId=PTIICOOR_CH32FLDAPR_ARTIGEPR_S32-1STAU
City of La Porte	Yes	Yes	Yes	Yes	Strong	-	No	http://laportetx.gov/495/Public-Improvement-Criterial-Manual https://library.municode.com/tx/la_porte/codes/code_of_ordinances?nodeId=SPBLAUSRE_CH94FL
City of League City	Yes	Yes	Yes	Yes	Strong	-	No	https://www.leaguecity.com/1693/Development-Requirements
City of Liverpool	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Magnolia	Yes	Yes	Yes	No	Low	-	No	
City of Manvel	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/manvel/codes/code_of_ordinances?nodeId=PAIICOOR_CH32FLDAPR_ARTIIPRFLHARE_S32-58MAHO

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Meadows Place	Yes	Yes	Yes	No	Low	-	No	https://cityofmeadowsplace.org/departments/public-works/flood-plain-management/
City of Missouri City	Yes	Yes	Yes	Yes	Strong	-	No	http://www.missouricitytx.gov/489/Floodplain-Management http://www.missouricitytx.gov/88/Storm-Water-Management-Program https://library.municode.com/tx/missouri_city/codes/code_of_ordinances?nodeId=PTIICOOR_CH42FLMA
City of Mont Belvieu	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/mont_belvieu/codes/code_of_ordinances?nodeId=COOR_CH10BUBURE_ARTIIIFLMA_DIV2ADEN_S10-100FLADES
City of Montgomery	Yes	Yes	Yes	No	Low	-	No	
City of Morgan's Point	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/morgans_point/codes/code_of_ordinances?nodeId=COOR_CH42FL
City of Nassau Bay	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/nassau_bay/codes/code_of_ordinances?nodeId=PTIICOOR_CH8.5FLDAPR
City of New Waverly	Yes	Yes	Yes	Yes	Moderate	-	No	
City of North Cleveland	Unknown	No	No	No	None	-	No	
City of Oak Ridge North	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/oak_ridge_north/codes/code_of_ordinances?nodeId=COOR_CH42FLDAPR
City of Panorama Village	Yes	Yes	Yes	No	Low	-	No	
City of Pasadena	Yes	Yes	Yes	Yes	Strong	-	No	
City of Patton Village	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Pearland	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/pearland/codes/code_of_ordinances?nodeId=COOR_CH10_1-2FLDAPR
City of Piney Point Village	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/piney_point_village/codes/code_of_ordinances?nodeId=COOR_CH34FL
City of Plantersville	Unknown	No	No	No	None	-	No	
City of Plum Grove	Unknown	Yes	Yes	No	Low	-	No	
City of Prairie View	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Roman Forest	Yes	Yes	Yes	Yes	Moderate	-	No	

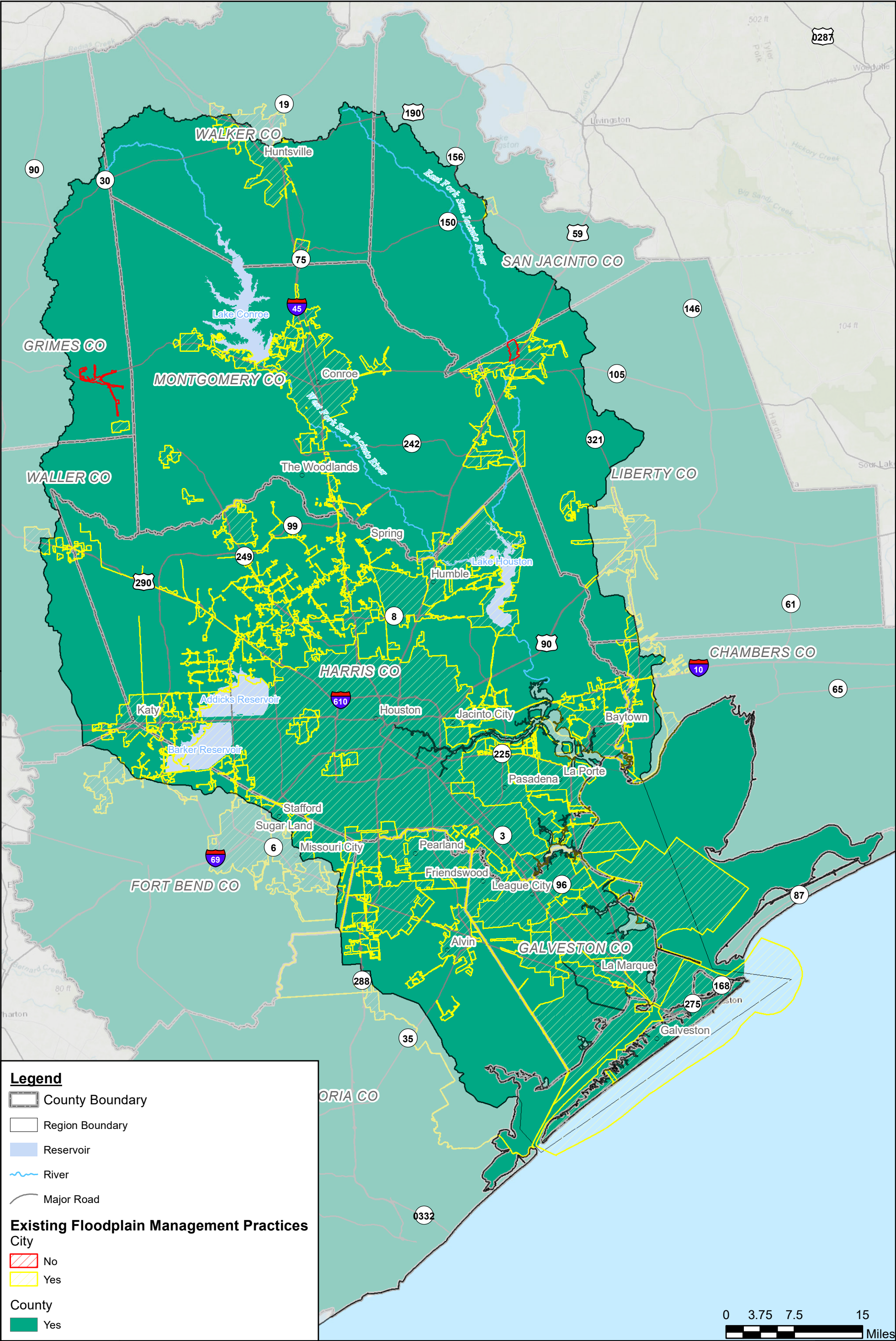
Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Santa Fe	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/santa_fe/codes/code_of_ordinances?nodeId=CH3CORE_S19FLHAARRE
City of Seabrook	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/seabrook/codes/code_of_ordinances?nodeId=PTIICOOR_CH38FL
City of Shenandoah	Yes	Yes	Yes	No	Low	-	No	https://library.municode.com/tx/shenandoah/codes/code_of_ordinances?nodeId=SPBLADERE_CH86FL
City of Shoreacres	Yes	Yes	Yes	Yes	Moderate	-	No	http://www.cityofshoreacres.us/MBFE.htm https://library.municode.com/tx/shoreacres/codes/code_of_ordinances?nodeId=CICO_CH30FL
City of South Houston	Yes	Yes	Yes	No	Low	-	No	https://library.municode.com/tx/south_houston/codes/code_of_ordinances?nodeId=COOR_CH6BUGEBURE_ARTIVFLDAPR
City of Southside Place	Yes	Yes	Yes	Yes	Strong	-	No	https://www.southsideplacetx.gov/DocumentCenter/View/1256/Flood-Damage-Prevention-Ordinance
City of Splendora	Yes	Yes	Yes	No	Low	-	No	https://library.municode.com/tx/splendora/codes/code_of_ordinances?nodeId=COOR_CH14FL
City of Spring Valley Village	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/spring_valley_village/codes/code_of_ordinances?nodeId=CH3BUCO_ART3.1600FLDAPR
City of Stafford	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/stafford/codes/code_of_ordinances?nodeId=PTIICOOR_CH26DRFLCO
City of Stagecoach	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Sugar Land	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/sugar_land/codes/land_development_code?nodeId=CH8FLDARERE
City of Taylor Lake Village	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/taylor_lake_village/codes/code_of_ordinances?nodeId=COOR_CH34FL https://www.taylorlakevillage.us/flood-information
City of Texas City	Yes	Yes	Yes	Yes	Moderate	-	No	https://codelibrary.amlegal.com/codes/texascity/latest/texascity_tx/0-0-0-8877
City of Tiki Island	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/tiki_island/codes/code_of_ordinances?nodeId=COOR_CH14EN_ARTIIFLPRCO
City of Todd Mission	Yes	Yes	No	No	Low	-	No	
City of Tomball	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/tomball/codes/code_of_ordinances?nodeId=PTIICOOR_CH10BUBURE_ARTVIIIIFLDAPR
City of Waller	Yes	Yes	Yes	Yes	Moderate	-	No	https://library.municode.com/tx/waller/codes/code_of_ordinances?nodeId=CD_ORD_CH34FL

Appendix 3A-1 - Table 6: Existing Floodplain Management Practices

Entity	Floodplain Management Regulations (Yes/ No/ Unknown)	Adopted minimum regulations pursuant to Texas Water Code Section 16.3145? (Yes/ No)	NFIP Participant (Yes/ No)	Higher Standards adopted (Yes/ No)	Floodplain Management Practices (Strong/ Moderate/ Low/ None)	Level of Enforcement of Practices (High/ Moderate/ Low/ None)	Existing Stormwater or Drainage Fee (Yes/ No)	Web Link to entity regulations
City of Webster	Yes	Yes	Yes	Yes	Moderate	-	Yes	https://library.municode.com/tx/webster/codes/code_of_ordinances?nodeId=PTIIC OOR_CH42FL
City of West University Place	Yes	Yes	Yes	Yes	Strong	-	No	https://library.municode.com/tx/west_university_place/codes/code_of_ordinances?nodeId=PTIICOOR_CH18BUDE_ARTIXFLDAPR
City of Willis	Yes	Yes	Yes	Yes	Moderate	-	No	
City of Woodbranch Village	Yes	Yes	Yes	No	Low	-	No	
Town of Woodloch	Yes	Yes	Yes	Yes	Moderate	-	No	
Brazoria County	Yes	Yes	Yes	Yes	Moderate	-	No	
Chambers County	Yes	Yes	Yes	Yes	Moderate	-	No	
Fort Bend County	Yes	Yes	Yes	Yes	Strong	-	No	
Galveston County	Yes	Yes	Yes	Yes	Strong	-	No	
Grimes County	Yes	Yes	Yes	No	Low	-	No	https://www.grimescountytexas.gov/upload/page/0090/Subdivision%20Rules%20and%20Regs%202011%20rev%202018.pdf
Harris County	Yes	Yes	Yes	Yes	Strong	-	No	
Liberty County	Yes	Yes	Yes	Yes	Moderate	-	No	
Montgomery County	Yes	Yes	Yes	Yes	Moderate	-	No	https://cms1files.revize.com/montgomerycountytexas/document_center/1Flood%20Map/Montgomery%20County%20Floodplain%20Management%20Regulations.pdf
San Jacinto County	Yes	Yes	Yes	Yes	Moderate	-	No	
Walker County	Yes	Yes	Yes	Yes	Moderate	-	No	
Waller County	Yes	Yes	Yes	Yes	Strong	-	No	

Appendix 3A-2:
Map 13 - Floodplain Management



Legend

- County Boundary
- Region Boundary
- Reservoir
- River
- Major Road

Existing Floodplain Management Practices

City

- No
- Yes

County

- Yes

Appendix 3B-1:
**Table 11 - Regional Flood Plan Flood Mitigation and Floodplain
Management Goals**

Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000001	There will be 0 flood-related fatalities annually within the San Jacinto region by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No guaranteed change in flood risk. Risk to life associated with indirect causes such as loss of power generation or isolation from medical care remain.	Number of direct flood-related fatalities	Protect against loss of life and property (31 TAC §362.3.b.13-14)	
06000002	Increase the value of state and federal funds awarded within the San Jacinto Region by 10%.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	Communities that need but were not awarded funding. No direct change to mapped flood risk	State and federal funds awarded to communities within the San Jacinto region	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	
06000003	Reduce the miles of major roadways subject to inundation during the 100-year event by 10% by 2033.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); No change to the extent of inundation along minor roadways; 90% of major thoroughfares subject to inundation during the 100-year event maintain the same risk	Number of miles of major thoroughfares subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000004
06000004	Reduce the miles of major roadways subject to inundation during the 100-year event by 25% by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); No change to the extent of inundation along minor roadways; 75% of major thoroughfares currently subject to inundation during the 100-year event maintain the same risk	Number of miles of major thoroughfares subject to 100-year flood risk	Protect against loss of life and property (31 TAC §362.3.b.13-14)	06000003
06000005	Increase the number of public entities that invest in stormwater infrastructure and planning by 10% by 2033.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No change in mapped flood risk; however, new funding will maintain or reduce risk as stormwater O&M and capital improvement projects are implemented.	Number of public entities that dedicate funding towards stormwater infrastructure and planning	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000006
06000006	Increase the number of entities that invest in stormwater infrastructure and planning by 25% by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No change in mapped flood risk; however, new funding will maintain or reduce risk as stormwater O&M and capital improvement projects are implemented.	Number of public entities that dedicate funding towards stormwater infrastructure and planning	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000005
06000007	All flood regulatory authorities within the region will adopt standards equal to or exceeding minimums as recommended by the San Jacinto RFPG in the first cycle of regional flood planning.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No change in flood risk; reduced flood risk for new development	Number of flood regulatory authorities that adopt standards equal to or exceeding recommended minimums by the RFPG in the first cycle	Consider floodplain management and development regulation (31 TAC § 362.b.6-7,26)	

Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

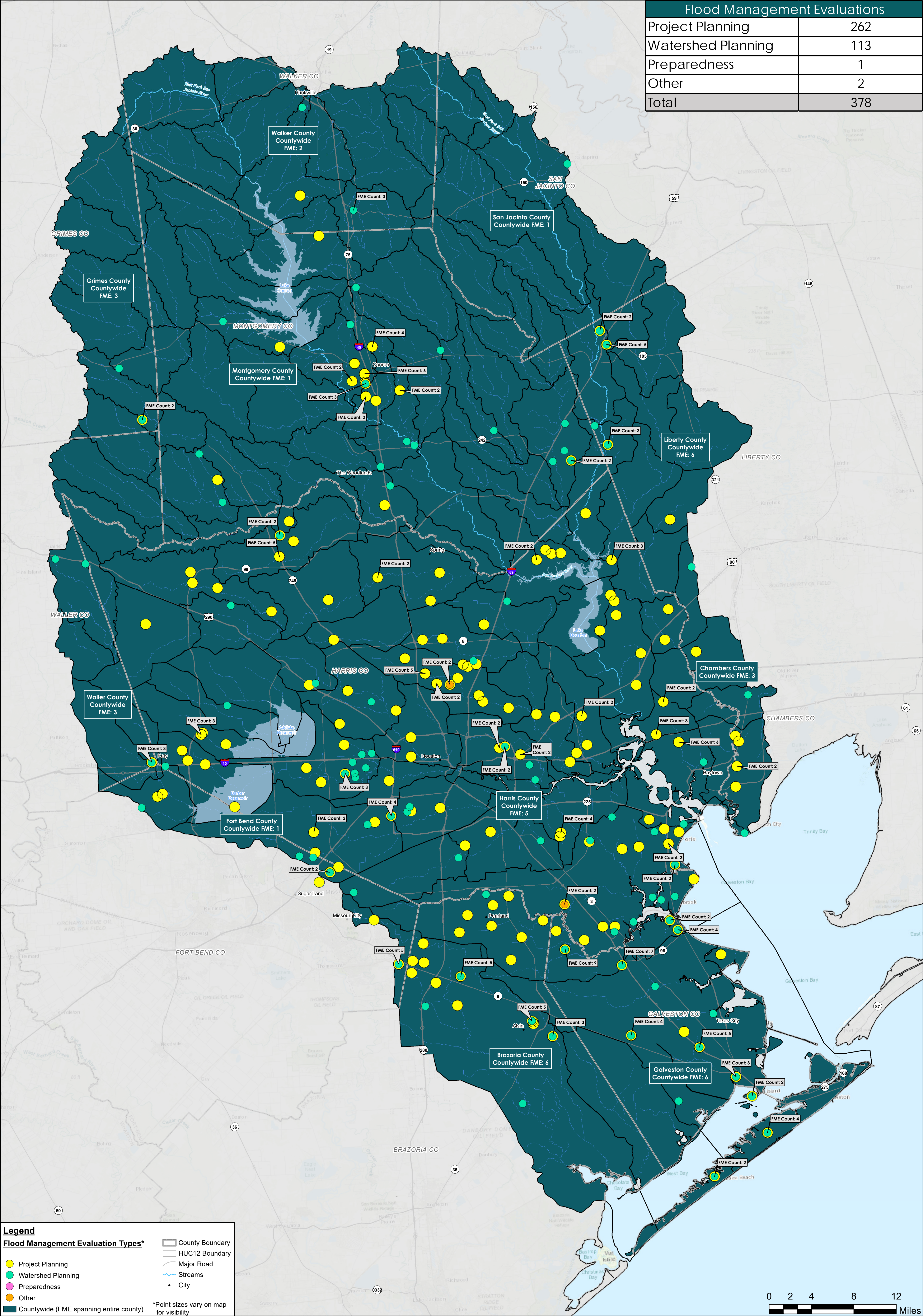
Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000008	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 50% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2033.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No change to flood risk. Participation in the San Jacinto Region is intended to reduce flood risk by improving coordination of data sharing, planning, and identification of funding opportunities for mitigation solutions.	Number of identified stakeholders who submit survey responses or provide data for inclusion in the San Jacinto Regional Flood Plan	No neighboring areas are negatively affected and consider floodplain management and development regulation (31 TAC § 362.3.b.6-7,10,26	06000009
06000009	Improve interjurisdictional coordination through participation in the SJRF Planning process. Target to ensure that 90% of identified stakeholders complete the SJRFP stakeholder survey and provide data for inclusion in the RFP by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No change to flood risk. Participation in the San Jacinto region is intended to reduce flood risk by improving coordination of data sharing, planning, and identification of funding opportunities for mitigation solutions.	Number of identified stakeholders who submit survey responses or provide data for inclusion in the San Jacinto Regional Flood Plan	No neighboring areas are negatively affected and consider floodplain management and development regulation (31 TAC § 362.3.b.6-7,10,26	06000008
06000010	Expand the understanding of flood risk in the San Jacinto region.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	Does not account for ongoing impacts of climate change; improves understanding of flood risk by accounting for updated rainfall data (NOAA Atlas 14)	Percentage of the floodplain quilt, by studied stream length, that is based on NOAA Atlas 14 rainfall data	Based on the best available science, data, models, and flood risk mapping (31 TAC § 362.3.b, 2)	
06000011	Reduce the number of critical facilities subject to inundation during the 100-year event by 5% by 2033.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); 95% of critical facilities subject to inundation during the 100-year event maintain the same flood risk	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000012
06000012	Reduce the number of critical facilities subject to inundation during the 100-year event by 20% by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	Does not address risks related to less frequent events (ex. 500-year event); 80% of critical facilities subject to inundation during the 100-year event maintain the same flood risk	Number of critical facilities subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	06000011
06000013	At least 35% of all flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plan will incorporate nature-based practices by 2033.	06	San Jacinto	Short Term (10-year)	2033	Entire RFPG	No residual risk as compared to equivalent conventional practices	Number of FMSs and FMPs that incorporate nature-based practices as defined within the San Jacinto Regional Flood Plan	Include nature-based features (31 TAC § 362.3.b. 17,24)	06000014

Appendix 3B-1 - Table 11: Flood Mitigation and Floodplain Management Goals

Goal ID	Goal	RFPG No.	RFPG Name	Term of Goal	Target Year	Applicable To	Residual Risk	How will the Goal be Measured	Overarching Goal	Associated Goal IDs
06000014	At least 90% of flood mitigation strategies (FMSs) and flood mitigation projects (FMPs) identified within the regional flood plain will incorporate nature-based practices by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	No residual risk as compared to equivalent conventional practices	Number of FMSs and FMPs that incorporate nature-based practices as defined within the San Jacinto Regional Flood Plan	Include nature-based features (31 TAC § 362.3.b. 17,24)	06000013
06000015	Reduce the number of structures subject to inundation during the 100-year event by 25% by 2053.	06	San Jacinto	Long Term (30-year)	2053	Entire RFPG	Does not address flood risk related to less frequent events (ex. 500-year event); 75% of structures subject to inundation during the 100-year event maintain the same flood risk	Number of structures subject to 100-year flood risk	Protect against loss of life and property (31 TAC § 362.3.b.13-14)	

Appendix 4-1:
Map 16 - Potential Flood Management Evaluations

Flood Management Evaluations	
Project Planning	262
Watershed Planning	113
Preparedness	1
Other	2
Total	378



Appendix 4-2:
Map 17 – Potential Flood Mitigation Projects

Flood Mitigation Projects	
Preparedness	21
Comprehensive	9
Detention Pond	2
Coastal	2
Channel	1
Other	1
Total	36

Legend

Flood Mitigation Project Types

Preparedness

Comprehensive

Detention Pond

Coastal

Channel

Other

Countywide (FMP spanning entire county)

County Boundary

HUC12 Boundary

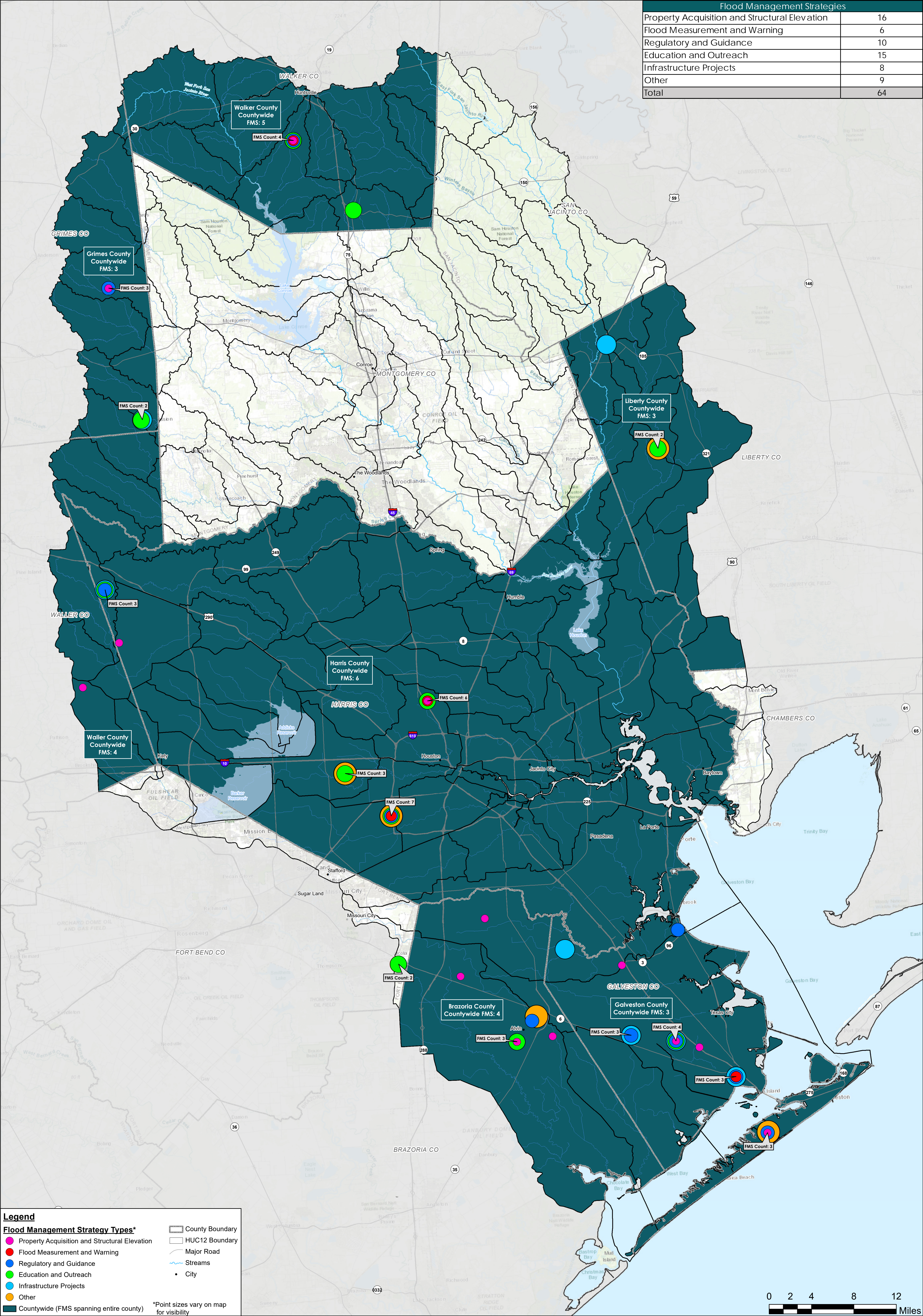
Major Road

Streams

City

Appendix 4-3:
Map 18 - Potential Flood Management Strategies

Flood Management Strategies	
Property Acquisition and Structural Elevation	16
Flood Measurement and Warning	6
Regulatory and Guidance	10
Education and Outreach	15
Infrastructure Projects	8
Other	9
Total	64



Appendix 4-4:
Table 12 - Potential FMEs

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	Study for design of Durant street storm sewer and pavement improvements. First of a two phase project to add a storm sewer system, concrete curb and gutter pavement and a sidewalk along Durant Street.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	25.088289	Urban/Local	City of Alvin	Brazoria, Galveston, West Brazoria County Drainage District, Alvin
061000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	Study for design of Durant street storm sewer and pavement improvements. Second of a two phase project to add a storm sewer system, concrete curb and gutter pavement and a sidewalk along Durant Street.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	25.088289	Urban/Local	City of Alvin	Brazoria, Galveston, West Brazoria County Drainage District, Alvin
061000003	City of Arcola Regional Drainage Improvements	Further study of proposed flood risk reduction project that includes various drainage improvement alternatives.	06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola
061000004	City of Stafford Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to the Stafford Oaks neighborhood.	06000015	Fort Bend	-	-	-	Project Planning	0.482396	Urban/Local	City of Stafford	Fort Bend, Stafford
061000005	Missouri City Estates Drainage Improvements	Further study of proposed flood risk reduction project that includes drainage improvements to Missouri City Estates.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	0.114604	Urban/Local	City of Stafford	Fort Bend, Harris, Stafford
061000011	City of Galveston Master Drainage Study	City wide drainage and flood risk reduction planning study of Galveston to include Atlas 14 rainfall.	06000010	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Watershed Planning	211.07994	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston
061000013	City of Bellaire Drainage System Repair Plan	Study needed to expedite a plan to repair and replace the highly critical local drainage systems in the current Bonds for Better Bellaire 2016.	06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire
061000014	City of Bellaire Additional Detention Facilities	Further study in support of refinement and planning of identified additional local detention facilities.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, City of Bellaire
061000015	City of Bellaire Newcastle System Drainage Upgrades	Study of proposed flood risk reduction project that includes drainage improvements to Newcastle in the City of Bellaire.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Project Planning	3.584954	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, City of Bellaire

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000001	Durant Street Storm Sewer and Pavement Improvements - Phase 1	N	\$ 120,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000002	Durant Street Storm Sewer and Pavement Improvements - Phase 2	N	\$ 110,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000003	City of Arcola Regional Drainage Improvements	N	\$ 520,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000004	City of Stafford Drainage Improvements	N	\$ 300,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000005	Missouri City Estates Drainage Improvements	N	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000011	City of Galveston Master Drainage Study	N	\$ 1,000,000.00	Unknown	21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000013	City of Bellaire Drainage System Repair Plan	N	\$ 300,000.00	Bonds for Better Bellaire 2016	5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		
061000014	City of Bellaire Additional Detention Facilities	N	\$ 1,000,000.00		5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		
061000015	City of Bellaire Newcastle System Drainage Upgrades	N	\$ 1,000,000.00		5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000016	City of Bunker Hill Drainage Projects	Further study of proposed localized and regional flood risk reduction projects within the City of Bunker Hill.	06000001, 06000011, 06000012, 06000015	Harris	12040104	120401040303	06000080	Project Planning	1.43671	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village
061000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	Further study of Master Drainage and Stormwater Management Plan for the City of Bunker Hill to include Atlas 14 rainfall.	06000001, 06000010, 06000015	Harris	12040104	120401040303	06000080	Watershed Planning	1.43671	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village
061000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	Further refine the DB Alt. 2 in the LCCDBFMP (2021), including alternative analysis to McFarland Detention Basin, W Cemetery Rd. Detention Basin, Hilton Detention Basin, Magnolia Bayou & Borden Gully Detention Basins, and Diversion Channel at Desel Dr.	06000015	Brazoria, Galveston, Harris	12040204	120402040100	06000106	Project Planning	261.600043	Riverine, Coastal, Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District,
061000024	Williamsburg Subdivision Drainage Assessment	Further study of a flood risk reduction project in the Williamsburg Subdivision which includes additional detail for the design of a required weir structure.	06000001, 06000015	Harris	12040104	120401040104	06000074	Project Planning	12.763415	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Katy, Houston
061000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	Additional analysis in the Jackson Bayou watershed, specifically along R102-00-00, is needed to determine the necessary improvements and provide a no impact solution.	06000001, 06000003, 06000004, 06000015	Harris	12040104	120401040704	06000096	Project Planning	0.261431	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District
061000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	Alternative analysis and assessment of additional protection of basin needed during design to control flows for 100-yr event.	06000001, 06000003, 06000004	Harris	12040104	120401040203	06000077	Project Planning	0.170291	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000027	Lake Shadows Subdivision Drainage Improvements	Further study and development of a FMP of recommended alternative 5 which includes installing the Foley trunk line downstream of the pipelines, upsizing and installing new outfalls, and installing the Belle Cote trunk line.	06000001, 06000015	Harris	12040101,12040104	120401010502, 120401040704	06000025, 06000096	Project Planning	1.444033	Urban/Local	Harris County	Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000016	City of Bunker Hill Drainage Projects	N	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000017	City of Bunker Hill Master Drainage and Stormwater Management Plan	N	\$ 170,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000022	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Dickinson Bayou Alternative 2	N	\$ 1,090,000.00	Unknown	13,029.00	11,413.00	64,095.00	147.00	9.00	9.00	240.15	128.52		
061000024	Williamsburg Subdivision Drainage Assessment	N	\$ 1,260,000.00	Harris County Bond Program 2018	2.00	2.00	8.00	0.00	0.00	0.00	0.61	6.59		
061000025	Preliminary Drainage & Infrastructure Improvements Happy Hide A Way Subdivision	N	\$ 110,000.00	Unknown	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000026	Bridgewater Village & Enclave at Bridgewater Drainage Analysis	N	\$ 750,000.00	Unknown	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
061000027	Lake Shadows Subdivision Drainage Improvements	N	\$ 280,000.00	Unknown	41.00	38.00	149.00	0.00	0.00	0.00	0.00	0.47		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	Further study as report recommendation (2019) indicates that regional drainage improvements to the streams must be studied and implemented before Harris County can obtain a benefit from roadway drainage improvements.	06000001, 06000003, 06000004, 06000015	Harris	12040104	120401040704	06000096	Project Planning	0.503369	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District
061000029	Spanish Cove Subdivision Drainage Assessment	Additional analysis needed to confirm no negative effects. It is expected the larger channel can safely convey the increase in flows, but this must be demonstrated during the project design phase.	06000001, 06000003, 06000004, 06000015	Harris	12040101,12040104	120401010502, 120401040704	06000025, 06000096	Project Planning	0.793754	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District
061000031	Shoreacres Drainage Assessment	Further analysis necessary to determine downstream impacts and whether any additional volume in A104-11-00 would be available during a coincident event on Taylor Bayou.	06000001, 06000013, 06000014, 06000015	Chambers, Harris	12040204	120402040100	06000106	Project Planning	0.958358	Riverine, Urban/Local	City of Shoreacres	Harris, Harris County Flood Control District, Shoreacres
061000032	Willow Creek - Overflow Flooding between Burlington Northern Railroad and Hufsmith-Kohrville Rd. Analysis	Study recommended as part of the Willow Creek Watershed Plan. Planning level analysis to identify flooding reasons in Northern Point subdivision south of SH99.	06000001, 06000003, 06000004, 06000015	Harris	12040102	120401020106, 120401020105, 120401020205, 120401020210, 120401020209, 120401020212	06000031, 06000030, 06000037, 06000042, 06000041, 06000044	Project Planning	55.366101	Riverine, Urban/Local	Harris County Flood Control District (HCFCFCD)	Harris, Harris County Flood Control District, Houston, Tomball
061000034	Galveston Bay Watershed Plan- Analysis of PA07 100-year Conveyance Project	Project recommended by the Galveston Bay Watershed Plan. Modeling required to determine no negative Proposed subdivision drainage improvements to the Battle Ground Estates include replacement of driveway crossings and widening F101-08.	06000001, 06000005, 06000006, 06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	19.292984	Riverine, Urban/Local	Harris County Flood Control District (HCFCFCD)	Harris, Harris County Flood Control District, La Porte

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000028	Gum Gully Rd, W Stroker Rd, Wigwam Ln, and Related Infrastructure Drainage Improvements	N	\$ 130,000.00	Harris County Bond Program 2018	3.00	0.00	6.00	0.00	0.00	0.00	0.06	0.00		
061000029	Spanish Cove Subdivision Drainage Assessment	N	\$ 150,000.00	Unknown	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000031	Shoreacres Drainage Assessment	N	\$ 100,000.00		801.00	787.00	2,456.00	3.00	1.00	1.00	17.16	0.22		
061000032	Willow Creek - Overflow Flooding between Burlington Northern Railroad and Hufsmith-Kohrville Rd. Analysis	N	\$ 590,000.00	Harris County in conjunction with Hufsmith-Kohrville Rd improvement project, Burlington Northern Railroad, federal grant for urban areas with high social vulnerability index	10.00	0.00	9.00	0.00	1.00	1.00	0.50	2.66		
061000034	Galveston Bay Watershed Plan- Analysis of PA07 100-year Conveyance Project	N	\$ 400,000.00	Harris County, City of La Porte	3,302.00	2,855.00	14,150.00	108.00	0.00	0.00	55.06	17.82		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000035	Galveston Bay Watershed Plan-Analysis of PA08 100-year Conveyance Project	Project recommended by the Galveston Bay Watershed Plan. Modeling required to determine no negative impacts. Storm sewer improvements to Monument Estates, increase roadside ditch capacity, and expand bypass channel outflowing into F101-00-00.	06000001, 06000005, 06000006, 06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	19.292984	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte
061000037	City of Alvin Flood Gauges	Study to identify areas where best to purchase additional flood gauges to be placed at bayous and key high water areas within City of Alvin.	06000001, 06000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	25.088289	Urban/Local	City of Alvin	Brazos River Authority, West Brazoria County Drainage District, Alvin
061000038	Brazoria County Costal River Flood Extent Analysis	Study to determine flood extents, in Brazoria County, of recent hurricane disasters, by analyzing the post event aerial imagery through a GIS image classification process, and compare the flood extent area to other sources, such as LIDAR.	06000001, 06000010, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.869781	Riverine	Brazoria County	Brazoria, Brazos River Authority, West Brazoria County Drainage District, Gulf Coast Protection District
061000039	City of Alvin Master Drainage Plan	Comprehensive review of current drainage, studies and recommendations for future projects and studies to create a Master Drainage Plan for the City of Alvin.	06000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Urban/Local	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin
061000040	City of Alvin Open Space Preservation	Study for open space preservation with within adjacent development, dedication of conservation easements or fee simple acquisition of land along Mustang Bayou.	06000001, 06000013, 06000014, 06000015	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Riverine, Urban/Local	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000035	Galveston Bay Watershed Plan- Analysis of PA08 100-year Conveyance Project	N	\$ 800,000.00	Harris County, City of Pasadena and City of Seabrook	3,302.00	2,855.00	14,150.00	108.00	0.00	0.00	55.06	17.82		
061000037	City of Alvin Flood Gauges	N	\$ 75,000.00		3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000038	Brazoria County Costal River Flood Extent Analysis	N	\$ 50,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000039	City of Alvin Master Drainage Plan	N	\$ 440,000.00		3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000040	City of Alvin Open Space Preservation	N	\$ 300,000.00		3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000041	City of Manvel SH. 6 Drainage Improvements	Further study of state Highway 6 drainage improvements, including storm sewer upgrades to meet current capacities, ditch deepening, and sub regional detention ponds. Project will also widen and reshape ditches, and upgrade culverts.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
061000042	Chambers County Dam and Levee Failure Inundation Map Update	Further study for all participating jurisdictions to update dam and levee failure inundation maps, and update floodplain and floodway maps throughout the county. The updated maps will also be made available to the public.	06000001, 06000010, 06000015	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Watershed Planning	865.547793	Urban/Local	Chambers County	Chambers, Gulf Coast Protection District
061000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	Further assessment and design of detention ponds needed aon Mustang and Dickinson Bayous to reduce flood risk in the City of Alvin.	06000001, 06000003, 06000004, 06000015	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	25.088289	Riverine	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin
061000044	Chambers County Property Protection	Stud to determine flood risk reduction potential of clearing obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding throughout all participating jurisdictions.	06000001, 06000011, 06000012, 06000015	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Project Planning	865.547793	Urban/Local	Chambers County	Chambers, Trinity River Authority of Texas
061000045	City of Manvel Flora St. Drainage Improvements	Study of possible Flora Street drainage improvements: widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in Manvel neighborhoods.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000041	City of Manvel SH. 6 Drainage Improvements	N	\$ 3,000,000.00	"FEMA-HMGP, PDM, FMA, City, County, Drainage Districts, Gulf Coast Water Authority, TXDOT	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000042	Chambers County Dam and Levee Failure Inundation Map Update	N	\$ 150,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		
061000043	City of Alvin Detention Pond Construction - Mustang and Dickinson Bayou	N	\$ 190,000.00		3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000044	Chambers County Property Protection	N	\$ 500,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		
061000045	City of Manvel Flora St. Drainage Improvements	N	\$ 100,000.00	FEMA-HMGP, PDM, FMA, City, County, Drainage District	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000046	Brazoria County Drainage Improvements	Drainage study needed and evaluated of alternatives include: Widen and reshape drainage ditches, and upgrade culverts to restore adequate drainage to mitigate flooding.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.869781	Urban/Local	Brazoria County	Brazoria,, West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock
061000047	City of Manvel Various Drainage Improvements	Study of various drainage improvements, including storm sewer rehabilitation and ditch deepening.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Project Planning	27.409399	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
061000048	Brazoria County Property Protection	Further study required to assess alternatives to restore drainage and mitigate flooding throughout the county.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.869781	Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Gulf Coast Protection District
061000049	City of Hillcrest Village Drainage Improvements	Further study and FMP development required to assess alternatives to restore drainage and mitigate flooding throughout the City of Hillcrest Village.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.438197	Urban/Local	City of Hillcrest Village	Brazoria, West Brazoria County Drainage District, Hillcrest
061000050	West Chocolate Bayou (CR 383 Ditch)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	3.372056	Riverine	City of Pearland	Brazoria, Fort Bend, West Brazoria County Drainage District, Arcola, Iowa Colony

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000046	Brazoria County Drainage Improvements	N	\$ 350,000.00	PDM, HMGP	18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000047	City of Manvel Various Drainage Improvements	N	\$ 460,000.00	FEMA-HMGP, PDM, FMA, City, County, Drainage Districts	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000048	Brazoria County Property Protection	N	\$ 500,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000049	City of Hillcrest Village Drainage Improvements	N	\$ 130,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		
061000050	West Chocolate Bayou (CR 383 Ditch)	N	\$ 220,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000051	West Fork Chocolate (Cold River Ranch Ditch)	Further study of proposed channel modifications to Cold River Ranch Ditch included in the City of Pearland master drainage plan to include Atlas 14 rainfall.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	1.608493	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Manvel, Iowa Colony
061000052	West Fork Chocolate Bayou	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	13.891782	Riverine	City of Pearland	Brazoria, Fort Bend, West Brazoria County Drainage District, Arcola, Manvel, Iowa Colony
061000053	East Chocolate Bayou (E103-00-00)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.48644	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Iowa Colony
061000054	Cannon Ditch Segment 2	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	5.70859	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland, Manvel
061000055	City of Galveston Coastal Road Elevation	Elevate coastal roads to better protect public during evacuation and to protect the roads from flood damage, where technically feasible.	06000001, 06000003, 06000004	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal	City of Galveston	Galveston, City of Galveston
061000056	Mary's Creek Lower Segment	Study to develop project into a FMP. Project will provide a 25-year LOS; Channel modifications from SH35 to downstream of Pearland Pkwy. and 1670 ac-ft mitigation.	06000001, 06000003, 06000004, 06000015	Brazoria, Galveston	12040204	120402040100	06000106	Project Planning	1.147714	Riverine	City of Pearland	Brazoria, Galveston, West Brazoria County Drainage District, Pearland, Friendswood

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000051	West Fork Chocolate (Cold River Ranch Ditch)	N	\$ 180,000.00		60.00	54.00	56.00	0.00	0.00	0.00	1.19	0.44		
061000052	West Fork Chocolate Bayou	N	\$ 360,000.00		295.00	239.00	442.00	0.00	0.00	0.00	6.01	157.04		
061000053	East Chocolate Bayou (E103-00-00)	N	\$ 130,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		
061000054	Cannon Ditch Segment 2	N	\$ 260,000.00		574.00	342.00	814.00	0.00	0.00	0.00	2.78	26.85		
061000055	City of Galveston Coastal Road Elevation	N	\$ 1,000,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000056	Mary's Creek Lower Segment	N	\$ 160,000.00		75.00	60.00	554.00	1.00	1.00	1.00	2.63	0.44		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000057	Hickory Slough (Upper Segment)	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	4.745045	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland
061000059	City of Manvel Gates Loop Subdivision Drainage Improvement	Further study proposed Gates Loop subdivision drainage improvement.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.045648	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
061000060	Hickory Slough Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	1.833248	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland, Brookside Village
061000061	Mary's Creek Upper Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	5.201152	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland
061000063	Mary's Creek Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	4.227454	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland
061000064	Mustang Bayou Middle Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria, Fort Bend	12040204	120402040400	06000109	Project Planning	5.350617	Riverine	City of Pearland	Brazoria, Fort Bend, West Brazoria County Drainage District, Pearland, Manvel

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000057	Hickory Slough (Upper Segment)	N	\$ 250,000.00		413.00	91.00	1,269.00	4.00	0.00	0.00	1.56	6.48		
061000059	City of Manvel Gates Loop Subdivision Drainage Improvement	N	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000060	Hickory Slough Middle Segment	N	\$ 180,000.00		353.00	215.00	1,596.00	0.00	0.00	0.00	4.09	8.21		
061000061	Mary's Creek Upper Segment	N	\$ 250,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000063	Mary's Creek Middle Segment	N	\$ 240,000.00		994.00	745.00	2,861.00	5.00	0.00	0.00	19.28	9.73		
061000064	Mustang Bayou Middle Segment	N	\$ 260,000.00		257.00	202.00	2,051.00	1.00	0.00	0.00	5.62	39.29		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000065	Hickory Slough Lower Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	1.011809	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland
061000066	Mustang Bayou Upper Segment	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Fort Bend	12040204	120402040400, 120402040100	06000109, 06000106	Project Planning	7.070206	Riverine	City of Pearland	Fort Bend, Missouri City, Houston
061000067	City of Alvin Dickinson Bayou Watershed Study	Study of Dickinson Bayou Watershed to determine drainage improvement alternatives.	06000001, 06000010	Brazoria, Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	25.088289	Riverine	City of Alvin	Brazoria, West Brazoria County Drainage District, Alvin
061000069	City of Galveston Shoreline Protection	Further study and FMP development of a proposed shoreline protection for areas prone to coastal erosion.	06000001	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal	City of Galveston	Galveston, City of Galveston
061000070	Cowart Creek Segment 16	Further study including Atlas 14 rainfall incorporation and Benefit Cost Analysis of proposed channel modifications included in the City of Pearland master drainage plan.	06000001, 06000003, 06000004, 06000015	Brazoria	12040204	120402040100	06000106	Project Planning	2.180323	Riverine	City of Pearland	Brazoria, West Brazoria County Drainage District, Pearland
061000071	City of Galveston Dune Restoration	Study of dune system to determine needs and flood damage reduction potential of restoration.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Project Planning	211.07994	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston
061000072	City of Hillcrest Village Engineering Survey	Conduct an engineering assessment to establish proper drainage for 24 homes located in the high risk flood Zone.	06000015	Brazoria	12040204	120402040400	06000109	Project Planning	0.438197	Urban/Local	City of Hillcrest Village	Brazoria, West Brazoria County Drainage District, Hillcrest
061000076	Dredging Cedar Bayou	Study of proposed Cedar Bayou dredging to determine flood risk reduction potential.	06000001, 06000015	Harris, Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Project Planning	44.227743	Riverine	Chambers County	Chambers, Baytown, Mont Belvieu, Southeast Texas Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000065	Hickory Slough Lower Segment	N	\$ 160,000.00		424.00	377.00	1,648.00	0.00	0.00	0.00	6.26	4.77		
061000066	Mustang Bayou Upper Segment	N	\$ 280,000.00		415.00	367.00	778.00	0.00	3.00	3.00	4.48	19.51		
061000067	City of Alvin Dickinson Bayou Watershed Study	N	\$ 500,000.00		3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81	262.30		
061000069	City of Galveston Shoreline Protection	N	\$ 50,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000070	Cowart Creek Segment 16	N	\$ 190,000.00		150.00	123.00	313.00	0.00	0.00	0.00	1.10	7.82		
061000071	City of Galveston Dune Restoration	N	\$ 1,000,000.00		21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63	260.88		
061000072	City of Hillcrest Village Engineering Survey	N	\$ 300,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		
061000076	Dredging Cedar Bayou	N	\$ 7,070,000.00		119.00	44.00	735.00	0.00	0.00	0.00	6.29	341.08		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000078	Dam and Levee Failure Inundation Map Update	Study by each jurisdiction to update their dam and levee failure inundation maps to identify the probability and impact of a dam and levee failures	06000001, 06000010, 06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.869781	Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Gulf Coast Protection District
061000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	Further study of proposed Tiki Drive bridge modifications	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	1.5865	Urban/Local	City of Tiki Island	Galveston, Tiki Island
061000082	Stream and River Flood Program	Conduct flood mitigation outreach program using information from river and stream flood study. Awareness of specific stream and river flooding problems in their communities, and will provided guidance on how to mitigate flooding in their jurisdiction.	06000015	Waller	12040102,12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Preparedness	515.948311	Riverine, Urban/Local	Waller County	Waller, San Jacinto River Authority, Brazos River Authority, Katy, Waller, Houston, Prairie View, Gulf Coast Protection District
061000083	Liberty County Drainage Projects	Further study of proposed drainage projects throughout the county- including adding ditches, detention ponds and detention basins in identified locations throughout the county in order to improve drainage.	06000015	Liberty	12040103,12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.763635	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Plum Grove, Mont Belvieu, Southeast Texas Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000078	Dam and Levee Failure Inundation Map Update	N	\$ 2,200,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000080	Replace the Tiki Drive bridge with improved, hardened bridge to withstand storm surge and debris.	N	\$ 220,000.00		1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64	3.91		
061000082	Stream and River Flood Program	N	\$ 250,000.00		1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		
061000083	Liberty County Drainage Projects	N	\$ 2,000,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000084	City of Bayou Vista Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000015	Galveston	12040204	120402040200	06000107	Watershed Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista
061000085	Cane Island Branch-Alt 2	Further study and FMP development of proposed channel modifications to Cane Island Branch including Atlas 14 rainfall.	06000001, 06000015	Waller, Harris, Fort Bend	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Project Planning	14.52125	Urban/Local	Waller County	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy
061000086	Property Protection, Structural Project	Generate base flood elevation data for flood map revisions. Use floodplain study to identify future mitigation activities to improve water ways and flood carrying capacities. Area to include approximately 4 miles of floodway in New Waverly.	06000001, 06000015	Walker	12040103	120401030101	06000046	Watershed Planning	2.213119	Urban/Local	City of New Waverly	Walker, New Waverly
061000087	City of La Marque - East Side Storm water detention	Feasibility study and a drainage analysis of the new pond row acquisition and associated conveyance improvements on a part of 10 acres of land.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque
061000088	City of League City - Kansas Street Drainage	Further study and FMP development of proposed street drainage modifications to Kansas Street.	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, League City
061000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	Study to update city storm surge maps based upon the NWS predicted storm surge and projected track for landfall. The new maps may more accurately display water depth in areas within the city.	06000001, 06000010, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Coastal	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood
061000090	City of Bayou Vista - Storm Sewer System Evaluation	Storm sewer system evaluation to determine reconstruction/upgrade needs to increase water flow	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista
061000091	City of Friendswood - Comprehensive Flood Mitigation Plan	Study to update city floodplain maps and develop flood mitigation plan	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000084	City of Bayou Vista Master Drainage Plan	Y	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		
061000085	Cane Island Branch-Alt 2	N	\$ 360,000.00		546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		
061000086	Property Protection, Structural Project	N	\$ 2,500,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000087	City of La Maque - East Side Storm water detention	N	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000088	City of League City - Kansas Street Drainage	N	\$ 580,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000089	Update City of Friendswood Storm Surge Maps to Reflect the NWS Predictions	N	\$ 140,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000090	City of Bayou Vista - Storm Sewer System Evaluation	N	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		
061000091	City of Friendswood - Comprehensive Flood Mitigation Plan	N	\$ 140,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000094	City of Santa Fe - Storm Water Detention & Widening Drainage System and Culverts Study	Study to plan for storm sewer detention and drainage system modifications.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe
061000096	City of Friendswood - Devils Dip	Further study and design of modifications along Mary's creek bridge and channel	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Riverine	City of Friendswood	Galveston, Harris County Flood Control District, Friendswood
061000097	League City - Stormwater Drainage Improvement- Interurban & Newport ditch	Further study of proposed slope paving (concrete lining) improvements	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District
061000098	Study of Texas City Hurricane Flood Protection Project	Corp of Engineers study of the Texas City Hurricane Flood Protection Project to improve the current levee system to provide protection from category 5 storm.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.948319	Coastal, Urban/Local	Galveston County	Galveston, USACE
061000101	Fort Bend County - Big Creek Project	Further study of Big Creek channel improvements and wetland mitigation sites.	06000001, 06000011, 06000012, 06000015	Fort Bend	12040104,12040204	120401040102, 120401040103, 120401040104, 120401040101, 120401040401, 120401040501, 120402040400, 120402040100	06000072, 06000073, 06000074, 06000071, 06000083, 06000085, 06000109, 06000106	Project Planning	882.723047	Riverine	Fort Bend County Drainage District	Fort Bend County
061000102	Raise Road Surfaces in City of Plum Grove	Further evaluation of road surface elevation.	06000001, 06000011, 06000012, 06000015	Liberty	12040103	120401030402	06000070	Project Planning	3.613092	Urban/Local	City of Plum Grove	Liberty, Plum Grove, Southeast Texas Flood Control District
061000103	Highland Terrace Drainage	Further study of slope paving a portion of the drainage ditch north of FM 518, with probable wetland mitigation and lowering pavement section of Highland Terrace Drive.	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District, League City

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000094	City of Santa Fe - Storm Water Detention & Widening Drainage System and Culverts Study	N	\$ 300,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000096	City of Friendswood - Devils Dip	N	\$ 410,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000097	League City - Stormwater Drainage Improvement- Interurban & Newport ditch	N	\$ 50,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000098	Study of Texas City Hurricane Flood Protection Project	N	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000101	Fort Bend County - Big Creek Project	N	\$ 200,000.00		1,540.00	1,208.00	5,899.00	11.00	6.00	6.00	17.78	122.13		
061000102	Raise Road Surfaces in City of Plum Grove	N	\$ 35,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000103	Highland Terrace Drainage	N	\$ 190,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000104	Sunmeadow Drainage Improvements Phase 2	Further study of component of 1993 master Drainage Plan Phase 1. Initial phase of project completed in 2005. Upsizing storm sewer system to reduce potential flooding. Include Atlas 14 rainfalls	06000001, 06000015	Liberty	12040103	120401030402	06000070	Project Planning	3.613092	Urban/Local	City of Friendswood	Liberty, Plum Grove, Southeast Texas Flood Control District
061000105	City of Friendswood - Tributary 2 Drainage/Outfall Improvements	Further study of component of 2004 TXDOT study to include Atlas 14 rainfalls	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District
061000107	Storm water detention ponds & Widening of drainage systems feasibility study	Study of area to identify problem areas and recommend flood mitigation alternatives that consider detention ponds & widening drainage systems.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.948319	Urban/Local	Galveston County	Galveston, Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook
061000115	Stormwater Drainage Improvement- Nottingham ditch	Further study of proposed slope paving (concrete lining) improvements. Still in planning, consultant hired. Design complete and pending construction funding.	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District
061000116	Remedy Data Deficiency in City of New Waverly	Conduct a proper risk assessment of the dams residents suspect are causing upstream flooding, and determine all potential inundation areas.	06000001, 06000015	Walker	12040103	120401030101	06000046	Watershed Planning	2.213119	Urban/Local	City of New Waverly	Walker, New Waverly
061000117	City of Bayou Vista - Drainage Improvement Program	Study to develop drainage improvement program to reduce standing water and runoff, and reduce minor flooding for residents located in District No. 12	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.451429	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000104	Sunmeadow Drainage Improvements Phase 2	N	\$ 160,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000105	City of Friendswood Tributary 2 Drainage/Outfall Improvements	N	\$ 170,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000107	Storm water detention ponds & Widening of drainage systems feasibility study	N	\$ 11,000,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000115	Stormwater Drainage Improvement- Nottingham ditch	N	\$ 50,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000116	Remedy Data Deficiency in City of New Waverly	N	\$ 100,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000117	City of Bayou Vista - Drainage Improvement Program	N	\$ 100,000.00		1,123.00	1,095.00	1,508.00	3.00	0.00	0.00	7.46	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000118	Stormwater Drainage Improvement-Bradshaw Rd	Further study of proposed slope paving (concrete lining) improvements. Southwest from SH 3 to the north line of CCISD's Elem. School #25. Pending Funding	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District
061000119	Shellside Drainage Improvements	Further study of proposed drainage improvements to Shellside.	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	52.888211	Urban/Local	City of League City	Galveston, Harris, Harris County Flood Control District
061000120	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	Study to identify flood-prone areas and mitigate the flooding problem by enlarging culverts under roads and bridges.	06000003, 06000004	Grimes	12040101,12040102	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Project Planning	798.873679	Urban/Local	Grimes County	Grimes, Plantersville, Todd Mission
061000121	Widen Drainage Systems and Culverts in City of Kemah	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district	06000001, 06000015	Galveston	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	1.907838	Urban/Local	City of Kemah	Galveston, Chambers, Kemah
061000122	Widen Drainage Systems and Culverts in City of Clear Lake Shores	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district	06000001, 06000015	Grimes	12040101,12040102	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Project Planning	798.873679	Urban/Local	City of Clear Lake Shores	Grimes, Plantersville, Todd Mission
061000123	FM518 Drainage Improvements-Phase 2	Further study of component of 2007 Master Drainage Plan to include Atlas 14 rainfall	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000118	Stormwater Drainage Improvement-Bradshaw Rd	N	\$ 50,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000119	Shellside Drainage Improvements	N	\$ 580,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000120	Evaluation of Culvert Enlargement and Bridge Elevation in Grimes County	N	\$ 750,000.00		145.00	76.00	120.00	0.00	1.00	1.00	10.81	151.27		
061000121	Widen Drainage Systems and Culverts in City of Kemah	N	\$ 100,000.00		562.00	425.00	3,492.00	7.00	0.00	0.00	12.01	0.72		
061000122	Widen Drainage Systems and Culverts in City of Clear Lake Shores	N	\$ 13,200,000.00		145.00	76.00	120.00	0.00	1.00	1.00	10.81	151.27		
061000123	FM518 Drainage Improvements-Phase 2	N	\$ 410,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000124	Replace Existing Culverts in City of Arcola	Evaluation of proposed culvert replacement.	06000003, 06000004, 06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola
061000125	Update Liberty County Floodplain Maps	Study by participating jurisdictions to update floodway maps throughout the county, including Atlas 14 rainfalls.	06000001, 06000010, 06000015	Liberty	12040103,12040203	120401030108, 120401030109, 120401030201, 120401030202, 120401030203, 120401030204, 120401030205, 120401030401, 120401030402, 120402030101, 120402030102, 120402030103, 120402030104	06000053, 06000054, 06000056, 06000057, 06000058, 06000059, 06000060, 06000069, 06000070, 06000099, 06000100, 06000101, 06000102	Watershed Planning	1169.763635	Riverine	Liberty County	Liberty, Dayton
061000129	Waller County Flood Damage Prevention Planning	Establish watershed-based planning and studies to address flood hazards with neighboring and constituent communities.	06000001, 06000015	Waller	12040102,12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Watershed Planning	515.948311	Urban/Local	Waller County	Waller, Katy, City of Waller, Houston, Prairie View
061000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	Further study to elevate and install culverts on Hostetter and Gourd Creek roadways to prevent flooding and/or flood damage on roadway.	06000001, 06000015	Walker	12040101,12040103	120401010202, 120401010204, 120401030101, 120401030301, 120401030302	06000006, 06000008, 06000046, 06000061, 06000062	Project Planning	76.334731	Urban/Local	Walker County	Walker, Willis, New Waverly
061000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	Study of storm sewer system re-engineering and follow-up construction project to mitigate flood related impacts.	06000001, 06000015	Galveston	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	1.907838	Urban/Local	City of Kemah	Galveston, Chambers, Kemah

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000124	Replace Existing Culverts in City of Arcola	N	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000125	Update Liberty County Floodplain Maps	N	\$ 5,120,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000129	Waller County Flood Damage Prevention Planning	N	\$ 1,160,000.00		1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		
061000130	Hostetter and Gourd Creek Bridges Elevation Evaluation	N	\$ 130,000.00		1,169.00	1,023.00	1,900.00	0.00	2.00	2.00	10.22	25.46		
061000131	Implementation Study of Storm Sewer System Re-engineering in City of Kemah	N	\$ 190,000.00		562.00	425.00	3,492.00	7.00	0.00	0.00	12.01	0.72		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable.	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.948319	Urban/Local	Galveston County	Galveston, USACE
061000135	Recanalization Feasibility Study	Dechannelize existing feeder creeks that flow from north to south and improve drainage for storm water runoff.	06000001, 06000015	Liberty	12040103,12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.763635	Riverine, Urban/Local	Liberty County	Liberty, Trinity River Authority of Texas, San Jacinto River Authority, Southeast Texas Flood Control District, Gulf Coast Protection District
061000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable	06000001, 06000015	Galveston	12040103	120401030201, 120401030401	06000056, 06000069	Project Planning	1.908586	Urban/Local	Galveston County	Galveston, Kemah
061000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable	06000001, 06000015	Galveston	12040204	120402040100	06000106	Project Planning	0.710432	Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores
061000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	Review findings of potential breach to dam/levee system and develop/implement mitigation actions as applicable	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque
061000139	City of Arcola Regional Drainage Improvements	Study of repetitive loss and possible drainage improvements.	06000001, 06000003, 06000004, 06000015	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000134	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	N	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000135	Recanalization Feasibility Study	N	\$ 2,000,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000136	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	N	\$ 190,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		
061000137	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	N	\$ 140,000.00		633.00	529.00	3,407.00	4.00	0.00	0.00	8.82	0.00		
061000138	Corp of Engineers study of the Galveston County Water Reservoir Dam and Levee system	N	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000139	City of Arcola Regional Drainage Improvements	N	\$ 520,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000140	Elevate Existing Bridge - East Fork San Jacinto River	Evaluate, Design and construct new bridge over east fork San Jacinto river on low water bridge road to reduce flooding.	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030401	06000056, 06000069	Project Planning	1.908586	Riverine	City of North Cleveland	Liberty, North Cleveland
061000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	Study to develop a community-wide drainage system in Southwood Forest Subdivision and Forgotten Forest Subdivision.	06000001, 06000015	Walker	12040101	120401010202	06000006	Project Planning	0.285872	Urban/Local	Walker County	Walker
061000142	Shadowbend Drainage Improvements Phase 2	Further study of component of 1993 master Drainage Plan Phase 1 to include Atlas 14 rainfall.	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood
061000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	Analysis of potential upgrades to be made to floodplain-area roads and drainage to reduce flood risk.	06000003, 06000004	Grimes	12040102	120401020203, 120401020206	06000035, 06000038	Project Planning	2.004335	Urban/Local	City of Todd Mission	Grimes, Todd Mission
061000145	Jamica Cove Rd. Survey	Engineering assessment needed to determine if elevating the road would reduce future flooding impacts.	06000001, 06000015	Galveston	12040204	120402040300	06000108	Project Planning	0.714848	Urban/Local	City of Jamaica Beach	Galveston, Jamaica Beach
061000146	Annalea/Whitehall Kings Park Drainage Drainage Improvements Phase 2	Further study of proposed drainage improvements to Stafford oaks	06000001, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District
061000147	Implement Drainage Improvements in City of La Marque	Implement drainage projects that support low maintenance and cleaning of drainage ditches.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000140	Elevate Existing Bridge - East Fork San Jacinto River	N	\$ 1,000,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		
061000141	Southwood Forest Subdivision and Forgotten Forest Subdivision Evaluation	N	\$ 110,000.00		13.00	13.00	5.00	0.00	0.00	0.00	0.00	0.00		
061000142	Shadowbend Drainage Improvements Phase 2	N	\$ 420,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000143	City of Todd Mission Reduction of Floodplain Area Roads and Drainage Upgrade	N	\$ 220,000.00		17.00	11.00	19.00	0.00	0.00	0.00	0.00	1.12		
061000145	Jamica Cove Rd. Survey	N	\$ 140,000.00		1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81	2.82		
061000146	Annalea/Whitehall Kings Park Drainage Drainage Improvements Phase 2	N	\$ 50,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000147	Implement Drainage Improvements in City of La Marque	N	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000148	Liberty County Culvert Replacement Project	Increase culvert size in identified flood hazard problem areas within Liberty County.	06000015	Liberty	12040103,12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.763635	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Mont Belvieu
061000149	Evaluation of Increase Height of Existing Levee Wall System in City of La Marque	Increase height of existing Levee wall system to withstand a Category 5 storm surge	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque
061000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	Reinforcement of critical facilities to withstand high winds from severe weather.	06000001, 06000011, 06000012	Fort Bend	12040204	120402040400	06000109	Project Planning	2.598059	Urban/Local	City of Arcola	Fort Bend, Arcola
061000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	Evaluate Mitigation Alternatives of Repetitive Flood Claim Properties in Galveston County	06000001, 06000015	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.948319	Urban/Local	Galveston County	Galveston Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000148	Liberty County Culvert Replacement Project	N	\$ 120,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000149	Evaluation of Increase Height of Existing Levee Wall System in City of La Marque	N	\$ 810,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000150	Evaluation of Reinforcement of Critical Facilities in the City of Arcola	N	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000151	Evaluation of Mitigation Alternatives for Repetitive Flood Claims Properties in Galveston County	N	\$ 11,000,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000152	Cane Island Branch-Alt 1	Further study of 2,800 ac-ft detention upstream of Pitts road	06000001, 06000015	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Project Planning	14.52125	Urban/Local	Waller County	Waller, Harris County Flood Control District, Katy-Brookshire Drainage District, Katy
061000153	Downtown Cleveland Drainage Line Installation	Further study of proposed larger drainage lines in downtown Cleveland to reduce flooding.	06000001, 06000010, 06000015	Liberty, San Jacinto	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of Cleveland	Liberty, Cleveland
061000156	Flood Gates Evaluation at Walker County Annex #2	Evaluation of proposed removable facility flood gates at Walker County Annex #2	06000001, 06000015	Walker	12040101,12040103	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Project Planning	797.836509	Urban/Local	Walker County	Walker, Huntsville, New Waverly
061000158	City of Bayou Vista Canal Dredging Study	Plan for Canal Dredging to reduce sediment deposited during storm events. Study to develop and implement canal dredging program.	06000001, 06000015	Galveston	12040204	120402040200	06000107	Project Planning	0.447376	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000152	Cane Island Branch-Alt 1	N	\$ 360,000.00		546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		
061000153	Downtown Cleveland Drainage Line Installation	N	\$ 50,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000156	Flood Gates Evaluation at Walker County Annex #2	N	\$ 20,000.00		505.00	437.00	657.00	1.00	2.00	2.00	25.43	180.46		
061000158	City of Bayou Vista Canal Dredging Study	N	\$ 130,000.00		1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000160	Liberty County Regional Flood Drainage Plan	Regional drainage study to establish a county wide drainage plan including atlas 14 rainfall.	06000001, 06000015	Liberty	12040103,12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Project Planning	1169.763635	Urban/Local	Liberty County	Liberty, Cleveland, Dayton, North Cleveland, Plum Grove, Mont Belvieu
061000161	City of North Cleveland Engineering Study	Study to identify drainage improvements in the City of North Cleveland.	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of North Cleveland	Liberty, North Cleveland
061000162	Elevation of Bridge Road in City of North Cleveland	Further study to elevate Bridge road	06000001, 06000010, 06000011, 06000012, 06000015	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Urban/Local	City of North Cleveland	Liberty, North Cleveland
061000163	Galveston County Drainage System Improvement Study	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district	06000001	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	664.948319	Urban/Local	Galveston County	Galveston
061000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	Further study to determine detention ponds/basin could be solution for addressing flood impacts	06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe
061000165	Drainage System Analysis for City of Santa Fe	Further study to widen drainage systems and increase culvert size to accommodate increased water flows. Coordinate efforts with water district	06000015	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Project Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000160	Liberty County Regional Flood Drainage Plan	N	\$ 2,000,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000161	City of North Cleveland Engineering Study	N	\$ 400,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000162	Elevation of Bridge Road in City of North Cleveland	N	\$ 120,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000163	Galveston County Drainage System Improvement Study	N	\$ 1,590,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000164	Storm Water Detention Ponds Evaluation in the City of Santa Fe	N	\$ 380,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000165	Drainage System Analysis for City of Santa Fe	N	\$ 300,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000166	City of Stafford Run Creek Detention Pond Construction	Further study of proposed detention ponds immediately downstream of Brand Lane and Independence Park.	06000015	Fort Bend, Harris	12040104,12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Project Planning	7.020157	Riverine, Urban/Local	City of Stafford	Fort Bend, Harris, Harris County Flood Control District, Stafford
061000167	City of Cleveland Drainage Improvements	Further study of proposed city of Cleveland drainage improvements	06000001, 06000015	Liberty, Montgomery, San Jacinto	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Project Planning	18.736551	Riverine	City of Cleveland	Liberty, Cleveland
061000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	planning, H&H studies, design, environmental review, and barrier removal for the 98.6 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-East County project area.	06000001, 06000015	Harris, Liberty, Montgomery, San Jacinto	12040103	120401030402, 120401030401	06000070, 06000069	Watershed Planning	94.888873	Riverine, Urban/Local	Montgomery County	Montgomery, Harris, Liberty County, City of Houston, Harris County Flood Control District
061000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	H&H study, design, tributary barrier removal, and environmental assessments for the 96.2 miles of the San Jacinto Watershed and Tributary Barrier and Flood Mitigation-West County project area.	06000001, 06000015	Harris, Montgomery	12040101	120401010401, 120401010402, 120401010404	06000020, 06000021, 06000023	Watershed Planning	122.123549	Riverine, Urban/Local	Montgomery County	Montgomery, Harris, City of Houston, Harris County Flood Control District
061000170	Spring Gully Watershed Planning Project Near-Term Planning Project: PA03	Planning-level study needed. PA03 warranted a near-term solution. Flooded structures centralized in a short reach along the main stem O200-00-00 which the best strategy for the area was buyouts.	06000001, 06000015	Harris	12040104,12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown
061000171	Spring Gully Watershed Planning Project- Near-term Planning Project: PA04	Planning-level study. Lowering WSEL in O203-00-00 to around 29 feet MSL. Most benefit when O203-00-00 and Thompson Road Storm drain system upsized, but Thompson road storm drain design.	06000001, 06000015	Harris	12040104,12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000166	City of Stafford Run Creek Detention Pond Construction	N	\$ 300,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000167	City of Cleveland Drainage Improvements	N	\$ 410,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000168	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - East County Project	N	\$ 1,160,000.00		3,499.00	2,371.00	4,867.00	3.00	1.00	1.00	101.79	70.63		
061000169	San Jacinto Watershed and Tributary Barrier and Flood Mitigation - West County Project	N	\$ 1,110,000.00		3,634.00	2,863.00	12,814.00	34.00	8.00	8.00	89.21	278.89		
061000170	Spring Gully Watershed Planning Project Near-Term Planning Project: PA03	N	\$ 600,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000171	Spring Gully Watershed Planning Project- Near-term Planning Project: PA04	N	\$ 210,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000172	Spring Gully Watershed Planning Project - Near-term planning project: PA05	Planning-level study needed. A stormwater detention basin near confluence of O207-00-00 nd O207-01-00 required to lower WSEL . Reduced flow rates only after relief channel in Phase III implemented.	06000001, 06000015	Harris	12040104,12040203	120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030106	06000097, 06000098, 06000096, 06000103, 06000102, 06000104	Project Planning	32.661689	Riverine, Urban/local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown
061000173	Update Liberty County FIRMs to Include Bench Marks	Add bench marks to updated Flood Insurance Rate Maps.	06000001, 06000015	Liberty	12040103,12040203	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Watershed Planning	1169.763635	Urban/Local	Liberty County	Liberty, Dayton
061000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	Feasibility study needed to evaluate a designed interconnection to lower Greens Bayou	06000001, 06000015	Harris	12040101,12040104	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	31.025701	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000175	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	Further study of regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	06000001, 06000015	Harris	12040101,12040102,12040103,12040104,12040203,12040204	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	1770.815722	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000172	Spring Gully Watershed Planning Project - Near-term planning project: PA05	N	\$ 170,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000173	Update Liberty County FIRMs to Include Bench Marks	N	\$ 50,000.00		3,618.00	2,271.00	4,854.00	8.00	7.00	7.00	144.17	1,379.48		
061000174	Carpenters Planning Study N110-00-00 Diversion to P103-00/P103-03	N	\$ 1,200,000.00		812.00	489.00	4,689.00	24.00	2.00	2.00	18.83	96.26		
061000175	Regional Implementation of Large Diameter Deep Tunnel Systems for Storm Water Management	N	\$ 20,000,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000176	Lower Greens Feasibility Study	Feasibility study will identify the existing causes of flooding and solutions to reduce the risk of flooding in the lower stretch of Greens Bayou. Potential solutions channel conveyance improvements, detention, or bridge adjustments or replacements.	06000001, 06000010, 06000015	Harris	12040101,12040102,12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040304, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000081, 06000078, 06000088, 06000089, 06000093	Project Planning	210.139531	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble
061000177	Addicks Reservoir Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris, Waller	12040102,12040104	120401020103, 120401040102, 120401040202, 120401040104, 120401040201, 120401040302, 120401040101, 120401040203, 120401040303, 120401040301	06000028, 06000072, 06000076, 06000074, 06000075, 06000079, 06000071, 06000077, 06000080, 06000078	Watershed Planning	137.963104	Riverine	Harris County Flood Control District (HCFCD)	Harris, Waller, Harris County Flood Control District, Katy, Houston
061000178	Barker Reservoir Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris, Waller	12040102,12040104	120401020103, 120401040102, 120401040103, 120401040104, 120401040101, 120401040203, 120401040303, 120401040401	06000028, 06000072, 06000073, 06000074, 06000071, 06000077, 06000080, 06000083	Watershed Planning	128.158381	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000176	Lower Greens Feasibility Study	N	\$ 1,000,000.00		5,930.00	5,094.00	21,011.00	58.00	3.00	3.00	68.03	2.36		
061000177	Addicks Reservoir Watershed Study	Y	\$ 670,000.00		3,746.00	3,076.00	11,473.00	53.00	0.00	0.00	114.09	1,607.18		
061000178	Barker Reservoir Watershed Study	Y	\$ 620,000.00		1,052.00	833.00	4,313.00	11.00	5.00	5.00	34.05	753.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000179	Buffalo Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project.	06000001, 06000010, 06000015	Fort Bend, Harris	12040104	120401040703, 120401040402, 120401040104, 120401040305, 120401040302, 120401040203, 120401040303, 120401040304, 120401040401, 120401040701	06000095, 06000084, 06000074, 06000082, 06000079, 06000077, 06000080, 06000081, 06000083, 06000093	Watershed Planning	101.508348	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, Hedwig Village, Hilshire Village, Hunters Creek Village, Piney Point Village, Houston, Bunker Hill Village, Spring Valley Village
061000180	Brays Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris	12040104	120401040703, 120401040402, 120401040305, 120401040303, 120401040401, 120401040502	06000095, 06000084, 06000082, 06000080, 06000083, 06000086	Watershed Planning	128.206677	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, Houston, Bellaire, Meadows Place, Southside Place, West University Place, Stafford

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000179	Buffalo Bayou Watershed Study	Y	\$ 500,000.00		1,999.00	1,533.00	44,477.00	34.00	0.00	0.00	38.71	17.90		
061000180	Brays Bayou Watershed Study	Y	\$ 620,000.00		40,950.00	37,646.00	361,848.00	594.00	2.00	2.00	537.14	45.19		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000181	Cypress Creek Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris, Waller	12040102,12040104	120401020102, 120401020103, 120401020104, 120401020106, 120401020101, 120401020105, 120401020107, 120401020201, 120401020210, 120401020212, 120401020213, 120401040601, 120401040102, 120401040201, 120401040101, 120401040203, 120401040301, 120401040602, 120401040603	06000027, 06000028, 06000029, 06000031, 06000026, 06000030, 06000032, 06000033, 06000042, 06000044, 06000045, 06000087, 06000072, 06000075, 06000071, 06000077, 06000078, 06000088, 06000089	Watershed Planning	266.212052	Riverine	Harris County Flood Control District (HCFCD)	Harris, Waller, Harris County Flood Control District, Waller, Houston, Tomball, Prairie View
061000182	Hunting Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040104	120401040703, 120401040604, 120401040606, 120401040304, 120401040701	06000095, 06000090, 06000092, 06000081, 06000093	Watershed Planning	30.872289	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Galena Park, Jacinto City, Houston
061000183	Sims Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Fort Bend, Harris	12040104,12040204	120401040703, 120401040402, 120401040502, 120401040501, 120402040400, 120402040100	06000095, 06000084, 06000086, 06000085, 06000109, 06000106	Watershed Planning	93.214971	Riverine	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District, South Houston, Missouri City, Houston, Pasadena, Stafford

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000181	Cypress Creek Watershed Study	Y	\$ 1,230,000.00		4,162.00	3,210.00	22,497.00	89.00	18.00	18.00	109.48	1,659.60		
061000182	Hunting Bayou Watershed Study	Y	\$ 500,000.00		6,244.00	5,220.00	34,523.00	98.00	6.00	6.00	101.51	21.13		
061000183	Sims Bayou Watershed Study	Y	\$ 470,000.00		5,858.00	4,884.00	34,907.00	74.00	10.00	10.00	102.97	50.51		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000184	White Oak Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040102,12040104	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Watershed Planning	110.702275	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Jersey Village, Houston
061000185	Upper Greens Bayou Watershed Study	Watershed wide study using latest data, including MAAPnext models and Atlas 14 rainfall. Study to identify flooding issues within watershed, identify projects to reduce flooding, and provide cost estimates and benefit and cost metrics for each project	06000001, 06000010, 06000015	Harris	12040101,12040102,12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040304, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000081, 06000078, 06000088, 06000089, 06000093	Watershed Planning	210.139531	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble
061000186	Brays Bayou - Poor Farm Ditch	Study to develop a BCR and elevate project to a FMP. Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040402	06000084	Project Planning	3.341123	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Southside Place, West University Place
061000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040401	06000083	Project Planning	6.317276	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Bellaire

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000184	White Oak Bayou Watershed Study	Y	\$ 800,000.00		17,103.00	14,706.00	127,789.00	149.00	4.00	4.00	280.87	28.37		
061000185	Upper Greens Bayou Watershed Study	Y	\$ 980,000.00		24,236.00	18,993.00	155,940.00	418.00	17.00	17.00	320.20	161.00		
061000186	Brays Bayou - Poor Farm Ditch	N	\$ 690,000.00		3,295.00	3,096.00	25,842.00	34.00	0.00	0.00	37.21	0.39		
061000187	Brays Bayou Restore Channel Conveyance Capacity Along D115-00-00	N	\$ 1,020,000.00		5,579.00	5,255.00	34,583.00	75.00	0.00	0.00	59.07	0.97		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Fort Bend, Harris	12040104	120401040103, 120401040104, 120401040303, 120401040401	06000073, 06000074, 06000080, 06000083	Project Planning	34.139023	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000191	Spring Creek - Construction of a Reservoir along Spring Creek	Further study for design and construction of a future flood control dam and reservoir in the Spring Creek watershed	06000001, '06000015	Harris, Waller, Montgomery , Grimes	12040101,12040102,12040104	120401040103, 120401040104, 120401040303, 120401040401	06000073, 06000074, 06000080, 06000083	Project Planning	384.392963	Riverine	Harris County Flood Control District (HCFCD)	Harris, Waller, Montgomery, Grimes, Harris County Flood Control District,
061000192	White Oak Bayou - E127-00-00 Fork	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls.	06000001, '06000015	Harris	12040104	120401040302, 120401040301	06000079, 06000078	Project Planning	2.233715	Riverine	City of Jersey Village	Harris, Harris County Flood Control District
061000194	White Oak Bayou - Turkey Gully E106-00-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000001, '06000015	Harris	12040104	120401040304	06000081	Project Planning	6.78428	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000196	White Oak Bayou - General Drainage Improvements along E105-00-00	Further study of channel improvements from partnership project to restore channel conveyance including Atlas 14 rainfalls	06000015	Harris	12040104	120401040304	06000081	Project Planning	0.916348	Riverine	City of Houston	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000188	Brays Bayou - Partnership Project with Fort Bend County on Right-of-Way Acquisition, Design, and Construction of General Drainage Improvements along Clodine Ditch	N	\$ 1,020,000.00		328.00	254.00	1,703.00	1.00	0.00	0.00	19.76	217.60		
061000191	Spring Creek - Construction of a Reservoir along Spring Creek	N	\$ 870,000.00		4,191.00	3,436.00	23,627.00	44.00	27.00	27.00	106.13	231.65		
061000192	White Oak Bayou - E127-00-00 Fork	N	\$ 150,000.00		395.00	378.00	1,285.00	0.00	0.00	0.00	6.23	0.00		
061000194	White Oak Bayou - Turkey Gully E106-00-00	N	\$ 1,330,000.00		2,540.00	2,287.00	12,780.00	6.00	0.00	0.00	26.56	2.17		
061000196	White Oak Bayou - General Drainage Improvements along E105-00-00	N	\$ 120,000.00		160.00	151.00	431.00	0.00	0.00	0.00	3.44	0.67		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000197	Harris County Wide Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	Further study for design and construction of stormwater detention basins on various City of Houston properties could reduce the risk of flooding in the area	06000010, 06000015	Harris	12040101,12040102,12040103,12040104,12040203,12040204	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Project Planning	1770.815722	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000201	Little Cypress Creek L109-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020105, 120401020210	06000029, 06000030, 06000042	Project Planning	5.57682	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000202	Little Cypress Creek L113-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020105, 120401020205	06000029, 06000030, 06000037	Project Planning	14.956413	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000203	Little Cypress Creek L103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040102	120401020104, 120401020106, 120401020105	06000029, 06000031, 06000030	Project Planning	5.236028	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000204	Greens Bayou - P130-05-02	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040602	06000088	Project Planning	0.13498	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000205	Greens Bayou - P142-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040603	06000089	Project Planning	1.634576	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000197	Harris County Wide Investigation of City of Houston Properties for Conversion to Stormwater Detention Basins	N	\$ 500,000.00		143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000201	Little Cypress Creek - L109-00-00	N	\$ 100,000.00		178.00	104.00	520.00	0.00	0.00	0.00	1.74	12.91		
061000202	Little Cypress Creek - L113-00-00	N	\$ 300,000.00		182.00	162.00	472.00	0.00	3.00	3.00	3.90	7.98		
061000203	Little Cypress Creek - L103-00-00	N	\$ 100,000.00		116.00	92.00	265.00	8.00	0.00	0.00	2.72	4.35		
061000204	Greens Bayou - P130-05-02	N	\$ 100,000.00		94.00	84.00	130.00	0.00	0.00	0.00	1.39	0.00		
061000205	Greens Bayou - P142-00-00	N	\$ 100,000.00		997.00	601.00	5,085.00	7.00	0.00	0.00	23.49	1.49		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000207	San Jacinto River - G103-46-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	58.506496	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble
061000208	San Jacinto River - G103-33-04	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	1.127667	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000209	San Jacinto River - G103-36-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040101	120401010501	06000024	Project Planning	58.506496	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston, Humble
061000213	City of Conroe Riverine Study and Mapping Improvements	Study and new modeling for moderate to low quality areas and revise the flood maps using the results from the updated modeling	06000010	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Watershed Planning	100.072187	Riverine	City of Conroe	Montgomery, Conroe
061000214	April Sound Subdivision Evaluation	Detailed analysis to be completed for the entire development using detailed storm sewer modeling	06000010, 06000015	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Project Planning	100.072187	Urban/Local	City of Conroe	Montgomery, Conroe, San Jacinto River Authority
061000215	City of Conroe Downtown Master Drainage Plan	Full as-built storm sewer inventory survey and a full drainage study recommended.	06000010, 06000015	Montgomery	12040101	120401010207, 120401010401, 120401010402	06000011, 06000020, 06000021	Project Planning	100.072187	Urban/Local	City of Conroe	Montgomery, Conroe
061000216	Greens Bayou - P103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040703, 120401040702, 120401040606	06000095, 06000094, 06000092	Project Planning	5.545373	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000217	Barker - T101-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040102, 120401040104, 120401040203, 120401040303	06000072, 06000074, 06000077, 06000080	Project Planning	17.28323	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Katy, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000207	San Jacinto River - G103-46-00	N	\$ 1,000,000.00		3,840.00	3,193.00	22,355.00	61.00	1.00	1.00	81.05	113.95		
061000208	San Jacinto River - G103-33-04	N	\$ 100,000.00		248.00	221.00	1,580.00	1.00	0.00	0.00	3.74	0.00		
061000209	San Jacinto River - G103-36-00	N	\$ 1,000,000.00		3,840.00	3,193.00	22,355.00	61.00	1.00	1.00	81.05	113.95		
061000213	City of Conroe Riverine Study and Mapping Improvements	N	\$ 500,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		
061000214	April Sound Subdivision Evaluation	N	\$ 1,700,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		
061000215	City of Conroe Downtown Master Drainage Plan	N	\$ 750,000.00		3,465.00	2,633.00	14,964.00	46.00	18.00	18.00	83.78	98.03		
061000216	Greens Bayou - P103-00-00	N	\$ 100,000.00		391.00	197.00	1,750.00	5.00	0.00	0.00	6.69	15.07		
061000217	Barker - T101-00-00	N	\$ 300,000.00		41.00	34.00	521.00	0.00	0.00	0.00	2.58	8.62		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000218	Barker - T103-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040102, 120401040104, 120401040203	06000072, 06000074, 06000077	Project Planning	4.068017	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Katy, Houston
061000219	Buffalo Bayou - W158-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040303	06000080	Project Planning	2.815745	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000220	Buffalo Bayou - W130-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040305, 120401040303	06000082, 06000080	Project Planning	2.790941	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000221	Buffalo Bayou - W163-00-00	Further study of Flood Risk Reduction need identified through the HCFCD 'Watershed Planning Tool' to determine channel modifications needed to restore/improve channel conveyance including Atlas 14 rainfall	06000001, 06000015	Harris	12040104	120401040303	06000080	Project Planning	1.38954	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000222	City of Arcola Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend	12040204	120402040400	06000109	Watershed Planning	2.598058915	Urban/Local	City of Arcola	Fort Bend, City of Arcola
061000223	City of Baytown Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Chambers, Harris	12040104,12040203	120401040705, 120401040706, 120402030105, 120402030106, 120402030200	06000097, 06000098, 06000103, 06000104, 06000105	Watershed Planning	38.049965	Urban/Local	City of Baytown	Chambers, Harris, Harris County Flood Control District, Baytown,
061000224	City of Beach City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Chambers	12040203	120402030200	06000105	Watershed Planning	4.462683	Urban/Local	City of Beach City	Chambers, Beach City
061000225	City of Bellaire Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040402, 120401040401	06000084, 06000083	Watershed Planning	3.584953548	Urban/Local	City of Bellaire	Harris, Harris County Flood Control, Bellaire

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000218	Barker - T103-00-00	N	\$ 100,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.63	1.03		
061000219	Buffalo Bayou - W158-00-00	N	\$ 100,000.00		72.00	63.00	311.00	0.00	0.00	0.00	0.98	0.72		
061000220	Buffalo Bayou - W130-00-00	N	\$ 100,000.00		27.00	15.00	4,290.00	0.00	0.00	0.00	0.67	0.24		
061000221	Buffalo Bayou - W163-00-00	N	\$ 100,000.00		70.00	68.00	226.00	0.00	0.00	0.00	0.86	0.44		
061000222	City of Arcola Master Drainage Plan	N	\$ 200,000.00		41.00	37.00	39.00	0.00	0.00	0.00	0.22	1.23		
061000223	City of Baytown Master Drainage Plan	Y	\$ 520,000.00		1,185.00	975.00	8,063.00	36.00	1.00	1.00	50.19	78.83		
061000224	City of Beach City Master Drainage Plan	Y	\$ 240,000.00		3.00	2.00	6.00	0.00	0.00	0.00	0.19	4.72		
061000225	City of Bellaire Master Drainage Plan	Y	\$ 1,500,000.00		5,879.00	5,539.00	37,604.00	71.00	0.00	0.00	70.91	0.15		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000226	City of Brookside Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Brazoria	12040204	120402040100	06000106	Watershed Planning	2.058597	Urban/Local	City of Brookside Village	Brazoria, West Brazoria County Drainage District, Brookside Village
061000227	City of Bunker Hill Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.436710443	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control, City of Bunker Hill Village
061000228	City of Clear Lake Shores Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston, Harris	12040204	120402040100	06000106	Watershed Planning	0.710432	Urban/Local	City of Clear Lake Shores	Galveston, Harris, Harris County Flood Control District, Clear Lake Shores
061000229	City of Cleveland Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Liberty	12040103	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Watershed Planning	18.73655108	Urban/Local	City of Cleveland	Liberty, City of Cleveland
061000230	City of Coldspring Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	San Jacinto	12040103	120401030307	06000067	Watershed Planning	1.852890366	Urban/Local	City of Coldspring	San Jacinto, City of Coldspring
061000232	City of Cut and Shoot Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101,12040103	120401010403, 120401030102, 120401030104	06000022, 06000047, 06000049	Watershed Planning	2.69970102	Urban/Local	City of Cut and Shoot	Montgomery, City of Cut and Shoot
061000233	City of Dayton Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Liberty	12040203	120402030104, 120402030103, 120402030102, 120402030101	06000102, 06000101, 06000100, 06000099	Watershed Planning	30.58402616	Urban/Local	City of Dayton	Liberty, City of Dayton
061000234	City of Deer Park Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104,12040204	120401040703, 120401040706, 120402040100	06000095, 06000098, 06000106	Watershed Planning	10.529747	Urban/Local	City of Deer Park	Harris, Harris County Flood Control District, Deer Park

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000226	City of Brookside Village Master Drainage Plan	Y	\$ 190,000.00		809.00	743.00	1,607.00	0.00	0.00	0.00	12.39	3.07		
061000227	City of Bunker Hill Village Master Drainage Plan	N	\$ 170,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000228	City of Clear Lake Shores Master Drainage Plan	Y	\$ 140,000.00		633.00	529.00	3,407.00	4.00	0.00	0.00	8.82	0.00		
061000229	City of Cleveland Master Drainage Plan	N	\$ 400,000.00		261.00	133.00	1,267.00	0.00	1.00	1.00	27.33	28.88		
061000230	City of Coldspring Master Drainage Plan	N	\$ 180,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000232	City of Cut and Shoot Master Drainage Plan	N	\$ 210,000.00		90.00	52.00	258.00	0.00	0.00	0.00	1.71	2.87		
061000233	City of Dayton Master Drainage Plan	N	\$ 480,000.00		32.00	26.00	74.00	0.00	0.00	0.00	0.93	65.60		
061000234	City of Deer Park Master Drainage Plan	Y	\$ 320,000.00		469.00	241.00	8,356.00	6.00	1.00	1.00	9.12	4.11		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000235	City of Dickinson Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston	12040204	120402040200	06000107	Watershed Planning	10.295134	Urban/Local	City of Dickinson	Galveston, Dickinson
061000236	City of El Lago Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	0.706258226	Urban/Local	City of El Lago	Harris, City of El Lago
061000237	City of Friendswood Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood
061000238	City of Fulshear Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend	12040104	120401040103	06000073	Watershed Planning	12.05843905	Urban/Local	City of Fulshear	Fort Bend, Fulshear
061000239	City of Galena Park Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040703, 120401040701	06000095, 06000093	Watershed Planning	4.901337	Urban/Local	City of Galena Park	Harris, Harris County Flood Control District, Galena Park
061000241	City of Hedwig Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	0.943083	Urban/Local	City of Hedwig Village	Harris, Harris County Flood Control District, Hedwig Village
061000242	City of Hillcrest Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Brazoria	12040204	120402040400	06000109	Watershed Planning	0.438197	Urban/Local	City of Hillcrest	Brazoria, West Brazoria County Drainage District, Hillcrest
061000243	City of Hilshire Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	0.266485	Urban/Local	City of Hilshire Village	Harris, Harris County Flood Control District, Hilshire Village

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000235	City of Dickinson Master Drainage Plan	Y	\$ 320,000.00		5,624.00	4,851.00	22,231.00	78.00	10.00	10.00	78.89	37.73		
061000236	City of El Lago Master Drainage Plan	N	\$ 140,000.00		743.00	698.00	3,033.00	9.00	0.00	0.00	9.35	0.44		
061000237	City of Friendswood Master Drainage Plan	Y	\$ 410,000.00		1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000238	City of Fulshear Master Drainage Plan	Y	\$ 340,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000239	City of Galena Park Master Drainage Plan	Y	\$ 250,000.00		205.00	156.00	712.00	9.00	0.00	0.00	2.63	3.44		
061000241	City of Hedwig Village Master Drainage Plan	Y	\$ 150,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000242	City of Hillcrest Master Drainage Plan	Y	\$ 130,000.00		128.00	121.00	333.00	1.00	0.00	0.00	2.07	0.13		
061000243	City of Hilshire Village Master Drainage Plan	Y	\$ 110,000.00		1.00	1.00	3.00	0.00	0.00	0.00	0.01	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000244	City of Hitchcock Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Brazoria, Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Watershed Planning	91.212044	Urban/Local	City of Hitchcock	Brazoria, Galveston, West Brazoria County Drainage District, Hitchcock
061000246	City of Humble Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040101,12040102,12040104	120401010501, 120401020213, 120401040602	06000024, 06000045, 06000088	Watershed Planning	9.788425	Urban/Local	City of Humble	Harris, Harris County Flood Control District, Humble
061000247	City of Hunters Creek Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.950556	Urban/Local	City of Hunters Creek Village	Harris, Harris County Flood Control District, Hunters Creek Village
061000248	City of Huntsville Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Walker	12040101,12040103	120401010104, 120401010102, 120401010201, 120401010202, 120401030302	06000004, 06000002, 06000005, 06000006, 06000062	Watershed Planning	43.244799	Urban/Local	City of Huntsville	Walker, Huntsville
061000249	City of Iowa Colony Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Brazoria	12040204	120402040400	06000109	Watershed Planning	9.419504	Urban/Local	City of Iowa Colony	Brazoria, West Brazoria County Drainage District, Iowa Colony
061000250	City of Jacinto City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040701	06000093	Watershed Planning	1.84800288	Urban/Local	City of Jacinto City	Harris, City of Jacinto City
061000251	City of Jamaica Beach Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston	12040204	120402040300	06000108	Watershed Planning	0.714847529	Urban/Local	City of Jamaica Beach	Galveston, City of Jamaica Beach
061000252	City of Jersey Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040302, 120401040301	06000079, 06000078	Watershed Planning	3.416892	Urban/Local	City of Jersey Village	Harris, Harris County Flood Control District, Jersey Village

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000244	City of Hitchcock Master Drainage Plan	Y	\$ 720,000.00		2,655.00	2,270.00	6,415.00	12.00	0.00	0.00	72.51	884.17		
061000246	City of Humble Master Drainage Plan	Y	\$ 320,000.00		652.00	489.00	4,566.00	5.00	1.00	1.00	16.95	25.14		
061000247	City of Hunters Creek Village Master Drainage Plan	Y	\$ 190,000.00		108.00	103.00	369.00	1.00	0.00	0.00	1.16	0.00		
061000248	City of Huntsville Master Drainage Plan	Y	\$ 540,000.00		114.00	96.00	349.00	1.00	1.00	1.00	2.70	9.26		
061000249	City of Iowa Colony Master Drainage Plan	Y	\$ 310,000.00		1,162.00	1,030.00	1,448.00	1.00	0.00	0.00	28.46	338.53		
061000250	City of Jacinto City Master Drainage Plan	N	\$ 180,000.00		10.00	5.00	41.00	0.00	0.00	0.00	0.13	0.00		
061000251	City of Jamaica Beach Master Drainage Plan	N	\$ 140,000.00		1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81	2.82		
061000252	City of Jersey Village Master Drainage Plan	Y	\$ 220,000.00		896.00	864.00	8,252.00	12.00	0.00	0.00	13.99	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000253	City of Katy Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040203	06000072, 06000073, 06000074, 06000071, 06000077	Watershed Planning	14.52125	Urban/Local	City of Katy	Fort Bend, Harris, Waller, Harris County Flood Control District, Katy,
061000254	City of Kemah Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston, Chambers	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	1.907838	Urban/Local	City of Kemah	Galveston, Kemah
061000255	City of La Marque Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000011, 06000012, 06000015	Galveston	12040204	120402040200	06000107	Watershed Planning	14.232827	Urban/Local	City of La Marque	Galveston, La Marque
061000256	City of La Porte Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000011, 06000012, 06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Watershed Planning	19.833013	Urban/Local	City of La Porte	Harris, Harris County Flood Control District, La Porte
061000257	City of League City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000011, 06000012, 06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Watershed Planning	52.888211	Urban/Local	City of League City	Galveston, League City
061000258	City of Liverpool Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000011, 06000012, 06000015	Brazoria	12040204	120402040400	06000109	Watershed Planning	1.090863	Urban/Local	City of Liverpool	Brazoria, Liverpool
061000259	City of Magnolia Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040102	120401020204, 120401020207, 120401020208	06000036, 06000039, 06000040	Watershed Planning	2.87020018	Urban/Local	City of Magnolia	Montgomery, City of Magnolia
061000260	City of Manvel Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000001, 06000011, 06000012, 06000015	Brazoria	12040204	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Watershed Planning	27.409399	Urban/Local	City of Manvel	Brazoria, Manvel
061000261	City of Meadows Place Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend	12040104	120401040401	06000083	Watershed Planning	0.930411	Urban/Local	City of Meadows Place	Fort Bend, Meadows Place
061000262	City of Missouri City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend	12040104,12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Watershed Planning	30.29100129	Urban/Local	City of Missouri City	Fort Bend, City of Missouri City

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000253	City of Katy Master Drainage Plan	Y	\$ 360,000.00		546.00	444.00	2,216.00	8.00	4.00	4.00	10.03	21.65		
061000254	City of Kemah Master Drainage Plan	Y	\$ 190,000.00		562.00	425.00	3,492.00	7.00	0.00	0.00	12.01	0.72		
061000255	City of La Marque Master Drainage Plan	Y	\$ 360,000.00		829.00	767.00	1,612.00	8.00	1.00	1.00	31.11	37.85		
061000256	City of La Porte Master Drainage Plan	Y	\$ 410,000.00		2,533.00	2,250.00	10,336.00	32.00	0.00	0.00	54.14	15.27		
061000257	City of League City Master Drainage Plan	Y	\$ 580,000.00		5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56	1,308.19		
061000258	City of Liverpool Master Drainage Plan	Y	\$ 160,000.00		130.00	110.00	104.00	0.00	0.00	0.00	3.32	5.29		
061000259	City of Magnolia Master Drainage Plan	N	\$ 210,000.00		23.00	19.00	60.00	0.00	0.00	0.00	0.57	0.43		
061000260	City of Manvel Master Drainage Plan	Y	\$ 460,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000261	City of Meadows Place Master Drainage Plan	Y	\$ 150,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000262	City of Missouri City Master Drainage Plan	N	\$ 470,000.00		213.00	162.00	1,060.00	1.00	0.00	0.00	2.62	2.09		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000263	City of Mont Belvieu Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Chambers	12040203	120402030105, 120402030104	06000103, 06000102	Watershed Planning	17.19751991	Urban/Local	City of Mont Belvieu	Chambers, City of Mont Belvieu
061000264	City of Montgomery Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101	120401010307, 120401010206	06000018, 06000010	Watershed Planning	5.097616923	Urban/Local	City of Montgomery	Montgomery, City of Montgomery
061000265	City of Morgan's Point Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Watershed Planning	2.224312	Urban/Local	City of Morgan's Point	Harris, Harris County Flood Control District, Morgan's Point
061000266	City of Nassau Bay Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston, Harris	12040204	120402040100	06000106	Watershed Planning	1.738752	Urban/Local	City of Nassau Bay	Galveston, Harris, Harris County Flood Control District, Nassau Bay
061000267	City of New Waverly Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Walker	12040103	120401030101	06000046	Watershed Planning	2.213119289	Urban/Local	City of New Waverly	Walker, City of New Waverly
061000268	City of North Cleveland Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Liberty	12040103	120401030201, 120401030401	06000056, 06000069	Watershed Planning	1.908585837	Urban/Local	City of North Cleveland	Liberty, City of North Cleveland
061000269	City of Oak Ridge North Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101,12040102	120401010404, 120401020212	06000023, 06000044	Watershed Planning	1.440423	Urban/Local	City of Oak Ridge North	Montgomery, Oak Ridge North
061000270	City of Panorama Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Watershed Planning	1.087952081	Urban/Local	City of Panorama Village	Montgomery, City of Panorama Village
061000271	City of Pasadena Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104,12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Watershed Planning	44.584056	Urban/Local	City of Pasadena	Harris, Harris County Flood Control District, Pasadena

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000263	City of Mont Belvieu Master Drainage Plan	N	\$ 390,000.00		30.00	11.00	30.00	0.00	0.00	0.00	1.54	5.10		
061000264	City of Montgomery Master Drainage Plan	N	\$ 250,000.00		27.00	18.00	11.00	0.00	0.00	0.00	0.86	2.72		
061000265	City of Morgan's Point Master Drainage Plan	Y	\$ 190,000.00		48.00	46.00	330.00	0.00	0.00	0.00	0.07	1.00		
061000266	City of Nassau Bay Master Drainage Plan	Y	\$ 180,000.00		1,022.00	945.00	7,735.00	19.00	0.00	0.00	17.52	0.51		
061000267	City of New Waverly Master Drainage Plan	N	\$ 190,000.00		23.00	18.00	19.00	0.00	0.00	0.00	0.48	0.89		
061000268	City of North Cleveland Master Drainage Plan	N	\$ 190,000.00		52.00	37.00	44.00	0.00	0.00	0.00	3.30	6.17		
061000269	City of Oak Ridge North Master Drainage Plan	Y	\$ 170,000.00		85.00	73.00	578.00	0.00	0.00	0.00	1.04	0.00		
061000270	City of Panorama Village Master Drainage Plan	N	\$ 160,000.00		77.00	65.00	136.00	10.00	0.00	0.00	0.66	0.22		
061000271	City of Pasadena Master Drainage Plan	Y	\$ 550,000.00		3,591.00	2,839.00	26,560.00	58.00	6.00	6.00	73.85	81.95		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000272	City of Patton Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Watershed Planning	2.398274	Urban/Local	City of Patton Village	Montgomery, Patton Village
061000274	City of Piney Point Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	2.125369	Urban/Local	City of Piney Point Village	Harris, Harris County Flood Control District, Piney Point Village
061000275	City of Plantersville Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Grimes	12040101,12040102	120401010305, 120401010306, 120401020206	06000016, 06000017, 06000038	Watershed Planning	1.980055823	Urban/Local	City of Plantersville	Grimes, City of Plantersville
061000276	City of Plum Grove Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Liberty	12040103	120401030402	06000070	Watershed Planning	3.613092449	Urban/Local	City of Plum Grove	Liberty, City of Plum Grove
061000277	City of Prairie View Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Waller	12040102	120401020101	06000026	Watershed Planning	7.320922242	Urban/Local	City of Prairie View	Waller, City of Prairie View
061000278	City of Roman Forest Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Watershed Planning	2.19068	Urban/Local	City of Roman Forest	Montgomery, Roman Forest
061000279	City of Santa Fe Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston	12040204	120402040300, 120402040200	06000108, 06000107	Watershed Planning	17.035296	Urban/Local	City of Santa Fe	Galveston, Santa Fe
061000280	City of Seabrook Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston, Harris, Chambers	12040204	120402040100	06000106	Watershed Planning	21.192059	Urban/Local	City of Seabrook	Galveston, Harris, Harris County Flood Control District, Seabrook
061000281	City of Shenandoah Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101,12040102	120401010402, 120401010404, 120401020211, 120401020212	06000021, 06000023, 06000043, 06000044	Watershed Planning	1.946162	Urban/Local	City of Shenandoah	Montgomery, Shenandoah

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000272	City of Patton Village Master Drainage Plan	Y	\$ 200,000.00		441.00	374.00	537.00	0.00	0.00	0.00	14.43	4.10		
061000274	City of Piney Point Village Master Drainage Plan	Y	\$ 190,000.00		129.00	124.00	989.00	1.00	0.00	0.00	1.27	0.40		
061000275	City of Plantersville Master Drainage Plan	N	\$ 190,000.00		28.00	16.00	34.00	0.00	0.00	0.00	0.60	0.94		
061000276	City of Plum Grove Master Drainage Plan	N	\$ 230,000.00		363.00	267.00	589.00	1.00	0.00	0.00	8.98	9.22		
061000277	City of Prairie View Master Drainage Plan	N	\$ 290,000.00		32.00	25.00	46.00	0.00	0.00	0.00	1.65	15.27		
061000278	City of Roman Forest Master Drainage Plan	Y	\$ 190,000.00		86.00	73.00	270.00	0.00	0.00	0.00	3.18	0.00		
061000279	City of Santa Fe Master Drainage Plan	Y	\$ 380,000.00		400.00	306.00	798.00	1.00	9.00	9.00	4.12	12.12		
061000280	City of Seabrook Master Drainage Plan	Y	\$ 420,000.00		3,570.00	3,177.00	16,087.00	59.00	0.00	0.00	52.06	11.47		
061000281	City of Shenandoah Master Drainage Plan	Y	\$ 190,000.00		10.00	9.00	45.00	0.00	0.00	0.00	0.02	0.26		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000282	City of Shoreacres Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Chambers, Harris	12040204	120402040100	06000106	Watershed Planning	0.958357722	Urban/Local	City of Shoreacres	Harris, Harris County Flood Control, City of Shoreacres
061000283	City of South Houston Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040703, 120401040502	06000095, 06000086	Watershed Planning	3.036131	Urban/Local	City of South Houston	Harris, Harris County Flood Control District, South Houston
061000284	City of Southside Place Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040402	06000084	Watershed Planning	0.248463848	Urban/Local	City of Southside Place	Harris, City of Southside Place
061000285	City of Splendora Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040103	120401030109, 120401030402, 120401030401	06000054, 06000070, 06000069	Watershed Planning	3.056112	Urban/Local	City of Splendora	Montgomery, Splendora
061000286	City of Spring Valley Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040303	06000080	Watershed Planning	1.21107	Urban/Local	City of Spring Valley Village	Harris, Harris County Flood Control District, Spring Valley Village
061000287	City of Stafford Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend, Harris	12040104,12040204	120401040401, 120401040501, 120402040400	06000083, 06000085, 06000109	Watershed Planning	7.020157	Urban/Local	City of Stafford	Fort Bend, Harris, Harris County Flood Control District, Stafford,
061000288	City of Stagecoach Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040102	120401020204, 120401020208	06000036, 06000040	Watershed Planning	1.174928789	Urban/Local	City of Stagecoach	Montgomery, Stagecoach
061000289	City of Sugar Land Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Fort Bend	12040104	120401040401	06000083	Watershed Planning	42.756285	Urban/Local	City of Sugar Land	Fort Bend, Sugar Land
061000290	City of Taylor Lake Village Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	1.30290775	Urban/Local	City of Taylor Lake Village	Harris, Harris County Flood Control, City of Taylor Lake Village

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000282	City of Shoreacres Master Drainage Plan	N	\$ 150,000.00		801.00	787.00	2,456.00	3.00	1.00	1.00	17.16	0.22		
061000283	City of South Houston Master Drainage Plan	Y	\$ 210,000.00		1,422.00	945.00	9,644.00	22.00	0.00	0.00	19.35	0.00		
061000284	City of Southside Place Master Drainage Plan	N	\$ 110,000.00		500.00	476.00	2,317.00	5.00	0.00	0.00	3.84	0.00		
061000285	City of Splendora Master Drainage Plan	Y	\$ 210,000.00		231.00	119.00	522.00	0.00	0.00	0.00	8.37	1.67		
061000286	City of Spring Valley Village Master Drainage Plan	Y	\$ 160,000.00		22.00	22.00	70.00	0.00	0.00	0.00	0.56	0.00		
061000287	City of Stafford Master Drainage Plan	Y	\$ 280,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000288	City of Stagecoach Master Drainage Plan	N	\$ 160,000.00		18.00	16.00	28.00	0.00	0.00	0.00	0.76	0.01		
061000289	City of Sugar Land Master Drainage Plan	Y	\$ 540,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000290	City of Taylor Lake Village Master Drainage Plan	N	\$ 170,000.00		852.00	838.00	2,000.00	0.00	0.00	0.00	13.32	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000291	City of Texas City Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Chambers, Galveston	12040204	120402040200	06000107	Watershed Planning	185.078088	Urban/Local	City of Texas City	Galveston, Texas City
061000292	City of Tiki Island Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Galveston	12040204	120402040200	06000107	Watershed Planning	1.5865	Urban/Local	City of Tiki Island	Galveston, Tiki Island
061000293	City of Todd Mission Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Grimes	12040102	120401020203, 120401020206	06000035, 06000038	Watershed Planning	2.004334603	Urban/Local	City of Todd Mission	Grimes, City of Todd Mission
061000294	City of Tomball Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040102	120401020106, 120401020205, 120401020210, 120401020209	06000031, 06000037, 06000042, 06000041	Watershed Planning	13.04088847	Urban/Local	City of Tomball	Harris, Harris County Flood Control, City of Tomball
061000295	City of Waller Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris, Waller	12040102	120401020101, 120401020105, 120401020201	06000026, 06000030, 06000033	Watershed Planning	3.708536909	Urban/Local	City of Waller	Waller, City of Waller
061000296	City of Webster Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040204	120402040100	06000106	Watershed Planning	6.597666	Urban/Local	City of Webster	Harris, Harris County Flood Control District, Webster
061000297	City of West University Place Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Harris	12040104	120401040402	06000084	Watershed Planning	1.99717916	Urban/Local	City of West University	Harris, Harris County Flood Control, City of West University Place
061000298	City of Willis Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101,12040103	120401010403, 120401010401, 120401010204, 120401010205, 120401030102, 120401030101	06000022, 06000020, 06000008, 06000009, 06000047, 06000046	Watershed Planning	4.715669984	Urban/Local	City of Willis	Montgomery, City of Willis
061000299	City of Woodbranch Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	06000010	Montgomery	12040103	120401030105, 120401030109	06000050, 06000054	Watershed Planning	2.000628	Urban/Local	City of Woodbranch	Montgomery, Woodbranch

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000291	City of Texas City Master Drainage Plan	Y	\$ 950,000.00		1,285.00	701.00	3,595.00	16.00	3.00	3.00	46.22	569.91		
061000292	City of Tiki Island Master Drainage Plan	Y	\$ 180,000.00		1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64	3.91		
061000293	City of Todd Mission Master Drainage Plan	N	\$ 190,000.00		17.00	11.00	19.00	0.00	0.00	0.00	0.00	1.12		
061000294	City of Tomball Master Drainage Plan	N	\$ 350,000.00		47.00	29.00	607.00	0.00	0.00	0.00	3.71	4.60		
061000295	City of Waller Master Drainage Plan	N	\$ 230,000.00		149.00	83.00	666.00	4.00	7.00	7.00	5.33	47.50		
061000296	City of Webster Master Drainage Plan	Y	\$ 280,000.00		209.00	164.00	2,809.00	0.00	1.00	1.00	8.48	18.74		
061000297	City of West University Place Master Drainage Plan	N	\$ 190,000.00		940.00	923.00	4,613.00	6.00	0.00	0.00	11.89	0.00		
061000298	City of Willis Master Drainage Plan	N	\$ 250,000.00		61.00	18.00	372.00	0.00	0.00	0.00	1.66	0.92		
061000299	City of Woodbranch Master Drainage Plan	Y	\$ 190,000.00		197.00	189.00	398.00	0.00	0.00	0.00	3.53	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000300	Town of Woodloch Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall.	06000010	Montgomery	12040101	120401010402	06000021	Watershed Planning	0.084055	Urban/Local	Town of Woodloch	Montgomery, Woodloch
061000301	Brazoria Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	1481.869781	Riverine, Urban/Local	Brazoria County	Brazoria, West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock
061000302	Chambers Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Chambers	12040203	120402030105, 120402030104, 120402030106, 120402030200	06000103, 06000102, 06000104, 06000105	Watershed Planning	865.547793	Riverine, Urban/Local	Chambers County	Chambers, Morgan's Point, Pasadena, Baytown, Beach City, Texas City, Kemah, Seabrook, Shoreacres, Mont Belvieu, Southeast Texas Flood Control District,

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000300	Town of Woodloch Master Drainage Plan	Y	\$ 50,000.00		85.00	80.00	233.00	0.00	0.00	0.00	1.01	0.00		
061000301	Brazoria Flood Mapping Updates	Y	\$ 6,440,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		
061000302	Chambers Flood Mapping Updates	Y	\$ 3,820,000.00		151.00	56.00	797.00	0.00	0.00	0.00	7.30	354.08		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000304	Galveston Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Galveston	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Watershed Planning	664.948319	Riverine, Urban/Local	Galveston County	Galveston, Nassau Bay, Bayou Vista, Clear Lake Shores, Galveston, Jamaica Beach, Friendswood, Hitchcock, La Marque, League City, Santa Fe, Texas City, Kemah, Tiki Island, Dickinson, Seabrook
061000305	Grimes Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Grimes	12040101,12040102	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Watershed Planning	798.873679	Riverine, Urban/Local	Grimes County	Grimes, Plantersville, Todd Mission

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000304	Galveston Flood Mapping Updates	Y	\$ 2,960,000.00		48,570.00	42,185.00	171,395.00	681.00	30.00	30.00	910.35	3,412.02		
061000305	Grimes Flood Mapping Updates	Y	\$ 3,530,000.00		145.00	76.00	120.00	0.00	1.00	1.00	10.81	151.27		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000307	Montgomery Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Montgomery	12040101,12040102,12040103	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Watershed Planning	1072.611036	Riverine, Urban/Local	Montgomery County	Montgomery, Montgomery County Drainage District 9, Patton Village, Roman Forest, Shenandoah, Woodbranch, Cleveland, Magnolia, Oak Ridge North, Panorama Village, Willis, Stagecoach, Houston, Cut and Shoot, Conroe, Splendora, Woodloch, Montgomery, Tomball
061000308	San Jacinto Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	San Jacinto	12040103	120401030201, 120401030108, 120401030106, 120401030107, 120401030303, 120401030305, 120401030202, 120401030301, 120401030302, 120401030304, 120401030306, 120401030401, 120401030307, 120401030308	06000056, 06000053, 06000051, 06000052, 06000063, 06000065, 06000057, 06000061, 06000062, 06000064, 06000066, 06000069, 06000067, 06000068	Watershed Planning	625.685328	Riverine, Urban/Local	San Jacinto County	San Jacinto

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000307	Montgomery Flood Mapping Updates	Y	\$ 4,700,000.00		21,195.00	16,931.00	67,706.00	125.00	72.00	72.00	409.33	852.39		
061000308	San Jacinto Flood Mapping Updates	Y	\$ 2,790,000.00		1,028.00	933.00	1,376.00	0.00	1.00	1.00	47.92	63.12		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000309	Walker Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Walker	12040101,12040103	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Watershed Planning	797.836509	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly
061000310	Waller Flood Mapping Updates	County wide study to produce flood mapping updates including Atlas 14 rainfall.	06000010	Waller	12040102,12040104	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Watershed Planning	515.948311	Riverine, Urban/Local	Waller County	Waller, Katy, Waller, Houston, Prairie View
061000311	37th Street, Galveston, Drainage Project	Further study and FMP development of existing storm sewer system replacement and upgrades using the city's updated drainage criteria that now require a 25-year storm drainage capacity.	06000015	Brazoria, Galveston	12040204	120402040200	06000107	Project Planning	253.170763	Coastal, Urban/Local	City of Galveston	Galveston, City of Galveston
061000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	Develop BCA to become a FMP. This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000309	Walker Flood Mapping Updates	Y	\$ 3,530,000.00		505.00	437.00	657.00	1.00	2.00	2.00	25.43	180.46		
061000310	Waller Flood Mapping Updates	Y	\$ 2,320,000.00		1,067.00	708.00	2,410.00	6.00	19.00	19.00	40.91	1,357.32		
061000311	37th Street, Galveston, Drainage Project	N	\$ 30,000.00	CDBG-MIT	40,153.00	34,123.00	150,807.00	648.00	26.00	26.00	722.77	2,683.21		
061000312	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of a Stormwater Detention Basin on South Mayde Creek	N	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	Develop BCA to become a FMP. Project would provide additional stormwater detention in support of flood damage reduction and could reduce the risk of flooding for approximately 30 multi-family structures in Addicks Reservoir Watershed.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	Study to develop a BCA needed for this project to become a FMP. This project is part of the South Mayde Creek Plan to reduce flood risk 70+ homes & reduce the rainfall event by 340+ acres in pre-Atlas 1% rainfall event.	06000015	Harris	12040104	120401040202, 120401040104, 120401040203, 120401040303	06000076, 06000074, 06000077, 06000080	Project Planning	13.198958	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000317	Arcadian Gardens Subdivision Drainage Improvements	Study to develop a Cost Benefit Analysis and elevate the project to a FMP. To achieve this goal, the key features of improvements are to rehabilitate roadside swales, build new storm sewers and improve the outfall drainage conditions.	06000015	Harris	12040104	120401040704	06000096	Project Planning	0.318941	Urban/Local	Harris County	Harris, Harris County Flood Control District
061000318	Fort Bend County Willow Fork Channel Improvements	Further study and BCA development. Combo of 11 different channel improvements were identified along Willow Fork and its tributaries as part of the Fort Bend County Master Drainage Plan that, when combined, will provide a 100-year level of service.	06000015	Fort Bend, Harris, Waller	12040104	120401040102, 120401040103, 120401040104, 120401040101, 120401040401	06000072, 06000073, 06000074, 06000071, 06000083	Project Planning	46.099246	Riverine	Fort Bend County Drainage District	Fort Bend, Harris, Waller, Harris County Flood Control District
061000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Design and Construction of this stormwater detention basin could reduce the risk of flooding for over 400 structures in an Atlas 14 1% rainfall event.	06000015	Harris	12040204	120402040100	06000106	Project Planning	4.791723	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte, Pasadena

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000313	Addicks Reservoir - Design and Construction of Dinner Creek Stormwater Detention Basin	N	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		
061000315	Addicks Reservoir - Right-Of-Way Acquisition, Design and Construction of Channel Conveyance Improvements, Bypass Channel, and Detention for South Mayde Creek	N	\$ 30,000.00		944.00	854.00	5,217.00	21.00	0.00	0.00	15.66	19.43		
061000317	Arcadian Gardens Subdivision Drainage Improvements	N	\$ 30,000.00		5.00	4.00	5.00	0.00	0.00	0.00	0.01	0.00		
061000318	Fort Bend County Willow Fork Channel Improvements	N	\$ 30,000.00	Unknown	404.00	288.00	1,450.00	10.00	2.00	2.00	8.47	80.03		
061000319	Armand Bayou - Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	N	\$ 30,000.00		63.00	16.00	468.00	0.00	0.00	0.00	2.80	6.16		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000320	Warren Lake and Dam Retrofit	Further study of Retrofit dam to improve detention of flood & storm water runoff, new 137.3 ac wetlands complex added of storage capacity & conversion of fields to tallgrass prairies to add approximately 856 ac-ft of total storage during rainfall events.	06000013, 060000140600015	Harris	12040102	120401020103	06000028	Project Planning	2.111615	Riverine, Urban/Local	Coastal Prairie Conservancy	Harris, Harris County Flood Control District
061000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Channel modifications along B115-00-00 requires expansion of B500-04-00 and new detention property,	06000015	Harris	12040204	120402040100	06000106	Project Planning	1.092433	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena
061000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	Develop BCA to become a FMP. Priority ranking #1, 0.5 mile upstream along Jackson Bayou identified to fulfill mitigation efforts. Culvert upsizing recommended at First Street. Improvements produced need or 32.4 acre-feet of detention.	06000015	Harris	12040104	120401040704	06000096	Project Planning	0.514018	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000323	B106-WP01 & WP02 for Armand Bayou Watershed	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Conveyance improvements for B106-00-00 channel, including detention/mitigation storage	06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	9.773826	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, La Porte, Pasadena
061000324	Barker Reservoir Flood Risk Reduction and Park Project	Study to further the proposed project. FIF application information unavailable.	06000015	Fort Bend, Harris	12040104	120401040103	06000073	Project Planning	27.075978	Riverine, Urban/Local	Willow Fork Drainage District	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000320	Warren Lake and Dam Retrofit	N	\$ 30,000.00	Unknown	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.19		
061000321	Armand Bayou Watershed- Basin Expansion and Extension and H&H Study (Phases 1 + 2)	N	\$ 30,000.00	HCFC	371.00	291.00	2,154.00	0.00	0.00	0.00	3.84	0.00		
061000322	Jackson Bayou Watershed Planning Project- Immediate: First Street Crossing Mitigation	N	\$ 30,000.00	Harris County Precinct 2, Harris County Engineering Department-Recovery and Resiliency Division, and Newport Municipal Utility District (Newport MUD)	111.00	83.00	598.00	8.00	0.00	0.00	1.40	1.74		
061000323	B106-WP01 & WP02 for Armand Bayou Watershed	N	\$ 30,000.00		473.00	344.00	2,199.00	0.00	0.00	0.00	7.05	20.93		
061000324	Barker Reservoir Flood Risk Reduction and Park Project	N	\$ 30,000.00	Unknown	115.00	105.00	306.00	2.00	0.00	0.00	1.41	20.45		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000325	Beaumont Place Subdivision Drainage Improvement Phase 2	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040606	06000092	Project Planning	1.413715	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	Study to develop a BCR required for this project to become a FMP. Alt-6 Detention basin and channel widening near Strawberry road on left bank of Vince Bayou.	06000015	Harris	12040104,12040204	120401040703, 120402040100	06000095, 06000106	Project Planning	2.070646	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena
061000327	Blalock Road Drainage Improvement Project	Study to further the proposed project that includes increasing the capacity of the drainage system with a 9’x9’ RCB to replace dual 36-inch RCP along the east side of the road and an open ditch with driveway culverts on the west side of the road.	06000015	Harris	12040104	120401040302, 120401040303	06000079, 06000080	Project Planning	6.697842	Urban/Local	City of Piney Point Village	Harris, Harris County Flood Control District, Houston
061000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	Study to develop a BCR required for this project to become a FMP. A project could reduce the risk flooding for over 2,500 structures and could reduce the frequency and duration of flooding along about 100 miles of roadway.	06000003, 06000004, 06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	22.877639	Urban/Local	Harris County Flood Control District (HCFCD)	Fort Bend, Harris, Harris County Flood Control District
061000329	I100-WP06 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, design, and construction of a stormwater detention basin and channel widening near Strawberry Road and Young Street	06000015	Harris	12040104,12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena
061000330	I100-WP10 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, Design, and Construction of Two Stormwater Detention Basins near Westside Dr. and Westside. Ct.	06000015	Harris	12040104,12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000325	Beaumont Place Subdivision Drainage Improvement Phase 2	N	\$ 30,000.00	Unknown	103.00	94.00	868.00	3.00	0.00	0.00	1.58	4.21		
061000326	I100-WP01 Vince Bayou Watershed Planning Project Recommendation	N	\$ 30,000.00	Harris County, Harris County Flood Control District, City of Pasadena CIP	766.00	571.00	3,202.00	5.00	0.00	0.00	7.61	0.22		
061000327	Blalock Road Drainage Improvement Project	N	\$ 30,000.00	CDBG-MIT	35.00	25.00	365.00	1.00	0.00	0.00	0.29	0.00		
061000328	Brays Bayou - Keegans Bayou (D118-00-00) Flood Risk Reduction	N	\$ 30,000.00		2,549.00	2,257.00	30,383.00	27.00	0.00	0.00	39.29	3.39		
061000329	I100-WP06 for Vince Bayou Watershed Planning Project	N	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000330	I100-WP10 for Vince Bayou Watershed Planning Project	N	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000331	I100-WP07 for Vince Bayou Watershed Planning Project	Study to develop a BCR needed for this project to become a FMP. Pasadena (CIP) Street Lowering (Various). Right-of-way acquisition, Design, and Construction of Stormwaters Detention Basin and construction of Culverts near Pasadena Blvd.	06000015	Harris	12040104,12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena
061000332	I100-WP11 for Vince Bayou Watershed Planning Project	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Right-of-way acquisition, Design, and Construction of Stormwater Detention Basins near Spencer Hwy. and Tulip Street	06000015	Harris	12040104,12040204	120401040703, 120401040502, 120402040100	06000095, 06000086, 06000106	Project Planning	4.42385	Urban/Local	Harris County	Harris, Harris County Flood Control District, Pasadena
061000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	Study to develop a BCR required for this project to become a FMP. Drainage system upgrade using combination of 9'x7' RCB spanning 3,000' and a 109 acre-feet detention facility providing drainage relief for this portion of the Cloverleaf Community.	06000015	Harris	12040104	120401040702, 120401040606	06000094, 06000092	Project Planning	0.7363	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000334	Goose Creek Flood Risk Reduction Phase 1	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. 1.65 Miles of Goose Creek channel modifications (Downstream of IH 10) with proposed detention basin "J"	06000015	Harris	12040104	120401040705, 120401040706	06000097, 06000098	Project Planning	6.220677	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown
061000335	Goose Creek Flood Risk Reduction Phase 2	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. 1.00 Mile of Goose Creek channel modifications (Upstream of IH 10) with proposed detention basin "I"	06000015	Harris	12040104	120401040705, 120401040706	06000097, 06000098	Project Planning	7.320117	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown
061000336	Goose Creek Flood Risk Reduction Phase 3	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Local channel modifications and crossing structure improvements along O117 and O126	06000015	Harris	12040104	120401040705	06000097	Project Planning	1.389927	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Baytown

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000331	I100-WP07 for Vince Bayou Watershed Planning Project	N	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000332	I100-WP11 for Vince Bayou Watershed Planning Project	N	\$ 30,000.00		948.00	709.00	4,153.00	8.00	1.00	1.00	14.08	1.55		
061000333	Carpenters Planning Study Cloverleaf Community Flood Risk Reduction Project (Phase 1 and 2)	N	\$ 30,000.00	HCFC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000334	Goose Creek Flood Risk Reduction Phase 1	N	\$ 30,000.00	HCFC	1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000335	Goose Creek Flood Risk Reduction Phase 2	N	\$ 30,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		
061000336	Goose Creek Flood Risk Reduction Phase 3	N	\$ 30,000.00		1,883.00	1,509.00	9,371.00	64.00	1.00	1.00	32.82	73.13		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	Study to develop a BCR required for this project to become a FMP. Channel modifications along J131-01 & storm sewer improvements under Zion Road, reduces sheet flow by providing positive drainage outfall for ~200 ac of land.	06000015	Harris	12040102	120401020209	06000041	Project Planning	0.301652	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Tomball
061000338	Willow Creek Watershed Plan-Immediate: Selective Clearing BNRR to Mouth	Study to develop a BCR required for this project to become a FMP. Selective clearing from BNRR to mouth to increase riverine storm water conveyance, maintain tree canopy & veg. diversity, minimize impact on riparian & uplands habitats.	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	Study to develop BCA to become a FMP. Pursue purchase of property for regional detention, floodplain preservation, & habitat preservation.	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000340	Willow Creek Watershed Plan-FM2920 Stormwater Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 826 acre-feet detention basin located near FM 2920 crossing of Willow Creek	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000341	Willow Creek Watershed Plan-Kuykendahl Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 727 acre-feet detention basin located near Kuykendahl Road crossing of Willow Creek	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000342	Willow Creek Watershed Plan-M121 Basin Stormwater Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Proposed 1010 acre-feet detention basin located near M121 tributary	06000015	Harris	12040102	120401020106, 120401020105, 120401020210	06000031, 06000030, 06000042	Project Planning	55.366101	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000337	Spring Creek Watershed Plan-Recommended Alternative for PA-02: J131-01-00 Storm Sewer improvements & channel modification	N	\$ 30,000.00	Harris County, City of Tomball, Flood Control District and Precinct 4	6.00	6.00	7.00	0.00	1.00	1.00	0.34	0.00		
061000338	Willow Creek Watershed Plan-Immediate: Selective Clearing BNRR to Mouth	N	\$ 30,000.00	2018 Bond Fund	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000339	Willow Creek Watershed Plan - M120 Detention/Preservation Site	N	\$ 30,000.00	2018 Bond Fund	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000340	Willow Creek Watershed Plan-FM2920 Stormwater Detention Basin	N	\$ 30,000.00	Harris County	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000341	Willow Creek Watershed Plan-Kuykendahl Basin	N	\$ 30,000.00	Harris County	828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		
061000342	Willow Creek Watershed Plan-M121 Basin Stormwater Detention Basin	N	\$ 30,000.00		828.00	581.00	2,443.00	6.00	5.00	5.00	24.85	55.81		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000343	Galveston Bay Watershed Plan-PA01 (N+6) Channel & Crossing Improvements	Develop BCA to become FMP. Channel deepening from N Broadway St to N Utah St, convert open channel segment to closed conduit w/ 8'x5' concrete boxes b/w N Utah St & Main St, replace concrete pipe w/ dual 8'x5' concrete box culvert outfall to F212.	06000015	Harris	12040204	120402040100	06000106	Project Planning	1.133011	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Morgan's Point, La Porte
061000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	Study to develop a BCA to become FMP. This stormwater detention basin compliments the federal project on White Oak Bayou which will reduce the risk of flooding for 1,800 structures in an Atlas 14 1% rainfall event.	06000015	Harris	12040102,12040104	120401020104, 120401020106, 120401040601, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301	06000029, 06000031, 06000087, 06000079, 06000090, 06000080, 06000081, 06000078	Project Planning	79.44794	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000345	Spring Gully Watershed Planning Project- Project Phase I	Develop BCA to become FMP. 108 ac-ft of detention storage. Basin A w/ 95 ac-ft of storage, 10 ft depth, inlet & outlet structures consist of 2 culverts & weir. Basin B w/ 13 ac-ft of storage, 10.5 ft depth, inlet & outlet structures of culvert & weir.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000346	Spring Gully Watershed Planning Project- Project Phase II	Develop BCA to become a FMP. Independent of Phase I. Phase II includes addition of Stormwater Detention Basin C, with 80 acre-feet of detention storage w/ 9.5 ft depth & an inlet and outlet structure consisting of a culvert & a weir.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000347	Spring Gully Watershed Planning Project- Project Phase III	Complete after phase 2. Relief channel intended to outfall into Stormwater Detention Basin C from Phase 2. Consists of trapezoidal 850-foot channel with cross culvert sized at Prairie Street. Upstream of the culvert crossing, the bottom width is 8 ft.	06000015	Harris	12040104	120401040705	06000097	Project Planning	0.488588	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000343	Galveston Bay Watershed Plan- PA01 (N+6) Channel & Crossing Improvements	N	\$ 30,000.00	Harris County, City of La Porte	259.00	234.00	648.00	7.00	0.00	0.00	5.10	0.14		
061000344	White Oak Bayou - Design and Construction of Woodland Trails Stormwater Detention Basin	N	\$ 30,000.00		11,098.00	9,581.00	90,865.00	90.00	0.00	0.00	163.80	24.31		
061000345	Spring Gully Watershed Planning Project- Project Phase I	N	\$ 30,000.00	HCFC D	346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		
061000346	Spring Gully Watershed Planning Project- Project Phase II	N	\$ 30,000.00	Harris County	346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		
061000347	Spring Gully Watershed Planning Project- Project Phase III	N	\$ 30,000.00	Harris County	346.00	266.00	917.00	0.00	0.00	0.00	2.41	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The project could reduce the risk of flooding for more than 450 structures in an Atlas 14 1% rainfall event.	06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	0.751132	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte
061000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The project could reduce the risk of flooding for over 40 structures in an Atlas 14 1% rainfall event.	06000015	Harris	12040104,12040204	120401040706, 120402040100	06000098, 06000106	Project Planning	2.014503	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, La Porte
061000350	Galveston Bay Watershed Plan-PA04 (S+4) Crossing Improvements	Recommended alternative directly addresses need for improved channel conveyance by increasing the size of the crossings at El Jardin Dr and Youpon Dr. to 8'x5' box culverts.	06000015	Chambers, Harris	12040204	120402040100	06000106	Project Planning	0.499986	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Pasadena, Seabrook
061000353	TC Jester Detention Basin	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of a 25 acre stormwater detention basin. Estimated construction cost is \$10,047,910. this application is requesting \$10,000,000.00 of these funds.	06000015	Harris	12040102,12040104	120401020106, 120401020107, 120401020210, 120401020212, 120401020213, 120401040601, 120401040602, 120401040603	06000031, 06000032, 06000042, 06000044, 06000045, 06000087, 06000088, 06000089	Project Planning	92.806157	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000354	Halls Bayou Drainage Project Bond C-26 & C-27	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.447506	Other	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000348	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	N	\$ 30,000.00		215.00	124.00	604.00	0.00	0.00	0.00	4.09	0.22		
061000349	Galveston Bay - Right-of-Way Acquisition, Design and Construction of General Drainage Improvements Along F101-06-00	N	\$ 30,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
061000350	Galveston Bay Watershed Plan-PA04 (S+4) Crossing Improvements	N	\$ 30,000.00	Harris County, City of Pasadena and City of Seabrook	190.00	185.00	391.00	0.00	0.00	0.00	2.76	0.41		
061000353	TC Jester Detention Basin	N	\$ 30,000.00	CDBG-MIT	2,995.00	2,413.00	18,540.00	53.00	4.00	4.00	59.86	44.07		
061000354	Halls Bayou Drainage Project Bond C-26 & C-27	N	\$ 30,000.00	Unknown	1,432.00	1,009.00	5,511.00	8.00	1.00	1.00	9.65	0.00		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000355	Halls Bayou Drainage Project Bond C-01	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.447506	Other	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000356	Westador Stormwater Detention Basin	Study to develop a BCR required for this project to become a FMP. The Westador Detention Basin is a proposed detention mitigation project within the Cypress Creek Watershed and located south of Cypress Creek and east and west of K141-00-00.	06000015	Harris	12040102,12040104	120401020106, 120401020107, 120401020210, 120401020212, 120401020213, 120401040601, 120401040602, 120401040603	06000031, 06000032, 06000042, 06000044, 06000045, 06000087, 06000088, 06000089	Project Planning	92.806157	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000357	Cypress Creek Implementation Plan - Various Detention Sites	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. The Implementation Plan identifies that approximately 14,000 acre-feet of stormwater detention volume across 23 different sites reducing flooding risk.	06000015	Harris	12040102,12040104	120401020104, 120401020106, 120401020105, 120401020107, 120401020210, 120401020213, 120401040601, 120401040201, 120401040301, 120401040602	06000029, 06000031, 06000030, 06000032, 06000042, 06000045, 06000087, 06000075, 06000078, 06000088	Project Planning	118.362463	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000358	Little Cypress Creek Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	Study to develop a BCR required for this to become a FMP. The Little Cypress Creek Frontier program will reduce the risk of flooding and include detention, sediment control, vegetation management and other flood risk management projects.	06000015	Harris	12040102	120401020103, 120401020104, 120401020106, 120401020101, 120401020105, 120401020205, 120401020210	06000028, 06000029, 06000031, 06000026, 06000030, 06000037, 06000042	Project Planning	52.098532	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000355	Halls Bayou Drainage Project Bond C-01	N	\$ 30,000.00	Unknown	3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000356	Westador Stormwater Detention Basin	N	\$ 30,000.00	CDBG-MIT	2,995.00	2,413.00	18,540.00	53.00	4.00	4.00	59.86	44.07		
061000357	Cypress Creek Implementation Plan - Various Detention Sites	N	\$ 30,000.00		4,100.00	3,398.00	21,959.00	73.00	3.00	3.00	80.20	75.16		
061000358	Little Cypress Creek - Management, Right-of-Way Acquisition, Design and Construction of the Little Cypress Creek Frontier Program	N	\$ 30,000.00		1,213.00	1,029.00	2,896.00	15.00	4.00	4.00	18.59	192.02		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000360	G103-38-00 (Kingwood Diversion Ditch)	Study to develop a BCR required for this to become a FMP. Improvements to the Kingwood Diversion Ditch include channel modifications, flow diversion from Bens Branch, bridge replacements, as well as a new outfall to the West Fork San Jacinto River.	06000015	Harris, Montgomery	12040101,12040103	120401010501, 120401010404, 120401030110, 120401030402	06000024, 06000023, 06000055, 06000070	Project Planning	21.653692	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000361	G103-80-03.1B (Taylor Gully)	Study to develop a BCR required for this project to become a FMP. Improvements to Taylor Gully include two miles of channel conveyance improvements to the upper limits of Taylor Gully and a concrete low flow structure.	06000015	Harris	12040101,12040103	120401010501, 120401010404, 120401030110, 120401030402	06000024, 06000023, 06000055, 06000070	Project Planning	21.653692	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000362	Goose Creek O119-00-00-P001 (Alt 2A1)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel modifications and in-line stormwater detention along O119 to facilitate Harris County drainage improvements in Highland Mobile Estates	06000015	Harris	12040104,12040203	120401040705, 120402030104	06000097, 06000102	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000363	Goose Creek O119-00-00-P001 (Alt 2A3)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Secondary option for the recommended alternative with less benefits and project cost	06000015	Harris	12040104,12040203	120401040705, 120402030104	06000097, 06000102	Project Planning	0.2278	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000364	Sims Bayou C116 Storm Sewer Improvement (C116-00-00-P001) From Mykawa Road to Telephone Road	Study to develop a BCR required for this project to become a FMP. To increase the system C116 capacity, Alternative 1 adds capacity to the C116 system trunkline through an additional parallel trunkline, from Dixie Drive to Sims Bayou.	06000015	Harris	12040104	120401040502	06000086	Project Planning	1.392267	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

[illegible]

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3))	Study to develop a BCR required for this project to become a FMP. 2,000 ac-ft proposed Hardy stormwater detention basin and channel conveyance improvements throughout the Green's Bayou Mid-Reach (From John F. Kennedy Blvd to Veterans Memorial Drive)	06000015	Harris	12040101,12040102,12040104	120401010502, 120401010501, 120401020106, 120401020107, 120401040605, 120401040703, 120401040601, 120401040702, 120401040302, 120401040604, 120401040606, 120401040301, 120401040602, 120401040603, 120401040701	06000025, 06000024, 06000031, 06000032, 06000091, 06000095, 06000087, 06000094, 06000079, 06000090, 06000092, 06000078, 06000088, 06000089, 06000093	Project Planning	165.692023	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Potential federal funded project, the risk of flooding could be reduced for approximately 100 structures in a pre-Atlas 1% rainfall event.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	1.019924	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou	06000015	Chambers, Harris	12040104,12040203	120401040706, 120402030106, 120402030200	06000098, 06000104, 06000105	Project Planning	28.41582	Urban/Local	Harris County Flood Control District (HCFCD)	Chambers, Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000365	Greens Bayou (P100-00-00) Mid-Reach Channel Conveyance Improvements From John F. Kennedy Blvd to Veterans Memorial Drive (Ultimate Project (Alternative 3))	N	\$ 30,000.00		3,247.00	2,193.00	58,451.00	72.00	0.00	0.00	70.92	14.15		
061000366	Greens Bayou - Planning, Right-of-Way Acquisition, Design and Construction of Channel Conveyance Improvements along P138-01-01	N	\$ 30,000.00		7.00	5.00	74.00	0.00	0.00	0.00	0.02	0.00		
061000367	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from SH 146 to Galveston Bay along Cedar Bayou (Q100-00-00)	N	\$ 30,000.00		230.00	174.00	1,046.00	7.00	0.00	0.00	7.62	47.40		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	06000015	Harris, Liberty	12040103,12040104,12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine	Harris County Flood Control District (HCFCF)	Chambers, Harris, Liberty, Harris County Flood Control District
061000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou	06000015	Chambers, Harris	12040104,12040203	120401040706, 120402030105, 120402030106	06000098, 06000103, 06000104	Project Planning	18.714066	Riverine, Urban/Local	Harris County Flood Control District (HCFCF)	Chambers, Harris, Harris County Flood Control District, Baytown
061000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101,12040102,12040103,12040104,12040203,12040204	120401040706, 120402030105, 120402030106	06000098, 06000103, 06000104	Project Planning	1770.815722	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena
061000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101,12040102,12040103,12040104,12040203,12040204	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	1770.815722	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena
061000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040101,12040102,12040103,12040104,12040203,12040204	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	1770.815722	Other	City of Pasadena	Harris, Harris County Flood Control District, Pasadena
061000373	City of Tomball Drainage Improvements	Study to the drainage project for the City of Tomball is comprised of building storm sewer systems and channel conveyance to enable flood waters to be removed from portions of the city bounded by Holderrieth Road, SH 249, UPRR, and FM 2920.	06000015	Harris, Montgomery	12040102	120401020106, 120401020205, 120401020210, 120401020209	06000031, 06000037, 06000042, 06000041	Project Planning	13.040888	Urban/Local	City of Tomball	Harris, Harris County Flood Control District, Tomball

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000368	Cedar Bayou Flood Risk Reduction Study - Q130 Channel improvements from Crosby Eastgate Rd. to Q100 Confluence	N	\$ 30,000.00		174.00	138.00	241.00	0.00	0.00	0.00	3.13	141.08		
061000369	Cedar Bayou Flood Risk Reduction Study - Property Acquisition in segment from IH-10 to SH 146 along Cedar Bayou (Q100-00-00)	N	\$ 30,000.00		319.00	260.00	1,274.00	0.00	0.00	0.00	5.25	25.33		
061000370	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 1	N	\$ 30,000.00	Unknown	143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000371	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 2	N	\$ 30,000.00	Unknown	143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000372	City of Pasadena - Hurricane Harvey Drainage Mitigation Project 3	N	\$ 30,000.00	Unknown	143,642.00	120,807.00	976,798.00	2,332.00	89.00	89.00	2,407.73	5,993.47		
061000373	City of Tomball Drainage Improvements	N	\$ 30,000.00	CDBG-MIT	47.00	29.00	607.00	0.00	0.00	0.00	3.71	4.60		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements from US 90 to Confluence with Q100	06000015	Harris	12040103,12040104,12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Liberty, Harris County Flood Control District
061000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements from US 90 to FM 1942	06000015	Chambers, Harris, Liberty	12040103,12040104,12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Liberty, Harris County Flood Control District
061000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Cedar Bayou channel improvements upstream of FM 1960	06000015	Harris, Liberty	12040103,12040104,12040203	120401030205, 120401040705, 120401040706, 120401040704, 120402030105, 120402030104, 120402030103, 120402030106, 120402030102, 120402030200, 120402030101	06000060, 06000097, 06000098, 06000096, 06000103, 06000102, 06000101, 06000104, 06000100, 06000105, 06000099	Project Planning	198.30912	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Liberty, Harris County Flood Control District
061000384	Houston Braeburn Glen Area Flood Mitigation	Further study of a proposed project that includes upsizing of the existing stormwater system with new pipes, inlets, and manholes. Lateral improvement will be completed on Mahoning Drive and Valley View Lane.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	95.570721	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000374	Cedar Bayou Flood Risk Reduction Study - Q128 Channel Improvements from US 90 to Q100 Confluence	N	\$ 30,000.00		142.00	81.00	199.00	0.00	0.00	0.00	6.25	160.96		
061000376	Cedar Bayou Flood Risk Reduction Study - Channel improvements from US 90 to FM 1942	N	\$ 30,000.00		228.00	119.00	345.00	0.00	0.00	0.00	11.84	891.78		
061000379	Cedar Bayou Flood Risk Reduction Study - Channel improvements upstream of FM 1960	N	\$ 30,000.00		75.00	51.00	147.00	0.00	0.00	0.00	4.92	463.48		
061000384	Houston Braeburn Glen Area Flood Mitigation	N	\$ 30,000.00	CDBG-MIT	32,129.00	29,534.00	267,993.00	448.00	1.00	1.00	412.20	41.83		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000388	Roman Forest Boulevard Bridge Elevation Project	Further study of this project involves the study, design, elevation, and replacement of the Roman Forest Boulevard Bridge to mitigate the risks associated with storms and riverine flooding for the approximate 15,000 citizens.	06000015	Montgomery	12040103	120401030109, 120401030402	06000054, 06000070	Project Planning	2.19068	Riverine	Montgomery County	Montgomery, Roman Forest
061000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	Study to develop a Benefit Cost Analysis needed for these projects to become a FMP. The "E116-00-00 Flood Reduction Feasibility Study" was completed in March 2022 and provides a decrease riverine and urban flood risk in the area.	06000015	Harris	12040104	120401040302, 120401040304	06000079, 06000081	Project Planning	6.897598	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	Develop BCA to become a FMP. This project could reduce the risk of flooding for over 210 structures and could reduce the 1% rainfall event for over 170 acres as part of the Halls Ahead Bond Implementation Program.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 80+ structures, size of the floodplain by 30+ acres & frequency & duration of flooding of up to half a mile of roadway in an Atlas 14 1% event.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 60+ structures & floodplain by 40+ acres.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000388	Roman Forest Boulevard Bridge Elevation Project	N	\$ 30,000.00	CDBG-MIT	86.00	73.00	270.00	0.00	0.00	0.00	3.18	0.00		
061000389	White Oak - SPT and E116 (E116-00-00) Improvements : PA01 thru PA-05	N	\$ 30,000.00		1,174.00	1,074.00	4,852.00	7.00	0.00	0.00	14.80	4.95		
061000394	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-08-00	N	\$ 30,000.00		39.00	36.00	64.00	2.00	0.00	0.00	0.67	0.05		
061000395	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-09-00	N	\$ 30,000.00		260.00	211.00	446.00	3.00	0.00	0.00	4.39	0.19		
061000396	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-21-00	N	\$ 30,000.00		3,555.00	3,132.00	12,360.00	35.00	1.00	1.00	29.31	1.67		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	Study to develop a BCR required for this project to become a FMP. Would reduce flood risk for 300+ structures, size of floodplain by 200+ acres. Facilitates future drainage projects by more outfall depth.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	Study to develop a BCR required for this project to become a FMP. Would reduce flood risk for 600+ structures. Facilitates future drainage projects by more outfall depth.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	Develop BCA to become a FMP. Part of Halls Ahead Bond Implementation Program, could reduce flood risk for 150+ structures, size of the floodplain by 90+ acres, frequency & duration of flooding along 3+ miles of roadway in an Atlas 14 1% event.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000402	Carpenters (N100-00-00) Channel Improvements	Study to develop a Cost Benefit Analysis and elevate the project to a FMP. Carpenters Bayou (N100-00-00) channel conveyance improvements.	06000015	Harris	12040104	120401040702	06000094	Project Planning	0.848558	Riverine, Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	Develop BCA to become a FMP. Provides additional stormwater detention in support of flood damage reduction as part of the Halls Ahead Bond Implementation Program. The project will be a partnership with the City of Houston.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Project Planning	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000397	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-23-00 and P118-23-02	N	\$ 30,000.00		1,432.00	1,009.00	5,511.00	8.00	1.00	1.00	9.65	0.00		
061000399	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-25-00 & P118-25-01	N	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000400	Halls Bayou - Right-Of-Way, Design, and Construction of Channel Conveyance Improvements on P118-27-00	N	\$ 30,000.00		3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000402	Carpenters (N100-00-00) Channel Improvements	N	\$ 30,000.00		153.00	148.00	531.00	3.00	0.00	0.00	2.02	0.00		
061000403	Halls Bayou - Design and Construction of a Stormwater Detention Basin in Brock Park	N	\$ 30,000.00		12,422.00	10,065.00	43,171.00	98.00	7.00	7.00	121.99	9.64		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	Develop BCA to become a FMP. Projects as part of the Halls Ahead Bond Implementation Program, could reduce the risk of flooding for more than 700 structures in an Atlas 14 1% rainfall event.	06000015	Harris	12040104	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Other	44.40505	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Diversion channel expansion for Gellhorn Drive flood reductions.	06000015	Harris	12040104	120401040606, 120401040701	06000092, 06000093	Project Planning	4.929197	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Denver Harbor drainage system improvements.	06000015	Harris	12040104	120401040606, 120401040701	06000092, 06000093	Project Planning	4.929197	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel bypass to provide Luce main stem upstream and local overland flooding relief	06000015	Harris	12040101,12040103,12040104,12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000412	Luce Bayou (Z100-00-00-P026) Channelization	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of channel improvements along Luce main stem	06000015	Harris	12040101,12040103,12040104,12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. Construction of regional detention upstream of Luce Bayou, including acquiring open land north of Harris County	06000015	Harris	12040101,12040103,12040104,12040203	120401010502, 120401010501, 120401030205, 120401030402, 120401040704, 120402030103, 120402030102	06000025, 06000024, 06000060, 06000070, 06000096, 06000101, 06000100	Project Planning	74.887326	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000404	Halls Bayou - Planning, Right-Of-Way, Design and Construction of Halls Bayou Flood Risk Management Project	N	\$ 30,000.00		12,422.00	10,065.00	43,171.00	98.00	7.00	7.00	121.99	9.64		
061000405	Hunting Bayou Wallisville Outfall (H103-00-00) - Gellhorn Drive	N	\$ 30,000.00		396.00	328.00	10,304.00	1.00	2.00	2.00	13.03	0.66		
061000406	Hunting Bayou Wallisville Outfall (H103-00-00) - Denver Harbor	N	\$ 30,000.00		396.00	328.00	10,304.00	1.00	2.00	2.00	13.03	0.66		
061000407	Luce Bayou (Z100-00-00-P026) Bypass Channel	N	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		
061000412	Luce Bayou (Z100-00-00-P026) Channelization	N	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		
061000413	Luce Bayou (Z100-00-00-P026) Upstream Detention	N	\$ 30,000.00		1,939.00	1,465.00	5,763.00	25.00	0.00	0.00	39.77	1,122.39		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	Further study of Scenarios A, B and C recommended by the Fairgreen & Eastex Freeway Forest Subdivisions Drainage Report. Will develop Benefit Cost Analysis and other data required for a FMP designation.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	0.262348	Urban/Local	Harris County	Harris, Harris County Flood Control District
061000415	City of Manvel Rogers Rd. Drainage Improvements	Further study Alleluia Trail Rogers Rd & All Roads off Rogers drainage improvements, including storm sewer rehabilitation and ditch deepening.	06000015	Brazoria	12040204,12040204,12040204	120402040100, 120402040400, 120402040200	06000106, 06000107, 06000109	Project Planning	0.262348	Urban/Local	City of Manvel	City of Manvel, Brazoria County
061000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	1.961867	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000417	Houston Fifth Area Flood Mitigation	Further study to develop this project into a FMP. This unfunded CDBG-MIT application involves installing various storm sewer infrastructure in the Fifth Ward within the City of Houston.	06000015	Harris	12040104	120401040701	06000093	Project Planning	40.595013	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000418	Houston Port Area Flood Mitigation	Further study to develop this project into a FMP. The project includes storm sewer improvements on nearly every street in the Pleasantville neighborhood to improve conveyance capacity and construction of a detention basin.	06000015	Harris	12040104	120401040701	06000093	Project Planning	40.595013	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000419	Houston Huntington Village Area Flood Mitigation	Further study to develop this project into a FMP. The project includes storm sewer improvements in the Huntington Village neighborhood to reduce structural flood loss.	06000015	Fort Bend, Harris	12040104	120401040401	06000083	Project Planning	95.570721	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	Develop BCA to become a FMP. ROW acquisition, design, and construction of 39 ac stormwater detention basin holding 500 ac-ft near FM 528; Additional solutions include buyouts, improving channel conveyance, and tributary detention.	06000015	Brazoria, Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	102.408451	Riverine, Urban/Local	Harris County Flood Control District (HCFCDD)	Harris, Harris County Flood Control District

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000414	Planning Phase Study Report for Fairgreen & Eastex Freeway Forest Subdivisions Drainage Improvements 2019	N	\$ 30,000.00	Harris County Bond Program 2018	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00		
061000415	City of Manvel Rogers Rd. Drainage Improvements	N	\$ 30,000.00		1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31	178.80		
061000416	Fallbrook, Ridgepoint and Westpoint Subdivision Drainage Improvements	N	\$ 30,000.00	Unknown	114.00	59.00	366.00	5.00	0.00	0.00	0.60	0.00		
061000417	Houston Fifth Area Flood Mitigation	N	\$ 30,000.00	CDBG-MIT	6,262.00	5,220.00	34,532.00	112.00	6.00	6.00	100.92	20.48		
061000418	Houston Port Area Flood Mitigation	N	\$ 30,000.00	CDBG-MIT	6,262.00	5,220.00	34,532.00	112.00	6.00	6.00	100.92	20.48		
061000419	Houston Huntington Village Area Flood Mitigation	N	\$ 30,000.00	CDBG-MIT	32,129.00	29,534.00	267,993.00	448.00	1.00	1.00	412.20	41.83		
061000420	Clear Creek - Friendswood Detention Basin Near FM 528 in Friendswood	N	\$ 30,000.00		14,917.00	13,124.00	72,758.00	155.00	9.00	9.00	264.18	161.82		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	Develop BCA to become a FMP. Project identified in Clear Creek Federal Project study for flood management but did not yield high enough cost benefit ratio for Federal funding. Therefore, Harris and Galveston County have decided to fund this effort.	06000015	Brazoria, Galveston, Fort Bend, Harris	12040104,12040204	120401040502, 120401040501, 120402040200, 120402040400, 120402040100	06000086, 06000085, 06000107, 06000109, 06000106	Project Planning	200.273263	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District
061000422	Danubina Drainage Improvements	Study to further this project and develop an FMP. This CDBG-MIT application involves the installation and construction of various storm sewer and detention infrastructure.	06000015	Chambers, Harris	12040203	120402030106	06000104	Project Planning	48.362501	Urban/Local	City of Baytown	Harris, Harris County Flood Control District, Baytown
061000423	North Alexander Drainage Improvements	Further study to develop this project into a FMP. This CDBG-MIT application involves the installation and construction of various storm sewer and detention infrastructure.	06000015	Chambers, Harris	12040203	120402030106	06000104	Project Planning	48.362501	Urban/Local	City of Baytown	Harris, Harris County Flood Control District, Baytown
061000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	This project, which includes terraces, detention, and a trail network, will reduce water surface elevations on Clear Creek within the City of Friendswood and will make the Blackhawk Wastewater Treatment Facility more resilient.	06000015	Galveston, Harris	12040204	120402040200, 120402040100	06000107, 06000106	Project Planning	20.829157	Urban/Local	City of Friendswood	Galveston, Harris, Harris County Flood Control District, Friendswood
061000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	Major maintenance to restore channel conveyance capacity.	06000015	Harris, Galveston	12040104,12040204	120401040502, 120401040501, 120402040200, 120402040400, 120402040100	06000086, 06000085, 06000107, 06000109, 06000106	Project Planning	200.273263	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Friendswood
061000426	Sawdust Road Bridge Elevation Project	Further study of study, design, elevation, & replacement of the Sawdust Road Bridge to mitigate the risks associated with riverine flooding for the citizens residing in the Grogan's Point and Timberlakes - Timberridge Subdivisions.	06000015	Harris, Montgomery	12040101,12040102	120401010402, 120401010404, 120401020107, 120401020210, 120401020209, 120401020211, 120401020212, 120401020213	06000021, 06000023, 06000032, 06000042, 06000041, 06000043, 06000044, 06000045	Project Planning	32.94456	Riverine	Montgomery County	Montgomery,

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000421	Clear Creek - Hughes Stormwater Detention (SWD) Basin	N	\$ 30,000.00	Harris and Galveston County	27,164.00	22,913.00	120,966.00	233.00	12.00	12.00	458.14	532.72		
061000422	Danubina Drainage Improvements	N	\$ 30,000.00	CDBG-MIT	550.00	440.00	2,324.00	7.00	0.00	0.00	13.82	98.24		
061000423	North Alexander Drainage Improvements	N	\$ 30,000.00	CDBG-MIT	550.00	440.00	2,324.00	7.00	0.00	0.00	13.82	98.24		
061000424	City of Friendswood - Clear Creek Inline & Offline Detention - Bay Area Blvd. Phase I	N	\$ 30,000.00	CDBG-MIT	1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72	18.37		
061000425	Clear Creek - Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	N	\$ 30,000.00		424.00	421.00	1,319.00	0.00	0.00	0.00	8.91	3.38		
061000426	Sawdust Road Bridge Elevation Project	N	\$ 30,000.00	CDBG-MIT	794.00	633.00	5,042.00	5.00	0.00	0.00	18.37	15.15		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000427	Sandpiper Village Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040102	120401020107	06000032	Project Planning	2.311659	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000431	Oak Glen Place Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040604, 120401040304	06000090, 06000081	Project Planning	6.011309	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000432	Northfield Place Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040604, 120401040304	06000090, 06000081	Project Planning	6.011309	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000433	Spring Shadows South	Study to develop a Benefit Cost Analysis needed to elevate project to a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040302, 120401040303	06000079, 06000080	Project Planning	5.819687	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000434	Houston Kashmere Gardens Area Flood Mitigation	Further study to develop this project into a FMP. The project includes improvements to storm sewer, roadside ditch systems, culverts, sewer inlets, and the construction of detention basins.	06000015	Harris	12040104	120401040703, 120401040604, 120401040606, 120401040304, 120401040701	06000095, 06000090, 06000092, 06000081, 06000093	Project Planning	30.87229	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000435	City of Southside Place - Auden Street Drainage Improvement Project	This project provides for design and construction of a new stormwater conveyance system for the City of Southside Place, that will have the capacity to covey a City standard storm event (2-year storm).	06000015	Harris	12040104	120401040402	06000084	Project Planning	45.60118	Urban/Local	City of Southside Place	Harris, Harris County Flood Control District, Southside Place
061000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	Further study of this unfunded CDBG-MIT project consists of various areas of roadside ditch and driveway culvert improvements in Bacliff and San Leon.	06000015	Galveston, Chambers	12040204	120402040200	06000107	Project Planning	6.949026	Urban/Local	Galveston County	Galveston, Chambers

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000427	Sandpiper Village Subdivision Drainage Improvements	N	\$ 30,000.00	Unknown	196.00	140.00	519.00	2.00	0.00	0.00	3.17	1.75		
061000431	Oak Glen Place Subdivision Drainage Improvements	N	\$ 30,000.00	Unknown	3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000432	Northfield Place Subdivision Drainage Improvements	N	\$ 30,000.00	Unknown	3,188.00	2,296.00	10,940.00	13.00	1.00	1.00	31.84	0.22		
061000433	Spring Shadows South	N	\$ 30,000.00	Unknown	1,006.00	935.00	4,553.00	6.00	0.00	0.00	11.76	0.00		
061000434	Houston Kashmere Gardens Area Flood Mitigation	N	\$ 30,000.00	CDBG-MIT	6,244.00	5,220.00	34,523.00	98.00	6.00	6.00	101.51	21.13		
061000435	City of Southside Place - Auden Street Drainage Improvement Project	N	\$ 30,000.00	CDBG-MIT	8,855.00	8,148.00	93,959.00	146.00	1.00	1.00	124.97	8.68		
061000436	Unincorporated Areas of Bacliff and San Leon Roadside Ditches & Driveway Culverts Improvements	N	\$ 30,000.00	CDBG-MIT	3,337.00	2,777.00	5,906.00	5.00	0.00	0.00	50.36	48.62		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris, Liberty, Montgomery	12040101,12040103	120401010501, 120401030205, 120401030402	06000024, 06000060, 06000070	Project Planning	155.776141	Urban/Local	Harris County	North Harris County Regional Water Authority, San Jacinto River Authority, Harris County Flood Control District, USACE
061000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	This proposed solution recommends establishing positive drainage and clear flow lines, which are expected to reduce the water surface elevation in the subdivision to mitigate the structural flood risk for all 1,445 beneficiaries.	06000015	Harris, Waller, Liberty, Montgomery	12040101,12040102,12040103,12040104,12040203,12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	722.66	Urban/Local	Harris County	Harris, Harris County Flood Control District,
061000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	The mitigation solution for Cypress Creek Estates is to install storm sewer systems along West Shadow Lake, East Shadow Lake, North Shadow Lake and Winding Lane, to re-grade the roadside ditches, and to remove and replace of all driveways and culverts.	06000015	Harris	12040101,12040102,12040104	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	542.607742	Urban/Local	Harris County	Harris, Waller, Harris County Flood Control District, Jersey Village, Waller, Houston, Tomball, Prairie View, Humble
061000440	Brazoria County Camp Mohawk County Park Development	Develop Benefit Cost Analysis in support of the purchase of approximately 160 acres of flood prone area adjacent to and surrounding Camp Mohawk County Park to be used as open space.	06000015	Brazoria	12040204	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Project Planning	1481.869781	Urban/Local	Brazoria County	Brazoria West Brazoria County Drainage District, Pearland, Manvel, Iowa Colony, Alvin, Brookside Village, Hillcrest, Liverpool, Hitchcock

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000437	Evaluation of Dredging of Channels that Exit Into Lake Houston	N	\$ 30,000.00	Unknown	6,662.00	5,121.00	25,574.00	64.00	1.00	1.00	169.08	326.65		
061000438	Greens Bayou, Jackson Bayou, White Oak Bayou, Cypress Creek and San Jacinto River Areas Subdivision Drainage Mitigation Project	N	\$ 30,000.00	CDBG-MIT	53,765.00	42,231.00	335,950.00	937.00	47.00	47.00	1,051.74	2,742.04		
061000439	Greens Bayou, White Oak Bayou and Cypress Creek Areas Subdivision Drainage Mitigation Project	N	\$ 30,000.00	CDBG-MIT	33,860.00	27,436.00	267,186.00	562.00	32.00	32.00	601.41	1,841.86		
061000440	Brazoria County Camp Mohawk County Park Development	N	\$ 30,000.00		18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06	8,584.16		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	Develop BCA to become a FMP. This project is part of the South Mayde Creek Plan that could reduce the risk of flooding for more than 70 homes and reduce the rainfall event by more than 340 acres in a pre-Atlas 1% rainfall event.	06000015	Harris	12040104	120401040102, 120401040202, 120401040104, 120401040203, 120401040303	06000072, 06000076, 06000074, 06000077, 06000080	Project Planning	15.50179	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
061000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	20.072024	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000443	Artesian Forest 1 - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207	06000011	Project Planning	2.484597	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000444	Artesian Forest East - Artesian Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207	06000011	Project Planning	1.401927	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000445	Lilly - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	1.401927	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000446	East Fork North - Alligator Creek Watershed "	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000447	East Fork South - Alligator Creek Watershed "	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000448	West Branch - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000449	Oak Hollow - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000450	Cable - Alligator Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000441	Addicks Reservoir - Design and Construction of a Bridge Replacement for Greenhouse Road at South Mayde Creek	N	\$ 30,000.00		692.00	638.00	3,061.00	12.00	0.00	0.00	11.65	27.29		
061000442	Forest Estates - Live Oak Creek Watershed Artesian Forest 1 - Artesian Creek Watershed	N	\$ 30,000.00		99.00	83.00	531.00	0.00	0.00	0.00	2.26	0.70		
061000443	Artesian Forest 1 - Artesian Creek Watershed	N	\$ 30,000.00		40.00	36.00	69.00	1.00	0.00	0.00	0.89	6.58		
061000444	Artesian Forest East - Artesian Creek Watershed	N	\$ 30,000.00		40.00	36.00	69.00	1.00	0.00	0.00	0.89	6.58		
061000445	Lilly - Alligator Creek Watershed	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000446	East Fork North - Alligator Creek Watershed "	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000447	East Fork South - Alligator Creek Watershed "	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000448	West Branch - Alligator Creek Watershed	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000449	Oak Hollow - Alligator Creek Watershed	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		
061000450	Cable - Alligator Creek Watershed	N	\$ 30,000.00		516.00	426.00	3,099.00	2.00	9.00	9.00	9.90	2.45		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000451	South Frazier - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	6.008916	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000452	Rivershire East - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	3.50546	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000453	Rivershire West - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	3.50546	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000454	Baretta - Grand Lake Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010401	06000020	Project Planning	9.514375	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000455	Valley - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	3.592233	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000456	Hunnington - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000457	Avenue M - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000458	South 3rd - Stewarts Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010403, 120401010401, 120401010402, 120401010205, 120401010206	06000011, 06000022, 06000020, 06000021, 06000009, 06000010	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000459	Toby - Little Caney Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010403, 120401010401, 120401010402	06000022, 06000020, 06000021	Project Planning	19.659163	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000460	Southern Oak - Little Laney Creek	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010403, 120401010401, 120401010402	06000022, 06000020, 06000021	Project Planning	8.613266	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000451	South Frazier - Grand Lake Creek Watershed	N	\$ 30,000.00		365.00	257.00	1,873.00	6.00	0.00	0.00	6.66	2.98		
061000452	Rivershire East - Grand Lake Creek Watershed	N	\$ 30,000.00		365.00	257.00	1,873.00	6.00	0.00	0.00	6.66	2.98		
061000453	Rivershire West - Grand Lake Creek Watershed	N	\$ 30,000.00		879.00	682.00	4,662.00	6.00	9.00	9.00	16.56	5.43		
061000454	Baretta - Grand Lake Creek Watershed	N	\$ 30,000.00		102.00	63.00	283.00	0.00	1.00	1.00	5.95	3.95		
061000455	Valley - Stewarts Creek Watershed	N	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000456	Hunnington - Stewarts Creek Watershed	N	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000457	Avenue M - Stewarts Creek Watershed	N	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000458	South 3rd - Stewarts Creek Watershed	N	\$ 30,000.00		374.00	277.00	2,384.00	7.00	7.00	7.00	10.31	6.72		
061000459	Toby - Little Caney Creek Watershed	N	\$ 30,000.00		271.00	204.00	571.00	0.00	0.00	0.00	6.53	3.90		
061000460	Southern Oak - Little Laney Creek	N	\$ 30,000.00		271.00	204.00	571.00	0.00	0.00	0.00	6.53	3.90		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000461	Rush Creek Lake - Lake Conroe Estates Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000013, 06000014, 06000015	Montgomery	12040101	120401010207, 120401010206	06000011, 06000010	Project Planning	8.613266	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000462	Longmire and SH-105 - Live Oak Creek Watershed	Develop a benefits cost analysis in support of this project identified in the City of Conroe Master Drainage Plan.	06000015	Montgomery	12040101	120401010207, 120401010401	06000011, 06000020	Project Planning	2.380182	Riverine, Urban/Local	City of Conroe	Montgomery, Conroe
061000463	Southeast Montgomery County Master Drainage Plan	Study to develop Master Drainage Plan using future and existing land use and flood/storm water drainage needs including Atlas 14 rainfall	06000010	Montgomery	12040101,12040102,12040103	120401010403, 120401010401, 120401010402, 120401010501, 120401010404, 120401020212, 120401030110, 120401030102, 120401030108, 120401030104, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030401	06000022, 06000020, 06000021, 06000024, 06000023, 06000044, 06000055, 06000047, 06000053, 06000049, 06000048, 06000050, 06000051, 06000052, 06000054, 06000070, 06000069	Watershed Planning	312.722394	Riverine, Urban/Local	Montgomery County	Montgomery
061000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	Further study to develop a BCA required to elevate project to FMP. The project is to reduce flooding in the Problem Area #5 identified by the Carpenters Bayou Watershed Planning Project Report, 2021.	06000015	Harris	12040101,12040104	120401010502, 120401040605, 120401040703, 120401040705, 120401040702, 120401040606, 120401040704	06000025, 06000091, 06000095, 06000097, 06000094, 06000092, 06000096	Project Planning	31.025701	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston
061000465	Catalina	Study to develop a BCR and other data needed to elevate project to a FMP. FIF application information unavailable.	06000015	Harris	12040204	120402040100	06000106	Project Planning	261.600043	Other	City of Houston	Harris, Harris County Flood Control District
061000466	Ralston Acres Subdivision Drainage Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040605, 120401040604, 120401040606	06000091, 06000090, 06000092	Project Planning	1.86111	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000461	Rush Creek Lake - Lake Conroe Estates Watershed	N	\$ 30,000.00		80.00	73.00	130.00	0.00	1.00	1.00	0.38	1.17		
061000462	Longmire and SH-105 - Live Oak Creek Watershed	N	\$ 30,000.00		99.00	83.00	531.00	0.00	0.00	0.00	2.26	0.70		
061000463	Southeast Montgomery County Master Drainage Plan	Y	\$ 1,170,000.00		10,021.00	7,836.00	22,126.00	39.00	17.00	17.00	212.79	296.67		
061000464	Carpenters Bayou (West Acres, Shadowglen & Old River Terrace Neighborhood)	N	\$ 30,000.00		812.00	489.00	4,689.00	24.00	2.00	2.00	18.83	96.26		
061000465	Catalina	N	\$ 30,000.00		33,653.00	28,408.00	155,360.00	395.00	16.00	16.00	578.02	596.69		
061000466	Ralston Acres Subdivision Drainage Improvements	N	\$ 30,000.00		80.00	64.00	217.00	0.00	0.00	0.00	1.71	1.91		

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Description	Associated Goal No.	Counties	HUC8s	HUC12s	Watersheds	Study Type	FME Area (sqmi)	Flood Risk Type	Sponsor	Entities with Oversight
061000467	Middle Armand Bayou Protection Project	Further study to develop this project into a FMP. FIF application information unavailable.	06000015	Harris	12040204	120402040100	06000106	Other	261.600043	Urban/Local	City of Pasadena	Harris County Flood Control District, Pasadena
061000468	Houston Sunnyside Area Flood Mitigation	Further study to develop into a FMP. Includes new storm sewer trunk systems on major thoroughfares & new or improved neighborhood storm sewer systems. Will also require construction of detention basins to mitigate the proposed improvements.	06000015	Harris	12040104,12040204	120401040402, 120401040502, 120401040501, 120402040100	06000084, 06000086, 06000085, 06000106	Project Planning	23.571218	Urban/Local	City of Houston	Harris, Harris County Flood Control District, Houston
061000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	Study to develop a Benefit Cost Analysis needed for this project to become a FMP. FIF application information unavailable.	06000015	Harris	12040104	120401040604, 120401040603	06000090, 06000089	Project Planning	10.484136	Urban/Local	Harris County	Harris, Harris County Flood Control District, Houston,

Appendix 4-4: Table 12 - Potential Flood Management Evaluations Identified by RFPG

FME ID	FME Name	Emergency Need	Estimated Study Cost	Potential Funding Sources and Amount	Estimated Number of Structures at Flood Risk	Residential Structures at Flood Risk	Estimated Population at Flood Risk	Critical Facilities at flood risk (#)	Number of Low Water Crossings at Flood Risk	Estimated number of road segment closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Existing or Anticipated Models (year)	Existing or Anticipated Maps (year)
061000467	Middle Armand Bayou Protection Project	N	\$ 30,000.00		33,653.00	28,408.00	155,360.00	395.00	16.00	16.00	578.02	596.69		
061000468	Houston Sunnyside Area Flood Mitigation	N	\$ 30,000.00		1,640.00	1,580.00	5,236.00	5.00	0.00	0.00	22.13	10.29		
061000469	Eastex Freeway Forest Sections 3 & 4 Subdivision Improvements	N	\$ 30,000.00		6,515.00	5,497.00	24,456.00	60.00	3.00	3.00	71.50	12.08		

Appendix 4-5:
Table 13 - Potential FMPs

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	Further refine the LCC Alt. Combination 3 as proposed as part of the LCCDBFMP (2021), including detention channel benching, a diversion tunnel, capacity improvements, and an auxiliary opening.	06000001, 06000005, 06000006, 06000015	Brazoria, Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Comprehensive	109.51	Riverine	Harris County Flood Control District (HCFCD)	Brazoria, Galveston, Harris, Harris County Flood Control District
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	Projects submitted as part of the CDBG MIT grant in the Brays Bayou Watershed which include regional channel and detention projects including D133 (Bintliff Ditch) and Sharpstown Drainage	06000001, 06000005, 06000006, 06000015	Harris	120401040401	06000083	Comprehensive	2.17	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
063000037	White Oak Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	Projects submitted as part of the CDBG MIT grant in the Sims Bayou Watershed which include three (3) regional channel and detention projects including C147/C547, Saltwater Ditch, and C506	06000001, 06000005, 06000006, 06000015	Fort Bend, Harris	120401040703, 120401040402, 120401040502, 120401040501, 120402040400, 120402040100	06000095, 06000084, 06000086, 06000085, 06000109, 06000106	Comprehensive	93.21	Riverine, Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	Projects submitted as part of the CDBG MIT grant in Halls Bayou which include five (5) regional channel and detention projects including C-28, C-41 Hardy West, C-41 Mainstem, C30, and C23	06000001, 06000005, 06000006, 06000015	Harris	120401040605, 120401040601, 120401040302, 120401040604, 120401040606, 120401040304, 120401040603, 120401040701	06000091, 06000087, 06000079, 06000090, 06000092, 06000081, 06000089, 06000093	Comprehensive	44.45	Riverine	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Houston

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	N	\$ 1,150,000,000.00		22.08	11.46	3,642.00	3,035.00	15,959.00	18.00	9.00	9.00	118.62
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	Y	\$ 107,061,000.00		0.62	0.43	267.00	182.00	8,121.00	26.00	0.00	0.00	34.18
063000037	White Oak Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	Y	\$ 99,653,000.00		2.76	0.92	4,367.00	4,032.00	18,899.00	59.00	4.00	4.00	55.45
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	Y	\$ 99,653,000.00		12.04	3.73	15,541.00	13,009.00	55,015.00	96.00	7.00	7.00	138.50

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	130.58	1,358.00	911.00	2,610.00	835.00	3,653.00	8.00	1.00	1.00
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	0.41	78.00	160.00	279.00	118.00	2,890.00	4.00	0.00	0.00
063000037	White Oak Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	5.38	1,328.00	2,283.00	970.00	2,127.00	9,352.00	32.00	2.00	2.00
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	15.10	3,259.00	3,023.00	1,336.00	2,652.00	9,386.00	6.00	0.00	0.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000026	Lower Clear Creek & Dickinson Bayou Flood Mitigation Plan - Lower Clear Creek Alternative 3	26.00	16.11			Unknown	Unknown	1,545,698.92	0.00	N	N	0.33	N	0.00	0.06
063000027	Brays Bayou Watershed Mitigation Project CDBG MIT Application - Bintliff Ditch Improvements D133-00-00 & Sharpstown	5.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.76	N	0.00	0.13
063000037	White Oak Bayou CDBG MIT Application - South Post Oak SWDB C147/C547; South Shaver SWDB C506-01-00-E003; Salt Water Ditch SWDB & Channel Improvements C108-00-00	17.00	2.46			Unknown	Unknown	43,650.02	0.00	N	N	0.80	N	0.00	1.80
063000040	Halls Bayou Watershed Mitigation Application 1 - CDBG MIT	17.00	0.03			Unknown	0.01	196,554.24	0.00	N	N	0.78	N	0.00	1.46

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	Projects submitted as part of the CDBG MIT grant in the White Oak Bayou Watershed which include five (5) regional channel and detention projects including Kolbe Road, Barwood, E132-00-00, Tower Oaks, & Little White Oak Bayous.	06000001, 06000005, 06000006, 06000015	Harris	120401020104, 120401020106, 120401040601, 120401040305, 120401040302, 120401040604, 120401040303, 120401040304, 120401040301, 120401040701	06000029, 06000031, 06000087, 06000082, 06000079, 06000090, 06000080, 06000081, 06000078, 06000093	Comprehensive	110.71	Urban/Local	Harris County Flood Control District (HCFCD)	Harris, Harris County Flood Control District, Jersey Village, Houston
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Reduce flooding in the Caney Creek watershed by benching/widening a 7.8-mile-long stretch to increase conveyance capacity. Must be constructed with detention at FM1097 or detention at SH105 to capture runoff from Caney Creek.	06000001, 06000005, 06000006, 06000015	Harris, Liberty, Montgomery, San Jacinto, Walker			Comprehensive	370.50	Riverine	Montgomery County	Montgomery, Harris, Houston, Harris County Flood Control District, San Jacinto San Jacinto River Authority
063000059	East Fork San Jacinto River - Winters Bayou Detention	The goal of the detention facility is to reduce flooding in the East Fork watershed by constructing a 1.60-mile-long earthen impoundment that captures runoff from Winters Bayou.	06000001, 06000011, 06000012, 06000015	Harris, Liberty, Montgomery, San Jacinto, Walker			Detention Pond	408.79	Riverine	San Jacinto County	Montgomery, Liberty, Harris, Harris County Flood Control District, San Jacinto San Jacinto River Authority
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	The goal of the detention ponds is to reduce flooding in the Lake Creek and West Fork watersheds by constructing earthen impoundments that captures runoff from Garrett's Creek, Caney Creek, & Little Caney Creek.	06000001, 06000011, 06000012, 06000015	Montgomery, Grimes	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010203, 120401010304, 120401010205	06000001, 06000012, 06000013, 06000014, 06000003, 06000007, 06000015, 06000009	Detention Pond	103.90	Riverine	Montgomery County	Montgomery, Grimes, San Jacinto San Jacinto River Authority

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	Y	\$ 120,015,000.00		2.31	1.04	2,937.00	2,413.00	15,842.00	41.00	4.00	4.00	47.31
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	Y	\$ 469,000,000.00		37.66	6.74	3,641.00	2,853.00	5,743.00	1.00	9.00	9.00	91.44
063000059	East Fork San Jacinto River - Winters Bayou Detention	N	\$ 134,000,000.00		47.75	6.29	1,896.00	1,442.00	3,705.00	3.00	1.00	1.00	73.49
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	Y	\$ 291,000,000.00		32.68	3.19	479.00	368.00	488.00	0.00	5.00	5.00	18.21

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Flood Risk	Reduction in Flood Risk							
FMP ID	FMP Name	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	0.21	549.00	670.00	381.00	605.00	3,899.00	3.00	0.00	0.00
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	79.13	336.00	2,422.00	2,068.00	1,827.00	4,049.00	1.00	0.00	0.00
063000059	East Fork San Jacinto River - Winters Bayou Detention	72.04	297.00	651.00	1,005.00	506.00	1,412.00	1.00	0.00	0.00
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	198.35	41.00	355.00	397.00	265.00	383.00	0.00	1.00	1.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000046	White Oak Bayou CDBG MIT Application Projects: Kolbe Road Drainage Improvements, Barwood, E132-00-00, Tower Oaks, & Little White Oak	7.00	0.00			Unknown	0.01	179,126.87	0.00	N	N	0.92	N	0.00	0.80
063000058	Caney Creek - Channelization at IH-69 & Detention at FM1097 + SH105	42.00	27.32			Varies by Roadways	Varies by Roadways	193,641.62	0.00	N	N	0.55	N	0.00	0.30
063000059	East Fork San Jacinto River - Winters Bayou Detention	17.00	5.86			Varies by Roadways	Varies by Roadways	205,837.17	0.00	N	N	0.60	N	0.00	0.47
063000060	Lake Creek - Detention on Garretts Creek, Little Caney Creek, & Caney Creek	5.00	-4.00			Varies by Roadways	Varies by Roadways	819,718.31	0.00	N	N	0.17	N	0.00	0.26

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by REPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	Widen 4.3-mile-long stretch to increase conveyance capacity. Must be completed with 4.7-mile-long detention at SH105 and 3.2-mile-long at Walker Creek to reduce flooding in Peach Creek watershed.	06000001, 06000005, 06000006, 06000015	Liberty, Montgomery, San Jacinto, Walker	120401030110, 120401030102, 120401030108, 120401030101, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030303, 120401030304, 120401030401	06000055, 06000047, 06000053, 06000046, 06000048, 06000050, 06000051, 06000052, 06000054, 06000070, 06000063, 06000064, 06000069	Comprehensive	157.95	Riverine	Montgomery County	Montgomery, San Jacinto San Jacinto River Authority, Harris, Harris County Flood Control District
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	8.9-mile, 200-foot-wide benched improvement 4-feet above the flowline of Woodlands channel and 6.9-mile, 300-foot-wide benched improvement 4 feet above I-45 channel. Must be completed with detention on Birch Creek and Walnut Creek.	06000001, 06000005, 06000006, 06000015	Harris, Waller, Montgomery, Grimes	120401030110, 120401030102, 120401030108, 120401030101, 120401030103, 120401030105, 120401030106, 120401030107, 120401030109, 120401030402, 120401030303, 120401030304, 120401030401	06000055, 06000016, 06000017, 06000018, 06000019, 06000020, 06000021, 06000024, 06000023, 06000036, 06000026, 06000030, 06000032, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000042, 06000040, 06000041, 06000043, 06000044, 06000045, 06000088	Comprehensive	386.26	Riverine	Montgomery County	Harris, Montgomery, San Jacinto River Authority, Harris County Flood Control District
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	Channel improvement is to reduce flooding in the West Fork watershed by benching/widening to increase conveyance capacity of West Fork in order to lower the water surface elevation. Conduct after or in conjunction with detention on Lake Creek or Spring Creek.	06000001, 06000011, 06000012, 06000015	Harris, Montgomery	120401010502, 120401010501, 120401010404, 120401020213, 120401030110, 120401030402, 120401040705, 120401040702, 120401040602, 120401040704, 120402030104, 120402030102	06000025, 06000025, 06000024, 06000023, 06000045, 06000055, 06000070, 06000097, 06000094, 06000088, 06000096, 06000102, 06000100	Channel	141.08	Riverine	Harris County Flood Control District (HCFCD)	Harris, Montgomery, San Jacinto River Authority, Harris County Flood Control District, Houston
063000113	City of Friendswood Ordinances and Regulation Update	Adopt higher codes and update ordinances and regulation to promote hazard mitigation strategies	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Preparedness	20.83	Urban/Local	City of Friendswood	Friendswood

Appendix 4-5: Table 4-5.1					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	Y	\$ 810,000,000.00		14.81	2.41	1,516.00	1,172.00	2,394.00	1.00	6.00	6.00	45.11
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	Y	\$ 393,000,000.00		39.44	9.60	7,487.00	6,355.00	24,721.00	15.00	7.00	7.00	120.97
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	N	\$ 994,000,000.00		55.06	6.17	4,364.00	3,689.00	21,983.00	50.00	0.00	0.00	106.58
063000113	City of Friendswood Ordinances and Regulation Update	N	\$ 109,000.00		5.12	2.80	1,680.00	1,601.00	5,467.00	2.00	5.00	5.00	37.72

[illegible]

Potentially Feasible Flood Mitigation Projects Identified by REPG															
Reduction in Flood Risk															
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000061	Peach Creek-Channelization at IH-69 & Detention at SH105 + Walker Creek	24.00	2.86			Varies by Roadways	Varies by Roadways	706,806.28	0.00	N	N	0.59	N	0.00	0.26
063000062	Spring Creek - Woodland (200-ft) and I-45 Channelization with detention at Birch Creek and Walnut Creek	69.00	12.83			Varies by Roadways	Varies by Roadways	71,728.42	0.00	N	N	0.17	N	0.00	0.73
063000064	West Fork San Jacinto River - Kingwood Benching & HW 242 Channelization	28.00	19.39			Varies by Roadways	Varies by Roadways	742,899.85	0.00	N	N	0.25	N	0.00	0.10
063000113	City of Friendswood Ordinances and Regulation Update	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.27	N	0.00	5.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000114	City of Bayou Vista Regulations and Permit Requirements Update	Update regulations and permit requirements to address enhances hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	0.45	Urban/Local	City of Bayou Vista	Galveston, Bayou Vista
063000115	City of League City Freeboard Ordinance	Update city ordinance to require 24" of freeboard in the floodplain.	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Preparedness	52.89	Riverine, Urban/Local	City of League City	Galveston, League City
063000123	City of Cleveland Floodplain Land-Use Ordinance	The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery, San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland
063000124	City of Cleveland Floodplain Ordinance Update	Adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery, San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	Adopt 25-foot setback from pipeline right-of-way	06000001, 06000007, 06000010, 06000015	Liberty, Montgomery, San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Preparedness	18.74	Urban/Local	City of Cleveland	Cleveland
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	Federal projects identified in the Texas Coastal Study (2021) including Boliver Gates, Galveston Sea Wall Improvements, Ecosystem Restoration, Galveston Ring Barrier system, Clear Creek & Dickinson Bayou Gates, and non-structural measures	06000011, 06000012, 06000013, 06000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000091, 06000095, 06000084, 06000097, 06000098, 06000094, 06000082, 06000090, 06000092, 06000081, 06000086, 06000085, 06000093, 06000096, 06000103, 06000102, 06000104, 06000105, 06000108, 06000107, 06000109, 06000110, 06000106	Coastal	1559.02	Coastal	Gulf Coast Protection District	Galveston, Galveston, Chambers, Houston, Gulf Coast Protection District, USACE

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000114	City of Bayou Vista Regulations and Permit Requirements Update	N	\$ 109,000.00		0.45	0.00	1,122.00	1,095.00	1,502.00	3.00	0.00	0.00	7.71
063000115	City of League City Freeboard Ordinance	N	\$ 109,000.00		16.74	10.14	5,251.00	4,835.00	20,978.00	25.00	2.00	2.00	104.56
063000123	City of Cleveland Floodplain Land-Use Ordinance	N	\$ 109,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33
063000124	City of Cleveland Floodplain Ordinance Update	N	\$ 109,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	N	\$ 55,000.00		6.83	1.08	261.00	133.00	1,267.00	0.00	1.00	1.00	27.33
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	Y	\$ 24,107,064,000.00		340.47	169.42	103,716.00	85,312.00	438,685.00	3,158.00	39.00	39.00	1,680.63

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG										
FMP ID	FMP Name	Flood Risk	Reduction in Flood Risk							
		Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk	Residential structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences
063000114	City of Bayou Vista Regulations and Permit Requirements Update	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000115	City of League City Freeboard Ordinance	1,308.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000123	City of Cleveland Floodplain Land-Use Ordinance	28.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000124	City of Cleveland Floodplain Ordinance Update	28.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	28.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	10,544.13	4,094.00	75,744.00	90,934.00	61,751.00	346,773.00	2,086.00	16.00	16.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

Reduction in Flood Risk															
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000114	City of Bayou Vista Regulations and Permit Requirements Update	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.14	N	0.00	5.00
063000115	City of League City Freeboard Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.19	N	0.00	5.00
063000123	City of Cleveland Floodplain Land-Use Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	5.00
063000124	City of Cleveland Floodplain Ordinance Update	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	0.00
063000126	City of Cleveland Ordinance Update Pipeline Right-of-Way	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.75	N	0.00	0.00
063000127	Galveston Bay Surge Protection Coastal Storm Risk Management	1,056.00	4,693.63			Unknown	0.01	305,014.46	0.00	N	N	0.47	N	0.00	1.91

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	This project involves ecosystem restoration efforts planned along the GIWW such as the restoration of wetlands and islands, construction of breakwaters, and oyster reef scaling will provide natural buffer from coastal storm surge and prevent erosion.	06000011, 06000012, 06000013, 06000014	Brazoria, Galveston, Fort Bend, Chambers, Harris, Liberty	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000091, 06000095, 06000084, 06000097, 06000098, 06000094, 06000082, 06000090, 06000092, 06000081, 06000086, 06000085, 06000093, 06000096, 06000103, 06000102, 06000104, 06000105, 06000108, 06000107, 06000109, 06000110, 06000106	Coastal	1559.02	Coastal	Gulf Coast Protection District	Brazoria, Galveston, Chambers, Gulf Coast Protection District
063000129	City of Manvel City Ordinance	The city shall adopt a land use ordinance which requires any structure within the 100-year floodplain to be elevated 2 feet above base flood elevation.	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
063000130	City of Manvel Land-Use Ordinance Adoption	The city shall adopt a land-use ordinance which prohibits building residential or commercial structures in the 100-year floodplain	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
063000132	City of Manvel GIS Database Improvements	Improve GIS database to include repetitive loss properties areas and flooded structure data. Data to be used for future drainage infrastructure planning and to provide outreach and emergency services to residents in substantial risk zones.	06000001, 06000007, 06000010, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Preparedness	27.41	Urban/Local	City of Manvel	Brazoria, West Brazoria County Drainage District, Manvel
063000136	Brazoria County NFIP Technical Material	Place copies of FEMA Flood-related technical bulletins in County libraries.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Other	1481.87	Urban/Local	Brazoria County	Brazoria

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	Y	\$ 1,200,169,000.00		491.48	250.98	141,236.00	117,117.00	687,152.00	2,320.00	82.00	82.00	2,431.94
063000129	City of Manvel City Ordinance	N	\$ 103,000.00		8.41	0.78	1,250.00	967.00	8,190.00	8.00	0.00	0.00	43.31
063000130	City of Manvel Land-Use Ordinance Adoption	N	\$ 103,000.00		8.41	0.78	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31
063000132	City of Manvel GIS Database Improvements	N	\$ 21,000.00		8.41	0.78	1,250.00	966.00	8,190.00	8.00	0.00	0.00	43.31
063000136	Brazoria County NFIP Technical Material	N	\$ 21,000.00		179.06	46.51	18,848.00	14,344.00	65,547.00	248.00	0.00	0.00	328.06

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000128	Bolivar Peninsula and West Bay Gulf Intracoastal Waterway (GIWW) Shoreline and Island Protection	0.00	0.00			Unknown	0.01	0.00	100.00	N	N	0.49	N	0.00	0.00
063000129	City of Manvel City Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	5.00
063000130	City of Manvel Land-Use Ordinance Adoption	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00
063000132	City of Manvel GIS Database Improvements	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	0.00
063000136	Brazoria County NFIP Technical Material	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.36	N	0.00	0.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000139	City of Clear Lake Shores - Implement Stormwater Management Practices	The Stormwater management plan is focused on six minimum measures regarding what is being done to prevent stormwater pollution. Annual reporting and renewals are required to ensure compliance is met.	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040100	06000106	Preparedness	0.71	Riverine, Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	Update regulations and permit requirements	06000001, 06000007, 06000010, 06000015	Galveston, Harris	120402040100	06000106	Preparedness	0.71	Urban/Local	City of Clear Lake Shores	Galveston, Clear Lake Shores
063000142	City of Hitchcock - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Brazoria, Galveston	120402040300, 120402040200	06000108, 06000107	Preparedness	91.21	Urban/Local	City of Hitchcock	Galveston, Hitchcock
063000143	City of Jamicia Beach - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston	120402040300	06000108	Preparedness	0.71	Urban/Local	City of Jamaica Beach	Galveston, Jamaica Beach
063000144	City of Kemah - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies.	06000001, 06000007, 06000010, 06000015	Galveston, Chambers	120402040200, 120402040100	06000107, 06000106	Preparedness	1.91	Urban/Local	City of Kemah	Galveston, Kemah
063000145	City of Kemah - Update Floodplain Ordinance	Update floodplain ordinance to ensure compliance with minimum standard of NFIP.	06000001, 06000007, 06000010, 06000015	Galveston, Chambers	120402040200, 120402040100	06000107, 06000106	Preparedness	1.91	Urban/Local	City of Kemah	Galveston, Kemah
063000146	City of La Marque - Improve Regulations and Permit Requirements	Improve regulations and permit requirements to promote hazard mitigation strategies	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	14.23	Urban/Local	City of La Marque	Galveston, La Marque
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	Update and/or develop regulations and permits to address hazards prone to the area and include any changes in future development area.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200	06000107	Preparedness	1.59	Urban/Local	City of Tiki Island	Galveston, Tiki Island

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000139	City of Clear Lake Shores - Implement Stormwater Management Practices	N	\$ 109,000.00		0.70	0.01	633.00	529.00	3,407.00	4.00	0.00	0.00	8.82
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.70	0.01	633.00	529.00	3,407.00	4.00	0.00	0.00	8.82
063000142	City of Hitcock - Improve Regulations and Permit Requirements	N	\$ 109,000.00		78.65	11.88	2,655.00	2,270.00	6,415.00	12.00	0.00	0.00	72.51
063000143	City of Jamicia Beach - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.71	0.00	1,276.00	1,238.00	395.00	4.00	0.00	0.00	13.81
063000144	City of Kemah - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.64	0.99	562.00	425.00	3,492.00	7.00	0.00	0.00	12.01
063000145	City of Kemah - Update Floodplain Ordinance	N	\$ 109,000.00		0.64	0.99	562.00	425.00	3,492.00	7.00	0.00	0.00	12.01
063000146	City of La Marque - Improve Regulations and Permit Requirements	N	\$ 109,000.00		3.75	9.13	829.00	767.00	1,612.00	8.00	1.00	1.00	31.11
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	N	\$ 109,000.00		1.59	0.00	1,006.00	978.00	1,721.00	6.00	0.00	0.00	9.64

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

[illegible]

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

Reduction in Flood Risk															
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000139	City of Clear Lake Shores - Implement Stormwater Management Practices	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.20	N	0.00	0.00
063000140	City of Clear Lake Shores - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.20	N	0.00	5.00
063000142	City of Hitcock - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.55	N	0.00	5.00
063000143	City of Jamicia Beach - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.03	N	0.00	5.00
063000144	City of Kemah - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00
063000145	City of Kemah - Update Floodplain Ordinance	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.42	N	0.00	5.00
063000146	City of La Marque - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.67	N	0.00	5.00
063000148	City of Tiki Island - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.14	N	0.00	5.00

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC12s	Watersheds	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	Update and/or develop regulations and permits to address hazards prone to the area and include any changes in future development area	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200	06000108, 06000107	Preparedness	17.04	Riverine, Urban/Local	City of Santa Fe	Galveston, Santa Fe
063000152	City of Galveston Land Use Mapping	Develop proposed land use mapping to allow easier consideration of hazards	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Preparedness	211.08	Urban/Local	City of Galveston	Galveston, City of Galveston
063000153	City of Galveston Freeboard Requirement Enforcement	Consider adoption and enforcement of freeboard requirement into City's Flood Damage Prevention Ordinance	06000001, 06000007, 06000010, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Preparedness	211.08	Riverine, Urban/Local	City of Galveston	Galveston, City of Galveston
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	Projects submitted as part of the CDBG MIT grant in Greens Bayou including Projects: Fountainview Sec 1&2, Castlewood Sec 3&4, North Forest, Mid-Reach Greens, Parkland Estates, and Humble Road Place.	06000001, 06000005, 06000006, 06000015	Harris			Comprehensive	165.69	Urban/Local	Harris County Flood Control District (HCFCDD)	Harris, Harris County Flood Control District, Houston
063000201	City of Alvin Unified Development Ordinance	A unified land development code combines all land use controls into a single document with a logical structure that is user friendly. Cost is time, data and preparation of a unified land development code.	06000001, 06000007, 06000010, 06000015	Brazoria, Galveston, Fort Bend	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Preparedness	25.09	Urban/Local	City of Alvin	Brazoria, Alvin

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

					Flood Risk								
FMP ID	FMP Name	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical Facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (miles)
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	N	\$ 109,000.00		0.68	2.37	400.00	306.00	798.00	1.00	9.00	9.00	4.12
063000152	City of Galveston Land Use Mapping	N	\$ 11,000.00		76.41	2.28	21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63
063000153	City of Galveston Freeboard Requirement Enforcement	N	\$ 100,000.00		76.41	2.28	21,858.00	19,143.00	93,583.00	509.00	0.00	0.00	408.63
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	N	\$ 120,284,000.00		34.46	22.94	6,644.00	4,979.00	82,257.00	112.00	2.00	2.00	1,557.84
063000201	City of Alvin Unified Development Ordinance	N	\$ 100,000.00		8.79	0.87	3,445.00	2,605.00	21,569.00	18.00	0.00	0.00	56.81

Appendix 4-5: Table 13 - Potentially Feasible Flood Mitigation Projects Identified by RFPG

		Reduction in Flood Risk													
FMP ID	FMP Name	Estimated length of roads removed from 100-year flood risk (miles)	Estimated farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if applicable)	Pre-Project Level of Service	Post-Project Level of Service	Cost/Structure removed	Percent Nature-Based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Traffic Count for Low Water Crossings	BCR
063000149	City of Santa Fe - Improve Regulations and Permit Requirements	0.00	0.00			Unknown	0.01	0.00	0.00	N	N	0.35	N	0.00	5.00
063000152	City of Galveston Land Use Mapping	0.00	0.00			Varies by Roadways	Unknown	0.00	0.00	N	N	0.42	N	0.00	0.00
063000153	City of Galveston Freeboard Requirement Enforcement	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.42	N	0.00	5.00
063000167	Greens CDBG MIT Projects: Castlewood, Fountainview, Humble Rd Place, North Forest, Mid-Reach	2,501,851.00	-3.22			Unknown	Unknown	0.00	0.00	N	N	0.70	N	0.00	2.13
063000201	City of Alvin Unified Development Ordinance	0.00	0.00			Unknown	Unknown	0.00	0.00	N	N	0.51	N	0.00	5.00

Appendix 4-6:
Table 14 - Potential FMSs

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000001	City of Bellaire Roadway and Drainage Improvements	Increase the size of existing storm water drainage culverts in Bellaire while continuing to utilize drainage impact when selecting and designing roads to be reconstructed to strategically account for storage and conveyance.	06000001, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Bellaire, Harris County Flood Control District	N	3,000,000	
062000002	City of Bellaire Resident Property Support	Ensure adequate city resources are in place to assist residents when applying for buy-out and elevation grants.	06000001, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Bellaire	N	50,000	
062000003	City of Bellaire Commercial Drainage Requirements	Develop Bellaire specific commercial drainage requirements.	06000001, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	50,000	
062000004	City of Bellaire Surrounding Area Detention and Drainage Improvements	Contact surrounding municipalities and the agencies that own the storm sewers to consider upgrading their storm sewers and providing more detention.	06000001, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Other	3.58	Urban/Local	City of Bellaire	Harris, Harris County Flood Control District, Bellaire	N	100,000	
062000005	City of Bellaire Floodwater Public Awareness Initiatives	Periodically distribute messages to residents warning of dangers of walking or playing in floodwaters. Develop a plan with local schools to educate children to avoid walking, playing, or riding bicycles in floodwaters.	06000001, 06000005, 06000006, 06000010, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Education and Outreach	3.58	Urban/Local	City of Bellaire	Bellaire	N	50,000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000001	City of Bellaire Roadway and Drainage Improvements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000002	City of Bellaire Resident Property Support	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000003	City of Bellaire Commercial Drainage Requirements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000004	City of Bellaire Surrounding Area Detention and Drainage Improvements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000005	City of Bellaire Floodwater Public Awareness Initiatives	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000001	City of Bellaire Roadway and Drainage Improvements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000002	City of Bellaire Resident Property Support	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000003	City of Bellaire Commercial Drainage Requirements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000004	City of Bellaire Surrounding Area Detention and Drainage Improvements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000005	City of Bellaire Floodwater Public Awareness Initiatives	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000006	City of Bunker Hill Community Outreach	Community Outreach (flooded street identification, marking and signage)	06000001, 06000005, 06000006, 06000010, 06000015	Harris	120401040303	06000080	Education and Outreach	1.44	Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village	N	100,000	
062000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	Minimize the risk of dam/levee failure and related damage to existing and proposed structures by monitoring the maintenance and inspection schedules.	06000001,06000015	Harris	120401040303	06000080	Other	1.44	Riverine, Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Houston, Bunker Hill Village	N	500,000	
062000008	Harris County Hazard Mitigation Action AW-3	Utilizing the existing public outreach capability to develop, deploy, and disseminate targeted outreach projects promoting risk communication, mitigation and resilience to all the hazards of concern.	06000001, 06000005, 06000006, 06000010, 06000015	Harris	N/A	N/A	Education and Outreach	1,770.82	Riverine, Urban/Local	Harris County	Harris	N	100,000	
062000009	Harris County Hazard Mitigation Action AW-4	Strive to capture time-sensitive data such as high-water marks, extent and location of hazard, and loss information to support future updates to risk assessments as well as other plans and programs that utilize hazard extent data.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris	N	300,000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000006	City of Bunker Hill Community Outreach	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0
062000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0
062000008	Harris County Hazard Mitigation Action AW-3	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000009	Harris County Hazard Mitigation Action AW-4	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000006	City of Bunker Hill Community Outreach	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000007	City of Bunker Hill Dam/Levee Maintenance and Monitoring Plan	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000008	Harris County Hazard Mitigation Action AW-3	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000009	Harris County Hazard Mitigation Action AW-4	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000010	Harris County Hazard Mitigation Action AW-5	Continue to develop, improve, and implement an enhanced mass public warning and alert system within the Harris County Joint Information Center to provide warning capability throughout Harris County to support the emergency management of all hazards.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris	N	100,000	
062000011	Harris County Hazard Mitigation Action AW-6	Utilize viable and relevant information, data and tools (Hazus models) developed as part of the update to the risk assessment of this plan update to support training and exercise of the County's preparedness, response and recovery programs.	06000001, 06000010, 06000015	Harris	N/A	N/A	Flood Measurement and Warning	1,770.82	Riverine, Urban/Local	Harris County	Harris	N	500,000	
062000012	City of Alvin CRS Application	Apply and once accepted maintain and/or improve CRS status. Cost is time, data and preparation of a CRS application. Benefit, if approved homeowner with flood insurance could receive a discount based on the City's CRS score.	06000001, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Other	15.74	Riverine, Urban/Local	City of Alvin	Brazoria, Alvin	N	25000	
062000013	Brazoria County Increased Cost of Compliance Education	Implement campaign on public education of ICC (Increased Cost of Compliance) coverage.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Education and Outreach	1,481.63	Riverine, Coastal, Urban/Local	Brazoria County	Brazoria	N	20000	
062000014	City of Galveston NFIP CRS Rating	Maintain membership of the NFIP's CRS	06000001, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Other	53.42	Riverine, Coastal, Urban/Local	City of Galveston	Galveston	N	10,000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG														
FMS ID	FMS Name	Flood Risk												
		Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000010	Harris County Hazard Mitigation Action AW-5	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000011	Harris County Hazard Mitigation Action AW-6	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000012	City of Alvin CRS Application	7.53	0.63	3,428	2,588	21,551	18	0	0	52.00	176.13	0	0	0
062000013	Brazoria County Increased Cost of Compliance Education	178.90	46.42	18,845	14,341	65,536	248	0	0	328.00	8,576.76	0	0	0
062000014	City of Galveston NFIP CRS Rating	49.33	2.26	23,123	20,373	93,965	513	0	0	408.00	262.80	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG															
Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000010	Harris County Hazard Mitigation Action AW-5	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000011	Harris County Hazard Mitigation Action AW-6	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000012	City of Alvin CRS Application	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000013	Brazoria County Increased Cost of Compliance Education	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000014	City of Galveston NFIP CRS Rating	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	Review planning needs annually to include, but not be limited to, CEMP, debris management, stormwater management, master plan, drainage, drought, GIS mapping, complete study to locate areas prone to expansive soils and land subsidence, etc.	06000001, 06000007, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Regulatory and Guidance	665.15	Riverine, Coastal, Urban/Local	Galveston County	Galveston	N	100000	
062000016	Waller County Elevation Certificate Requirement	Require and maintain FEMA elevation certificates for all new/improved building in the SFHA. Finished construction Ecs must be submitted prior to OSSF permitting.	06000001, 06000007, 06000010, 06000015	Waller	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Regulatory and Guidance	797.91	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	50,000	
062000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	Develop program to integrate with the Harris County Flood Control District for the purpose of optimizing the operation of the flood gates at second cut outlet.	06000001, 06000007, 06000010, 06000015	Galveston	120402040200, 120402040100	06000107, 06000106	Regulatory and Guidance	1.88	Riverine, Coastal, Urban/Local	City of Kemah	Galveston, Harris County Flood Control District, Kemah	N	100,000	
062000018	Galveston County-wide Education and Outreach	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06000001, 06000005, 06000006, 06000010, 06000015	Galveston, Harris	120402040300, 120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Education and Outreach	664.96	Riverine, Coastal, Urban/Local	Galveston County	Galveston	N	50000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	307.84	87.01	48,566	42,184	171,345	680	30	30	910.00	3,412.44	0	0	0
062000016	Waller County Elevation Certificate Requirement	61.21	10.47	505	437	657	1	2	2	25.00	180.47	0	0	0
062000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0.64	0.96	560	425	3,492	7	0	0	13.00	0.59	0	0	0
062000018	Galveston County-wide Education and Outreach	307.73	87.02	48,564	42,182	171,338	680	30	30	910.00	3,414.69	0	0	0

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000015	Develop Applicable Plans and Studies to Address Hazard Mitigation in Galveston County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000016	Waller County Elevation Certificate Requirement	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000017	Develop Program to Optimize Operation of the Flood Gates at Second Cut Outlet in City of Kemah	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000018	Galveston County-wide Education and Outreach	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000019	Public Information and Awareness in City of New Waverly	Rewrite, improve, and implement new local floodplain regulations, to include a public information campaign on regulatory awareness.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401030101	06000046	Education and Outreach	2.21	Urban/Local	City of New Waverly	Walker, New Waverly	N	10,000	
062000020	Promotion of Flood Insurance in City of Arcola	Promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the NFIP.	06000001, 06000005, 06000006, 06000010, 06000015	Fort Bend	120402040400	06000109	Education and Outreach	2.60	Riverine, Urban/Local	City of Arcola	Fort Bend, Arcola	N	50000	
062000021	City of Todd Mission Public Outreach & Education	Provide educational information related to preparedness, mitigation, response, and recovery to the public.	06000001, 06000005, 06000006, 06000010, 06000015	Grimes	120401020203, 120401020206	06000035, 06000038	Education and Outreach	1.95	Riverine, Urban/Local	City of Todd Mission	Todd Mission	N	20000	
062000022	Increase Public Awareness of Hazards in City of Arcola	Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards.	06000001, 06000005, 06000006, 06000010, 06000015	Fort Bend	120402040400	06000109	Education and Outreach	2.60	Riverine, Urban/Local	City of Arcola	Arcola	N	50000	
062000023	Expand Development of Emergency Notification System in Liberty County	Expand development of emergency notification system/work to establish public awareness of emergency notification process.	06000001, 06000005, 06000006, 06000010, 06000015	Liberty	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Education and Outreach	1,169.77	Riverine, Urban/Local	Liberty County	Liberty	N	10000	
062000025	Galveston County Stormproof/Retr ofit Infrastructure	Stormproof/retrofit critical facilities and infrastructure for county-owned properties and unincorporated areas.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Infrastructur e Projects	665.24	Riverine, Coastal, Urban/Local	Galveston County	Galveston, Galveston	Y	5000000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000019	Public Information and Awareness in City of New Waverly	0.29	0.08	23	18	19	0	0	0	0.00	0.90	0	0	0
062000020	Promotion of Flood Insurance in City of Arcola	0.08	0.00	41	37	39	0	0	0	0.00	1.23	0	0	0
062000021	City of Todd Mission Public Outreach & Education	0.31	0.00	20	11	25	0	0	0	0.00	1.28	0	0	0
062000022	Increase Public Awareness of Hazards in City of Arcola	0.08	0.00	41	37	39	0	0	0	0.00	1.23	0	0	0
062000023	Expand Development of Emergency Notification System in Liberty County	84.49	27.97	3,617	2,271	4,854	8	7	7	144.00	1,379.38	0	0	0
062000025	Galveston County Stormproof/Retr ofit Infrastructure	307.85	87.04	48,564	42,183	171,340	680	30	30	909.00	3,415.79	0	0	0

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000019	Public Information and Awareness in City of New Waverly	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000020	Promotion of Flood Insurance in City of Arcola	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000021	City of Todd Mission Public Outreach & Education	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000022	Increase Public Awareness of Hazards in City of Arcola	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000023	Expand Development of Emergency Notification System in Liberty County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000025	Galveston County Stormproof/Retr ofit Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000026	Implement Stormwater Management Plan in City of Bayou Vista	Implement stormwater management plan to improve drainage during flood and other weather events.	06000001, 06000007, 06000015	Galveston	120402040200	06000107	Regulatory and Guidance	0.44	Riverine, Coastal, Urban/Local	City of Bayou Vista	Bayou Vista	N	25000	
062000027	Walker County Public Information and Awareness	Purchase high water (flood) indicators for low water river crossing for county roads.	06000001, 06000010, 06000015	Walker	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Flood Measurement and Warning	797.69	Riverine, Urban/Local	Walker County	Walker	N	500000	
062000028	City of Bayou Vista Severe Weather Warning Systems	Purchase and install severe weather warning systems	06000001, 06000010, 06000015	Galveston	120402040200	06000107	Flood Measurement and Warning	0.44	Riverine, Coastal, Urban/Local	City of Bayou Vista	Bayou Vista	N	35000	
062000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	Purchase and restore agricultural & natural lands at the headwater of Barker Reservoir. Manage land for agricultural use, restore native landscape like grasslands and wetlands, and enhance management practices. Provides natural flood mitigation benefits.	06000001, 06000013, 06000014	Waller	120401020103, 120401040101	06000028, 06000071	Property Acquisition and Structural Elevation	1.76	Riverine, Urban/Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	33000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000026	Implement Stormwater Management Plan in City of Bayou Vista	0.44	0.00	1,121	1,095	1,500	3	0	0	8.00	0.00	0	0	0
062000027	Walker County Public Information and Awareness	61.21	10.47	505	437	657	1	2	2	25.00	180.47	0	0	0
062000028	City of Bayou Vista Severe Weather Warning Systems	0.44	0.00	1,121	1,095	1,500	3	0	0	8.00	0.00	0	0	0
062000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000026	Implement Stormwater Management Plan in City of Bayou Vista	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000027	Walker County Public Information and Awareness	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000028	City of Bayou Vista Severe Weather Warning Systems	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000029	Natural Infrastructure Project Barker Reservoir Headwater Acquisition and Restoration	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000030	Natural Infrastructure Project Mound Creek Conservation	Purchase conservation easement from landowner to permanently conserve as agricultural/natural areas. KPC to ensure land remains undeveloped agricultural land and maintain conservation. Would provide multiple benefits such as flood mitigation, and more.	06000001, 06000013, 06000014	Harris, Waller	120401020103, 120401020101	06000028, 06000026	Property Acquisition and Structural Elevation	3.29	Riverine, Urban/Local	Coastal Prairie Conservancy	Harris, Waller, Harris County Flood Control District	N	32000000	
062000031	Brazoria County Structure Elevation	Elevate structures in flood zone. Over 70% of these structures are pre-firm and do not meet current FEMA elevation standards. FEMA estimates that over 400 structures may be substantially damaged and must be elevated to meet current standards	06000001, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	60000000	
062000032	Brazoria County Non-structural Mitigation / Land Preservation	Up to 35,0000 acres of land could be purchased to help reduce the impacts of natural hazards by converting the space to floodwater storage, groundwater recharge, erosion, drought mitigation, in the form of public green space.	06000001, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	Y	65000000	
062000033	City of Bellaire Flood Rescue Plan	Develop a plan to address rescues from one-story homes and older two-story homes. Develop a plan to evacuate disabled/physically impaired/elderly individuals from homes in advance of anticipated high rainfall events. (Bellaire Fire Department)	06000001, 06000007, 06000010, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Regulatory and Guidance	3.58	Riverine, Urban/Local	City of Bellaire	Bellaire	N	200000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000030	Natural Infrastructure Project Mound Creek Conservation	1.85	0.05	0	0	0	0	0	0	0.00	41.39	0	0	0
062000031	Brazoria County Structure Elevation	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000032	Brazoria County Non-structural Mitigation / Land Preservation	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000033	City of Bellaire Flood Rescue Plan	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000030	Natural Infrastructure Project Mound Creek Conservation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000031	Brazoria County Structure Elevation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000032	Brazoria County Non-structural Mitigation / Land Preservation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000033	City of Bellaire Flood Rescue Plan	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	Implement an outreach and education campaign to educate the public on mitigation techniques for dam and levee failure to reduce loss of life and property.	06000001, 06000005, 06000006, 06000010, 06000015	Brazoria	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Education and Outreach	1,481.87	Riverine, Urban/Local, Coastal	Brazoria County	Brazoria, Alvin, Iowa Colony, Pearland	N	20000	
062000035	Amending Grimes County Floodplain Ordinance	Prohibit the building of any new structures located down-stream of high hazard dams by amending the floodplain ordinance.	06000001, 06000007, 06000015	Grimes	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Regulatory and Guidance	798.87	Riverine, Urban/Local	Grimes County	Grimes, Todd Mission	N	20000	
062000036	Grimes County Property Acquisition	Per NFIP participation, the acquisition of structures located in the 100-year flood plain and in dam inundation areas.	06000001, 06000015	Grimes	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Property Acquisition and Structural Elevation	798.87	Riverine, Urban/Local	Grimes County	Grimes, Todd Mission	Y	95000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	179.06	46.51	18,848	14,344	65,547	248	0	0	328.00	8,584.16	0	0	0
062000035	Amending Grimes County Floodplain Ordinance	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0
062000036	Grimes County Property Acquisition	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000034	Brazoria County Dam and Levee Failure Outreach and Education campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000035	Amending Grimes County Floodplain Ordinance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000036	Grimes County Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	Acquire homes located down-stream of high hazard dams	06000001, 06000015	Grimes	120401010101, 120401010301, 120401010302, 120401010303, 120401010103, 120401010304, 120401010305, 120401010306, 120401020202, 120401020203, 120401020207, 120401020206	06000001, 06000012, 06000013, 06000014, 06000003, 06000015, 06000016, 06000017, 06000034, 06000035, 06000039, 06000038	Property Acquisition and Structural Elevation	798.87	Riverine, Urban/Local	Grimes County	Walker	Y	1000000	
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	Acquire flood loss properties and properties prone to flooding in the Deep River Plantation Subdivision.	06000001, 06000015	Walker	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Property Acquisition and Structural Elevation	797.84	Riverine, Urban/Local	Walker County	Walker	Y	5000000	
062000039	City of Santa Fe Stormproof/reetrofit New Critical Infrastructure	New construction and existing critical facilities and infrastructure should include advanced mitigation techniques.	06000001, 06000007, 06000015	Galveston	120402040300, 120402040200	06000108, 06000107	Regulatory and Guidance	17.04	Riverine, Urban/Local	City of Santa Fe	Santa Fe	N	5000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	24.84	3.89	145	76	120	0	1	1	11.00	151.27	0	0	0
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000039	City of Santa Fe Stormproof/reetrofit New Critical Infrastructure	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000037	Property Acquisition Down-Stream of High Hazard Dams in Grimes County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000038	Walker County Property Acquisition in Deep River Plantation Subdivision	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000039	City of Santa Fe Stormproof/retr ofit New Critical Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000040	Waller County Drainage System Maintenance	Project will clear obstacles, widen and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding in all participating jurisdictions.	06000001, 06000003, 06000004, 06000015	Waller	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Infrastructure Projects	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	0	2500000	
062000041	Waller County Flood Hazard Public Information Campaign	Posting of signage at high profile locations and use of social media to communicate threats/concurs. Flood gauges for common flooded road crossings. Burn ban signs.	06000001, 06000005, 06000006, 06000010, 06000015	Waller	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Education and Outreach	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	20000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000040	Waller County Drainage System Maintenance	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0
062000041	Waller County Flood Hazard Public Information Campaign	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000040	Waller County Drainage System Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000041	Waller County Flood Hazard Public Information Campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000042	Waller County Freeboard Requirement Update	The county may increase its freeboard requirement to 24-in from 18-in above the base flood elevation. County may require that all new lots within a platted subdivision be located fully outside of the floodplain. Applicable to all floodplain development.	06000001, 06000007, 06000015	Waller	120401020102, 120401020103, 120401020204, 120401020101, 120401020201, 120401020202, 120401020203, 120401020205, 120401020207, 120401020206, 120401040102, 120401040103, 120401040101, 120401040203	06000027, 06000028, 06000036, 06000026, 06000033, 06000034, 06000035, 06000037, 06000039, 06000038, 06000072, 06000073, 06000071, 06000077	Regulatory and Guidance	515.95	Riverine, Urban/Local	Waller County	Waller, Waller, Hempstead, Brooksire, Brookshire Katy Drainage District, Katy	N	100000	
062000043	Install Outdoor Early warning System in Walker County	Install Outdoor Early warning System to provide citizens early warning of an impending disaster, or an event that would affect the life and/or property of the citizens.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly	N	850000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000042	Waller County Freeboard Requirement Update	28.48	5.59	1,067	708	2,410	6	19	19	41.00	1,357.32	0	0	0
062000043	Install Outdoor Early warning System in Walker County	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000042	Waller County Freeboard Requirement Update	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000043	Install Outdoor Early warning System in Walker County	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000044	Walker County Public Hazard Information and Awareness Campaign	The county and participating jurisdiction will create and implement an education campaign to educate the public on mitigation techniques for all hazards.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville, New Waverly	N	20000	
062000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	Retrofit and harden the Emergency Operations Center serving Walker county including city of Huntsville, New Waverly, and Riverside.	06000001, 06000005, 06000006, 06000010, 06000015	Walker	120401010104, 120401010101, 120401010102, 120401010103, 120401010201, 120401010202, 120401010203, 120401010204, 120401030101, 120401030106, 120401030303, 120401030305, 120401030301, 120401030302	06000004, 06000001, 06000002, 06000003, 06000005, 06000006, 06000007, 06000008, 06000046, 06000051, 06000063, 06000065, 06000061, 06000062	Education and Outreach	797.84	Riverine, Urban/Local	Walker County	Walker, Huntsville	N	4000000	
062000046	City of Cleveland Drainage Maintenance	Removal of debris, silt and vegetation obstacles in drainageways. Project will clear obstacles, mow and reshape ditches, and upgrade culverts to restore adequate drainage to mitigate flooding	06000001, 06000003, 06000004, 06000015	Liberty, Montgomery, San Jacinto	120401030201, 120401030108, 120401030109, 120401030203, 120401030202, 120401030401	06000056, 06000053, 06000054, 06000058, 06000057, 06000069	Infrastructure Projects	18.74	Riverine, Urban/Local	City of Cleveland	Cleveland, San Jacinto, Montgomery	N	5000000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000044	Walker County Public Hazard Information and Awareness Campaign	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	61.21	10.47	505	437	657	1	2	2	25.00	180.46	0	0	0
062000046	City of Cleveland Drainage Maintenance	6.83	1.08	261	133	1,267	0	1	1	27.00	28.88	0	0	0

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000044	Walker County Public Hazard Information and Awareness Campaign	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000045	Retrofit and Harden the Emergency Operations Center Serving Walker County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000046	City of Cleveland Drainage Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000047	City of Hilcrest Village Land Acquisition	Purchase additional land for retention pond construction to mitigate flooding in flood zones.	06000001, 06000015	Brazoria	120402040400	06000109	Property Acquisition and Structural Elevation	0.44	Riverine, Urban/Local	City of Hillcrest Village	Hillcrest	Y	250000	
062000048	City of Manvel Property Acquisition	Acquire Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in the 100-year flood plain, as identified by FEMA and NFIP	06000001, 06000015	Brazoria	120402040200, 120402040400, 120402040100	06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	27.41	Riverine, Urban/Local	City of Manvel	Manvel	Y	1700000	
062000049	City of Bellaire Flood Early Warning System Improvements	Provide more flood-hardened rain and flood stage gages for better flood forecasting to determine if additional improvements to Brays Bayou are possible beyond Project Brays to further increase capacity.	06000001, 06000010, 06000015	Harris	120401040402, 120401040401	06000084, 06000083	Flood Measurement and Warning	3.58	Riverine, Urban/Local	City of Bellaire	Bellaire, Harris County Flood Control District	N	150000	
062000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals.	Debris generated by many hazards if the level of intensity allows. Implement plan to remove debris throughout the canal system especially since Bayou Vista is a residential canal community.	06000001, 06000003, 06000004, 06000015	Galveston	120402040200	06000107	Infrastructure Projects	0.45	Riverine, Urban/Local, Coastal	City of Bayou Vista	Bayou Vista	N	100000	
062000051	Maintain Drainage Systems and Culverts in City of Friendswood	Clean & recut drainage ditches, complete work orders related to conveyance systems. Pursue sub-regional drainage improvements.	06000001, 06000003, 06000004, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Infrastructure Projects	20.83	Riverine, Urban/Local	City of Friendswood	Friendswood, Harris, Galveston	N	1400000	
062000052	City of League City Property Acquisition and Relocation	Buying and removing property from the floodplain will reduce long-term, repetitive flood loss. The open space created by the removal of insured property will facilitate drainage and allow for the creation of recreation areas.	06000001, 06000015	Galveston, Harris	120402040200, 120402040100	06000107, 06000106	Property Acquisition and Structural Elevation	52.89	Riverine, Urban/Local	City of League City	League City	Y	300000000	

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000047	City of Hilcrest Village Land Acquisition	0.19	0.04	128	121	333	1	0	0	2.00	0.13	0	0	0
062000048	City of Manvel Property Acquisition	8.41	0.78	1,250	966	8,190	8	0	0	43.00	178.80	0	0	0
062000049	City of Bellaire Flood Early Warning System Improvements	2.96	0.54	5,879	5,539	37,604	71	0	0	71.00	0.15	0	0	0
062000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals.	0.45	0.00	1,122	1,095	1,502	3	0	0	8.00	0.00	0	0	0
062000051	Maintain Drainage Systems and Culverts in City of Friendswood	5.12	2.80	1,680	1,601	5,467	2	5	5	38.00	18.37	0	0	0
062000052	City of League City Property Acquisition and Relocation	16.74	10.14	5,251	4,835	20,978	25	2	2	105.00	1,308.19	0	0	0

		Reduction in Flood Risk													
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000047	City of Hilcrest Village Land Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000048	City of Manvel Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000049	City of Bellaire Flood Early Warning System Improvements	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000050	City of Bayou Vista Management Practices for Securing Windblown Debris in Canals.	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000051	Maintain Drainage Systems and Culverts in City of Friendswood	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000052	City of League City Property Acquisition and Relocation	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	Harden existing critical facilities and infrastructure. Specifically City Hall, Maintenance Building, Library, and Community Center.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300, 120402040200	06000108, 06000107	Infrastructure Projects	17.04	Riverine, Urban/Local	City of Santa Fe	Santa Fe	Y	2000000	
062000054	City of Santa Fe - Drainage System Maintenance	Keep areas of concern free of unnecessary debris as needed. Implement and maintain tree, vegetation trimming/removal near, infrastructure, drainage systems and roadside areas.	06000001, 06000003, 06000004, 06000015	Galveston	120402040300, 120402040200	06000108, 06000107	Infrastructure Projects	17.04	Urban/Local	City of Santa Fe	Santa Fe	N	5000	
062000055	Liberty County Floodplain Acquisition	Acquisition of property in the floodplain.	06000001, 06000015	Liberty	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	664.95	Riverine, Urban/Local	Liberty County	Liberty, Dayton	Y	750000	
062000056	City of Galveston Floodplain Manager Increase	Increase and maintain number of floodplain managers in the building division through training and certification.	06000001, 06000007, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Regulatory and Guidance	211.08	Riverine, Urban/Local, Coastal	City of Galveston	Galveston	N	10000	
062000057	City of Galveston SRL and RL Property Mitigation	Elevation, acquisition or other mitigation of identified Repetitive Loss and Severe Repetitive Loss properties and structures damaged by flooding.	06000001, 06000015	Galveston	120402040300, 120402040200, 120402040400, 120402040500	06000108, 06000107, 06000109, 06000110	Property Acquisition and Structural Elevation	211.08	Riverine, Urban/Local, Coastal	City of Galveston	Galveston, Galveston	Y	80000	
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	Non-structural mitigation measure - buried powerlines, tree management and generators	06000001,06000015	Harris	120401040303	06000080	Other	1.44	Riverine, Urban/Local	City of Bunker Hill Village	Harris, Harris County Flood Control District, Bunker Hill Village,	N	100000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0
062000054	City of Santa Fe - Drainage System Maintenance	0.68	2.37	400	306	798	1	9	9	4.00	12.12	0	0	0
062000055	Liberty County Floodplain Acquisition	307.76	87.02	48,570	42,185	171,395	681	30	30	910.00	3,412.02	0	0	0
062000056	City of Galveston Floodplain Manager Increase	76.41	2.28	21,858	19,143	93,583	509	0	0	409.00	260.88	0	0	0
062000057	City of Galveston SRL and RL Property Mitigation	76.41	2.28	21,858	19,143	93,583	509	0	0	409.00	260.88	0	0	0
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000053	City of Santa Fe - Harden Existing Critical Facilities and Infrastructure	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000054	City of Santa Fe - Drainage System Maintenance	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000055	Liberty County Floodplain Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000056	City of Galveston Floodplain Manager Increase	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000057	City of Galveston SRL and RL Property Mitigation	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000058	City of Bunker Hill Village Non-Structural Mitigation Projects	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000059	Hardening of Critical Facilities in City of Mission Todd	Protecting critical facilities such as hospitals, fire stations, police stations and water treatment plants can help keep them operational during severe storms.	06000001, 06000003, 06000004, 06000015	Grimes	120401020203, 120401020206	06000035, 06000038	Infrastructure Projects	2.00	Riverine, Urban/Local	City of Todd Mission	Grimes, Todd Mission	Y	25000	
062000060	Harris County Mitigation Buyout and Relocation Program	This program is designed to assist owners whose properties were damaged by a natural disaster and or in an area that is designated hopelessly deep in the floodplain and repetitively flooded, to relocate outside the threat of flooding.	06000001, 06000015	Harris	N/A	N/A	Property Acquisition and Structural Elevation	1,770.82	Riverine, Urban/Local, Coastal	Harris County	Harris, Houston, Harris County Flood Control District	Y	75000000	
062000061	City of Alvin Full Time Floodplain Administrator	Hire a full-time floodplain administrator who can support CRS application, NFIP, mapping and community floodplain support. A dedicated employee could help the community obtain CRS status and full time flood plain support.	06000001, 06000007, 06000015	Brazoria, Galveston, Fort Bend	120402040300, 120402040200, 120402040400, 120402040100	06000108, 06000107, 06000109, 06000106	Regulatory and Guidance	25.09	Riverine, Urban/Local	City of Alvin	Alvin	N	100000	
062000062	City of Pearland SRL and RL Property Acquisition	Continue working with County and State officials to identify repetitive loss and severe repetitive loss properties, and pursue mitigation projects to reduce risk.	06000001, 06000015	Brazoria, Fort Bend, Harris	120401040501, 120402040200, 120402040400, 120402040100	06000085, 06000107, 06000109, 06000106	Property Acquisition and Structural Elevation	48.68	Riverine, Urban/Local	City of Pearland	Pearland, Brazoria, Brazoria County Drainage District 4	Y	100000	
062000063	Harris County Wide Voluntary Buyout Program	Targeted home buyouts to reduce flood damages in areas several feet deep in the floodplain where structural projects to reduce flooding are not cost-effective and/or beneficial.	06000001, 06000015	Harris	N/A	N/A	Property Acquisition and Structural Elevation	1,770.82	Riverine, Urban/Local, Coastal	Harris County Flood Control District (HCFCFCD)	Harris, Houston, Harris County Flood Control District	Y	500000000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000059	Hardening of Critical Facilities in City of Mission Todd	0.33	0.00	17	11	19	0	0	0	0.00	1.12	0	0	0
062000060	Harris County Mitigation Buyout and Relocation Program	444.51	200.09	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0
062000061	City of Alvin Full Time Floodplain Administrator	444.51	200.09	3,445	2,605	21,569	18	0	0	57.00	262.30	0	0	0
062000062	City of Pearland SRL and RL Property Acquisition	3.75	9.13	4,791	3,666	20,157	22	0	0	76.00	137.47	0	0	0
062000063	Harris County Wide Voluntary Buyout Program	84.53	27.97	143,642	120,807	976,798	2,332	89	89	2,408.00	5,993.47	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000059	Hardening of Critical Facilities in City of Mission Todd	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000060	Harris County Mitigation Buyout and Relocation Program	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000061	City of Alvin Full Time Floodplain Administrator	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000062	City of Pearland SRL and RL Property Acquisition	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000063	Harris County Wide Voluntary Buyout Program	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	HUC10s	Watersheds	Strategy Type	Strategy Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount
062000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	Grant funding through HMGP may be used to mitigate RFC and SRL properties. Mitigation option will be implemented with property owners as funding and opportunities arise.	06000001, 06000011, 06000012, 06000015	Galveston	120402040200	06000107	Property Acquisition and Structural Elevation	14.23	Riverine, Urban/Local, Coastal	Galveston County	Galveston, Galveston, Jamaica Beach, Hitchcock, La Marque, Santa Fe, Texas City,	N	30000000	
062000065	Liberty County Regional Coordination	Work with adjoining counties regarding flooding and drainage issues.	06000001, 06000011, 06000012, 06000015	Liberty	120401030201, 120401030108, 120401030109, 120401030205, 120401030402, 120401030203, 120401030204, 120401030202, 120401030401, 120402030104, 120402030103, 120402030102, 120402030101	06000056, 06000053, 06000054, 06000060, 06000070, 06000058, 06000059, 06000057, 06000069, 06000102, 06000101, 06000100, 06000099	Other	1,169.92	Riverine, Urban/Local, Coastal	Liberty County	Liberty, Chambers, Harris, San Jacinto, Hardin	N	500000	

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

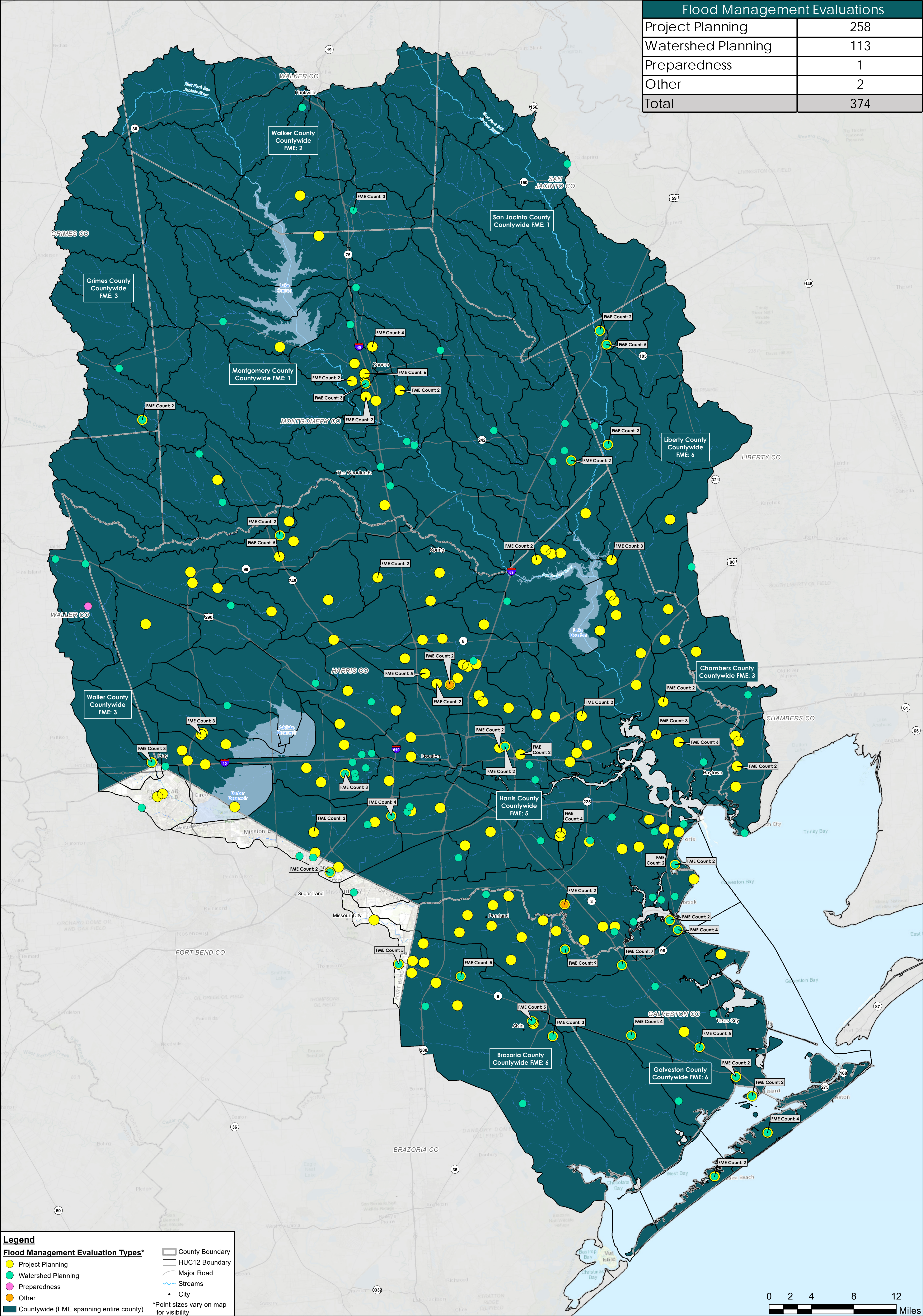
		Flood Risk												
FMS ID	FMS Name	Area in 100-year (1% annual chance) floodplain	Area in 500-year (0.2% annual chance) floodplain	Estimated number of structures at 100-year flood risk	Residential structures at flood risk	Estimated Population at flood risk	Critical Facilities at flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at flood risk (miles)	Estimated farm & ranch land at flood risk (acres)	Number of structures with reduced 100-year (1% annual chance) flood risk	Number of structures removed from 100-year (1% annual chance) flood risk	Number of structures removed from 500-year (0.2% annual chance) flood risk
062000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	8.79	0.87	829	767	1,612	8	1	1	31.00	37.85	0	0	0
062000065	Liberty County Regional Coordination	12.46	10.60	3,619	2,272	4,855	8	7	7	144.00	1,379.49	0	0	0

Appendix 4-6: Table 14 - Potentially Feasible Flood Mitigation Strategies Identified by RFPG

Reduction in Flood Risk															
FMS ID	FMS Name	Habitable structures removed from 100-year (1% annual chance) flood risk	Estimated population removed from 100-year (1% annual chance) flood risk	Critical facilities removed from 100-year (1% annual chance) flood risk (#)	Number of low water crossings removed from 100-year (1% Annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100-year flood risk (miles)	Estimated active farm & ranch land removed from 100-year flood risk (acres)	Estimated reduction in fatalities (if available)	Estimated reduction in injuries (if available)	Cost/Structure removed	Consideration of Nature-Based Solution (Y/N)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Water Supply Benefit (Y/N)
062000064	Mitigate Repetitive Flood Claim & Severe Repetitive Loss Properties in Galveston County	0	0	0	0	0	0	0	0	0	0	N	N	N	N
062000065	Liberty County Regional Coordination	0	0	0	0	0	0	0	0	0	0	N	N	N	N

Appendix 5-1:
Map 19 - Recommended FMEs

Flood Management Evaluations	
Project Planning	258
Watershed Planning	113
Preparedness	1
Other	2
Total	374



Legend

Flood Management Evaluation Types*

- Project Planning
- Watershed Planning
- Preparedness
- Other
- Countywide (FME spanning entire county)

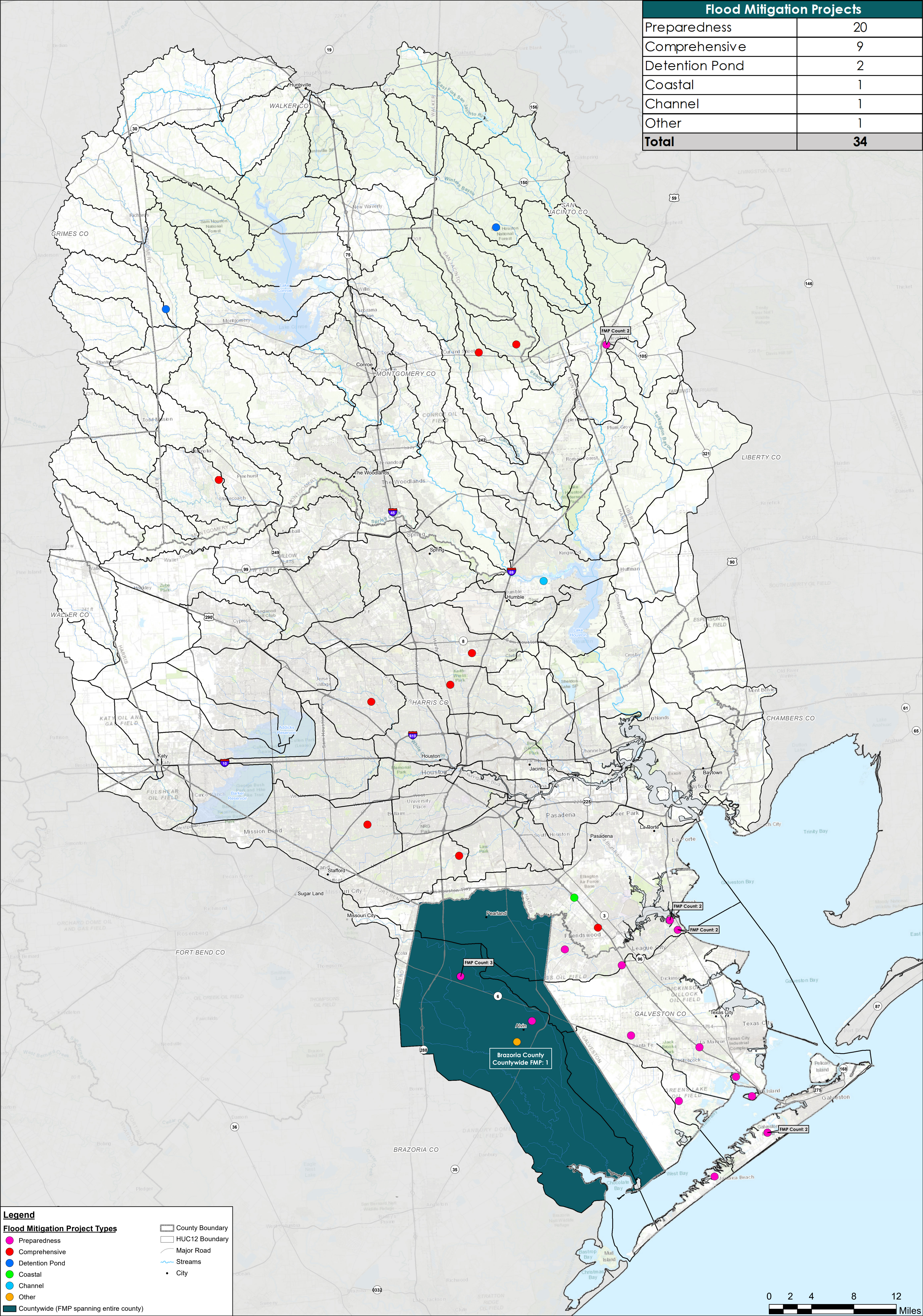
- County Boundary
- HUC12 Boundary
- Major Road
- Streams
- City

*Point sizes vary on map for visibility

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

Appendix 5-2:
Map 20 - Recommended FMPs

Flood Mitigation Projects	
Preparedness	20
Comprehensive	9
Detention Pond	2
Coastal	1
Channel	1
Other	1
Total	34



Legend

Flood Mitigation Project Types

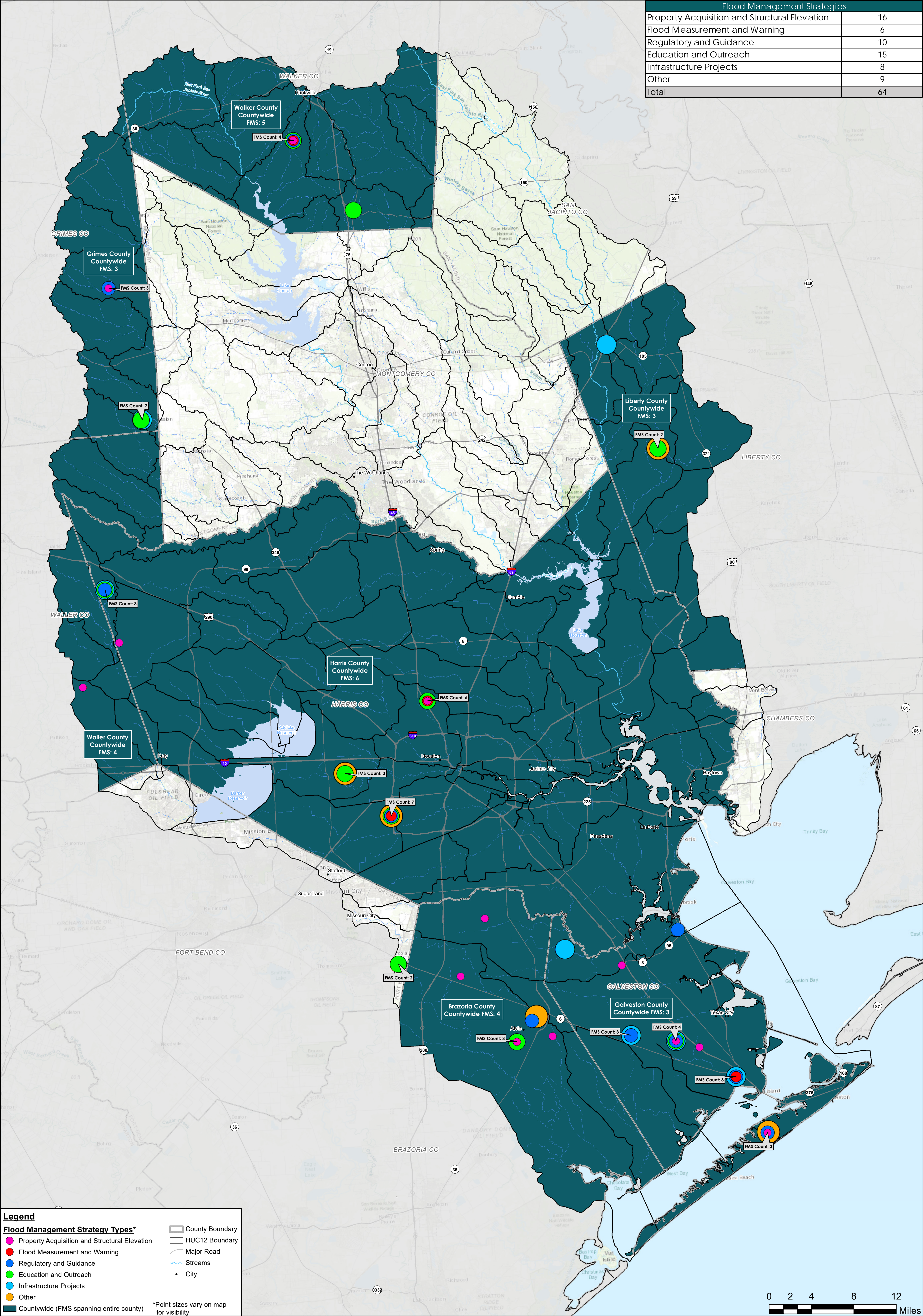
- Preparedness
- Comprehensive
- Detention Pond
- Coastal
- Channel
- Other
- Countywide (FMP spanning entire county)

- County Boundary
- HUC12 Boundary
- Major Road
- Streams
- City

Coordinate System: NAD 1983 2011 Texas Centric Mapping System Lambert

Appendix 5-3:
Map 21 - Recommended FMSs

Flood Management Strategies	
Property Acquisition and Structural Elevation	16
Flood Measurement and Warning	6
Regulatory and Guidance	10
Education and Outreach	15
Infrastructure Projects	8
Other	9
Total	64



Legend

Flood Management Strategy Types*

Property Acquisition and Structural Elevation

Flood Measurement and Warning

Regulatory and Guidance

Education and Outreach

Infrastructure Projects

Other

County Boundary

HUC12 Boundary

Major Road

Streams

City

Countywide (FMS spanning entire county)

*Point sizes vary on map for visibility

Appendix 5-4:
Supplemental Source Documentation

Appendix 5-4A:
Non-Structural Flood Mitigation

APPENDIX 5-4A NONSTRUCTURAL FLOOD MITIGATION

The referenced report, Natural Hazard Mitigation Saves, can be accessed at the following location.

“Natural Hazard Mitigation Saves.” Principal Investigator Porter, K.; Co-Principal Investigators Dash, N., Huyck, C., Santos, J., Scawthorn, C.; Investigators: Eguchi, M., Eguchi, R., Ghosh., S., Isteita, M., Mickey, K., Rashed, T., Reeder, A.; Schneider, P.; and Yuan, J., Directors, MMC. Investigator Intern: Cohen-Porter, A., National Institute of Building Sciences, 2019.https://www.nibs.org/files/pdfs/NIBS_MMC_MitigationSaves_2019.pdf