

Appendix 5 – Evaluation and Recommendation of FMEs, FMSs, and FMPs

Appendix 5.1

Appendix 5.1: TWDB Table 15 - Recommended Flood Management Evaluations

TWDB Table 15 - Flood Management Evaluations Recommended by RFPG																				
General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000041	Fulshear Lakes Drainage Improvements	Design of drainage infrastructure to mitigate flooding in Fulshear Lake development.	08000009	Fort Bend	Feasibility Assessment	1.0	Riverine	City of Fulshear	\$151,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	68.8	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000042	Lea/Penn and Red Bird Lane Improvements	Design of diversion channel and road construction to reduce flooding and provide access to neighborhoods.	08000009	Fort Bend	Preliminary Engineering	14.0	Riverine, Urban	City of Fulshear	\$262,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	80	47	141	0	0	1.6	9	1,414.1	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000044	Sienna South Levee System Drainage	Design of lake and channel modifications to mitigate development in the area.	08000009	Fort Bend	Feasibility Assessment	10.6	Riverine, Urban	Sienna LID	\$320,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	3.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000045	Sienna North Levee System Drainage	Design of channel improvements to mitigate flow caused by increased development.	08000009	Fort Bend	Feasibility Assessment	4.4	Riverine	Sienna LID	\$236,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	1	1.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000047	Sugar Creek Drainage Improvements	Design of storm drain updates throughout neighborhood.	08000009	Fort Bend	Preliminary Engineering	42.8	Riverine	City of Sugar Land	\$388,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	442	350	835	2	0	18.4	96	1,687.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000048	Covington Woods Jess Pirtle Bridge Channel Improvements	Determination of necessary repairs to ditch A-22 channel flow line	08000009	Fort Bend	Preliminary Engineering	34.6	Riverine, Urban	City of Sugar Land	\$111,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,300	1,205	4,489	2	0	19.3	143	1,142.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000057	Chimneystone, Austin, and Settlers Parks Improvements Phase II	Design of new concrete channel and storm drain improvements.	08000009	Fort Bend	Preliminary Engineering	1.1	Riverine, Urban	City of Sugar Land	\$288,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000058	Sugar Lakes Drainage Improvements	Determination of necessary storm drain improvements and lake control structure modifications.	08000009	Fort Bend	Preliminary Engineering	34.6	Urban	City of Sugar Land	\$348,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,300	1,205	4,489	2	0	19.3	143	1,142.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000060	Sugar Creek Regional Detention	Update design to account for Atlas 14 rainfall.	08000009	Fort Bend	H&H Modeling	42.8	Urban	City of Sugar Land	\$300,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	442	350	835	2	0	18.4	96	1,687.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000061	Sugar Land Business Park Regional Detention	Update design to account for Atlas 14 rainfall.	08000009	Fort Bend	H&H Modeling	16.4	Urban	City of Sugar Land	\$300,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	195	144	726	2	0	12.6	77	856.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000075	Sugar Land MDP - Master Drainage Plan Updates	Review comprehensive plan goals, update detention facility ownership and assets, consider funding mechanisms, evaluate ranking criteria.	08000014	Fort Bend	Drainage Master Plans	42.8	Riverine, Urban	City of Sugar Land	\$534,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	442	350	835	2	0	18.4	96	1,687.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000091	Sugar Land Citywide Flood Prevention & Drainage Studies	Study to determine how to replace B-B inlets with C-2 or H2 inlets in areas of ponding and structural risk.	08000014	Fort Bend	Preliminary Engineering	42.8	Riverine, Urban, Coastal	City of Sugar Land	\$219,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	442	350	835	2	0	18.4	96	1,687.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000226	Bee Creek Basin Detention Pond	Design of detention facility to contain and mitigate flooding.	08000009	Brazos	Preliminary Engineering	8.8	Riverine, Urban	City of College Station	\$111,000	Local, TWDB FIF, FEMA FMA	66	47	217	1	8	2.1	19	75.1	Yes	Provided by sponsor and is in line with the TWDB requirements.

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FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000646	Briar Creek Improvements	Channel and crossing improvements along Briar Creek and Red River Trib to increase capacity of hydraulic infrastructure.	08000014	Brazos	Preliminary Engineering	2.8	Riverine	City of Bryan	\$364,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	100	93	191	0	5	1.9	15	7.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000657	Briarcreek Court Flooding	Study to determine source and mitigation for flooding in the subdivision.	08000014	Brazos	Preliminary Engineering	1.1	Urban	City of Bryan	\$83,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	77	73	160	0	2	1.0	9	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000663	Burton Creek Crossings	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	4.7	Riverine	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	276	224	1,179	1	5	2.8	36	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000669	Burton Creek Trib C Improvements	2-9'x5' box culverts are needed to replace the existing culverts in order to convey the 50-year storm event per the TxDOT design requirement. Channel widening and re-grading may be necessary to mitigate any adverse impacts.	08000009	Brazos	H&H Modeling	1.3	Riverine	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	20	20	49	0	0	0.2	1	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000671	Tract North of Carson Crossing	Channel and crossing improvements along Trib D feeding into County Club Lake.	08000014	Brazos	Preliminary Engineering	1.9	Riverine	City of Bryan	\$214,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	72	30	167	1	4	1.5	11	0.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000678	Burton Creek Main Stem Improvements	Channel and crossing improvements along Burton Creek mainstem from SH 6 to S Coulter Dr.	08000014	Brazos	Preliminary Engineering	6.6	Riverine	City of Bryan	\$514,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	348	254	1,235	2	9	4.3	47	0.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000686	Oakridge Drive and Barak Lake	Study to determine storm sewer needed to mitigate flooding in subdivision.	08000014	Brazos	Preliminary Engineering	1.1	Urban	City of Bryan	\$129,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	76	38	730	1	0	0.2	7	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000690	Burton Creek Trib 5 Mitigation	Design of erosion control and channel improvements for Trib 5 of Burton Creek.	08000014	Brazos	Preliminary Engineering	3.1	Riverine	City of Bryan	\$194,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	159	105	838	1	4	1.8	18	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000706	Briar Oaks Drive Storm Sewer Improvements	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	1.1	Urban	City of Bryan	\$50,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	76	38	730	1	0	0.3	7	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000716	Pecan Ridge Subdivision Flooding	Masterplan to determine source of flooding and identify potential solutions.	08000014	Brazos	Preliminary Engineering	2.9	Urban	City of Bryan	\$50,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	88	84	383	0	0	1.0	14	20.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000717	Old Reliance Road Overtopping	Study to determine design of culvert improvements.	08000014	Brazos	Preliminary Engineering	5.5	Urban	City of Bryan	\$51,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	130	119	397	0	2	1.4	18	90.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000718	Castle Heights Subdivision Flooding	Study to determine necessary detention, storm sewer, and other drainage improvements for Castle Heights subdivision.	08000014	Brazos	Preliminary Engineering	1.6	Urban	City of Bryan	\$221,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	39	31	11	0	0	0.2	6	64.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000719	Carter's Creek Trib B Improvements	Study to design culvert improvements along Carter's Creek Trib B.	08000014	Brazos	Preliminary Engineering	3.1	Riverine	City of Bryan	\$127,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	32	25	32	0	4	1.9	22	2.7	Yes	Provided by sponsor and is in line with the TWDB requirements.

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081000785	Andrus Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	H&H Modeling	5.3	Riverine, Local	Fort Bend County	\$300,000	Local, FEMA FMA, HUD CDBG-MIT	149	107.0	137	0	0	0.81	8	271.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000877	New Road to Homan Avenue Channel Improvements	Channel improvements to increase the conveyance capacity of the roadside ditch.	08000009	McLennan	H&H Modeling	1.1	Riverine, Local	City of Waco	\$300,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	17	8.0	93	0	0	1.72	0	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000881	Sharondale Drainage Improvements	Drainage infrastructure improvements to reduce flooding in the Sharondale area.	08000009	McLennan	Preliminary Engineering	1.7	Riverine, Urban	City of Waco	\$157,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	578	328	5,346	1	1	32.0	108	196.1	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000890	Loop 340 Berm & Frontage Road Improvements	Infrastructure improvements to lessen the impact of flood events on the intersection.	08000009	McLennan	H&H Modeling	5.6	Riverine, Local	City of Waco	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	24	8.0	138	0	0	0.85	0	151.8	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000921	City of Georgetown Increase River/Channel Flow Capacity	Increase flow by deepening and widening the channel.	08000009	Williamson	Feasibility Assessment	59.4	Riverine	City of Georgetown	\$606,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	175	123	1,526	0	6	18.7	82	1,792.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000922	City of Georgetown River Erosion Control	Reduce flood and erosion risk with riverbank stabilization and riverbank walls.	08000009	Williamson	Feasibility Assessment	59.4	Riverine	City of Georgetown	\$606,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	175	123	1,526	0	6	18.7	82	1,792.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000924	City of Georgetown Culvert Improvements	Increase size of culverts at key locations to adequately convey storm water.	08000009	Williamson	Feasibility Assessment	59.4	Riverine, Urban	City of Georgetown	\$606,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	175	123	1,526	0	6	18.7	82	1,792.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000926	Channel Stabilization	Stabilize channel at inner loop culverts.	08000009	Williamson	Feasibility Assessment	47.5	Riverine	City of Georgetown	\$556,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	366	282	795	0	9	19.3	102	2,627.1	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000934	Low Water Crossing Monitoring & Mitigation	Install automated warning devices or elevate 2 low water crossings on CR 305.	08000007	Williamson	Feasibility Assessment	3.4	Riverine	City of Jarrell	\$217,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	1	0	2	0	0	2.0	4	44.9	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000936	Lift Station Floodproofing	Flood proof city lift stations or improve culverts to lessen flood risk.	08000012	Williamson	Feasibility Assessment	3.4	Riverine, Urban	City of Jarrell	\$217,000	Local, TWDB FIF, FEMA HMGP, TWDB CWSRF, FEMA BRIC, FEMA FMA	1	0	2	0	0	2.0	4	44.9	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000939	Dam Emergency Action Plan	Complete EAPs for Sites 9, 29, 2, 3, 6, 7, 17, 18, and 25 to be in compliance with TCEQ standards.	08000014	Williamson	Study on Flood Preparedness	1131.5	Riverine	Lower Brushy Creek WCID	\$500,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	3,519	2,758	7,496	5	167	167.5	728	67,370	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000941	Mustang Creek Study	Detailed H&H modeling to mitigate flooding from Upper Mustang Creek on the City of Taylor.	08000014	Williamson	Regional Watershed Studies	55.2	Riverine	City of Taylor	\$290,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	111	71	199	0	13	6.6	51	4,157.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000942	Stream Crossing Upgrades	Upgrade crossings at CR 368, 369, 445, and 424.	08000007	Williamson	Feasibility Assessment	29.4	Riverine	City of Taylor	\$463,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	31	14	33	0	4	3.6	19	3,255.1	Yes	Provided by sponsor and is in line with the TWDB requirements.

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081000943	Lake Creek Structural Elevation	Elevate or floodproof structures currently in high risk areas. Use H&H modeling to prioritize properties.	08000009	Travis, Williamson	Feasibility Assessment	37.8	Riverine, Urban	City of Round Rock	\$510,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	234	192	698	1	11	5.0	57	414.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000944	Lake Creek Tributary 2	Develop H&H models for watershed and evaluate methods to provide flood protection to the area.	08000014	Travis, Williamson	Regional Watershed Studies	28.0	Riverine	City of Round Rock	\$166,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	224	195	1,458	1	13	7.2	45	151.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000945	Improve Chandler Branch Tributary	Channel improvements from Eagles Nest St to Settlement Dr.	08000009	Williamson	Feasibility Assessment	2.7	Riverine	City of Round Rock	\$202,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	21	18	38	0	1	0.4	13	9.8	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000950	Barker Street Neighborhood Improvements	Determine optimal drainage improvements to maximize flood protection for the area.	08000014	Travis, Williamson	Drainage Master Plans	25.6	Urban	City of Thrall	\$440,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	269	230	819	0	11	5.4	41	101.9	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000951	Brushy Creek Tributaries Study	Perform a detailed study of the Brushy Creek tributaries in the City of Thrall.	08000014	Williamson	Regional Watershed Studies	11.1	Riverine	City of Thrall	\$88,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	11	5	10	0	1	1.8	8	1,105.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000953	A21	Addition of in-line detention along Cottonwood Creek.	08000009	Williamson	Preliminary Engineering	10.8	Riverine, Urban	Upper Brushy Creek WCID	\$250,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	68	43	122	0	2	1.4	17	465.8	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000954	A12	New Broade Street off-channel detention.	08000009	Travis, Williamson	Preliminary Engineering	61.2	Riverine, Urban	Upper Brushy Creek WCID	\$257,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	388	325	1,064	0	20	8.5	81	215.8	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000955	Dam 101	Construction of dam to provide flood storage for Lake Creek.	08000009	Travis, Williamson	Preliminary Engineering	27.8	Riverine	Upper Brushy Creek WCID	\$1,262,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	224	195	1,458	1	13	7.2	44	151.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000956	Dam 102	Study to design dam to provide flood storage for Lake Creek.	08000009	Travis, Williamson	Preliminary Engineering	27.8	Riverine	Upper Brushy Creek WCID	\$1,000,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	224	195	1,458	1	13	7.2	44	151.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000957	620 Quarry Solution	Study to determine needed flood storage to address Lake Creek flooding.	08000009	Travis, Williamson	Preliminary Engineering	27.8	Riverine	City of Round Rock	\$877,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	224	195	1,458	0	13	7.2	44	151.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000958	Dam 14 Rehabilitation	Study to design erosion repairs for the downstream slope, mitigation for the longitudinal cracking on the dam crest, and auxiliary spillway improvements.	08000009	Williamson	Preliminary Engineering	24.3	Riverine	Upper Brushy Creek WCID	\$148,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	28	11	91	0	0	0.9	12	399.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000959	A14	Addition of in-line detention west of Dam 17.	08000009	Williamson	Preliminary Engineering	12.4	Riverine, Urban	Upper Brushy Creek WCID	\$250,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	8	3	216	0	2	0.7	9	426.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000960	A13	Addition of in-line detention between Dam 15 and 16.	08000009	Williamson	Preliminary Engineering	24.3	Riverine, Urban	Upper Brushy Creek WCID	\$250,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	28	11	91	0	0	0.9	12	399.4	Yes	Provided by sponsor and is in line with the TWDB requirements.

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081000973	Lower Oyster Creek Improvements	Channel bank fill and improvements to create smooth transitions between diversion, flume, and creek channels during large storm improvements.	08000009	Fort Bend	Preliminary Engineering	1.5	Riverine, Urban	Missouri City	\$54,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	30	26	58	0	0	3.4	18	372.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000976	Sugar Creek Watershed Analysis	Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.	08000014	Fort Bend	Regional Watershed Studies	2.2	Riverine	City of Sugar Land	\$50,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	26	14	165	0	0	2.3	18	1.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000978	Colony Bend, Colony Grant, Stephens Grant Drainage Improvements	Complete a drainage study, design, and construction of drainage improvements to reduce flooding risk in the neighborhoods.	08000009	Fort Bend	Preliminary Engineering	1.1	Urban	City of Sugar Land	\$421,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000979	City of Sugar Land Flood Innundation Mapping	Update of the Integrated Stormwater Management Model to include improvements to predictions in leveed areas.	08000014	Fort Bend	Regional Watershed Studies	42.8	Riverine	City of Sugar Land	\$233,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	442	350	835	2	0	18.4	96	1,687.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000980	Chimneystone, Austin, and Settlers Parks Improvements Phase III	Design and construct drainage improvements to Wagon Trail and Settlers Way in Settlers Park.	08000009	Fort Bend	Preliminary Engineering	1.1	Urban	City of Sugar Land	\$551,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000981	Sugar Creek East Ditch	Install box culverts in the Sugar Creek East Ditch for storm water control.	08000009	Fort Bend	Preliminary Engineering	2.2	Riverine	City of Sugar Land	\$253,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	26	14	165	0	0	2.3	18	1.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000982	Lakebend Sugar Creek Outfall & Drainage	Replace outfall structure and channel improvements at Sugar Creek & Parkway Blvd and upsize storm water systems.	08000009	Fort Bend	Preliminary Engineering	2.2	Riverine	City of Sugar Land	\$388,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	26	14	165	0	0	2.3	18	1.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000987	Telfair Inlet Replacements	Update storm water inlets.	08000009	Fort Bend	Preliminary Engineering	2.1	Urban	City of Sugar Land	\$73,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000988	Greatwood Inlet Replacements	Update storm water inlets.	08000009	Fort Bend	Preliminary Engineering	3.3	Urban	City of Sugar Land	\$82,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000989	New Territory Inlet Replacements	Update storm water inlets.	08000009	Fort Bend	Preliminary Engineering	3.2	Urban	City of Sugar Land	\$92,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	1	0.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000990	LID 2 Watershed Analysis	Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.	08000014	Fort Bend	Regional Watershed Studies	8.3	Riverine, Urban	City of Sugar Land	\$75,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	1.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081000999	Hudson Creek Regional Detention	Study to design regional detention upstream of Copperfield to mitigate flooding and maintenance problems.	08000014	Brazos	Feasibility Assessment	3.0	Riverine, Urban	City of Bryan	\$160,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	26	21	86	0	0	0.3	3	11.9	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.1: TWDB Table 15 - Recommended Flood Management Evaluations

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001003	Tennessee Avenue Crossing	A study and detailed design needs to be completed to assess the flooding and design culvert improvements to reduce road overtopping.	08000014	Brazos	Preliminary Engineering	3.9	Urban	City of Bryan	\$50,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	126	117	310	0	5	2.3	36	20.0	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001005	Lynndale Acres Ph 2: Old Hearne and McHaney Street	A study of the drainage area is needed to assess and propose improvements to reduce flooding in the area. As part of this study, alternatives should be recommended.	08000014	Brazos	Preliminary Engineering	1.9	Urban	City of Bryan	\$73,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	98	92	221	0	4	1.4	23	0.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001009	Thompsons Branch & SH 6 Drainage Improvements	Study to design several improvements to mitigate flooding at the crossing.	08000014	Brazos	Preliminary Engineering	27.6	Riverine, Urban	City of Bryan	\$137,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	7	6	3	0	3	2.0	6	978.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001015	Turkey Creek Drainage Improvements	Detailed design of improvements throughout the Turkey Creek watershed, especially to fix erosion problems.	08000014	Brazos	Preliminary Engineering	8.7	Riverine, Urban	City of Bryan	\$222,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	14	14	22	0	0	0.5	9	19.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001020	South For of Turkey Creek Improvements	Erosion control and crossing improvements along South Fork of Turkey Creek.	08000010	Brazos	Preliminary Engineering	8.7	Riverine, Urban	City of Bryan	\$61,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	14	14	22	0	0	0.5	9	19.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001021	Burton Creek Extension of Flood Study	Expansion of previous study to improve characterization of flood risk.	08000014	Brazos	Regional Watershed Studies	7.5	Riverine	City of Bryan	\$71,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	348	254	1,235	2	9	4.3	47	0.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001022	Thompson Creek Floodplain Study from RELLIS to HW 6 to Establish Floodway	Study of Thompson Creek to determine flood risk.	08000014	Brazos	Regional Watershed Studies	27.6	Riverine	City of Bryan	\$164,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	7	6	3	0	3	2.0	6	978.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001023	Study Wickson Creek for Floodplain/Floodway from FM 974 to Navasota River	Study of Wickerson Creek to determine flood risk.	08000014	Brazos	Regional Watershed Studies	87.7	Riverine	City of Bryan	\$436,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	52	45	39	0	4	5.2	25	3,488.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001027	Citywide FEMA Flood Study	City wide updates to floodplain mapping.	08000014	Brazos	Regional Watershed Studies	44.5	Riverine	City of Bryan	\$241,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	1,120	870	2,013	3	36	37.2	94	4,193.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001032	Brushy Creek Flood Study Extension	Expansion of previous study to improve characterization of flood risk.	08000014	Brazos	Regional Watershed Studies	12.0	Riverine	City of Bryan	\$92,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	7	7	5	0	0	0.2	4	323.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001033	Philips Event Center Detention Pond at Hole 8 - Maintenance and Dredging	Maintenance on detention pond to increase storage.	08000010	Brazos	Preliminary Engineering	2.8	Riverine, Urban	City of Bryan	\$129,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	100	93	191	0	5	1.9	15	7.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001035	Improve Undersized Storm Sewers in Briar Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	2.8	Urban	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	100	93	191	0	5	1.9	15	7.4	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.1: TWDB Table 15 - Recommended Flood Management Evaluations

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001036	Improve Undersized Storm Sewers in Burton Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	7.5	Urban	City of Bryan	\$300,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	348	254	1,235	2	9	4.3	47	0.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001037	Improve Undersized Storm Sewers in Carter Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	12.0	Urban	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	190	158	491	1	6	5.0	48	184.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001038	Improve Undersized Storm Sewers in Hudson Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	3.0	Urban	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	26	21	86	0	0	0.3	3	11.9	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001039	Improve Undersized Storm Sewers in Cottonwood Branch/Still Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	16.8	Urban	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	254	166	581	0	12	5.5	51	292.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001040	Improve Undersized Storm Sewers in Turkey Creek DB	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Brazos	H&H Modeling	8.7	Urban	City of Bryan	\$100,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	14	14	22	0	0	0.5	9	19.4	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001066	Hope's Creek Flood Study	Study to determine flood risk across the watershed.	08000014	Brazos	Regional Watershed Studies	10.3	Riverine	City of College Station	\$158,000	Local, TWDB FIF, FEMA FMA	37	24	62	0	0	1.3	5	702.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001067	Peach Creek Flood Study	Study to determine flood risk across the watershed.	08000014	Brazos	Regional Watershed Studies	26.3	Riverine	City of College Station	\$84,000	Local, TWDB FIF, FEMA FMA	15	13	2	0	0	0.2	2	105.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001068	FBCDD Drop Structures - Condition Assessments & Upgrades	Create inventory of structures and condition, prioritize and design upgrades to structures as needed.	08000014	Fort Bend	Regional Watershed Studies	608.7	Riverine	City of College Station	\$2,712,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	14,277	11,612	26,966	28	2	299.9	1167	95,254	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001145	Dam 18 Rehabilitation	Improvements to ensure dam provides necessary protection against flood risk.	08000009	Williamson	Study on Flood Preparedness	11.1	Riverine, Urban	Fort Bend County	\$500,000	Local, FEMA HMGP, FEMA FMA, USDA NRCS Watershed Rehabilitation	11	5	10	0	1	1.8	8	1,105.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001146	Waller County Master Drainage Plan	Study to determine food risk and potential solutions throughout the county.	08000014	Waller	Preliminary Engineering	515.9	Riverine	Upper Brushy Creek WCID	\$1,430,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,038	1,007	1,327	0	0	90.2	0	3.3	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001148	Texas Ave Crossing & Channel Improvements (Hwy 6 to Texas) & Detention Pond	Update design to account for Atlas 14 rainfall.	08000006	Brazos	Drainage Master Plans	8.7	Riverine, Urban	Waller County	\$100,000	Local, TWDB FIF, FEMA FMA	69	50	85	1	9	2.1	19	75.1	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001153	Hwy 6 Crossing & DS Channel Improvements	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	1.9	Riverine, Urban	City of College Station	\$100,000	Local, TWDB FIF, FEMA FMA	26	26	86	1	0	1.7	2	12.2	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001156	FM 2818 Crossing & Channel Improvements (FM- 2818 to Welsh) & Detention Pond	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	4.7	Riverine, Urban	City of College Station	\$100,000	Local, TWDB FIF, FEMA FMA	22	19	45	1	9	1.2	7	32.6	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.1: TWDB Table 15 - Recommended Flood Management Evaluations

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
81001204	Big Sandy Creek-New Year Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Washington	Watershed Planning	32.8	Riverine, Local	Washington County	\$483,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	96	38.0	162	1	6	3.74878	47	1,856.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001276	Carters Creek	Study to determine flood risk across the watershed.	08000014	Brazos	H&H Modeling	58.3	Riverine, Urban	City of College Station	\$304,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	849	646	2,974	8	43	17.1	152	1,274.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001284	Waco Creek Diversion Tunnel	Addition of a diversion culvert to reroute flow from Waco Creek to the Brazos River. Additional improvements to existing diversion tunnels and crossings.	08000009	McLennan	H&H Modeling	2.9	Riverine, Local	City of Waco	\$300,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	76	27.0	1723	1	0	19.8	0	1.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001285	Oakwood Channel & Bridge Improvements	Widening of Primrose Creek to increase flow capacity, as well as removal and replacement of several crossings along the channel improvements.	08000009	McLennan	H&H Modeling	4.3	Riverine, Local	City of Waco	\$300,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	39	28.0	505	0	0	6.4	0	33.5	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001286	Taylor / Elm Storm Infrastructure & Outfall	Extension of current storm infrastructure in the area to improve drainage. Potential levee along MLK Boulevard to direct flow and prohibit road overtopping.	08000014	McLennan	Preliminary Engineering	1.7	Urban	City of Waco	\$917,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	69	47	705	1	0	6.6	0	14.7	Yes	Provided by sponsor and is in line with the TWDB requirements.
081001287	Cross Creek Road Low Water Crossing Removal	Removal of the Cross Creek Road low water crossing and associated 18" culverts. Extension of Stone Creek Ridge Drive to maintain access to existing properties.	08000007	McLennan	H&H Modeling	24.5	Riverine	City of Waco	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	13	9.0	37	0	1	0.8	0	17.6	Yes	Provided by sponsor and is in line with the TWDB requirements.
81001298	Nolanville Drainage Master Plan	Atlas 14 H&H modeling and CIP development. Focus on developing BCAs and prioritization plan.	08000009	Bell	Drainage Master Plan	4.3	Riverine	City of Nolanville	\$200,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	96	48	125	1	3	7.0	50	610.1	Yes	Provided by sponsor and is in line with the TWDB requirements.
81001299	Cedar Park Drainage Master Plan	Atlas 14 H&H modeling and CIP development. Focus on developing BCAs and prioritization plan.	08000009	Williamson	Drainage Master Plan	25.5	Riverine, Local	City of Cedar Park	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230.0	819	0	12	5.4	130	398.7	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

TWDB Table 16 - Potentially Feasible Flood Mitigation Projects Recommended by RFPG																					
General Information																	Flood Risk				
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk	
083000709	826 and 827 Vine Street Property Flooding	Structural buyouts at the identified location.	08000009	Brazos	120701030702	08000007	Property Acquisition and Structural Elevation	Master Drainage Plan	0.0	Riverine, Local	City of Bryan	City of Bryan	Yes	\$600,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0	
083000712	Bryan Boonville and Briarcrest Bridges	Addition of bridges, channel benching, and detention	08000009	Brazos	1.20701E+11	08000007	Comprehensive Drainage Improvements	Lower Brazos RFP - Task 12	0.5	Riverine	City of Bryan	City of Bryan, TxDOT	No	\$12,313,040	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.34	N/A	29	N/A	24	
083000784	Bessie's & Brookshire Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120402050100, 120701040307, 120701040308, 120701040309, 120701040401	08000013, 08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	30.7	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$285,000,000	Local, FEMA FMA, HUD CDBG-MIT	18.25	24.41	834	1,544	666	
083000786	Bee Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	120701040409, 120701040501	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	4.5	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$38,771,000	Local, FEMA FMA, HUD CDBG-MIT	1.13	1.45	19	33	12	
083000797	Big Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040404, 120701040405, 120701040406, 120701040407, 120701040409, 120701040501	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	56.6	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$662,333,000	Local, FEMA FMA, HUD CDBG-MIT	13.55	35.76	628	873	517	
083000800	Coon Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040401, 120701040404, 120701040405	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	17.1	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$141,439,000	Local, FEMA FMA, HUD CDBG-MIT	17.11	19.17	276	419	178	
083000801	Cow Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	120701040409, 120701040501, 120701040502, 120701040503	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	30.9	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$119,191,000	Local, FEMA FMA, HUD CDBG-MIT	11.09	13.46	144	255	100	
083000805	Cottonwood Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040401, 120701040404, 120701040405	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	23.0	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$182,426,000	Local, FEMA FMA, HUD CDBG-MIT	8.47	10.19	134	215	112	
083000809	Diversion Channel Ditch and Drop Structure	Channel re-configuration to re-direct flow from Big Creek. Improvements to drop structure to have capacity for this increased flow.	08000009	Fort Bend	120701040409	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	12.3	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$266,699,000	Local, FEMA FMA, HUD CDBG-MIT	12.19	12.33	8	9	0	

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

TWDB Table 16 - Potentially Feasible Flood Mitigation Projects Recommended by RFPG																														
FMP ID	Flood Risk Information																		Other Benefits								Recommendation Status			
	Flood Risk						Reduction in Flood Risk												Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)	Estimated Reduction in Injuries (if available)												
083000709	0	0	0	0.0	0	0.0	0	2	0	0	0	0	0	0	0.0	0	0	Unkown	100-year	\$300,000	0%	No	N/A	No	0.59	N/A	1.00	Yes	Provided by sponsor and is in line with the TWDB requirements.	
083000712	121	0	0	1.4	11	0.4	10	6	0	2	26	0	0	1	1	0.1	0	0	10-year	100-year	\$2,179,500	0%	No	N/A	No	0.39	16,714	0.02	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000784	1,095	1	0	32.8	94	7,463.8	148	213	0	181	413	1	0	9	28	1,214.8	0	0	2-year	100-year	\$1,338,000	0%	No	N/A	No	0.06	N/A	0.09	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000786	11	0	0	0.3	2	305.8	0	0	0	0	0	0	0	0	0	256.0	0	0	5-year	100-year	N/A	0%	No	N/A	No	0.47	N/A	0.02	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000797	940	1	0	22.7	7	9,441.7	15	589	0	497	913	1	0	14	0	6,478.5	0	0	2-year	100-year	\$1,125,000	0%	No	N/A	No	0.39	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000800	506	0	0	7.1	0	4,744.9	1	275	0	177	503	0	0	7	0	4,576.3	0	0	2-year	100-year	\$514,000	0%	No	N/A	No	0.52	N/A	0.01	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000801	180	0	2	8.1	17	4,377.6	2	34	0	17	42	0	0	1	2	2,138.4	0	0	5-year	100-year	\$3,506,000	0%	No	N/A	No	0.52	N/A	0.03	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000805	260	0	0	3.2	0	4,674.7	0	134	0	112	260	0	0	3	0	4,578.8	0	0	2-year	100-year	\$1,361,000	0%	No	N/A	No	0.51	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000809	1	0	0	4.8	1	5,229.0	0	0	0	0	0	0	0	0	0	1.4	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.27	N/A	0.01	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

General Information																Flood Risk				
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk
083000811	Dry Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040405, 120701040407, 120701040408	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	20.1	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$133,315,000	Local, FEMA FMA, HUD CDBG-MIT	8.97	11.24	635	1,107	491
083000814	Dutch John Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040405, 120701040407, 120701040408, 120701040409	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	11.2	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$39,101,000	Local, FEMA FMA, HUD CDBG-MIT	1.20	7.04	12	23	12
083000817	Fairchild Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040405, 120701040406	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	30.8	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$190,448,000	Local, FEMA FMA, HUD CDBG-MIT	15.30	18.51	949	1,441	803
083000818	Flewellen Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	120402050100, 120701040308, 120701040309	08000013, 08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	20.7	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$542,725,000	Local, FEMA FMA, HUD CDBG-MIT	4.47	5.75	77	178	40
083000820	Gapps Slough Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040402, 120701040403, 120701040408	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	12.6	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$48,302,000	Local, FEMA FMA, HUD CDBG-MIT	5.96	7.94	295	375	238
083000821	Jones Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	120402050100, 120701040309, 120701040401, 120701040402	08000013, 08000014	Comprehensive Drainage Improvements	Community Submittal from Master Drainage Plan	21.7	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$556,012,000	Local, FEMA FMA, HUD CDBG-MIT	6.40	10.93	829	1,884	737
083000823	Lateral IIB-7 & IIB-9 Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040405, 120701040408	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	5.7	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$62,287,000	Local, FEMA FMA, HUD CDBG-MIT	3.22	4.00	144	605	122
083000827	Lower Dry Creek Channel Improvement	Channel improvements and re-configurations.	08000009	Fort Bend	120701040403, 120701040407, 120701040408, 120701040409	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	20.0	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$110,716,000	Local, FEMA FMA, HUD CDBG-MIT	17.61	18.81	343	369	219
083000828	Seabourne Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040401, 120701040404, 120701040405, 120701040408	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	13.0	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$104,974,000	Local, FEMA FMA, HUD CDBG-MIT	5.41	7.18	577	1,217	473

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

FMP ID	Flood Risk Information																	Other Benefits										Recommendation Status		
	Flood Risk						Reduction in Flood Risk											Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason	
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)													Estimated Reduction in Injuries (if available)
083000811	738	0	0	14.3	0	2,599.8	126	509	0	381	661	0	0	13	0	2,063.9	0	0	2-year	100-year	\$262,000	0%	No	N/A	No	0.35	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000814	36	0	0	2.2	1	2,070.9	0	0	0	0	0	0	0	2	0	1,468.8	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.27	N/A	0.05	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000817	1,385	1	0	10.3	1	7,817.0	18	931	0	792	1,289	1	0	10	0	2,771.9	0	0	2-year	100-year	\$142,000	0%	No	N/A	No	0.54	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000818	136	0	0	1.1	6	1,508.0	19	58	0	22	59	0	0	0	0	0.0	0	0	2-year	100-year	\$9,357,000	0%	No	N/A	No	0.05	N/A	0.05	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000820	492	0	0	11.5	7	2,369.5	5	164	0	161	254	0	0	6	0	546.8	0	0	2-year	100-year	\$295,000	0%	No	N/A	No	0.23	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000821	1,594	4	0	18.2	71	1,988.0	179	47	0	45	138	4	0	0	0	0.8	0	0	2-year	100-year	\$11,830,000	0%	No	N/A	No	0.06	N/A	0.05	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000823	164	0	0	7.1	0	1,693.2	19	125	0	11	155	0	0	6	0	1,663.0	0	0	2-year	100-year	\$498,000	0%	No	N/A	No	0.27	N/A	0.01	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000827	489	2	0	14.4	20	5,058.4	2	0	0	0	0	2	0	0	0	94.1	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.24	N/A	0.02	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000828	1,214	4	0	13.2	0	2,336.1	4	573	0	472	1,212	4	0	13	0	2,270.4	0	0	2-year	100-year	\$183,000	0%	No	N/A	No	0.53	N/A	0.03	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

General Information																Flood Risk				
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk
083000829	Turkey Creek Channel Improvements	Channel improvements and re-configurations at several key locations	08000009	Fort Bend	120701040406, 120701040407, 120701040409, 120701040501	08000013	Regional Channel Improvements	Community Submittal from Master Drainage Plan	23.4	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$86,161,000	Local, FEMA FMA, HUD CDBG-MIT	7.76	10.89	39	160	24
083000834	Oyster Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120402050100, 120402050200, 120701040402, 120701040403	08000013, 08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	20.8	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$315,176,000	Local, FEMA FMA, HUD CDBG-MIT	5.83	9.59	385	3,751	340
083000838	Lower Oyster Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120402050200, 120701040403, 120701040409	08000013, 08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	3.9	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$125,690,000	Local, FEMA FMA, HUD CDBG-MIT	1.66	2.56	60	325	37
083000841	Red Gully Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120402050100	08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	3.0	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$46,719,000	Local, FEMA FMA, HUD CDBG-MIT	1.44	1.69	579	1,146	555
083000843	Bullhead Bayou Channels and Detention	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120701040402, 120402050100	08000013, 08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	6.2	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$62,498,000	Local, FEMA FMA, HUD CDBG-MIT	3.38	4.80	56	229	28
083000847	Stafford Run Channels and Detentions	Channel improvements and re-configurations at several key locations, addition of in-line detention.	08000009	Fort Bend	120402050200	08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	2.2	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$15,612,000	Local, FEMA FMA, HUD CDBG-MIT	0.53	1.05	160	1,005	110
083000853	Long Point Creek Channel Improvements	Channel improvements and re-configurations at several key locations.	08000009	Fort Bend	120402050200	08000014	Regional Channel Improvements	Community Submittal from Master Drainage Plan	3.1	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$8,760,000	Local, FEMA FMA, HUD CDBG-MIT	1.22	1.53	39	105	36
083000855	Rabbs Bayou Detention	Proposal of regional detention basin.	08000009	Fort Bend	120701040401, 120701040402, 120701040403, 120701040408	08000013	Regional Detention	Community Submittal from Master Drainage Plan	11.5	Riverine, Local	Fort Bend County	Fort Bend County, Fort Bend County Drainage District	Yes	\$8,699,000	Local, FEMA FMA, HUD CDBG-MIT	2.51	3.98	276	1,012	260
083001062	Hazelwood Crossing	Construction of a bridge to allow for neighborhood access during storm events.	08000009	McLennan	120602020801	08000002	Low Water Crossing or Bridge Improvements	Community Submittal	0.6	Riverine, Local	McLennan County	McLennan County, City of Lacey Lakeview	Yes	\$616,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

FMP ID	Flood Risk Information																	Other Benefits										Recommendation Status		
	Flood Risk						Reduction in Flood Risk											Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason	
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)													Estimated Reduction in Injuries (if available)
083000829	46	0	0	2.5	14	3,908.5	2	22	0	10	29	0	0	1	3	3,393.4	0	0	5-year	100-year	\$3,916,000	0%	No	N/A	No	0.47	N/A	0.05	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000834	2,000	1	0	38.5	322	748.1	1	0	0	0	0	0	0	31	236	4.2	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.23	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000838	367	0	0	3.7	29	289.6	0	0	0	0	0	0	0	2	20	2.5	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.14	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000841	2,411	0	0	10.2	75	162.8	0	0	0	0	0	0	0	7	37	85.1	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.36	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000843	700	0	0	9.0	60	1,728.8	7	44	0	24	396	0	0	5	41	636.8	0	0	2-year	100-year	\$1,420,000	0%	No	N/A	No	0.42	N/A	0.06	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000847	251	0	0	9.2	77	10.2	0	0	0	0	0	0	0	3	21	2.0	0	0	2-year	100-year	N/A	0%	No	N/A	No	0.58	N/A	0.01	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000853	88	0	0	2.4	30	49.7	3	4	0	4	14	0	0	1	16	4.5	0	0	2-year	100-year	\$2,190,000	0%	No	N/A	No	0.31	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083000855	891	0	0	12.4	78	800.6	0	0	0	0	0	0	0	1	2	6.2	0	0	10-year	100-year	N/A	0%	No	N/A	No	0.37	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001062	0	0	0	0.0	0	0.0	0	0	0	0	0	0	0	0	0	0.0	0	0	10-year	100-year	N/A	0%	No	N/A	No	0.69	3,194	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

General Information																Flood Risk				
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk
083001290	Benching along Sulphur Creek Tributary	Benching along Sulphur Creek tributary.	08000009, 08000010	Lampasas	1.20702E+11	08000010	Regional Channel Improvements	Lower Brazos RFP - Task 12	1.0	Riverine	City of Lampasas	City of Lampasas, Lampasas WCID, Lampasas County	No	\$1,132,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.04	0.04	15	17	3
083001291	Cemetery Creek Improvements	Channel and crossing improvements along Cemetery Creek - tributary to Sulphur Creek.	08000009	Lampasas	1.20702E+11	08000010	Regional Channel Improvements	Lower Brazos RFP - Task 12	1.0	Riverine	City of Lampasas	City of Lampasas, Lampasas WCID, Lampasas County	Yes	\$13,305,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.27	0.34	630	1,000	327
083001292	Comanche Detention	Addition of detention and channel benching	08000009	Comanche	1.20702E+11	08000008	Comprehensive Drainage Improvements	Lower Brazos RFP - Task 12	7.0	Riverine	City of Comanche	City of Comanche, Comanche County	No	\$46,985,220	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3.80	4.26	201	254	127
083001298	Prairie Wind Alternative 2	Includes channel excavation, creation of an additional channel, and (5)10'x6' RCB	08000007, 08000008, 08000009, 08000010	Erath	1.20602E+11	North Bosque	Low Water Crossing or Bridge Improvements	North Bosque River Watershed FIF	1.6	Riverine, Local	City of Stephenville	City of Stephenville, Erath County	No	\$6,182,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.06	0.06	8	10	8
083001299	Lingleville Alternative 2	Includes (4)10'x6' RCB and upstream grading	08000007, 08000008	Erath	1.20602E+11	North Bosque	Low Water Crossing or Bridge Improvements	North Bosque River Watershed FIF	0.7	Riverine	City of Stephenville	City of Stephenville, Erath County	No	\$2,014,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.02	0.02	0	0	0
083001300	County Road 256 Alternative 1	Includes raising the road, (7)10'x9' RCB, and grading along the river	08000007, 08000008, 08000009, 08000010	Erath	1.20602E+11	North Bosque	Low Water Crossing or Bridge Improvements	North Bosque River Watershed FIF	4.3	Riverine	City of Stephenville	City of Stephenville, Erath County	No	\$4,145,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.29	0.32	4	4	4
083001301	Morgan Mill Alternative 1	Includes minor grading and (6)12'x7' RCB	08000007, 08000008, 08000009, 08000010	Erath	1.20602E+11	North Bosque	Low Water Crossing or Bridge Improvements	North Bosque River Watershed FIF	3.9	Riverine	City of Stephenville	City of Stephenville, Erath County	No	\$2,661,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.14	0.15	18	22	10
083001302	Long St Alternative 1	Includes installing a 425' span bridge with road elevation on either side	08000007, 08000008	Erath	120602040101, 120602040102, 120602040103	North Bosque	Low Water Crossing or Bridge Improvements	North Bosque River Watershed FIF	133.4	Riverine	City of Stephenville	City of Stephenville, Erath County	No	\$8,993,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	10.59	10.72	5	28	5
083001303	Weaver Creek and Main Street Culvert Improvements	Detention pond, channel improvements, and culvert improvements.	08000009	Eastland	1.20702E+11	Leon	Comprehensive Drainage Improvements	Leon River Watershed Study FIF	2552.0	Riverine	City of Eastland	City of Eastland, Eastland County	No	\$6,848,016	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2.54	2.81	282	322	161
083001304	Tributary 3 and UPPR Culvert Improvements	Culvert improvements; upstream and downstream channel improvements.	08000009	Eastland	1.20702E+11	Leon	Comprehensive Drainage Improvements	Leon River Watershed Study FIF	225.0	Riverine	City of Eastland	City of Eastland, Eastland County	No	\$2,912,398	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2.53	2.82	229	288	113

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

FMP ID	Flood Risk Information																	Other Benefits										Recommendation Status		
	Flood Risk						Reduction in Flood Risk											Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason	
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)													Estimated Reduction in Injuries (if available)
083001290	32	0	1	0.3	6	0.4	14	6	1	0	17	0	0	0	1	0.2	0	0	5-year	100-year	\$188,700	0%	No	N/A	No	0.86	N/A	0.70	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001291	4,168	8	3	6.6	56	2.2	614	35	50	303	4,101	5	0	1	0	1.0	0	0	10-year	100-year	\$380,100	0%	No	N/A	No	0.72	N/A	0.26	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001292	538	0	2	6.5	51	773.4	71	40	14	29	55	0	0	1	2	26.1	0	0	10-year	100-year	\$1,247,525	0%	No	N/A	No	0.87	4,106	0.08	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001298	23	0	1	0.3	10	0.0	0	8	10	8	23	0	1	0	9	0.0	0	0	< 2-Year	100-Year	\$772,750	11%	No	N/A	No	0.41	200	0.60	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001299	0	0	1	0.1	10	0.0	0	0	0	0	0	0	1	0	9	0.0	0	0	< 2-Year	100-Year	N/A	0%	No	N/A	No	0.41	7,206	1.10	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001300	2	0	1	0.1	10	0.0	3	1	0	1	0	0	0	0	8	0.0	0	0	< 2-Year	5-Year	\$4,145,000	0%	No	N/A	No	0.39	336	0.50	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001301	31	0	1	0.3	5	0.0	5	13	13	7	20	0	1	0	5	0.0	0	0	2-Year	100-Year	\$204,692	0%	No	N/A	No	0.57	10,668	1.80	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001302	10	0	1	0.2	10	0.0	0	0	0	0	0	0	1	0	10	0.0	0	0	< 2-Year	100-Year	N/A	0%	No	N/A	No	0.68	244	0.10	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001303	764	1	0	11.9	4	28.4	N/A	2	0	0	11	0	0	1	10	0.0	0	0	2-Year	100-Year	\$476,205	0%	No	N/A	No	0.70	N/A	0.10	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001304	583	1	0	11.7	0	27.6	N/A	55	33	48	192	0	0	1	0	0.2	0	0	10-Year	100-Year	\$14,711	0%	No	N/A	No	0.70	N/A	0.30	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

General Information																Flood Risk				
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk
083001305	Lake Eastland CIP 3.5	Reconstruction of primary Lake Eastland spillway.	08000009	Eastland	1.20702E+11	Leon	Comprehensive Drainage Improvements	Leon River Watershed Study FIF	21542.0	Riverine	City of Eastland	City of Eastland, Eastland County	No	\$15,700,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2.53	2.80	277	317	160
083001306	Mallard Lane	Proposed storm drainage system located along Summit Circle, Kingston Circle, Mallard Lane, and Greenlawn Drive. Approximately 2,000 linear ft.	08000009	Williamson	1.20702E+11	San Gabriel	Storm Drain	City Personnel; City Drainage Master Plan	0.5	Riverine, Local	City of Taylor	City of Taylor	No	\$1,620,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.14	N/A	35	N/A	33
083001307	TH Johnson	Proposed channel located south of TH Johnson Drive and discharging into Bull Branch, including approximately 500 feet of new concrete channel, and the installation of 3 RCB culverts at Crystal Circle	08000009	Williamson	1.20702E+11	San Gabriel	Regional Channel Improvements	City Personnel; City Drainage Master Plan	0.6	Riverine, Local	City of Taylor	City of Taylor	No	\$489,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.19	N/A	10	N/A	10
083001308	Davis St	Proposed storm sewer along Davis Street from 8th Street to 2nd Street that discharges to the existing outfall in the railroad drainage ditch to the north of the railroad and ties into 2nd st existing drainage system. Approximately 3,750 linear ft of RCP.	08000009	Williamson	1.20702E+11	San Gabriel	Storm Drain	City Personnel; City Drainage Master Plan	0.5	Riverine, Local	City of Taylor	City of Taylor	No	\$4,270,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.15	N/A	23	N/A	17
083001309	Bel-Air	Proposed storm sewer system located along Bel-Air Drive, Dellinger Drive, and Randall Street that discharges into Bull Branch. Approximately 1,365 linear ft.	08000009	Williamson	1.20702E+11	San Gabriel	Storm Drain	City Personnel; City Drainage Master Plan	0.2	Riverine, Local	City of Taylor	City of Taylor	No	\$903,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.05	N/A	9	N/A	9
083001310	Annie St	Proposed storm sewer along Annie Street, Howard Street, and 7th Street that discharges to a new outfall in the railroad drainage ditch to the south of 2nd street. Approximately 4,000 linear ft of RCP.	08000009	Williamson	1.20702E+11	San Gabriel	Storm Drain	City Personnel; City Drainage Master Plan	0.5	Riverine, Local	City of Taylor	City of Taylor	No	\$2,626,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.15	N/A	14	N/A	14
083001311	Sun Valley Neighborhood Levee	Buyouts, construction of levee, and storm sewer.	08000009	Coryell	1.20702E+11	Leon	Comprehensive Drainage Improvements	City of Gatesville MDP FIF	8.5	Riverine	City of Gatesville	City of Gatesville	No	\$1,594,290	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	105.00	154.00	43	0	43

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

FMP ID	Flood Risk Information																		Other Benefits										Recommendation Status	
	Flood Risk						Reduction in Flood Risk												Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)	Estimated Reduction in Injuries (if available)												
083001305	756	1	0	12.0	0	26.6	N/A	7	4	1	19	0	0	1	0	1.2	0	0	10-Year	100-Year	\$301,464	0%	No	N/A	No	0.70	N/A	0.20	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001306	105	0	0	0.0	0	N/A	33	2	N/A	2	6	0	0	0	0	N/A	0	0	< 2-Year	100-Year	\$810,000	0%	No	N/A	No	0.33	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001307	30	0	0	0.0	0	N/A	10	0	N/A	0	0	0	0	0	0	N/A	0	0	< 2-Year	100-Year	\$489,000	0%	No	N/A	No	0.33	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001308	111	0	0	0.0	0	N/A	10	13	N/A	9	67	0	0	0	0	N/A	0	0	< 2-Year	100-Year	\$328,000	0%	No	N/A	No	0.37	N/A	0.10	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001309	27	0	0	0.0	0	N/A	8	1	N/A	1	3	0	0	0	0	N/A	0	0	< 2-Year	100-Year	\$903,000	0%	No	N/A	No	0.33	N/A	0.00	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001310	42	0	0	0.0	0	N/A	6	8	N/A	8	24	0	0	0	0	N/A	0	0	< 2-Year	100-Year	\$438,000	0%	No	N/A	No	0.37	N/A	0.30	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001311	129	0	0	0.4	1	0.0	0	43	0	43	129	0	0	0	1	70.0	0	0	10-Year	100-Year	\$31,107	0%	No	N/A	No	0.68	112	1.38	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

General Information															Flood Risk					
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk
083001312	Straws Mill Road LWC	Includes raising the road and adding culverts at crossing.	08000008	Coryell	1.20702E+11	Leon	Low Water Crossing or Bridge Improvements	City of Gatesville MDP FIF	4.2	Riverine	City of Gatesville	City of Gatesville	No	\$1,021,710	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0
083001313	Leon WWTP Parapet Wall	Construction of ring parapet.	08000009	Coryell	1.20702E+11	Leon	Comprehensive Drainage Improvements	City of Gatesville MDP FIF	1098.0	Riverine	City of Gatesville	City of Gatesville	Yes	\$642,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0
083001314	Arrowood Lane Culvert	Construction of arch culvert and channel improvements.	08000008	Coryell	1.20702E+11	Leon	Low Water Crossing or Bridge Improvements	City of Gatesville MDP FIF	2.2	Riverine	City of Gatesville	City of Gatesville	No	\$776,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0
083001315	SH 36 Culverts	Construction of 2 additional culverts at crossing.	08000008	Coryell	1.20702E+11	Leon	Low Water Crossing or Bridge Improvements	City of Gatesville MDP FIF	2.2	Riverine	City of Gatesville	City of Gatesville	No	\$328,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0
083001316	FM 929 Culverts	Construction of culvert and channel improvements.	08000008	Coryell	1.20702E+11	Leon	Low Water Crossing or Bridge Improvements	City of Gatesville MDP FIF	1.9	Riverine	City of Gatesville	City of Gatesville	No	\$1,535,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0.00	0.00	0	0	0

Appendix 5.2: TWBD Table 16 - Recommended Flood Mitigation Projects

FMP ID	Flood Risk Information																	Other Benefits										Recommendation Status		
	Flood Risk						Reduction in Flood Risk											Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio	Recommendation Status	Recommendation Reason	
	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)													Estimated Reduction in Injuries (if available)
083001312	0	0	1	0.4	1	0.0	0	0	0	0	0	0	1	0	1	0.0	0	0	2-Year	100-Year	N/A	0%	No	N/A	No	0.51	555	1.81	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001313	9	0	0	0.0	0	0.0	0	3	0	0	9	1	0	0	0.0	0	0	0	Unknown	Unknown	N/A	0%	No	N/A	No	0.51	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001314	0	0	0	0.0	0	0.0	1	0	0	0	0	0	0	0	0.0	0	0	0	Unknown	Unknown	N/A	0%	No	N/A	No	0.68	25	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001315	3	0	0	0.0	0	0.0	1	1	0	1	3	0	0	0	0.0	0	0	0	Unknown	Unknown	N/A	0%	No	N/A	No	0.68	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
083001316	42	0	0	0.0	0	0.0	0	14	0	14	42	0	0	0	0.0	0	0	0	Unknown	Unknown	N/A	0%	No	N/A	No	0.35	1,469	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.3

Appendix 5.3: TWDB Table 17 - Recommended Flood Management Strategy

General Information											Flood Risk Information									
FMS ID	FMS Name	Description	Associated Goals (ID)	County	Strategy Type	Strategy Area (sq mi)	Sponsor	Estimated Strategy Cost	Non-Recurring, Non-Capitol Cost	Potential Funding Sources	Flood Risk									
											Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	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 (mi)	Estimated Farm & Ranch Land at Flood Risk 9ac)
082000059	Evaluation of Flood Control Projects Phase 2	Implement design, construction, and maintenance criteria for new City-owned flood control projects; Document retrofitting/non-structural control activities on existing City-owned flood control structures.	08000009	Fort Bend	Other	31	City of Sugar Land	\$500,000	\$500,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000071	Sugar Land MDP - Early Flood Warning System	Engage regional partners in developing a flood warning system.	08000016	Fort Bend	Flood Measurement and Warning	31	City of Sugar Land	\$500,000	\$500,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000074	Sugar Land MDP - Regional Drainage & Drainage Entities	Consider establishing a single regional drainage entity to manage all aspects of drainage.	08000003	Fort Bend	Regulatory and Guidance	31	City of Sugar Land	\$500,000	\$500,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000857	Project Brazos	Stabilization efforts for 11 identified locations along the Brazos River throughout Fort Bend County.	08000009	Fort Bend	Infrastructure Projects	625	Fort Bend County	\$360,000,000		Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000928	City of Georgetown Lift Station Floodproofing	Flood proof city lift stations and manholes located in the SFHA.	08000012	Williamson	Infrastructure Projects	59	City of Georgetown	\$500,000	\$500,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000933	City of Hutto Acquire Flood Prone Land	Dedicate acquired, undeveloped land to open space areas to prevent development.	08000009	Williamson	Other	12	City of Hutto	\$1,000,000	\$1,000,000	Local, TWDB FIF, FEMA HMGP, TWDB CWSRF, FEMA BRIC, FEMA FMA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082000938	City of Leander Automated Barriers	Install low water crossing automated barriers and warning signs.	08000007	Williamson	Other	28	City of Leander	\$500,000	\$500,000	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082001113	City of College Station Early Flood Warning System	Implement system to monitor flood waters, notify public officials of flooded roadways, and trigger automatic warnings for road users.	08000009	Brazos	Flood Measurement and Warning	51	City of College Station	\$500,000	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082001140	City of College Station Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	Property Acquisition and Structural Elevation	51	City of College Station	\$1,000,000	\$1,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
082001143	City of Waco Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	McLennan	Property Acquisition and Structural Elevation	100	City of Waco	\$1,400,000	\$1,400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Appendix 5.3: TWDB Table 17 - Recommended Flood Management Strategy

FMS ID	Flood Risk Information											Recommendation	
	Reduction in Flood Risk											RFPG Recommendation	Reason for Recommendation
Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities	Estimated Reduction in Injuries			
082000059	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000071	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000074	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000857	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000928	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000933	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082000938	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082001113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082001140	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.
082001143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Yes	Provided by sponsor and is in line with the TWDB requirements.

Appendix 5.4

Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000035	1240-acre Fulshear Farms Development	Design of detention and hydraulic structure upgrades to offset development impacts.	08000009	Fort Bend	Feasibility Assessment	1.9	Local	City of Fulshear	\$147,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000089	Riverbend Drainage Improvements Phase II	Update design to account for Atlas 14 rainfall.	08000009	Fort Bend	H&H Modeling	0.9	Local	City of Sugar Land	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	100	91	249	1	0	2.8	17	4.4	No	Study area is less than one square mile.
081000092	Avalon/Brazos Landing/ Commonwealth Drainage Imp 1 & 2	Study to determine improvements needed for FBC LID 14 weir.	08000009	Fort Bend	Preliminary Engineering	1.0	Riverine, Local	City of Sugar Land	\$335,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.2	1	11.6	No	No official sponsor approval
081000107	ATLAS 14 Outfall Structure No. 6	Design of improvements to Outfall Structure No. 6.	08000009	Fort Bend	Feasibility Assessment	10.6	Riverine, Coastal, Local	Sienna LID	\$320,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	3.6	No	No official sponsor approval
081000108	ATLAS 14 Brazos River Outfall Channel	Design of improvements to the Brazos River Outfall Channel.	08000009	Fort Bend	Feasibility Assessment	11.7	Riverine, Coastal, Local	Sienna LID	\$330,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	30	20	36	0	0	1.5	7	362.4	No	No official sponsor approval
081000110	Conversion of N & S Pump Stations to Vertical Turbines	Design of improvements to the N & S Pump Stations.	08000009	Fort Bend	Feasibility Assessment	11.7	Riverine, Coastal, Local	Sienna LID	\$330,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	30	20	36	0	0	1.5	7	362.4	No	No official sponsor approval
081000111	Regional Storage Phase 2	Design of improvement to regional storage.	08000009	Fort Bend	Feasibility Assessment	10.6	Riverine, Coastal, Local	Sienna LID	\$320,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	3.6	No	No official sponsor approval
081000112	Pump Station Conversion at the Woods Acreage Estates Outfall	Design of pump station to provide relief to Woods Acreage Estates in flood events.	08000009	Fort Bend	Feasibility Assessment	1.0	Riverine, Coastal, Local	Sienna LID	\$149,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	8	0	0	0	0	0.0	2	29.9	No	No official sponsor approval
081000114	400,500 PM Pump Station at Outfall No. 2	Study to design additional pump station at Outfall No. 2	08000009	Fort Bend	Preliminary Engineering	10.6	Riverine, Coastal, Local	Sienna LID	\$571,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	3.6	No	No official sponsor approval
081000115	Fort Bend County Flood Protection Levee for all Pump Station Electrics	Study to design levees to protect pump stations that mitigate flooding in Somervell.	08000012	Fort Bend	Feasibility Assessment	15.4	Riverine, Coastal, Local	Sienna LID	\$365,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	22	1	254	0	0	0.3	2	51.8	No	No official sponsor approval
081000135	Lake Leon Dam & Emergency Spillway Improvements	Study to determine necessary dam improvements to reduce flood risk downstream.	08000009	Comanche, Callahan, Eastland	Preliminary Engineering	321.7	Riverine, Local	Eastland County	\$183,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	680	340	1,018	6	1	57.9	211	10,325.7	No	No official sponsor approval
081000136	Hunting Shirt Creek Culvert Improvements	Design of drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Eastland	Feasibility Assessment	14.8	Riverine	City of Carbon	\$360,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	28	18	23	1	0	2.8	14	504.1	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000138	Cisco Storm Sewer Upgrades and Extensions	Upgrade storm sewer system and install new water lines to improve existing drainage.	08000009	Eastland	Drainage Master Plans	4.8	Local	City of Cisco	\$244,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	73	47	118	1	0	4.1	35	1.5	No	No official sponsor approval
081000164	Arcola Regional Drainage Improvements	Study to design and place drainage improvements such as detention ponds, pump stations, and road grading improvements.	08000009	Fort Bend	Drainage Master Plans	2.4	Riverine, Local	City of Arcola	\$193,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	8	8	17	0	0	0.3	1	4.0	No	No official sponsor approval
081000168	Cresson Storm Drainage Improvements	Study to determine how to increase the capacity of the storm drainage system by installing larger culverts and adding drainage points along vulnerable or critical roads.	08000009	Hood, Johnson, Parker	Drainage Master Plans	11.2	Riverine, Local	City of Cresson	\$326,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	6	0	9	0	0	0.3	5	273.8	No	No official sponsor approval
081000175	City of Lipan Roadside Ditch Improvements	Design infrastructure to improve roadside ditch drainage and build curbs to increase water flow during flood events.	08000009	Hood	Feasibility Assessment	1.0	Riverine, Local	City of Lipan	\$152,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	6	4	10	0	0	0.3	5	32.4	No	No official sponsor approval
081000177	City of Tolar Roadside Ditch Improvements	Study to determine necessary expansions and improvements to roadside drainage ditches to increase water flow during flood events.	08000009	Hood	Feasibility Assessment	1.1	Riverine, Local	City of Tolar	\$154,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	17	14	63	0	3	0.7	5	40.6	No	No official sponsor approval
081000184	Mineral Wells State Park Dam Improvements	Design of dam improvements to reduce flood risk downstream.	08000009	Palo Pinto, Parker, Jack	Preliminary Engineering	90.3	Riverine, Local	Texas Parks and Wildlife	\$73,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	150	21	685	2	3	11.7	79	4,029.9	No	No official sponsor approval
081000186	Culvert Additions to Prevent Flash Flooding in City of Mingus	New infrastructure to improve drainage conditions.	08000009	Palo Pinto	Drainage Master Plans	1.5	Riverine, Local	City of Mingus	\$170,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	22	15	6	0	0	0.9	12	45.8	No	No official sponsor approval
081000188	City of Strawn Mitigations for Flood Prone Areas	Develop study to determine/ address flood risk.	08000014	Stephens, Palo Pinto, Eastland	Drainage Master Plans	55.0	Local	City of Strawn	\$588,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	94	33	78	0	2	9.2	27	2,490.4	No	No official sponsor approval
081000189	Tucker Lake Dam and Spillway Maintenance	Design of dam improvements to reduce flood risk downstream.	08000009	Palo Pinto	Preliminary Engineering	1.2	Riverine	City of Strawn	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	5	0	0	0	0	0.2	1	12.7	No	No official sponsor approval
081000193	Palo Pinto Retaining Walls	Design of retaining walls along county roads where landslides due to flooding is probable.	08000009	Palo Pinto	Feasibility Assessment	981.9	Riverine, Local	Palo Pinto County	\$1,856,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,962	1,027	2,649	11	15	113.9	395	36,927.1	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000199	Resley Creek Drainage Improvements	Design of improvements to channel to increase conveyance capacity.	08000009	Comanche, Erath	Preliminary Engineering	49.5	Riverine	City of Dublin	\$52,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	53	26	52	0	9	6.6	56	2,247.3	No	No official sponsor approval
081000207	Austin County - Improve Drainage	Identify and evaluate drainage projects including storm sewer, channel, and crossing improvements.	08000009	Austin	Drainage Master Plans	262.6	Riverine, Local	Austin County	\$1,088,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	190	91	133	1	3	32.6	138	15,867.5	No	No official sponsor approval
081000212	San Felipe Street Elevation	Study to determine necessary elevation of street to decrease inundation in food events.	08000009	Austin	Preliminary Engineering	8.5	Riverine, Local	Town of San Felipe	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	180	89	170	0	0	8.0	22	609.6	No	No official sponsor approval
081000213	Pond Improvements to Cryan Park	Design of improvements to detention pond.	08000009	Austin	Preliminary Engineering	33.9	Riverine, Local	City of Sealy	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	382	256	725	2	0	13.0	32	2,250.0	No	No official sponsor approval
081000214	Pond Improvements to BPW Park	Design of improvements to detention pond.	08000009	Austin	Preliminary Engineering	33.9	Riverine, Local	City of Sealy	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	382	256.0	725	2	0	12.9992	32	2,250.0	No	No official sponsor approval
081000223	Texas A&M Detention Pond	Study to determine placement and sizing of detention facility to contain and mitigate flooding.	08000009	Brazos	Feasibility Assessment	2.9	Riverine, Local	Texas A&M University	\$207,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	73	41.0	1140	0	12	0.951844	13	0.0	No	No official sponsor approval
081000228	City of Bryan Flood Study	Develop study to determine/ address flood risk.	08000014	Brazos	Drainage Master Plans	54.0	Riverine, Local	City of Bryan	\$584,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	885	677	2,216	3	33	17.0	163	508.6	No	No official sponsor approval
081000233	Dam Failure Analysis for Bryan Utilities Lake	An Emergency Action Plan (EAP) was created for the Bryan Utilities Lake Dam. The EAP contains information on who will be notified in the case of a dam failure.	08000014	Brazos	Study on Flood Preparedness	21.6	Riverine	Brazos County	\$136,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	7	6.0	3	0	1	1.61836	4	969.3	No	No official sponsor approval
081000235	Burleson County Dam Failure Study	Study to determine condition and salvageability of dams on local lakes.	08000014	Burleson	Study on Flood Preparedness	675.1	Riverine, Local	Burleson County	\$1,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	540	238	722	5	6	91.2	229	73,346.8	No	No official sponsor approval
081000237	Lake Somerville Dam Failure Study	Develop study to determine/ address flood risk.	08000014	Brazoria, Fort Bend, Austin, Waller, Washington, Burleson, Grimes, Brazos	Study on Flood Preparedness	1311.5	Riverine	Burleson County	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	21,601	16,599	38,059	43	7	741.9	1521	196,161.0	No	No official sponsor approval

Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000245	Basin-Wide Stormwater Drainage Plan Update	Review and update the basin-wide stormwater drainage plan county-wide	08000014	Bell	Regional Watershed Studies	1082.2	Riverine, Local	Bell County	\$4,740,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,764	1,422	8,178	10	146	136.7	684	50,910.7	No	No official sponsor approval
081000250	City of Bartlett Regional Drainage Improvements	Upgrade undersized drainage channels and culverts in flood prone areas.	08000009	Williamson, Bell	Drainage Master Plans	1.2	Riverine, Local	City of Bartlett	\$156,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	0	1	0	0	0.1	1	5.5	No	No official sponsor approval
081000252	City of Holland Drainage Infrastructure Improvements	Upgrade/ improve undersized drainage system to increase capacity and reduce flooding.	08000009	Bell	Drainage Master Plans	1.7	Riverine, Local	City of Holland	\$176,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.2	3	50.7	No	No official sponsor approval
081000253	City of Killeen Drainage Infrastructure Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	08000009	Bell	Drainage Master Plans	53.8	Riverine, Local	City of Killeen	\$583,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	799	564	2,707	2	49	14.7	161	361.7	No	No official sponsor approval
081000256	City of Little River Academy Drainage Infrastructure Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	08000009	Bell	Drainage Master Plans	2.0	Riverine, Local	City of Little River Academy	\$185,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	7	3	11	0	1	0.4	3	54	No	No official sponsor approval
081000259	Improve Levee Crossing and Old Nolanville Road	Design of drainage feature improvements to increase capacity and study to ensure they are within standards.	08000009	Bell	Preliminary Engineering	32.2	Riverine, Coastal, Local	City of Nolanville	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	247	113	489	1	8	11.6	39	709.7	No	No official sponsor approval
081000266	City of Rogers Drainage Infrastructure Improvements	Drainage feature improvements to increase capacity and ensure infrastructure is within standards.	08000009	Milam, Bell	Drainage Master Plans	19.3	Riverine, Local	City of Rogers	\$397,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	10	0	9	0	0	0.7	5	1,439.8	No	No official sponsor approval
081000272	City of Temple Drainage Channel Improvements	Upgrade drainage channels within the city to reduce flooding to residential and commercial structures.	08000009	Bell	Drainage Master Plans	73.8	Riverine, Local	City of Temple	\$659,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	421	255	2,090	2	8	13.7	127	1,052.7	No	No official sponsor approval
081000273	City of Troy Drainage System Improvements	Upgrade undersized drainage system throughout the city to increase storm water capacity and reduce flooding.	08000009	Bell	Drainage Master Plans	4.1	Riverine, Local	City of Troy	\$230,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	23	13	38	0	2	3.0	8	60.6	No	No official sponsor approval
081000277	Cow House Creek Retention Structure	Addition of retention facility to contain flood waters and mitigate flooding.	08000009	Coryell, Mills, Hamilton, Comanche	Preliminary Engineering	237.4	Local	Hamilton	\$73,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	56	21	31	0	3	22.7	76	7,483.3	No	No official sponsor approval
081000278	Hamilton City Lake Dam Failure Study	Develop study to determine/ address flood risk.	08000014	Hamilton	Study on Flood Preparedness	29.7	Riverine	City of Hamilton	\$174,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	104	39	410	1	9	4.8	55	760.9	No	No official sponsor approval
081000281	Hamilton County Electric Gates for Pecan Creek Dam	Improve dam to reduce flood risk downstream.	08000009	Hamilton	Preliminary Engineering	29.7	Riverine, Local	Hamilton County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	104	39	410	1	9	4.8	55	760.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000289	City of Hico Drainage System Improvements	Upgrade undersized culverts to increase capacity and implement debris removal for ditches.	08000009	Hamilton	Drainage Master Plans	1.4	Riverine, Local	City of Hico	\$165,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	71	40	105	1	0	3.4	31	71.4	No	No official sponsor approval
081000290	Milam County Emergency Hazard Plan	Obtain Belton and Stillhouse Dam inundation maps and participate in hazard drills.	08000016	Milam	Study on Flood Preparedness	1017.3	Riverine, Local	Milam County	\$20,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	496	288	589	3	14	82.9	254	97,008.3	No	No official sponsor approval
081000291	Milam County Roads Improvements	Improvement of drainage across county roads.	08000009	Milam	Drainage Master Plans	1017.3	Riverine, Local	Milam County	\$1,883,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	496	288	589	3	14	82.9	254	97,008.3	No	No official sponsor approval
081000295	City of Buckholts Drainage Master Plan	Develop study to determine/ address flood risk.	08000014	Milam	Drainage Master Plans	1.4	Riverine, Local	City of Buckholts	\$164,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	9.7	No	No official sponsor approval
081000296	City of Cameron H&H Study to Determine Projects	Develop study to determine/ address flood risk.	08000014	Milam	Drainage Master Plans	5.2	Riverine, Local	City of Cameron	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	47	37	107	1	1	1.1	15	114.6	No	No official sponsor approval
081000297	Little River Ox Bow and Dam Improvement and Relocation	Improve dam to reduce flood risk downstream.	08000009	Milam	Preliminary Engineering	34.6	Riverine, Local	City of Cameron	\$219,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	51	37	111	1	1	5.2	21	4,143.1	No	No official sponsor approval
081000298	City of Milano H&H Study to Determine Improvement Projects	Develop study to determine/ address flood risk.	08000014	Milam	Drainage Master Plans	4.0	Riverine, Local	City of Milano	\$179,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	1	0	0.0	0	0.0	No	No official sponsor approval
081000300	City of Rockdale H&H Study to Determine Improvement Projects	Develop study to determine/ address flood risk.	08000014	Milam	Drainage Master Plans	1.8	Riverine, Local	City of Rockdale	\$229,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	187	153	289	0	0	3.7	35	9.8	No	No official sponsor approval
081000322	Teague Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Freestone	Drainage Master Plans	5.2	Riverine, Local	City of Teague	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	8.5	No	No official sponsor approval
081000323	Teague Riverine Erosion Control Master Plan	Develop study to determine/ address flood risk.	08000014	Freestone	Drainage Master Plans	20.5	Riverine	City of Teague	\$406,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	55	27	38	0	0	1.3	9	711.5	No	No official sponsor approval
081000324	City of Teague Drainage Infrastructure Improvements	Drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Freestone	Drainage Master Plans	3.3	Riverine, Local	City of Teague	\$216,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.1	No	No official sponsor approval
081000327	Grimes County Drainage Infrastructure Improvements	Identify flood-prone areas and determine mitigation including enlarging culverts under roads and bridges.	08000009	Washington, Grimes	Drainage Master Plans	798.9	Riverine, Local	Grimes County	\$1,706,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	662	383	1,533	5	13	36.9	149	30,989.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000331	Improve Cedar Creek	Improvements to channel to increase conveyance capacity.	08000009	Grimes, Brazos	Preliminary Engineering	13.4	Riverine	City of Navasota	\$111,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	286	189	1,048	2	4	9.5	57	2,157.4	No	No official sponsor approval
081000333	Drainage Study of Cedar Creek	Conduct a drainage study of Cedar Creek to identify flood areas and provide accurate data to assist the community with existing and future management of mitigation issues.	08000014	Bell	Regional Watershed Studies	29.8	Riverine	City of Navasota	\$174,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	11	0	3	0	3	3.8	12	612.1	No	No official sponsor approval
081000334	Drainage Study of Sandy Creek Tributary	Conduct drainage study of Sandy Creek Tributary and complete a flood control project to reduce flood levels on new structures.	08000014	Grimes	Regional Watershed Studies	58.7	Riverine	City of Navasota	\$305,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	226	137	426	3	0	8.0	38	3,030.3	No	No official sponsor approval
081000359	Johnson County Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	08000014	Johnson	Study on Flood Preparedness	731.2	Riverine	Johnson County	\$75,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,136	791	2,734	8	19	55.0	263	15,319.2	No	No official sponsor approval
081000365	City of Cleburne Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	08000014	Johnson	Study on Flood Preparedness	38.4	Riverine	City of Cleburne	\$214,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	600	432	2,390	8	8	23.6	132	1,759.2	No	No official sponsor approval
081000366	City of Godley Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	08000014	Johnson	Study on Flood Preparedness	2.2	Riverine	City of Godley	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	19	9	32	0	0	0.3	10	104.3	No	No official sponsor approval
081000368	City of Joshua Inundation Study of Hazardous Dams	Identify, through inundation studies, what property, utility or infrastructure would be impacted by dam failure within county	08000014	Johnson	Study on Flood Preparedness	9.2	Riverine	City of Joshua	\$79,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	53	46	105	0	0	0.9	7	187.3	No	No official sponsor approval
081000371	Drainage Improvements along CR1139	Drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Lampasas	Preliminary Engineering	4.5	Riverine, Local	Lampasas County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.1	2	12.7	No	No official sponsor approval
081000372	Drainage Improvements along CR4450	Drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Lampasas	Preliminary Engineering	1.7	Riverine, Local	Lampasas County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	0	0	0	0	0.0	0	17.4	No	No official sponsor approval
081000373	Lampasas County Curbing and Drainage Improvements	Study to determine how to install an effective curbing and drainage system	08000009	Lampasas	Drainage Master Plans	711.0	Riverine, Local	Lampasas County	\$1,627,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	788	299	3,183	6	34	25.3	161	9,390.2	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000378	Improve Flood Risk Assessment for Lee County	Incorporating the procedures for tracking high-water marks following a flood into emergency response plans. Using GIS to map areas that are at risk from flooding. Developing and maintaining a database to track community exposure to flood risk.	08000009	Lee	Study on Flood Preparedness	631.5	Riverine, Local	Lee County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	204	45	59	0	38	31.9	85	19,785.2	No	No official sponsor approval
081000379	Lee County Floodplain Management Plan	Develop a new floodplain management plan. Adopting a post-disaster recovery ordinance.	08000009	Lee	Study on Flood Preparedness	631.5	Riverine	Lee County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	204	45	59	0	38	31.9	85	19,785.2	No	No official sponsor approval
081000384	Lee County Project Prioritization Study	Develop study to determine/ address flood risk.	08000014	Lee	Feasibility Assessment	631.5	Riverine, Local	Lee County	\$1,550,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	204	45	59	0	38	31.9	85	19,785.2	No	No official sponsor approval
081000388	City of Lexington Floodplain Management Plan	Develop a new floodplain management plan. Adopting a post-disaster recovery ordinance.	08000009	Lee	Study on Flood Preparedness	1.2	Riverine	City of Lexington	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000396	City of Marquez Drainage Infrastructure Improvements	Study to determine whether new infrastructure is needed or how to improve existing drainage infrastructure.	08000009	Leon	Drainage Master Plans	1.3	Riverine, Local	City of Marquez	\$162,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	58	0	31	0	0	1.2	11	44.2	No	No official sponsor approval
081000398	City of Normangee Drainage Infrastructure Improvements	Study to determine whether new infrastructure is needed or how to improve existing drainage infrastructure.	08000009	Madison, Leon	Drainage Master Plans	1.1	Riverine, Local	City of Normangee	\$155,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	78	0	82	0	0	0.5	5	10.7	No	No official sponsor approval
081000405	City of Groesbeck Expand Drainage Ditches	Determine where to deepen and widen ditches to allow for rapid runoff of stormwater.	08000009	Limestone	Drainage Master Plans	4.4	Riverine, Local	City of Groesbeck	\$236,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	62	48	105	0	0	0.9	19	70.0	No	No official sponsor approval
081000508	City of Bryson Stream Restoration Program	Implement stream restoration / channelization program to ensure adequate drainage / diversion of stormwater.	08000009	Jack	Feasibility Assessment	1.2	Riverine	City of Bryson	\$159,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000518	City of Graham Upgrade Drainage Features	Upgrade undersized stormwater drains and culverts.	08000009	Young	Drainage Master Plans	5.6	Riverine, Local	City of Graham	\$256,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	408	220	777	3	5	9.2	36	31.6	No	No official sponsor approval
081000523	Create 2nd Main Water Line	New water line to increase capacity of system.	08000009	Young	Preliminary Engineering	27.0	Local	City of Graham	\$73,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	506	248	868	3	6	13.4	51	761.9	No	No official sponsor approval

Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000534	Comprehensive Flood Risk Study	Develop study to determine/ address flood risk.	08000014	Young, Archer	Study on Flood Preparedness	29.2	Riverine, Local	City of Olney	\$171,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	254	164	237	0	0	12.4	48	1,970.9	No	No official sponsor approval
081000542	City of Olney Upgrade Drainage Features	Comprehensive study of flood risk and reduction alternatives.	08000009	Young	Drainage Master Plans	2.0	Riverine, Local	City of Olney	\$184,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	203	140	192	0	0	4.6	30	39.9	No	No official sponsor approval
081000551	Robertson County Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Robertson	Drainage Master Plans	861.7	Riverine, Local	Robertson County	\$1,759,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	928	479	1,676	5	7	97.2	177	88,095.3	No	No official sponsor approval
081000553	Dam/Levee Failure Study	Develop study to determine/ address flood risk.	08000014	Robertson	Study on Flood Preparedness	861.7	Riverine	Robertson County	\$3,799,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	928	479	1,676	5	7	97.2	177	88,095.3	No	No official sponsor approval
081000555	Bremont Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Robertson	Drainage Master Plans	0.9	Riverine, Local	City of Bremont	\$145,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	2	1.7	No	No official sponsor approval
081000559	Calvert Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Robertson	Drainage Master Plans	3.9	Riverine, Local	City of Calvert	\$227,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	25	10	23	0	0	1.8	17	143.0	No	No official sponsor approval
081000563	Franklin Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Robertson	Drainage Master Plans	1.2	Riverine, Local	City of Franklin	\$157,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2	0	28	1	0	0.0	0	34.1	No	No official sponsor approval
081000572	Somervell County Drainage System Improvements	Study to identify capital improvements for the storm drainage system.	08000009	Somervell	Drainage Master Plans	190.8	Riverine, Local	Somervell County	\$958,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	395	194	1,350	10	27	18.2	88	4,655	No	No official sponsor approval
081000574	Somervell County Dam Failure Study	Develop study to determine/ address flood risk.	08000014	Johnson, Bosque, Hill, Somervell	Study on Flood Preparedness	237.6	Riverine	Somervell County	\$1,100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	472	196	1,321	10	13	70.3	156	12,814.8	No	No official sponsor approval
081000579	Glen Rose Master Drainage Plan	Develop study to determine/ address flood risk.	08000014	Somervell	Drainage Master Plans	3.9	Riverine, Local	City of Glen Rose	\$227,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	175	73	1,188	10	6	6.5	40	154.0	No	No official sponsor approval
081000581	Three Mile Creek Watershed Study	Watershed based planning and analysis to determine flood risk.	08000014	Waller	Regional Watershed Studies	515.9	Riverine	Waller County	\$2,312,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,038	1,007	1,327	0	15	88.9	194	43,836.2	No	No official sponsor approval
081000601	Cleanup of Indian Creek	Maintenance efforts to preserve hydraulic capacity and decrease risk to Railroad St.	08000009	Washington	Preliminary Engineering	39.8	Riverine	City of Brenham	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	28	13	279	1	2	9.4	28	2,580.5	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000605	Williamson County Comprehensive Flood Protection Plan	Develop study to determine/ address flood risk.	08000014	Williamson	Study on Flood Preparedness	1131.5	Riverine, Local	Williamson County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3,519	2,758	7,496	5	167	167.4	728	67,369.6	No	No official sponsor approval
081000610	New Town West Outlet Structure	New infrastructure to improve drainage conditions.	08000009	Travis, Williamson	Preliminary Engineering	45.6	Riverine, Local	City of Hutto	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	234	175	624	1	8	8.5	49	2,253.0	No	No official sponsor approval
081000611	Town of San Felipe Harvey State Mitigation Project	Improvement and upgrade of many drainage features throughout San Felipe.	08000009	Austin	Preliminary Engineering	8.6	Riverine, Local	Town of San Felipe	\$155,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	177	87.0	169	0	0	7.9883	23	597.4	No	No official sponsor approval
081000613	City of Freeport Sanitary System Flood Proofing	Implementation of point repairs, lateral seals, and manhole rehabilitation to protect system from storm events.	08000012	Brazoria	Preliminary Engineering	17.7	Local	City of Freeport	\$251,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	575	428.0	2566	3	0	17.8646	45	76.4	No	No official sponsor approval
081000615	Clute Regional Flood Risk Reduction	Ditch improvements at several key locations to reduce flood risk.	08000009	Brazoria	Study on Flood Preparedness	5.7	Local	City of Clute	\$62,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	7	0	18	0	0	1.3	2	51.5	No	No official sponsor approval
081000616	City of Oyster Creek Sanitary System Flood Proofing	Implementation of point repairs, lateral seals, and manhole rehabilitation to protect system from storm events.	08000012	Brazoria	Preliminary Engineering	2.1	Local	City of Oyster Creek	\$229,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	14	7.0	3	0	0	0.689649	2	7.1	No	No official sponsor approval
081000618	Glenwood Bayou Drainage Improvements	Improvement and upgrade of many drainage features throughout Glenwood Bayou.	08000009	Brazoria	Preliminary Engineering	4.7	Local	Town of Richmond	\$157,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1000	917.0	2783	6	0	15.6308	38	216.9	No	No official sponsor approval
081000619	Angleton Drainage Project	Improvement and upgrade of many drainage features throughout Glenwood Bayou.	08000009	Brazoria	Preliminary Engineering	11.7	Local	City of Angleton	\$1,127,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	67	65	170	0	0	6.7	10	103.8	No	No official sponsor approval
081000625	Texas Historical Commission & Brazoria County Joint Mitigation Application 1 FINAL	build both service and emergency spillways and implement drainage improvements to the Columbia Lakes Reservoir.	08000009	Brazoria	Preliminary Engineering	4.8	Local	Brazoria County	\$329,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	20	12.0	11	0	0	1.10624	4	166.0	No	No official sponsor approval
081000626	Town of Holiday Lakes Hurricane Harvey HUD Application	Improvements to road drainage at several locations, and addition of sluice gates into the drainage system.	08000009	Brazoria	Preliminary Engineering	1.0	Riverine, Local	Town of Holiday Lakes	\$163,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	474	416	553	2	0	15.0	65	81.8	No	No official sponsor approval
081000627	West Columbia Drainage Improvements	Improvements to 7 major drainage channels.	08000009	Brazoria	Preliminary Engineering	2.6	Local	City of West Columbia	\$231,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	21	20	50	0	0	0.2	6	1.3	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000628	Oyster Creek Wastewater Treatment Plant Improvements	Floodproofing of wastewater treatment plant.	08000012	Brazoria	Preliminary Engineering	0.0	Riverine, Local	City of Angleton	\$480,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	5	0	4	0	0	0.0	0	2.2	No	No official sponsor approval
081000629	City of Eastland Dam Repairs	Maintenance and spillway improvements to Ringling Lake dam and Lake Eastland Dam.	08000009	Eastland	Preliminary Engineering	46.0	Riverine	City of Eastland	\$388,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	334	181	829	5	0	13.6	92	394.4	No	No official sponsor approval
081000630	Lake Leon Dam Safety Improvements	Stabilization of the upstream embankment and rehabilitation of the spillway.	08000009	Eastland	Preliminary Engineering	0.0	Riverine	City of Eastland	\$382,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000632	Richmond Northside Drainage Improvements	Engineering study to determine how to elevate several key structures above base flood elevations.	08000009	Fort Bend	Preliminary Engineering	5.2	Local	City of Richmond	\$303,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	252	151	385	6	0	6.1	22	545.0	No	No official sponsor approval
081000633	Brazos River Stabilization	Riverbank stabilization along SH 99 and US 59/I-69 using environmentally friendly solutions.	08000009	Fort Bend	Preliminary Engineering	1.9	Riverine	Fort Bend County	\$2,958,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3	0	0	0	0	3.3	2	255.1	No	No official sponsor approval
081000634	City of Navasota Harvey State Mitigation Project	Drainage and street improvements along 3 major routes integral to the City.	08000009	Grimes, Brazos	Preliminary Engineering	8.2	Local	Grimes County	\$173,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	455	319	1,428	5	4	12.4	76	348.4	No	No official sponsor approval
081000635	City of Lexington Drainage Improvements	Storm sewer, culvert, and drainage ditch improvements at 3 areas of interest.	08000009	Lee	Preliminary Engineering	1.2	Local	City of Lexington	\$267,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000636	City of Rockdale Supplemental Drainage Project	Addition of storm sewer drainage to supplement roadside ditch.	08000009	Milam	Feasibility Assessment	4.0	Local	City of Rockdale	\$229,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	187	153	289	1	0	3.7	35	9.8	No	No official sponsor approval
081000637	Town of Buckholts Harvey Mitigation	Increase capacity of hydraulic features and redirect water away from water treatment plant.	08000009	Milam	Preliminary Engineering	1.4	Riverine, Local	Town of Buckholts	\$200,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	9.7	No	No official sponsor approval
081000639	Ham Branch Watershed Flood Mitigation	Implementation of several drainage features and streambank stabilization.	08000009	Milam	Regional Watershed Studies	16.5	Riverine, Local	City of Rockdale	\$113,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	192	156	295	1	0	4.3	38	123.5	No	No official sponsor approval
081000640	City of Milano Citywide Road and Drainage Improvements	Street improvements and addition of accompanying drainage features.	08000009	Milam	Preliminary Engineering	1.8	Local	City of Milano	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000641	Hempstead Citywide Drainage Project	Improvements to roadside ditch and addition of 2 detention facilities.	08000009	Waller	Preliminary Engineering	6.5	Riverine, Local	City of Hempstead	\$368,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	53	50	88	0	3	4.0	40	27.2	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000642	Burton Drainage & Flooding Improvements	Floodproofing of lift stations and water treatment plants, and street drainage improvements.	08000009	Washington	Preliminary Engineering	1.2	Local	City of Burton	\$177,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2	0	108	1	0	0.6	6	26.7	No	No official sponsor approval
081000643	Hogg Branch Creek Improvements	Channel improvements to increase drainage throughout Brenham.	08000009	Washington	Preliminary Engineering	9.4	Riverine, Local	City of Brenham	\$219,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	62	28	140	1	2	2.1	32	687.7	No	No official sponsor approval
081000644	City of Taylor Regional Detention and Channel Improvements	Addition of 2 drainage facilities in the region and corresponding channel improvements.	08000009	Williamson	Drainage Master Plans	20.5	Riverine, Local	City of Taylor	\$406,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	88	63	194	0	11	4.5	35	741.4	No	No official sponsor approval
081000689	Sprucewood Street Flooding	A study of the Sprucewood Street drainage and a detailed design phase is needed to assess existing flooding and propose improvements that will reduce flooding in the area. This project includes the local analysis to determine the cause of flooding and *	08000014	Brazos	Preliminary Engineering	0.2	Local	City of Bryan	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000693	Spring Lane Residential Flooding	Drainage study to assess flooding in the neighborhood and propose improvements	08000014	Brazos	Preliminary Engineering	0.7	Local	City of Bryan	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	67	61	103	0	2	1.1	11	0.0	No	Study area is less than one square mile.
081000697	Burton Creek Trib 7 Mitigation	Detailed study to determine flooding caused by Burton Creek Trib 7 and determine flood mitigation solutions.	08000014	Brazos	Preliminary Engineering	1.0	Riverine	City of Bryan	\$86,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	100	93	274	0	3	0.8	12	0.0	No	Study area is less than one square mile.
081000723	Ranchettes 2 and 3 - East	Update road and add drainage swale.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$53,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000724	Ranchettes 2 and 3 - West	Update road and add drainage swale.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$81,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000725	Ranchettes 4 - North	Local infrastructure improvements including addition of drainage swales to the roads.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$96,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000726	Ranchettes 4 - South A	Update road and add drainage swale.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$83,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000727	Ranchettes 4 - South B	Update road and add drainage swale.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$71,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000728	Ranchettes 6 and 6A - North B	Addition of roadside and interconnecting drainage swales.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$130,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000729	Ranchettes 6 and 6A - North A	Addition of drainage swales that outfall into Block House Creek.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$56,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000730	Block House Creek	Property acquisition and crossing improvements to create room for consistent channelization.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$192,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000733	Ranchettes 6 and 6A - South A	Local infrastructure improvements adjacent to the creek.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$126,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000734	Ranchettes 6 and 6A - South B	Addition of roadside and interconnecting drainage swales.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$127,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000735	Riviera - Northwest	Addition of roadside drainage swale and several outfalls into the floodplain.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$76,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000736	Riviera - East	Addition of roadside drainage swale and several outfalls into the floodplain.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$125,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000737	Riviera - Southwest	Addition of roadside drainage swale and several outfalls into the floodplain.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$74,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000738	Cluck Creek - Upper	Re-grading of natural channel.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$78,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000739	Cluck Creek - Lower	Re-grading of natural channel.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Cedar Park	\$155,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000740	Deer Run	Addition of underground storm drainage and associated inlets.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$80,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000741	Spanish Oak Creek	Increase channel capacity.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine	City of Cedar Park	\$80,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000745	Suja Lane	Implementation of detention basin to alleviate street and property flooding.	08000009	Lampasas, Coryell	Preliminary Engineering	3.3	Riverine, Local	City of Copperas Cove	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	20	20	35	0	2	1.2	23	4.2	No	No official sponsor approval
081000752	Goode - Connell Park Regional Detention Pond Improvement & Proposed Drainage Channel	Expand the regional detention pond to reduce outflow and improve outlet channel.	08000009	Bell	Preliminary Engineering	32.2	Riverine, Local	City of Harker Heights	\$66,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	247	113	489	1	8	11.6	39	709.7	No	No official sponsor approval
081000756	Christina Circle Drainage Improvements	Re-grading of cul-de-sac to improve drainage and replacement of existing flume.	08000009	Bell	Preliminary Engineering	0.2	Riverine, Local	City of Harker Heights	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000757	Indian Trail Downstream Channel Improvements	Channel improvements.	08000009	Bell	Preliminary Engineering	15.6	Riverine, Local	City of Harker Heights	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	257	127	599	0	7	4.1	45	118.3	No	No official sponsor approval
081000762	Warriors Path Drainage Improvements	Drainage channel and structure improvements.	08000009	Bell	Feasibility Assessment	6.3	Riverine, Local	City of Harker Heights	\$266,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	35	0	41	1	2	3.2	10	207.5	No	No official sponsor approval
081000764	City of Round Rock Erosion Control	Erosion control at several key tributaries.	08000009	Travis, Williamson	Drainage Master Plans	37.8	Riverine	City of Round Rock	\$510,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	234	192	698	1	11	5.0	57	414.2	No	No official sponsor approval
081000767	Chisolm Valley	Additional modeling to determine detention basin improvements and placement.	08000009	Travis, Williamson	Preliminary Engineering	25.6	Riverine, Local	City of Round Rock	\$138,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	269	230	819	0	11	5.4	41	101.9	No	No official sponsor approval
081000779	Stewart Ditch Channel Repair and Improvements	Channel improvements.	08000009	Bell	Preliminary Engineering	2.1	Riverine, Local	City of Killeen	\$67,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	158	135	468	1	8	1.8	20	2.8	No	No official sponsor approval
081000780	Dickens Ditch Stream Repair	Stabilization efforts downstream of Westcliff Road.	08000009	Bell	Preliminary Engineering	0.8	Local	City of Killeen	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	1	2	0	1	0.0	0	0.0	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
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081000782	Bunny Trail Drainage Improvements	Preliminary engineering to determine drainage improvements.	08000009	Bell	Preliminary Engineering	1082.2	Local	City of Killeen	\$52,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,764	1,422	8,178	10	146	136.7	684	50,910.7	No	No official sponsor approval
081000865	Flat Bank Creek Widening and Clean-Out Project	Improvements to Flat Bank Creek.	08000009	Fort Bend	Preliminary Engineering	11.7	Riverine	Sienna LID	\$133,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	30	20	36	0	0	1.5	7	362.4	No	No official sponsor approval
081000874	Nolan Creek Flood Protection Planning Study	Study to provide flood protection planning in the Nolan Creek Watershed and to develop an early warning system, local flood response plan, and possible flood protection plan.	08000014	Bell	Regional Watershed Studies	68.4	Riverine	Bell County	\$349,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	388	153	2,305	5	11	17.3	85	1,864.2	No	No official sponsor approval
081000875	Mary Avenue Diversion	Diversion channel to redirect water away from Mary Avenue.	08000009	McLennan	Preliminary Engineering	15.0	Riverine, Local	City of Waco	\$1,909,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	622	455	9,503	3	2	10.3	138	5.7	No	No official sponsor approval
081000878	S. MLK Jr Boulevard Channel Improvements	Channel improvements to increase the conveyance capacity of the roadside ditch.	08000009	McLennan	Preliminary Engineering	13.2	Riverine, Local	City of Waco	\$117,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	578	328	5,346	8	1	32.0	108	196.1	No	No official sponsor approval
081000884	N. 10th, 15th, 31st, 33rd Street, and Grice Drive Buyouts	Property acquisition of several residences at high flood risk.	08000009	McLennan	Preliminary Engineering	1.1	Riverine, Local	City of Waco	\$366,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	129	121	549	1	0	1.5	31	0.3	No	No official sponsor approval
081000917	Develop Capital Improvements Plan	Develop plan to provide prediction of funds available for long term improvements and equipment that would be beneficial.	08000014	Williamson	Study on Flood Preparedness	0.9	Riverine, Local	City of Florence	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	57	50	89	0	0	2.4	12	45.8	No	Study area is less than one square mile.
081000946	Brushy Creek Stabilization	Use toe blocks and re-establish riparian vegetation zone to stabilize 1200 feet of stream banks.	08000009	Williamson	Feasibility Assessment	0.4	Riverine	City of Round Rock	\$121,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	25	22	77	0	0	0.1	3	1.1	No	Study area is less than one square mile.
081000961	Dam 15 Rehabilitation	The rehabilitation project will repair erosion along the upstream toe of the dam that has been caused by wind-driven wave action.	08000009	Williamson	Preliminary Engineering	0.8	Riverine, Local	Upper Brushy Creek WCID	\$111,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	0	0	0	0	0.0	0	92.0	No	Study area is less than one square mile.
081000962	Rowland Ave/Frey St Drainage Improvements	Update design to account for Atlas 14 rainfall.	08000009	Erath	H&H Modeling	0.3	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	37	31	152	0	1	0.7	5	2.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
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081000963	Tarleton St/Rowland Ave Drainage Improvements Ph 1&2	Update design to account for Atlas 14 rainfall.	08000009	Erath	H&H Modeling	0.3	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081000964	Crow St/Long St Drainage Improvements	Update design to account for Atlas 14 rainfall.	08000009	Erath	H&H Modeling	0.2	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	12	2	9	0	0	0.3	4	15.5	No	No official sponsor approval
081000966	Simonton Ring Levee	Construction of a ring levee to protect Brazos Valley Development between Bessie's Creek and the Brazos River.	08000009	Fort Bend, Austin, Waller	Preliminary Engineering	113.3	Riverine	City of Simonton	\$1,828,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,546	1,703	2,826	1	2	88.4	171	22,599.5	No	No official sponsor approval
081000967	Weston Lakes Levee	Construction of 2 levees to protect the Weston Lake Development.	08000009	Fort Bend, Austin, Waller	Preliminary Engineering	82.6	Riverine	City of Fulshear	\$551,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,308	836	1,951	1	2	39.0	114	12,478.0	No	No official sponsor approval
081000968	Columbia Lakes Levee	Construction of 2 levees to protect the Columbia Lakes Development.	08000009	Brazoria	Preliminary Engineering	49.2	Riverine	City of West Columbia	\$382,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	620	442	850	0	0	20.8	49	5,093.4	No	No official sponsor approval
081000969	Oyster Creek Levee	Construction of a ring levee to protect the Lake Jackson Development.	08000009	Brazoria	Preliminary Engineering	94.3	Riverine	City of Lake Jackson	\$4,686,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3,718	3,208	7,487	3	0	148.5	235	17,818.7	No	No official sponsor approval
081000970	Pecan Grove Levee	Construction of a ring levee to protect development in the Bullhead Bayou and Pecan Grove area.	08000009	Fort Bend	Preliminary Engineering	115.6	Riverine	City of Richmond	\$2,368,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3,662	2,928	6,574	12	1	72.8	231	16,072.1	No	No official sponsor approval
081000974	Commonwealth Blvd Drainage Improvements	Design and construct drainage improvements along Commonwealth Blvd between Monarch Dr, Elkins Rd, St Michaels Ct, and Knightsbridge Ct.	08000009	Fort Bend	Preliminary Engineering	0.9	Local	City of Sugar Land	\$183,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000975	Covington West and Imperial Woods Drainage Improvements	Drainage infrastructure improvements to reduce flooding in the Covington West drainage area.	08000009	Fort Bend	Preliminary Engineering	0.6	Local	City of Sugar Land	\$215,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000983	Imperial Woods/Lynnwood Lane Drainage Improvements	Upsize water system and inlet replacement along Woodchester, Lynnwood, Oakwood, and Fernhill.	08000009	Fort Bend	Preliminary Engineering	0.3	Local	City of Sugar Land	\$166,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000984	Monarch Dr Drainage Improvements	Upsize storm water system south of Commonwealth Blvd.	08000009	Fort Bend	Preliminary Engineering	0.3	Local	City of Sugar Land	\$183,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	1	0.0	No	Study area is less than one square mile.

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081000985	Riverbend North Drainage Improvements	Upsize storm water system and inlets in Riverbend North.	08000009	Fort Bend	Preliminary Engineering	0.2	Local	City of Sugar Land	\$166,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	199	192	348	1	0	2.6	10	3.9	No	Study area is less than one square mile.
081000986	Lakes of Austin Park Drainage Improvements	Upsize storm water systems and inlets.	08000009	Fort Bend	Preliminary Engineering	0.2	Local	City of Sugar Land	\$129,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000991	Williams Trace and Highlands Drainage Improvements	Upsize storm water system and install inlet improvements along Williams Trace from south of SH 6 to Oyster Creek and Lexington Blvd from Williams Trace to Oyster Creek.	08000009	Fort Bend	Preliminary Engineering	0.7	Local	City of Sugar Land	\$388,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	Study area is less than one square mile.
081000998	Pierce Street Storm Drain Improvements	Upsizing of storm sewer throughout the neighborhood to prevent flooding for the 10-year storm.	08000009	Brazos	Preliminary Engineering	1.3	Riverine	City of Bryan	\$129,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	20	20	49	0	0	0.2	0	0.0	No	Study area is less than one square mile.
081001002	23rd Street Draining & Maintenance	Study to determine cause and proposed alternatives to mitigate flooding in the subdivision.	08000014	Brazos	Preliminary Engineering	0.6	Local	City of Bryan	\$128,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	1	1	0	0	0.0	2	0.0	No	Study area is less than one square mile.
081001004	Shirley Lane Flooding	Street reconstruction to better direct flow and expand roadside ditch.	08000010	Brazos	Preliminary Engineering	0.6	Local	City of Bryan	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	22	19	63	0	1	0.4	4	0.2	No	Study area is less than one square mile.
081001028	Storm Sewer at UPRR Rail and 31st Street	Design of improvements to storm sewer to increase capacity under the identified crossing.	08000009	Brazos	Preliminary Engineering	0.4	Local	City of Bryan	\$80,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2	0	40	0	0	0.1	1	0.0	No	Study area is less than one square mile.
081001029	Downtown Storm Sewer Improvements to Still Creek	Study and design of storm drain improvements throughout the Still Creek watershed.	08000009	Brazos	Feasibility Assessment	0.5	Local	City of Bryan	\$126,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	1	0.0	No	Study area is less than one square mile.
081001030	Erosion Master Plans: Briar Creek at Bob Bond Park	Study to determine erosion solutions along Briar Creek.	08000009	Brazos	Drainage Master Plans	0.1	Riverine	City of Bryan	\$94,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	10	10	20	0	1	0.1	2	0.0	No	Study area is less than one square mile.
081001031	Burton Creek Failed Channel Linings	Study to design fixes for channel linings along Burton Creek.	08000014	Brazos	Preliminary Engineering	0.6	Riverine	City of Bryan	\$148,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	195	171	781	1	5	2.2	25	0.0	No	Study area is less than one square mile.
081001042	Elm St/Graham Ave Drainage Improvements Ph 1&2	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.5	Riverine, Local	City of Stephenville	\$300,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001043	Second Ave/Hyman Ave/Alexaner Rd Drainage Improvements	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.4	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	2	0.0	No	No official sponsor approval
081001044	Lingleville Rd Drainage Improvements	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.8	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	4	2	7	0	0	0.2	1	25.0	No	No official sponsor approval
081001045	Moonlight Tr Drainage Improvements	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.2	Riverine, Local	City of Stephenville	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081001046	Old Hico Rd Drainage Improvements	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.1	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	0.0	No	No official sponsor approval
081001047	Dale Ave Drainage Improvements	Update design to account for Atlas 14 rainfall.	08000006	Erath	H&H Modeling	0.5	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	1	2	0	2	0.6	8	0.3	No	No official sponsor approval
081001048	Belknap Drainage Improvements	Update design to account for Atlas 14 rainfall.	08000006	Erath	H&H Modeling	0.4	Riverine, Local	City of Stephenville	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	9	2	10	0	0	0.3	3	10.4	No	No official sponsor approval
081001049	Northwest Loop Subbasin	Update design to account for Atlas 14 rainfall.	08000006	Erath	H&H Modeling	2.5	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	58	35	174	0	2	1.3	12	13.7	No	No official sponsor approval
081001051	Lockhart Rd Culverts	Proposed improvements to culverts, need a more in depth study of associated road improvements.	08000014	Erath	Preliminary Engineering	1.5	Riverine, Local	City of Stephenville	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1	1	1	0	0	0.2	3	10.3	No	No official sponsor approval
081001052	Swan St Culverts	Update design to account for Atlas 14 rainfall.	08000006	Erath	H&H Modeling	0.4	Riverine, Local	City of Stephenville	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	20	16	37	0	0	0.5	4	0.7	No	No official sponsor approval
081001053	Prairie Wind Improvements	Update design to account for Atlas 14 rainfall.	08000006	Erath	H&H Modeling	1.7	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	9	9	30	0	3	1.1	10	60.9	No	No official sponsor approval
081001055	Rowland Channel Drainage Improvements	Alternative analysis to determine whether property acquisition or addition of detention is more feasible.	08000014	Erath	Feasibility Assessment	2.5	Riverine, Local	City of Stephenville	\$198,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	58	35	174	0	2	1.3	12	13.7	No	No official sponsor approval
081001056	Spring Bouquet Drainage Improvements	Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.	08000006	Erath	H&H Modeling	0.2	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	16.8	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001065	Carters Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Brazos	Regional Watershed Studies	58.3	Riverine	City of College Station	\$304,000	Local, TWDB FIF, FEMA FMA	849	646	2,564	8	43	17.1	152	1,274.5	No	No official sponsor approval
081001115	City of Killeen Early Flood Warning System	Develop and implement a warning system to notify public of flood risk.	8000019	Bell	Flood Measurement and Warning	53.8	Riverine	City of Killeen	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	799	564	2,707	2	49	265.0	15	3,037.0	No	No official sponsorship approval.
081001117	City of Cleburne Early Flood Warning System	Develop an early warning system for Buffalo and Meaner Creek which would remotely alert at the site when the water reaches a dangerous level.	8000019	Johnson	Flood Measurement and Warning	31.2	Riverine	City of Cleburne	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	584	422	2,384	8	8	239.0	22	7,290.0	No	No official sponsorship approval.
081001147	University Oaks Crossing	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.6	Riverine, Local	City of College Station	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	31	13	150	0	5	1.3	2	23.7	No	Study area is less than one square mile.
081001149	Southwest Pkwy Crossing Trib B.1	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.1	Riverine, Local	City of College Station	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	1.6	1	4.2	No	Study area is less than one square mile.
081001150	Southwest Pkwy Crossing Trib B.2.1	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.2	Riverine, Local	City of College Station	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2	2	5	0	0	0.2	0	2.4	No	Study area is less than one square mile.
081001151	Southwest Pkwy Crossing Trib B.2	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.2	Riverine, Local	City of College Station	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	17	14	32	0	0	0.5	0	3.3	No	Study area is less than one square mile.
081001152	Miliff Rd Crossing	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.9	Riverine, Local	City of College Station	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	9	9	136	0	2	1.0	0	1.3	No	Study area is less than one square mile.
081001154	Holleman Crossing & Channel Improvements (Glade to Holleman)	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.9	Riverine, Local	City of College Station	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3	3	8	0	0	1.3	2	9.3	No	Study area is less than one square mile.
081001155	Harvey Rd Crossing	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.6	Riverine, Local	City of College Station	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	31	13	150	0	5	1.3	2	23.7	No	Study area is less than one square mile.
081001157	Brothers Blvd Crossing & Channel (Rio Grande to Longmire)	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.7	Riverine, Local	City of College Station	\$300,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.6	1	12.4	No	Study area is less than one square mile.

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001158	Channel Upstream of Welsh	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.3	Riverine, Local	City of College Station	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.3	0	14.3	No	Study area is less than one square mile.
081001159	Texas Ave Crossing & Channel Improvements (Longmire to Hwy 6)	Update design to account for Atlas 14 rainfall.	08000006	Brazos	H&H Modeling	0.7	Riverine, Local	City of College Station	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	24	14	6	0	0	1.3	3	15.7	No	Study area is less than one square mile.
081001160	Berry Branch Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson, Milam	Drainage Master Plans	55.7	Riverine, Local	Williamson	\$591,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	41	21	27	1	8	9.8	36	7,743.8	No	No official sponsor approval
081001161	Big Creek Navasota DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Grimes, Brazos	Drainage Master Plans	58.8	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$604,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	346	233	1,065	2	4	16.9	60	15,183.6	No	No official sponsor approval
081001162	Boggy Creek Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Travis, Williamson	Drainage Master Plans	59.8	Riverine, Local	Williamson	\$607,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	143	118	141	0	6	7.5	25	8,635.8	No	No official sponsor approval
081001163	Brazoria DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Brazoria, Fort Bend	Drainage Master Plans	607.9	Riverine, Local	Brazoria	\$1,526,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	13,458	10,611	26,103	25	0	449.1	751	87,452.2	No	No official sponsor approval
081001164	Lampasas Sulphur Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Burnet, Lampasas	Drainage Master Plans	65.5	Riverine, Local	Grimes	\$629,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	663	273	3,160	6	12	15.2	90	1,094.0	No	No official sponsor approval
081001165	Thompson Branch-Davidson Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Burleson	Drainage Master Plans	48.4	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$560,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	129	61	320	5	1	6.4	34	2,117.7	No	No official sponsor approval
081001166	Castleman Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	27.7	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$454,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	160	132	504	1	1	4.0	30	1,853.6	No	No official sponsor approval
081001167	Cleburne-Buffalo Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Johnson	Drainage Master Plans	68.3	Riverine, Local	Grimes	\$639,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	816	601	2,541	8	12	21.4	152	2,859.2	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001168	Clifton DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bosque	Drainage Master Plans	41.5	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$528,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	285	156	692	1	6	13.3	77	4,982.8	No	No official sponsor approval
081001169	Copperas Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Brown, Comanche, Eastland	Drainage Master Plans	54.2	Riverine, Local	Grimes	\$585,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	168	94	122	2	1	13.6	55	2,670.2	No	No official sponsor approval
081001170	Cottonwood Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	50.1	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$567,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,546	974	15,805	11	3	62.3	290	3,255.4	No	No official sponsor approval
081001171	Dry Berry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	37.7	Riverine, Local	Williamson	\$509,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	100	53	86	0	5	7.1	26	2,789.6	No	No official sponsor approval
081001172	Flat Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	18.6	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$392,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	201	114	1,789	3	1	5.7	41	886.4	No	No official sponsor approval
081001173	Hogpen Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Falls, Limestone, McLennan	Drainage Master Plans	48.6	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$561,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	42	25	40	0	6	3.3	31	3,521.1	No	No official sponsor approval
081001174	Comanche-Indian Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Comanche	Drainage Master Plans	54.6	Riverine, Local	Grimes	\$587,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	237	148	367	1	4	8.9	64	3,166.9	No	No official sponsor approval
081001175	Lake Waco DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Coryell, McLennan	Drainage Master Plans	107.4	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$763,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	387	212	575	1	8	54.7	108	6,807.5	No	No official sponsor approval
081001176	Mustang Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	55.2	Riverine, Local	Williamson	\$589,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	111	71	199	0	13	6.6	51	4,157.2	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001177	Nash Creek-Leon DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Eastland	Drainage Master Plans	58.1	Riverine, Local	Grimes	\$601,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	8	0	2	0	3	7.9	26	2,360.8	No	No official sponsor approval
081001178	Eastland-Lake Leon DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Eastland	Drainage Master Plans	147.1	Riverine, Local	Grimes	\$864,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	626	325	1,006	6	0	36.6	143	2,716.8	No	No official sponsor approval
081001179	Sandy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Grimes	Drainage Master Plans	58.7	Riverine, Local	Grimes	\$603,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	226	137	426	3	0	8.0	38	3,030.3	No	No official sponsor approval
081001180	South Nolan Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bell, Coryell	Drainage Master Plans	91.9	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$718,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,237	740	5,003	7	60	30.2	208	1,514.0	No	No official sponsor approval
081001181	Tradinghouse Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Limestone, McLennan	Drainage Master Plans	39.0	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$516,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	46	28	55	0	4	4.0	23	1,642.8	No	No official sponsor approval
081001182	Turkey Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson, Milam	Drainage Master Plans	62.8	Riverine, Local	Williamson	\$619,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	92	69	81	0	4	7.1	34	7,858.3	No	No official sponsor approval
081001183	White Rock Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	53.5	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$582,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	288	155	513	0	3	6.8	36	5,620.0	No	No official sponsor approval
081001184	Lake Graham-Salt Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Young	Drainage Master Plans	59.6	Riverine, Local	Grimes	\$607,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	595	369	873	3	5	14.0	49	2,247.1	No	No official sponsor approval
081001185	Walnut Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Hood	Drainage Master Plans	62.3	Riverine, Local	Grimes	\$617,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	616	525	1,180	0	7	6.9	58	335.0	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001186	Bee Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Hood, Parker	Drainage Master Plans	60.1	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$609,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,220	976	2,076	1	1	26.4	104	3,867.7	No	No official sponsor approval
081001187	Pollard Creek-Crystal Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Palo Pinto	Drainage Master Plans	54.5	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$586,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	398	242	1,541	4	1	17.8	147	1,800.4	No	No official sponsor approval
081001188	Middle Rock Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000014	Palo Pinto, Parker	Drainage Master Plans	22.3	Local	Grimes	\$419,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	71	7	575	2	1	4.1	39	679.4	No	No official sponsor approval
081001189	Rice Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan, Hill	Drainage Master Plans	28.8	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$460,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	29	8	40	0	2	3.7	21	2,922.0	No	No official sponsor approval
081001190	Tehuacana Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Limestone, McLennan, Hill	Drainage Master Plans	120.6	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$799,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	265	156	331	1	5	27.1	67	11,022.3	No	No official sponsor approval
081001191	Dry Creek-Aquilla Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan, Hill	Drainage Master Plans	67.3	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$636,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	47	18	58	0	0	2.8	19	5,728.5	No	No official sponsor approval
081001192	Eagle Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	26.0	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$443,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	228	158	328	0	2	1.0	9	1,998.1	No	No official sponsor approval
081001193	Manos Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	McLennan	Drainage Master Plans	57.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$597,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	52	17	62	0	2	5.8	24	9,195.3	No	No official sponsor approval
081001194	Lower Hackberry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Hill	Drainage Master Plans	65.7	Riverine, Local	Grimes	\$630,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	57	29	292	0	3	7.9	52	3,636.6	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001195	Cottonwood Creek-Aquilla Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Johnson, Hill	Drainage Master Plans	64.0	Riverine, Local	Grimes	\$624,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	47	19	44	0	1	4.4	19	2,346.6	No	No official sponsor approval
081001196	Somervell-Paluxy River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Hood, Bosque, Somervell	Drainage Master Plans	56.9	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$596,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	219	97	1,221	10	14	9.6	55	935.0	No	No official sponsor approval
081001197	Stanifer Branch-North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bosque	Drainage Master Plans	50.3	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$569,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	110	50	184	2	0	6.5	36	4,235.0	No	No official sponsor approval
081001198	South Fork North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Erath	Drainage Master Plans	50.1	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$567,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	42	21	56	0	6	5.7	33	2,471.3	No	No official sponsor approval
081001199	Indian Creek-North Bosque River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Erath	Drainage Master Plans	49.1	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$563,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	210	121	354	0	7	6.3	56	2,376.7	No	No official sponsor approval
081001200	Green Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Erath	Drainage Master Plans	73.8	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$659,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	98	56	101	0	5	9.9	47	3,560.7	No	No official sponsor approval
081001201	Bull Hide Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Falls, McLennan	Drainage Master Plans	35.9	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	15	9	14	0	3	2.8	21	1,857.4	No	No official sponsor approval
081001202	South Cow Bayou DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Falls, McLennan	Drainage Master Plans	47.9	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$558,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	14	11	11	0	0	1.6	13	1,508.8	No	No official sponsor approval
081001203	North Cow Bayou DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Falls, McLennan	Drainage Master Plans	37.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$507,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	37	22	35	0	1	2.7	20	1,432.6	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001205	Donahoe Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller, Washington	Drainage Master Plans	57.9	Riverine, Local	Waller	\$600,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	41	5	22	0	0	11.3	9	12,819.4	No	No official sponsor approval
081001206	Lost Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Milam, Robertson	Drainage Master Plans	60.8	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$611,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	280	172	814	2	0	27.6	49	16,807.1	No	No official sponsor approval
081001207	Bryan-Thompsons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Brazos	Drainage Master Plans	53.3	Riverine, Local	Bryan	\$581,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	264	172	584	0	15	8.6	56	1,520.1	No	No official sponsor approval
081001208	Rocky Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller, Washington, Grimes	Drainage Master Plans	60.6	Riverine, Local	Grimes	\$611,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	67	8	75	0	0	4.2	8	11,476.9	No	No official sponsor approval
081001209	Second Davidson Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Burleson	Drainage Master Plans	41.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$527,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	48	36	84	0	0	3.5	31	1,036.1	No	No official sponsor approval
081001210	Holland Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Grimes	Drainage Master Plans	42.5	Riverine, Local	Grimes	\$533,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	7	2	9	0	5	2.8	11	2,564.1	No	No official sponsor approval
081001211	Bee Creek-Carters Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Brazos	Drainage Master Plans	43.0	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$535,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	831	630	2,968	4	43	16.1	148	590.7	No	No official sponsor approval
081001212	Upper Resley Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Comanche, Erath	Drainage Master Plans	49.5	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$565,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	53	26	52	0	9	6.6	56	2,247.3	No	No official sponsor approval
081001213	Hamilton-Pecan Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Hamilton	Drainage Master Plans	29.7	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$465,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	104	39	410	1	9	4.8	55	760.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001214	Pepper Creek-Leon River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bell	Drainage Master Plans	46.9	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$553,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	234	132	703	1	4	4.3	51	888.6	No	No official sponsor approval
081001215	Cottonwood Creek-Leon River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Coryell	Drainage Master Plans	64.0	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$623,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	101	54	226	0	4	5.7	39	2,818.8	No	No official sponsor approval
081001216	Little Elm Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bell	Drainage Master Plans	35.5	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$498,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	171	85	1,015	1	7	7.5	63	1,731.5	No	No official sponsor approval
081001217	Camp Creek-Big Elm Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Milam, Bell, Falls	Drainage Master Plans	58.7	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$603,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	48	5	39	0	4	8.0	29	6,616.6	No	No official sponsor approval
081001218	Upper Donahoe Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson, Bell	Drainage Master Plans	45.4	Riverine, Local	Williamson	\$547,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	14	7	10	0	9	3.5	15	2,170.9	No	No official sponsor approval
081001219	Mileham Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	39.0	Riverine, Local	Williamson	\$516,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	401	314	610	0	8	14.6	67	3,411.5	No	No official sponsor approval
081001220	Opossum Creek-Willis Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	55.6	Riverine, Local	Williamson	\$591,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	197	141	151	0	10	10.3	43	4,793.4	No	No official sponsor approval
081001221	Pecan Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	29.9	Riverine, Local	Williamson	\$466,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	174	115	196	0	3	6.8	21	5,640.0	No	No official sponsor approval
081001222	Granger Lake DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	53.7	Riverine, Local	Williamson	\$583,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	118	84	152	1	5	7.8	27	4,459.9	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001223	Upper Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Travis, Williamson	Drainage Master Plans	185.2	Riverine, Local	Williamson	\$946,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	993	792	2,875	3	47	29.1	203	3,184.4	No	No official sponsor approval
081001224	Smith Branch-San Gabriel River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	21.6	Riverine, Local	Williamson	\$413,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	193	152	490	0	3	9.1	55	637.2	No	No official sponsor approval
081001225	Lower Berry Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Williamson	Drainage Master Plans	49.4	Riverine, Local	Williamson	\$565,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	68	64	166	0	5	5.3	24	865.1	No	No official sponsor approval
081001226	Lower Allens Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin	Drainage Master Plans	34.2	Riverine, Local	Austin	\$491,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	106	65	136	0	0	7.2	10	5,669.6	No	Provided by sponsor and is in line with the TWDB requirements.
081001227	Upper Allens Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin	Drainage Master Plans	33.9	Riverine, Local	Austin	\$489,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	382	256	725	2	0	13.0	32	2,250.0	No	No official sponsor approval
081001228	Ponds Creek-Clear Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000014	Waller	Drainage Master Plans	46.9	Riverine, Local	Waller	\$554,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	66	50	68	0	1	3.9	26	437.8	No	No official sponsor approval
081001229	Threemile Creek-Clear Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller	Drainage Master Plans	28.7	Riverine, Local	Waller	\$459,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	227	71	146	0	2	6.9	43	2,523.2	No	No official sponsor approval
081001230	Hempstead-Blasingame Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin, Waller	Drainage Master Plans	28.1	Riverine, Local	Waller	\$456,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	68	44	50	0	1	2.5	30	3,422.6	No	No official sponsor approval
081001231	Ives Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin, Waller	Drainage Master Plans	44.0	Riverine, Local	Austin	\$540,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	255	88	86	0	0	12.4	21	9,796.1	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001232	Sandy Creek-Mill Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin	Drainage Master Plans	56.1	Riverine, Local	Austin	\$593,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	149	90	519	1	3	9.4	56	4,375.8	No	No official sponsor approval
081001233	Deadman Creek-Mill Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000014	Austin, Waller	Drainage Master Plans	52.5	Riverine	Austin	\$578,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	321	171	95	0	0	19.0	26	10,180.6	No	No official sponsor approval
081001234	Harris Creek-Irons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller	Drainage Master Plans	31.0	Riverine, Local	Waller	\$473,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	126	58	72	0	0	9.3	23	7,416.8	No	No official sponsor approval
081001235	Mulberry Creek-Irons Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000014	Waller	Drainage Master Plans	24.0	Riverine, Local	Waller	\$430,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	213	100	72	0	1	6.5	16	5,976.1	No	No official sponsor approval
081001236	Bessies Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller	Drainage Master Plans	52.5	Riverine, Local	Waller	\$578,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	343	186	198	0	8	10.9	22	6,110.3	No	No official sponsor approval
081001237	Bullinger Creek-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000014	Austin, Waller	Drainage Master Plans	28.4	Riverine	San Felipe	\$458,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	307	179	353	0	1	12.7	38	4,315.7	No	No official sponsor approval
081001238	Cannons Lake-Brazos River DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Austin, Waller	Drainage Master Plans	22.7	Riverine, Local	Austin	\$421,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	597	344	301	0	0	29.4	23	7,109.2	No	No official sponsor approval
081001239	Brookshire DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Waller	Drainage Master Plans	25.8	Riverine, Local	Waller	\$442,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	423	216	683	0	1	9.5	40	2,127.9	No	No official sponsor approval
081001240	Dry Brushy Creek-Brushy Creek DMP	Drainage master plan developed under Task 4A to identify areas of high flood risk and develop flood mitigation solutions	08000009	Bastrop, Travis, Williamson	Drainage Master Plans	43.5	Riverine, Local	Williamson	\$538,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	41	33	29	0	3	5.7	24	5,162.4	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001241	Lake Proctor	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Stephens, Brown, Comanche, Callahan, Eastland, Erath	Regional Watershed Studies	1020.5	Riverine	Grimes	\$4,477,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	654	261	768	6	16	148.7	436	46,578.8	No	No official sponsor approval
081001242	Middle Bosque River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Coryell, McLennan, Bosque	Regional Watershed Studies	198.5	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$928,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	154	74	199	0	4	12.1	78	16,002.7	No	No official sponsor approval
081001243	Hog Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Coryell, McLennan, Hamilton, Bosque	Regional Watershed Studies	90.0	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$446,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	99	29	104	0	6	10.4	43	7,391.3	No	No official sponsor approval
081001244	North Bosque River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Coryell, McLennan, Hamilton, Bosque, Somervell, Erath	Regional Watershed Studies	1238.3	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$5,405,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,426	686	1,790	7	45	146.7	538	69,770.4	No	No official sponsor approval
081001245	Aquilla Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Johnson, McLennan, Hill	Regional Watershed Studies	408.6	Riverine, Local	Grimes	\$1,846,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	204	88	374	0	7	32.7	178	20,745.6	No	No official sponsor approval
081001246	Keechi Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Palo Pinto, Parker, Jack	Regional Watershed Studies	265.3	Riverine	Grimes	\$1,221,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	105	37	56	0	2	15.6	53	7,364.1	No	No official sponsor approval
081001247	Possum Kingdom Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Stephens, Palo Pinto, Young, Archer, Jack	Regional Watershed Studies	922.6	Riverine	Grimes	\$4,059,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,669	969	1,322	4	7	75.8	247	34,912.0	No	No official sponsor approval
081001248	Palo Pinto Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Stephens, Palo Pinto, Eastland, Erath	Regional Watershed Studies	635.2	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$2,826,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,014	386	686	4	13	114.9	217	25,159.9	No	No official sponsor approval
081001249	Lake Granbury	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Hood, Stephens, Palo Pinto, Parker, Erath, Jack	Regional Watershed Studies	1179.0	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$5,152,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3,876	2,488	5,724	9	36	150.1	709	49,241.2	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001250	Navasota River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Grimes, Brazos, Madison, Robertson, Leon, Limestone, Freestone, Hill	Regional Watershed Studies	2236.8	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$9,620,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	3,354	2,058	4,952	6	92	146.3	634	104,322.0	No	No official sponsor approval
081001251	Mill Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Austin, Fayette, Washington	Regional Watershed Studies	369.6	Riverine	Austin	\$1,677,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	317	177	861	2	13	54.2	223	24,202.2	No	No official sponsor approval
081001252	Lampasas River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Williamson, Burnet, Bell, Lampasas, Coryell, Mills, Hamilton	Regional Watershed Studies	1307.1	Riverine, Local	Grimes	\$5,697,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,050	445	3,297	6	60	48.7	319	16,657.1	No	No official sponsor approval
081001253	Cowhouse Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Bell, Lampasas, Coryell, Mills, Hamilton, Comanche	Regional Watershed Studies	724.4	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$3,210,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	632	418	5,398	2	7	82.1	366	21,600.7	No	No official sponsor approval
081001254	Brushy Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Bastrop, Travis, Williamson, Milam	Regional Watershed Studies	517.6	Riverine	Williamson	\$2,319,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,451	1,115	3,372	4	81	77.7	362	42,039.5	No	No official sponsor approval
081001255	Lake Leon	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Callahan, Eastland	Regional Watershed Studies	257.3	Riverine	Grimes	\$1,186,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	658	333	1,013	6	0	50.3	179	4,532.4	No	No official sponsor approval
081001256	Leon River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Bell, Coryell, Mills, McLennan, Hamilton, Comanche, Erath	Regional Watershed Studies	1553.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$6,740,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,101	545	1,586	5	62	168.7	517	84,539.4	No	No official sponsor approval
081001257	Lake Whitney	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Hood, Johnson, Parker, Bosque, Hill, Somervell	Regional Watershed Studies	676.4	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$3,004,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	799	462	932	1	12	83.8	234	22,846.2	No	No official sponsor approval
081001258	Paluxy River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Hood, Bosque, Somervell, Erath	Regional Watershed Studies	507.9	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$2,277,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	374	188	1,367	10	35	23.7	115	8,901.6	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001259	Nolan River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Johnson, Hill	Regional Watershed Studies	318.8	Riverine, Coastal, Local	Grimes	\$1,456,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,123	789	2,719	10	16	54.8	262	15,288.4	No	No official sponsor approval
081001260	Big Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Falls, Limestone, McLennan	Regional Watershed Studies	310.5	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$1,419,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	86	38	55	0	18	21.0	96	28,196.6	No	No official sponsor approval
081001261	Pond Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Milam, Bell, Falls	Regional Watershed Studies	228.3	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$1,059,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	43	7	29	0	8	11.9	65	18,006.1	No	No official sponsor approval
081001262	Bull Hide Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Falls, McLennan	Regional Watershed Studies	35.9	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$202,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	15	9	14	0	3	2.8	21	1,857.4	No	No official sponsor approval
081001263	Cow Bayou	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Falls, McLennan	Regional Watershed Studies	115.1	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$558,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	56	34	50	0	1	6.6	39	7,508.7	No	No official sponsor approval
081001264	Deer Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Bell, Falls, McLennan	Regional Watershed Studies	114.8	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$557,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	8	4	8	0	12	6.5	40	5,500.6	No	No official sponsor approval
081001265	Middle Brazos DS Lake Whitney	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Falls, McLennan, Bosque, Hill	Regional Watershed Studies	526.5	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$2,357,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,670	1,653	18,044	15	17	107.7	495	52,347.7	No	No official sponsor approval
081001266	Lower Brazos-Little Brazos	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Waller, Washington, Burleson, Grimes, Brazos, Milam, Robertson, Falls, Limestone	Regional Watershed Studies	1770.8	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$7,659,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,830	867	3,030	9	37	245.7	495	234,255.0	No	No official sponsor approval
081001267	San Gabriel River DS Granger Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Williamson, Milam, Bell	Regional Watershed Studies	117.0	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$567,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	115	72	112	0	9	15.5	45	15,123.0	No	No official sponsor approval

Cost estimates are intended for planning purposes only.
Data is subject to change upon further evaluation.

Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001268	San Gabriel River US Granger Lake	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Travis, Williamson, Burnet	Regional Watershed Studies	726.5	Riverine	Williamson	\$3,219,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	2,192	1,692	4,248	1	83	108.5	393	31,497.0	No	No official sponsor approval
081001269	Salado Creek-Lampasas River (Little River)	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Williamson, Bell	Regional Watershed Studies	198.8	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$929,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	461	291	655	2	26	22.6	103	5,268.1	No	No official sponsor approval
081001270	Nolan Creek-Leon River (Little River)	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Bell, Coryell	Regional Watershed Studies	177.4	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$835,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,559	927	5,854	8	66	36.9	277	5,083.3	No	No official sponsor approval
081001271	Little River	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Williamson, Milam, Bell, Falls	Regional Watershed Studies	676.8	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$3,006,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	352	120	520	1	32	49.9	184	69,618.2	No	No official sponsor approval
081001272	Big Elm Creek	Upgrade drainage channels within the city to reduce flooding to residential and commercial structures.	08000009	Milam, Bell, Falls, McLennan	Regional Watershed Studies	322.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$1,470,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	337	123	1,089	1	23	38.2	156	23,044.9	No	No official sponsor approval
081001273	Davidson-Yegua	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Washington, Burleson, Brazos, Milam	Regional Watershed Studies	312.2	Riverine, Local	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$1,426,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	273	150	437	5	3	25.5	130	19,145.5	No	No official sponsor approval
081001274	Yegua-Lake Somerville	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Fayette, Bastrop, Washington, Lee, Burleson, Williamson, Milam	Regional Watershed Studies	1004.0	Riverine	Stafford	\$4,407,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	579	278	447	1	49	80.3	233	31,804.3	No	No official sponsor approval
081001275	Brazos River Tributaries DS Hempstead	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Fort Bend, Austin, Waller, Washington	Regional Watershed Studies	603.1	Riverine	Waller	\$2,688,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	4,658	2,740	3,800	3	17	199.6	425	88,010.0	No	No official sponsor approval
081001277	Peach Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Brazos	Regional Watershed Studies	26.3	Local	College Station	\$158,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	37	24	59	0	0	1.3	5	702.5	No	No official sponsor approval
081001278	Hopes Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Brazos	Regional Watershed Studies	10.3	Riverine	College Station	\$84,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	15	13	2	0	0	0.2	2	105.5	No	No official sponsor approval

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Appendix 5.4 - Summary of Non-Recommended FMEs

General Information											Flood Risk Information								Recommendation Status	
FME ID	FME Name	Description	Associated Goals (ID)	Counties	Evaluation Type	Evaluation Area (sq mi)	Flood Risk Type	Sponsor	Estimated Evaluation Cost	Potential Funding Sources and Amounts	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Residential Structures with 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Low Water Crossings at 100-year (1% ACE) Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk	RFPG Recommendation	Recommendation Description
081001279	Lick Creek	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Brazos	Regional Watershed Studies	17.4	Riverine	College Station	\$117,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	56	50	117	0	2	2.2	20	278.4	No	No official sponsor approval
081001280	Angleton Levee	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Fort Bend	Study on Flood Preparedness	28.8	Riverine	Williamson County Water Sewer Irrigation and Drainage Dist 3	\$307,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	0	0	0	0	0	0.0	0	2.6	No	No official sponsor approval
081001281	Fort Bend County LIDs Internal Flood Study	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000009	Fort Bend	Study on Flood Preparedness	59.1	Riverine, Local	Fort Bend	\$170,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	621	573	1,347	6	0	13.5	95	107.0	No	No official sponsor approval
081001282	Velasco Levee	Regional watershed study developed under Task 4A to improve understanding of flood risk in the region	08000014	Brazoria	Study on Flood Preparedness	42.5	Riverine	Fort Bend County MUD 21	\$232,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	582	444	0	2	0	16.5	61	40.5	No	No official sponsor approval
081001283	Fort Bend County Levee Vulnerability Study	Evaluate the critical impacts and vulnerability of Fort Bend County levees. Create a prioritization of potential projects and strategies to mitigate risk, and develop protocols for failure events.	08000014	Fort Bend	Study on Flood Preparedness	59.1	Riverine	Fort Bend	\$307,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	621	573	0	6	0	13.5	95	107.0	No	No official sponsor approval
081001300	City of Stephenville FEWS	Assessment of the most beneficial gauge placements and development of data interface.	08000014	Erath	Flood Measurement and Warning	11.9	Riverine, Local	City of Stephenville	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	151	92	324	0	9	85.0	5	4,305.4	No	No official sponsorship approval.
081001301	City of Waco FEWS	Assessment of the most beneficial gauge placements and development of data interface.	08000014	McLennan	Flood Measurement and Warning	100.7	Riverine, Local	City of Waco	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	1,282	754	15,824	8	3	1368.0	88	18,445.4	No	No official sponsorship approval.
081001302	City of Georgetown FEWS	Assessment of the most beneficial gauge placements and development of data interface.	08000014	Williamson	Flood Measurement and Warning	59.4	Riverine, Local	City of Georgetown	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	173	122	1,521	0	6	294.0	19	7,804.2	No	No official sponsorship approval.
081001303	Brazos River Flood Protection Plan Update	Update to previously completed Brazos FPP to incorporate latest modeling and data and create comprehensive analysis for the Brazos River.	8000009	All	Watershed Planning	9914.4	Riverine, Coastal, Local	RFPG	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	35,864	24,887	67,805	91	477	15072.0	1583	947,725.0	No	No official sponsorship approval.

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Appendix 5.4 - Summary of Non-Recommended FMPs

General Information															
FMP ID	FMP Name	Description	Associated Goals (ID)	Counties	HUC 12s	Watersheds	Project Type	Project Source	Project Area	Flood Risk Type	Sponsor	Entities with Oversight	Emergency Need	Estimated Project Cost	Potential Funding Sources and Amount
083001063	Panther Branch Crossing	Bridge improvements to allow for neighborhood access during storm events by relieving flooding at the crossing with Rock Springs Creek.	08000009	McLennan	120602040405	08000004	Low Water Crossing or Bridge Improvements	Community Submittal	0.6	Riverine, Local	McLennan County	McLennan County, City of Valley Mills	Yes	\$669,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001288	Diversion Improvements for South Rising Star	Improvements and extension to existing berm and construction of roadside ditch to direct flow to existing diversion channel.	08000009, 08000010	Eastland	120702010301	08000008	Regional Channel Improvements	Lower Brazos RFP - Task 12	1.6	Riverine	City of Rising Star	City of Rising Star, Eastland County	No	\$1,595,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001289	FM 219 and North Bosque River Crossing Improvement	Replacement of existing culverts with bridge. Benching along channel for mitigation.	08000007, 08000008	Bosque	120602040404	08000004	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	3.8	Riverine	City of Clifton	City of Clifton, Bosque County, TxDOT	No	\$2,733,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001293	US180 Rock Creek Overbank Crossing	Culvert improvement and detention	08000009	Parker	120602011103	08000001	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	1.4	Riverine	Parker County, Palo Pinto County	Parker County, Palo Pinto County, TxDOT	No	\$10,129,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001294	US180 Rock Creek Tributary 1 Crossing	Culvert improvement and channel benching	08000009	Palo Pinto	120602011103	08000001	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	0.0	Riverine	Palo Pinto County	Palo Pinto County, TxDOT	No	\$1,237,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001295	Jim Neal Branch Tributary 2 Crossing	Culvert improvement	08000009	Eastland	120702010201	08000008	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	0.0	Riverine	Eastland County	Eastland County, TxDOT	No	\$477,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001296	Jim Neal Branch Tributary 1 Crossing	Culvert improvement and channel benching	08000009	Eastland	120702010201	08000008	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	0.1	Riverine	Eastland County	Eastland County, TxDOT	No	\$3,083,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT
083001297	Jim Neal Branch Crossing	Culvert improvement and channel benching	08000009	Eastland	120702010201	08000008	Low Water Crossing or Bridge Improvements	Lower Brazos RFP - Task 12	0.0	Riverine	Eastland County	Eastland County, TxDOT	No	\$1,925,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT

Non-recommended FMPs may still provide flood risk benefits. However they do not meet TWDB and/or RFPG guidance. Costs listed in this document are for planning purposes only.

Appendix 5.4 - Summary of Non-Recommended FMPs

FMP ID	Flood Risk Information																							Other Benefits										Recommendation Status	Recommendation Reason
	Flood Risk						Flood Risk						Reduction in Flood Risk											Pre-Project Level of Service	Post-Project Level of Service	Cost per Structure Removed	Percent Nature-Based Solution (by cost)	Negative Impact Caused by Project?	Negative Impact Mitigation	Water Supply Benefits	Social Vulnerability Index (SVI)	Traffic Count for Low Water Crossings	Benefit Cost Ratio		
	Area in 100-year (1% ACE) Floodplain (sq mi)	Area in 500-year (0.2% ACE) Floodplain (sq mi)	Estimated Number of Structures at 100-year (1% ACE) Flood Risk	Estimated Number of Structures at 500-year (0.2% ACE) Flood Risk	Residential Structures at 100-year (1% ACE) Flood Risk	Estimated Population at 100-year (1% ACE) Flood Risk	Critical Facilities at 100-year (1% ACE) Flood Risk	Number of Low Water Crossings 100-year (1% ACE) at Flood Risk	Estimated Length of Roads at 100-year (1% ACE) Flood Risk (mi)	Estimated Number of Road Closures	Estimated Farm & Ranch Land at 100-year (1% ACE) Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Residential Structures Removed from 100-year (1% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Length of Roads Removed from 100-year (1% ACE) Flood Risk (mi)	Estimated Reduction in Road Closure Occurrences	Estimated Farm & Ranch Land Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Facilities (if available)	Estimated Reduction in Injuries (if available)												
083001063	0.00	0.00	0	0	0	0	0	0.0	0	0.0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	10-year	100-year	N/A	0%	No	N/A	No	0.28	983	0.00	No	Does not meet minimum RFPG drainage area requirements.
083001288	0.78	0.95	40	69	35	44	1	0	2.1	16	267.3	17	23	32	20	40	0	0	0	0	6.3	0	0	2-year	100-year	\$69,300	0%	No	N/A	No	0.59	N/A	0.93	No	No official sponsor approval.
083001289	0.92	1.12	N/A	N/A	N/A	N/A	0	0	0.9	6	156.8	N/A	N/A	N/A	N/A	0	0	0	0	0	0.3	0	0	50-year	100-year	N/A	0%	No	N/A	No	0.22	3,219	0.65	No	No official sponsor approval.
083001293	0.65	0.76	20	30	N/A	82	0	0	0.6	8	3.2	4	5	1	N/A	31	0	0	0	5	0.5	0	0	10-year	100-year	\$2,160,200	0%	No	N/A	No	0.38	13,359	0.22	No	No official sponsor approval.
083001294	0.01	0.01	0	0	N/A	0	0	0	0.1	2	N/A	0	0	0	N/A	0	0	0	0	0	0.0	0	0	10-year	100-year	N/A	0%	No	N/A	No	0.56	13,353	0.02	No	No official sponsor approval.
083001295	0.01	0.01	1	1	N/A	0	0	0	0.0	1	N/A	1	0	0	N/A	0	0	0	0	1	0.0	0	0	5-year	100-year	N/A	0%	No	N/A	No	0.63	353	0.01	No	No official sponsor approval.
083001296	0.06	0.06	2	2	2	0	0	0	0.2	1	2.5	2	0	0	N/A	0	0	0	0	1	0.0	0	0	5-year	100-year	N/A	0%	No	N/A	No	0.63	353	0.03	No	No official sponsor approval.
083001297	0.02	0.03	2	2	N/A	0	0	0	0.1	1	0.0	1	0	0	N/A	0	0	0	0	1	0.0	0	0	5-year	100-year	N/A	0%	No	N/A	No	0.63	353	0.02	No	No official sponsor approval.

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information															Recommendation						
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk						RFPG Recommendation	Reason for Recommendation			
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences			Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)
082000121	Comanche County TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Comanche	Other	914	Riverine, Local	Comanche County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000130	City of Gustine TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Comanche	Other	1	Riverine, Local	City of Gustine	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000132	Eastland County Early Flood Warning System	Implement system to monitor flood waters.	08000016	Erath	Flood Measurement and Warning	1,085	Riverine, Local	Eastland County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000137	City of Carbon TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Eastland	Other	1	Riverine, Local	City of Carbon	\$500	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000159	Fort Bend County Prevent River Bank Erosion	Control erosion of river bank to preserve channelization.	08000009	Fort Bend	Other	625	Riverine	Fort Bend County	\$85,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000160	Fort Bend County Signage for Areas that Flood Easily	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Fort Bend	Other	625	Riverine, Coastal, Local	Fort Bend County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000161	Fort Bend County High Water Barricades	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Fort Bend	Other	625	Riverine, Coastal, Local	Fort Bend County	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000169	City of Cresson TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	Other	5	Riverine, Local	City of Cresson	\$15,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000173	City of Lipan TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	Other	1	Riverine, Local	City of Lipan	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000176	City of Tolar TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Hood	Other	1	Riverine, Local	City of Tolar	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000203	Develop Database of Flood Risk Information & Mapping for Erath County	Improve and consolidate baseline data.	08000006	Erath	Other	1,085	Riverine, Local	Erath County	\$1,500	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000211	Brazos Country TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Austin	Other	2	Riverine, Local	City of Brazos Country	\$2,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000220	Bosque County TADD Barrier Installation	Increase awareness of flood risk and hazards.	08000019	Bosque	Other	998	Riverine, Local	Bosque County	\$4,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation								
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation			
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)	Estimated Reduction in Injuries (if available)
082000247	Upgrade and Install Low Water Crossings in Bell County	Improve low water crossings to reduce flooding.	08000007	Bell	Infrastructure Projects	1,083	Riverine, Local	Bell County	\$5,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000254	City of Killeen Automated High-Water Warning Signs	Implementation of signage/barricades to notify public of areas prone to flood risk.	08000016	Bell	Other	54	Riverine, Local	City of Killeen	\$225,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000260	City of Nolanville Automated High-Water Warning Signs	Implementation of signage/barricades to notify public of areas prone to flood risk.	08000016	Bell	Other	3	Riverine, Local	City of Nolanville	\$15,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000270	City of Salado Elevate Low Water Crossings	Improve low water crossings to reduce flooding.	08000007	Bell	Infrastructure Projects	2	Riverine, Local	City of Salado	\$5,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000280	Hamilton County High Water Signs and Gates	Implementation of signage/barricades to notify public of areas prone to flood risk.	08000019	Hamilton	Other	833	Riverine, Local	Hamilton County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000283	Hamilton County Upgrade Low Water Crossings	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000007	Hamilton	Infrastructure Projects	833	Riverine, Local	Hamilton County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000293	Participate with Milam County Emergency Response Board	Establish plan for emergency response to expedite public response.	08000016	Milam	Other	1	Riverine, Local	City of Buckholts	\$500	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000305	Falls County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Falls	Infrastructure Projects	771	Riverine, Local	Falls County	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000306	City of Lott Transform Flood-Prone Areas into Parks	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Falls	Other	1	Local	City of Lott	\$120,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000308	City of Marlin Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Falls	Infrastructure Projects	5	Riverine, Local	City of Marlin	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000309	City of Marlin Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Falls	Other	5	Local	City of Marlin	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000310	Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Falls	Other	1	Riverine, Local	City of Rosebud	\$10,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation								
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation			
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)	Estimated Reduction in Injuries (if available)
082000311	City of Rosebud Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Falls	Infrastructure Projects	1	Riverine, Local	City of Rosebud	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000326	City of Teague Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Freestone	Other	2	Riverine, Local	City of Teague	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000342	Hill County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	661	Riverine, Local	Hill County	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000343	Hill County Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	Other	661	Local	Hill County	\$120,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000345	Improve & Flood Proof Critical Facilities in City of Aquilla	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	1	Riverine, Local	City of Aquilla	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000346	City of Aquilla Flood Warning Signs	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Hill	Other	1	Riverine, Local	City of Aquilla	\$7,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000349	City of Covington Automated Floodgates	Implementation of automated gates to block public from areas prone to flood risk.	08000016	Hill	Other	1	Riverine, Local	City of Covington	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000350	City of Covington Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	1	Riverine, Local	City of Covington	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000351	City of Hillsboro Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	10	Riverine, Local	City of Hillsboro	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000352	City of Hillsboro Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	Other	10	Local	City of Hillsboro	\$50,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000353	City of Itasca Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	1	Riverine, Local	City of Itasca	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000354	City of Mount Calm Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	1	Riverine, Local	City of Mount Calm	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		

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General Information											Flood Risk Information															Recommendation						
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation		
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)
082000357	City of Whitney Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Hill	Infrastructure Projects	2	Riverine, Local	City of Whitney	\$750,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000358	City of Whitney Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Hill	Other	2	Local	City of Whitney	\$85,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000377	City of Lampasas Low Water Crossing Signs	Implementation of signage/barricades to notify public of areas prone to flood risk.	08000019	Lampasas	Other	7	Riverine, Local	City of Lampasas	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000397	City of Marquez Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Leon	Other	1	Riverine, Local	City of Marquez	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000402	Limestone County Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	Infrastructure Projects	830	Riverine, Local	Limestone County	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000403	Improve & Flood Proof Critical Facilities in City of Coolidge	Increase resiliency of critical facilities to flood events.	08000012	Limestone	Infrastructure Projects	1	Riverine, Local	City of Coolidge	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000407	City of Kosse Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	Infrastructure Projects	1	Riverine, Local	City of Kosse	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000408	City of Kosse Automated Floodgates	Implementation of automated gates to block public from areas prone to flood risk.	08000016	Limestone	Other	1	Riverine, Local	City of Kosse	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000409	City of Mexia Improve & Flood Proof Critical Facilities	Increase resiliency of critical facilities to flood events.	08000012	Limestone	Infrastructure Projects	4	Riverine, Local	City of Mexia	\$500,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000410	City of Thornton Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Limestone	Other	1	Riverine	City of Thornton	\$85,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000498	Develop Evacuation Routes for City of Bryson	Establish evacuation routes to expedite public response to flood events.	08000016	Jack	Other	1	Riverine, Local	City of Bryson	\$5,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.			
082000507	City of Byron TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Jack	Other	1	Riverine, Local	City of Bryson	\$10,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.			

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information															Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation			
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)	Estimated Reduction in Injuries (if available)
082000511	Improve & Flood Proof Critical Facilities in Young County	Increase resiliency of critical facilities to flood events.	08000012	Young	Infrastructure Projects	402	Riverine, Local	Young County	\$1,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000516	City of Graham Develop Evacuation Routes	Establish evacuation routes to expedite public response to flood events.	08000016	Young	Other	6	Riverine, Local	City of Graham	\$5,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000519	City of Graham TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Young	Other	6	Riverine, Local	City of Graham	\$10,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000521	City of Graham Flood Proof Sewage Treatment Plan	Increase resiliency of critical facilities to flood events.	08000012	Young	Infrastructure Projects	5	Riverine, Local	City of Graham	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000522	City of Graham Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Young	Other	5	Riverine	City of Graham	\$1,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000529	City of Olney Develop Evacuation Routes	Establish evacuation routes to expedite public response to flood events.	08000016	Young	Other	2	Riverine, Local	City of Olney	\$5,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000530	City of Olney Watertight Covers and Inflow Guard Implementation	Implementation of floodproofing features to increase resiliency of structure to flood events.	08000009	Young	Infrastructure Projects	2	Riverine, Local	City of Olney	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000537	City of Olney Add Vegetation to River Banks	Control erosion of river bank to preserve channelization.	08000009	Young	Other	2	Riverine	City of Olney	\$20,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000543	City of Olney TADD Promotion	Increase awareness of flood risk and hazards.	08000019	Young	Other	2	Riverine, Local	City of Olney	\$10,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000546	City of Olney Maintain Natural Vegetation in Channels	Control erosion of banks to preserve channelization.	08000009	Young	Other	2	Riverine	City of Olney	\$3,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000548	City of Olney Flood Proof Sewage Treatment Plan	Establish evacuation routes to expedite public response to flood events.	08000012	Young	Infrastructure Projects	2	Riverine, Local	City of Olney	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082000550	City of Olney Open Space Preservation Program	Preserve and create more open space to naturally store and discharge flood waters.	08000009	Young	Other	2	Riverine	City of Olney	\$1,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information															Recommendation					
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk										Reduction in Flood Risk					RFPG Recommendation	Reason for Recommendation				
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk			Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)
082000554	Robertson County Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	Other	862	Riverine, Local	Robertson County	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000557	City of Bremond Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	Other	1	Riverine, Local	City of Bremond	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000561	City of Calvert Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	Other	4	Riverine, Local	City of Calvert	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000565	City of Franklin Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	Other	1	Riverine, Local	City of Franklin	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000569	City of Hearne Portable Flood Pumps	Purchase portable flood pumps to be used where most needed in flood events.	08000009	Robertson	Other	4	Riverine, Local	City of Hearne	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000570	Somervell County Low Water Crossings Mitigation	Improve low water crossings to reduce flooding.	08000007	Somervell	Infrastructure Projects	191	Riverine, Local	Somervell County	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000575	City of Glen Rose Mitigate Low Water Crossings	Improve low water crossings to reduce flooding.	08000007	Somervell	Infrastructure Projects	4	Riverine, Local	City of Glen Rose	\$250,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000592	High Water Barricades on Meyersville Rd	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	Other	616	Riverine, Local	Washington County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000593	High Water Barricades on County Roads	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	Other	616	Riverine, Local	Washington County	\$30,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000594	High Water Barricades on Winedale Road	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	Other	616	Riverine, Local	Washington County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000595	High Water Barricades on Jeske Road	Implementation of signage/ barricades to notify public of areas prone to flood risk.	08000019	Washington	Other	616	Riverine, Local	Washington County	\$100,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082000599	City of Brenham Low Water Crossing Improvements	Drainage feature improvements to increase capacity and ensure they are within standards.	08000009	Washington	Infrastructure Projects	13	Riverine, Local	City of Brenham	\$2,000,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation		
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)
082000631	Fort Bend County Early Flood Warning System	Installation of a flood monitoring system.	08000015	Fort Bend	Flood Measurement and Warning	625	Riverine, Local	Fort Bend County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082000645	Williamson County Early Flood Warning System	Installation of a flood monitoring system.	08000016	Williamson	Flood Measurement and Warning	1,120	Riverine, Local	Williamson County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001024	City of Bryan Channel Maintenance Program Funding	Clearing of channels throughout the City to remove vegetation inhibiting the channels capacity.	08000003	Brazos	Infrastructure Projects	45	Riverine	City of Bryan	-	Local, TWDB FIF, FEMA HMGP, FEMA BRIC, FEMA FMA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001071	Austin County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Austin	Regulatory and Guidance	502	Riverine, Local	Austin County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001073	Bell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Bell	Regulatory and Guidance	1,083	Riverine, Local	Bell County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001074	Bosque County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Bosque	Regulatory and Guidance	998	Riverine, Local	Bosque County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001076	Brazos County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Brazos	Regulatory and Guidance	589	Riverine, Local	Brazos County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001078	Burleson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Burleson	Regulatory and Guidance	674	Riverine, Local	Burleson County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001081	Comanche County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Comanche	Regulatory and Guidance	914	Riverine, Local	Comanche County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001082	Coryell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Coryell	Regulatory and Guidance	1,052	Riverine, Local	Coryell County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation		
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)
082001083	Eastland County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Eastland	Regulatory and Guidance	767	Riverine, Local	Eastland County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082001084	Erath County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Erath	Regulatory and Guidance	1,085	Riverine, Local	Erath County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001085	Falls County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Falls	Regulatory and Guidance	771	Riverine, Local	Falls County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001090	Grimes County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Grimes	Regulatory and Guidance	464	Riverine, Local	Grimes County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001091	Hamilton County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hamilton	Regulatory and Guidance	833	Riverine, Local	Hamilton County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001092	Hill County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hill	Regulatory and Guidance	661	Riverine, Local	Hill County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001093	Hood County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Hood	Regulatory and Guidance	432	Riverine, Local	Hood County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001095	Johnson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Johnson	Regulatory and Guidance	369	Riverine, Local	Johnson County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001096	Lampasas County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Lampasas	Regulatory and Guidance	564	Riverine, Local	Lampasas County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk								RFPG Recommendation	Reason for Recommendation	
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)			Estimated Reduction in Fatalities (if available)
082001097	Lee County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Lee	Regulatory and Guidance	530	Riverine, Local	Lee County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082001099	Limestone County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Limestone	Regulatory and Guidance	830	Riverine, Local	Limestone County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001101	McLennan County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	McLennan	Regulatory and Guidance	1,056	Riverine, Local	McLennan County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001102	Milam County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Milam	Regulatory and Guidance	1,018	Riverine, Local	Milam County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001104	Palo Pinto County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Palo Pinto	Regulatory and Guidance	982	Riverine, Local	Palo Pinto County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001106	Robertson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Robertson	Regulatory and Guidance	862	Riverine, Local	Robertson County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001107	Somervell County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Somervell	Regulatory and Guidance	191	Riverine, Local	Somervell County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001109	Waller County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Waller	Regulatory and Guidance	321	Riverine, Local	Waller County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001110	Washington County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Washington	Regulatory and Guidance	616	Riverine, Local	Washington County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk							RFPG Recommendation	Reason for Recommendation		
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)			Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)
082001111	Williamson County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Williamson	Regulatory and Guidance	1,120	Riverine, Local	Williamson County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082001112	Young County Regulatory Updates	Update floodplain ordinances/subdivision regulations and drainage criteria to implement the latest rainfall data and recommended regional standards.	08000003	Young	Regulatory and Guidance	402	Riverine, Local	Young County	\$400,000	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001114	City of Bryan Early Flood Warning System	Implement system to monitor flood waters.	08000019	Brazos	Flood Measurement and Warning	45	Riverine	City of Bryan	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001116	Bell Early Flood Warning System	Acquire and install early warning system for dam failure.	08000019	Bell	Flood Measurement and Warning	1,083	Riverine	Bell County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001118	Bosque Early Flood Warning System	Identify sites where stream and rain gages need to be added or upgraded.	08000019	Bosque	Flood Measurement and Warning	998	Riverine	Bosque County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001119	Comanche Early Flood Warning System	Install early warning system for flood hazard events.	08000019	Comanche	Flood Measurement and Warning	914	Riverine	Comanche County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001120	Erath Early Flood Warning System	Implement a mass notification system to provide flood warnings to residents.	08000019	Erath	Flood Measurement and Warning	1,085	Riverine	Erath County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001121	Hamilton Early Flood Warning System	Install flood gages in flood prone areas.	08000019	Hamilton	Flood Measurement and Warning	833	Riverine	Hamilton County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001122	McLennan Early Flood Warning System	Implement system to monitor flood waters.	08000019	McLennan	Flood Measurement and Warning	1,056	Riverine	McLennan County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001123	Waller Early Flood Warning System	Install flood gages to monitor flood waters.	08000019	Waller	Flood Measurement and Warning	321	Riverine	Waller County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001124	Regional Public Awareness Program	Increase awareness of flood risk and hazards.	08000020	All	Education and Outreach	23,357	Riverine, Local	Lower Brazos Regional Flood Planning Group	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001125	Brazos Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	Property Acquisition and Structural Elevation	589	Riverine, Local	Brazos County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information															Recommendation							
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk										RFPG Recommendation	Reason for Recommendation
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)	Estimated Reduction in Injuries (if available)		
082001126	Bell Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Bell	Property Acquisition and Structural Elevation	1,083	Riverine, Local	Bell County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.
082001127	Grimes Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Grimes	Property Acquisition and Structural Elevation	464	Riverine, Local	Grimes County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001128	Hill Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Hill	Property Acquisition and Structural Elevation	661	Riverine, Local	Hill County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001129	Lee Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Lee	Property Acquisition and Structural Elevation	530	Riverine, Local	Lee County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001130	McLennan Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	McLennan	Property Acquisition and Structural Elevation	1,056	Riverine, Local	McLennan County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001131	Waller Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Waller	Property Acquisition and Structural Elevation	321	Riverine, Local	Waller County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001132	Washington Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Washington	Property Acquisition and Structural Elevation	616	Riverine, Local	Washington County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001134	Lee Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Lee	Property Acquisition and Structural Elevation	530	Riverine, Local	Lee County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001135	Burleson Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Burleson	Property Acquisition and Structural Elevation	674	Riverine, Local	Burleson County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001136	Williamson Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	Property Acquisition and Structural Elevation	1,120	Riverine, Local	Williamson County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001137	Young Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Young	Property Acquisition and Structural Elevation	402	Riverine, Local	Young County	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001139	City of Bryan Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Brazos	Property Acquisition and Structural Elevation	45	Riverine, Local	City of Bryan	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.			

Appendix 5.4: Summary of Non-Recommended FMSs

General Information											Flood Risk Information														Recommendation									
FMS ID	FMS Name	Description	Associated Goals (ID)	Counties	Strategy Type	Strategy Area (sqmi)	Flood Risk Type	Sponsor	Estimated Strategy Cost (\$)	Potential Funding Sources and Amount	Flood Risk											Reduction in Flood Risk											RFPG Recommendation	Reason for Recommendation
											Area n 100-year (1% ACE) Floodplain	Area in 500-year (0.2% ACE) 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 (mi)	Estimated Farm & Ranch Land at Flood Risk (ac)	Number of Structures with Reduced 100-year (1% ACE) Flood Risk	Number of Structures Removed from 100-year (1% ACE) Flood Risk	Number of Structures Removed from 500-year (0.2% ACE) Flood Risk	Estimated Population Removed from 100-year (1% ACE) Flood Risk	Critical Facilities Removed from 100-year (1% ACE) Flood Risk	Number of Low Water Crossings Removed from 100-year (1% ACE) Flood Risk	Estimated Reduction in Road Closure Occurrences	Estimated Length of Roads from 100-year Flood Risk (mi)	Estimated Active Farm & Ranch Land Removed from 100-year Flood Risk (ac)	Estimated Reduction in Fatalities (if available)	Estimated Reduction in Injuries (if available)			
082001141	City of Georgetown Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	Property Acquisition and Structural Elevation	48	Riverine, Local	City of Georgetown	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.	
082001142	City of Leander Property Acquisition	Buyout program for structures located in flood hazard areas.	08000009	Williamson	Property Acquisition and Structural Elevation	21	Riverine, Local	City of Leander	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.		
082001304	Lower Brazos Additional Gauges	Final assessment of placement and constructability of recommended gauges from preliminary analysis. Coordination between entities to integrate gauges into USGS system.	08000020	All	Flood Measurement and Warning	23,357	Riverine, Local	Lower Brazos Regional Flood Planning Group	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.			
082001305	Lower Brazos Flood Warning Portal	Development of interface to incorporate regional and local data system information for public use in the Lower Brazos Region.	08000020	All	Flood Measurement and Warning	23,357	Riverine, Local	Lower Brazos Regional Flood Planning Group	-	Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No	No official sponsorship approval.			

Appendix 5.5

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title 620 Quarry Solution

ID# 081000957

Sponsor (name of entity, not person) Round Rock

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine needed flood storage to address Lake Creek flooding.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Travis,Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 28 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 2,120 # of structures 224 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

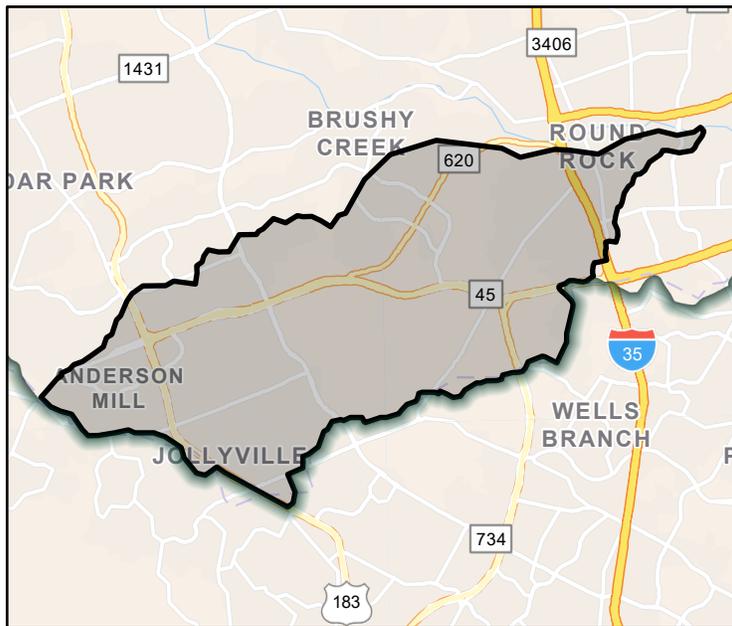
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 13 Historical road closures 44

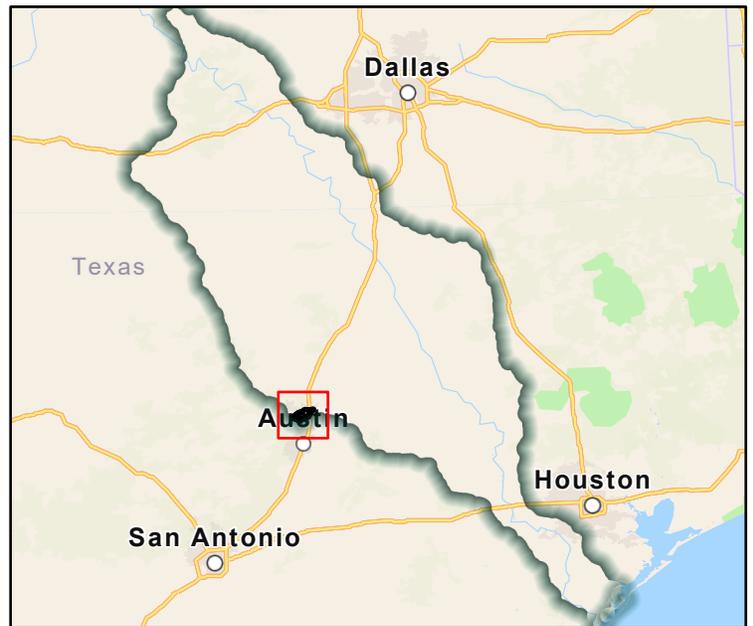
Estimated Cost and Funding Availability

Total Cost \$877,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title A12

ID# 081000954

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description New Broade Street off-channel detention.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Travis,Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 61 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,255 # of structures 388 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 2 Roadway(s) impacted (length) 0

Number of low water crossings 20 Historical road closures 81

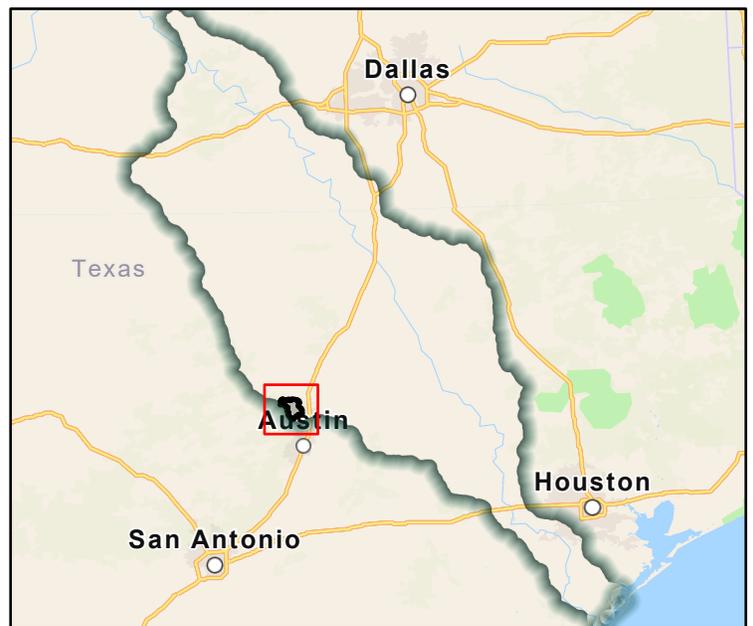
Estimated Cost and Funding Availability

Total Cost \$257,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **A13**

ID# **081000960**

Sponsor (name of entity, not person) **Upper Brushy Creek WCID**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **Addition of in-line detention between Dam 15 and 16.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Williamson** Watershed HUC# (if known) **1207020504**

Drainage area (Square miles, est.) **24** Goal(s) **8000009**

100-Year Flood Risk Summary

Population at risk **121** # of structures **28** # of Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

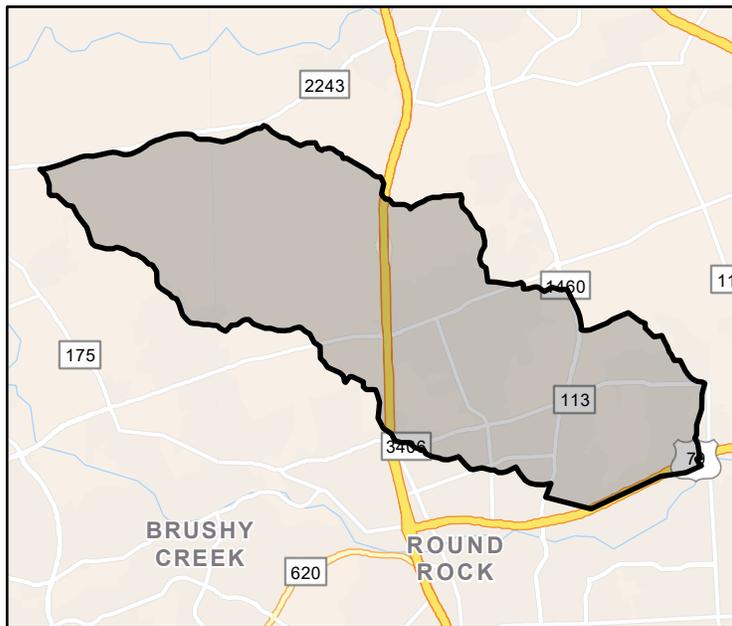
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **1**

Number of low water crossings **0** Historical road closures **12**

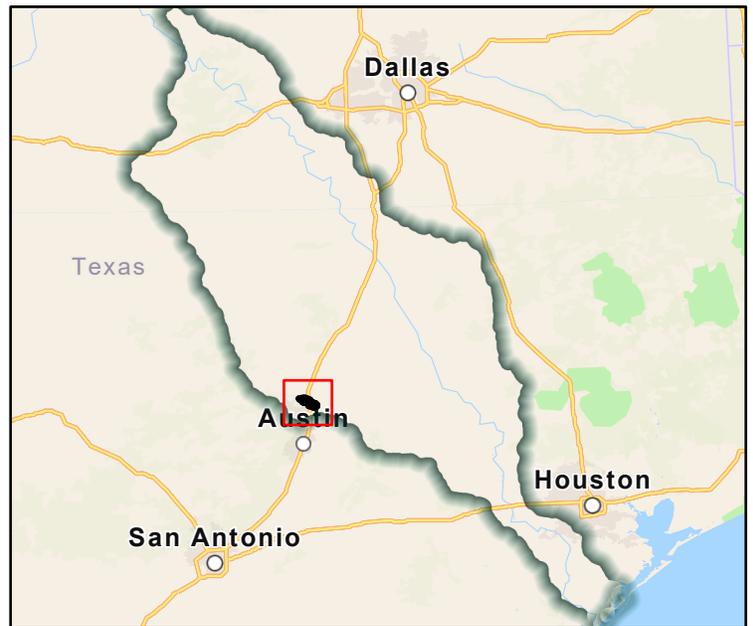
Estimated Cost and Funding Availability

Total Cost **\$190,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title A14

ID# 081000959

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Addition of in-line detention west of Dam 17.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 12 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 219 # of structures 8 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

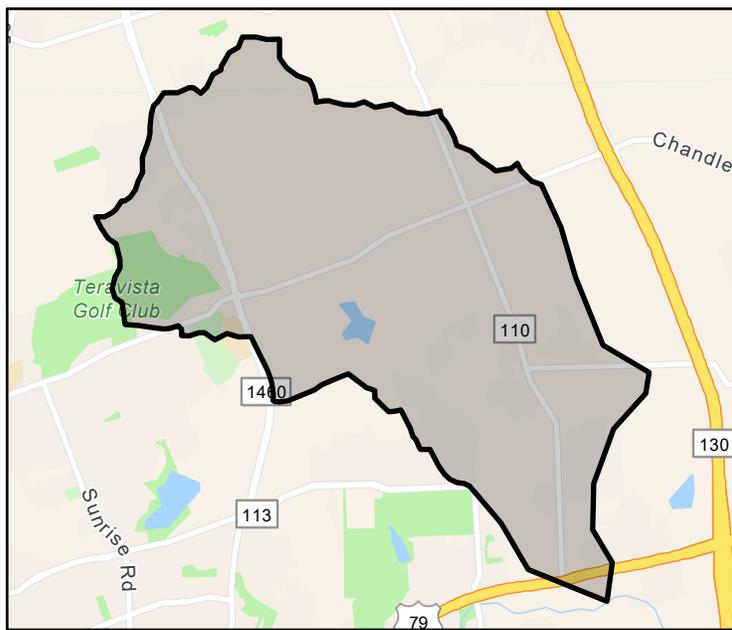
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 2 Historical road closures 9

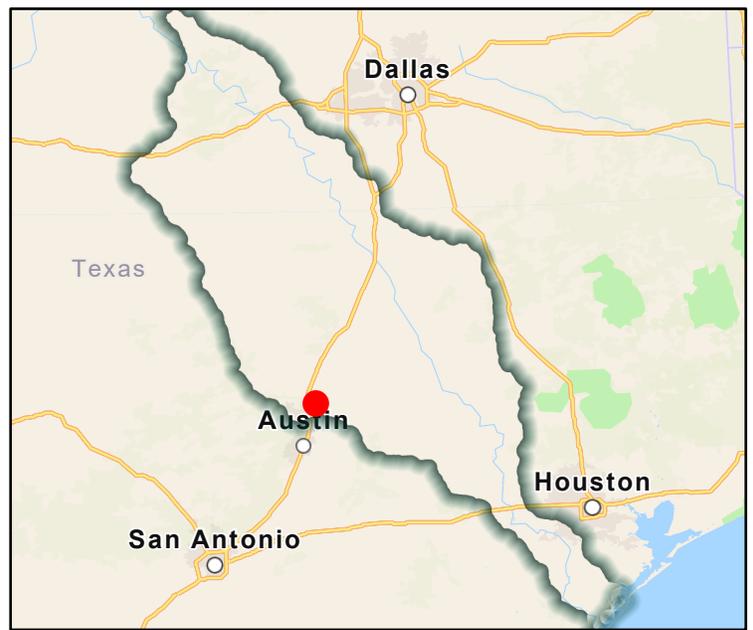
Estimated Cost and Funding Availability

Total Cost \$94,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title

ID#

Sponsor (name of entity, not person)

RFPG recommend? Reason for Recommendation

Study Details

Study type

Study description

New Hydrologic or Hydraulic model? Emergency Need? Existing/Anticipated models in near term?

County Watershed HUC# (if known)

Drainage area (Square miles, est.) Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

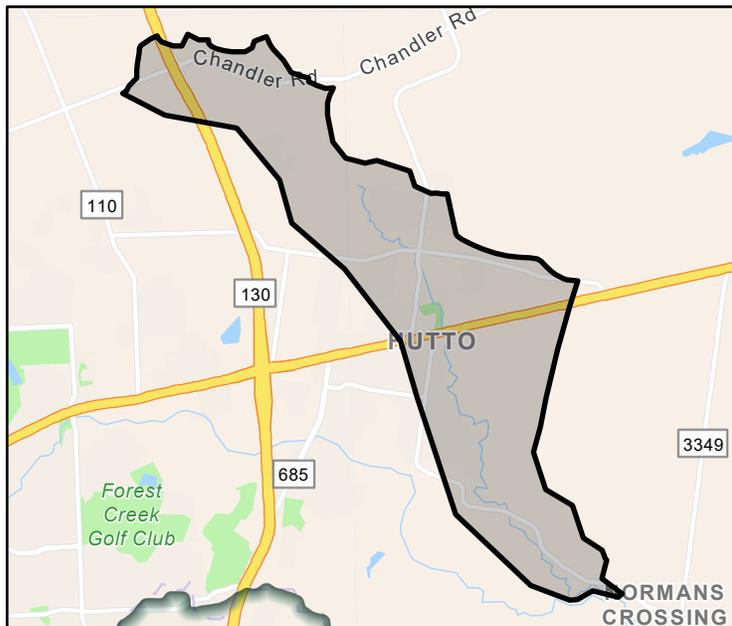
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

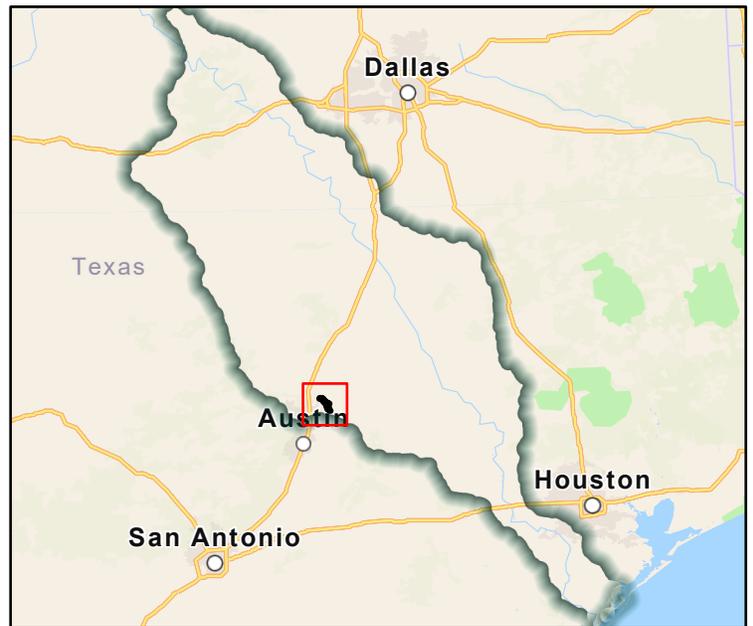
Estimated Cost and Funding Availability

Total Cost Amount of Available Funding Eligible for Federal funding?

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title

ID#

Sponsor (name of entity, not person)

RFPG recommend? Yes Reason for Recommendation

Study Details

Study type

Study description

New Hydrologic or Hydraulic model? Emergency Need? Existing/Anticipated models in near term?

County Watershed HUC# (if known)

Drainage area (Square miles, est.) Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

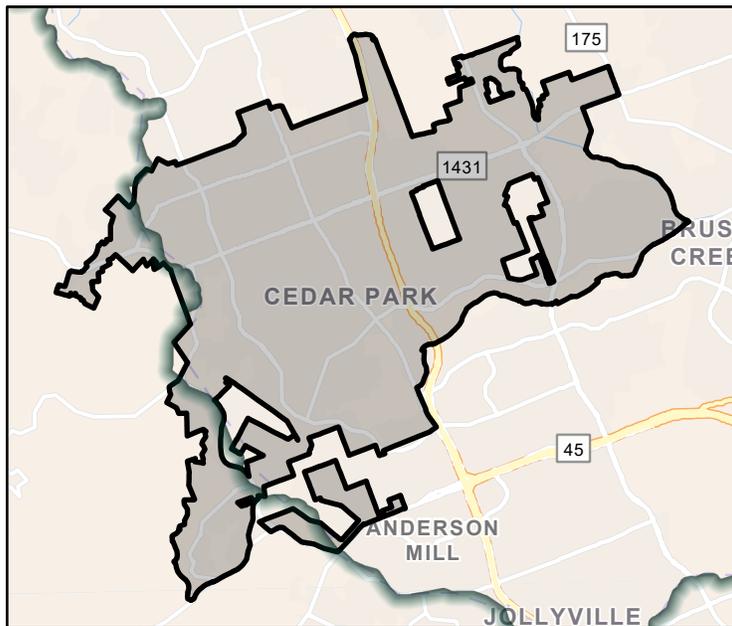
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

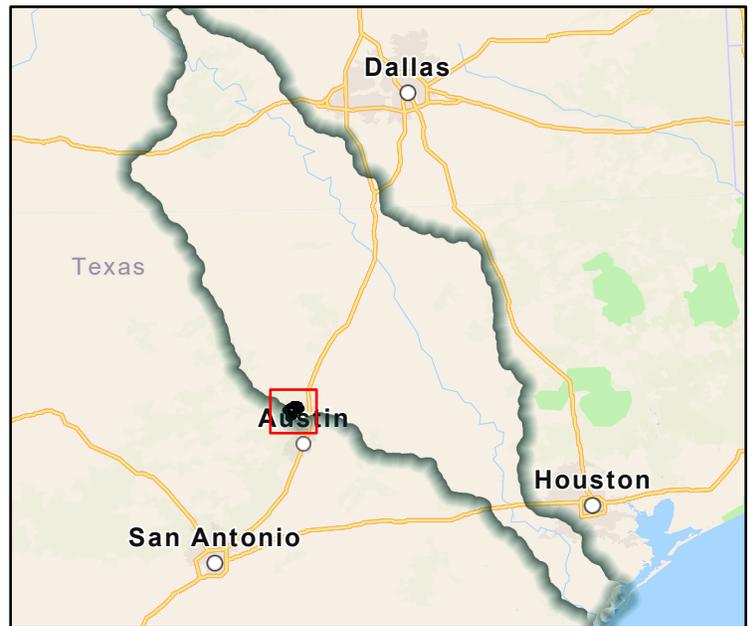
Estimated Cost and Funding Availability

Total Cost Amount of Available Funding Eligible for Federal funding?

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Bee Creek Basin Detention Pond

ID# 081000226

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Design of detention facility to contain and mitigate flooding.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 233 # of structures 66 # of Critical facilities 3

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

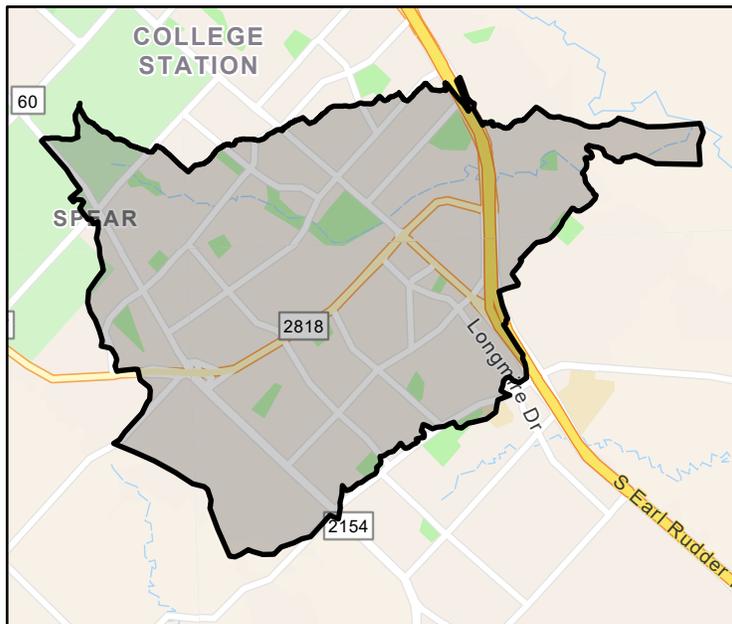
Farm/Ranch land impacted (acres) 761 Roadway(s) impacted (length) 5

Number of low water crossings 8 Historical road closures 19

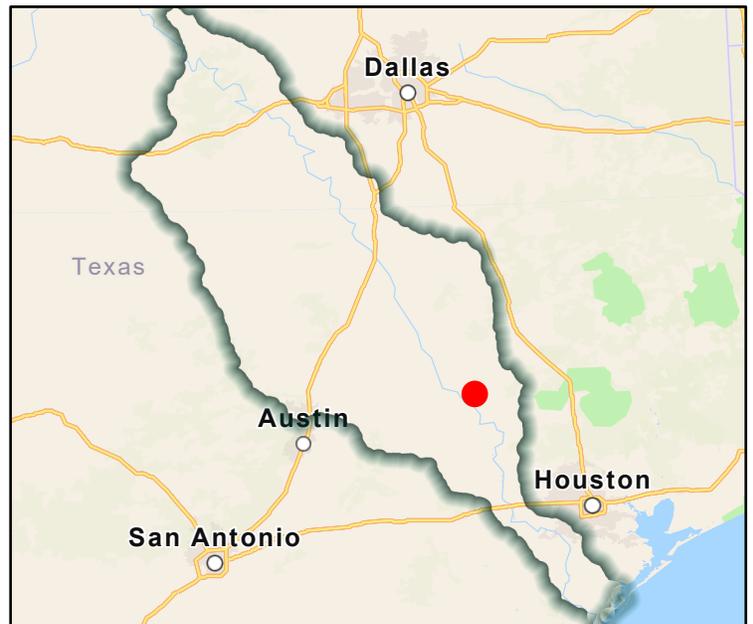
Estimated Cost and Funding Availability

Total Cost \$111,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Briar Creek Improvements

ID# 081000646

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Channel and crossing improvements along Briar Creek and Red River Trib to increase capacity of hydraulic infrastructure.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 3 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 242 # of structures 100 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

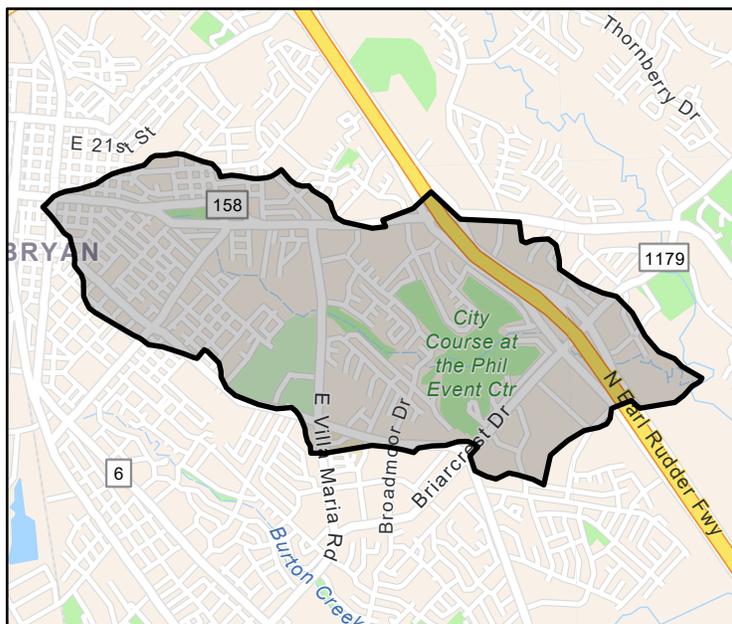
Farm/Ranch land impacted (acres) 102 Roadway(s) impacted (length) 5

Number of low water crossings 5 Historical road closures 15

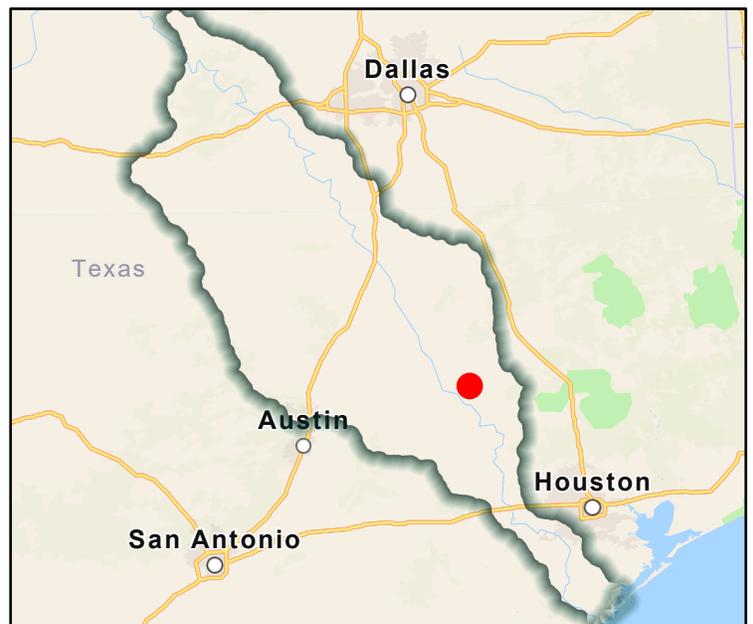
Estimated Cost and Funding Availability

Total Cost \$364,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Briar Oaks Drive Storm Sewer Improvements

ID# 081000706

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 1 Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 961 # of structures 76 # of Critical facilities 1

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

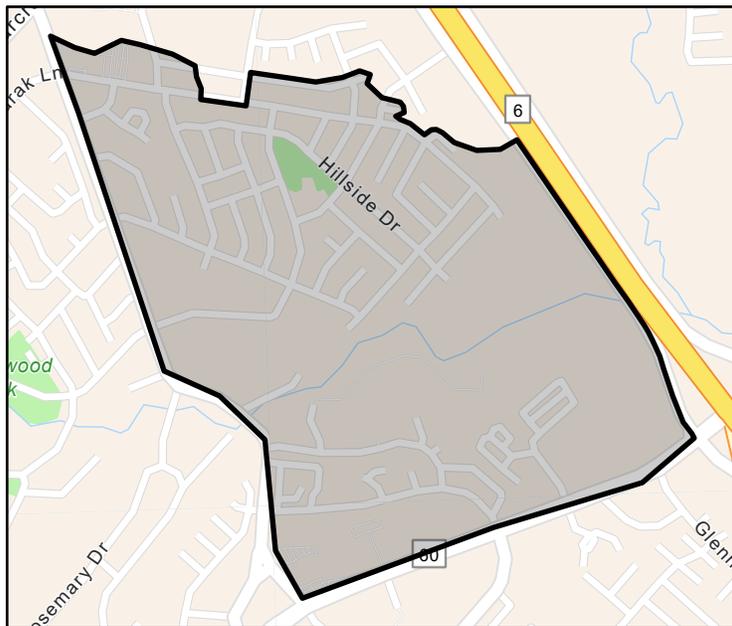
Farm/Ranch land impacted (acres) 50,911 Roadway(s) impacted (length) 137

Number of low water crossings 0 Historical road closures 7

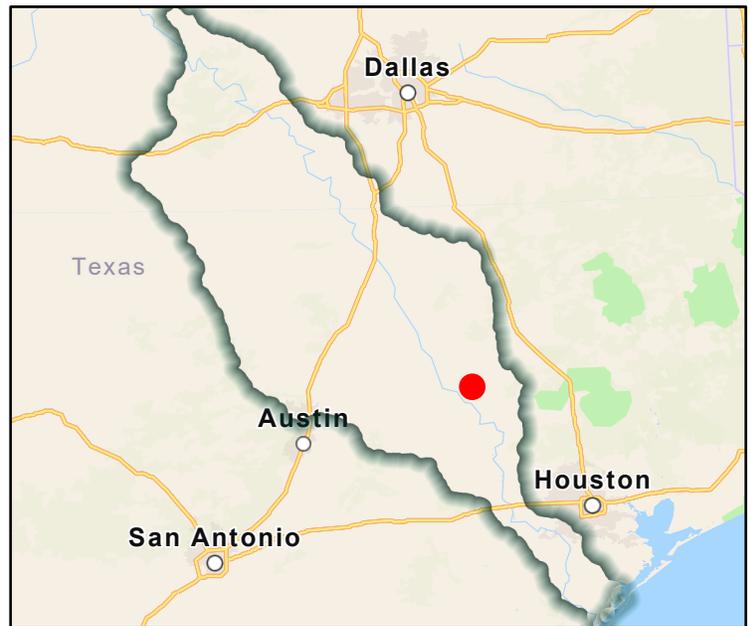
Estimated Cost and Funding Availability

Total Cost \$50,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Briarcreek Court Flooding

ID# 081000657

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine source and mitigation for flooding in the subdivision.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 1 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 163 # of structures 77 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

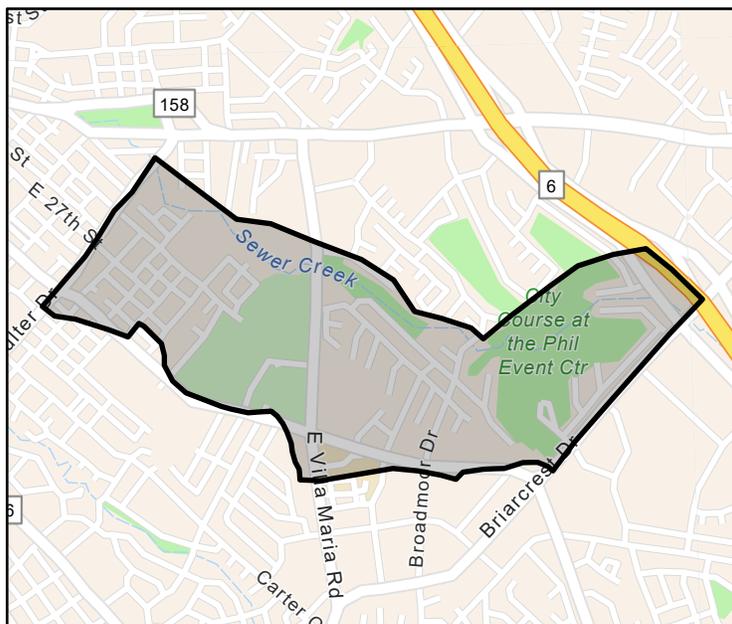
Farm/Ranch land impacted (acres) 102 Roadway(s) impacted (length) 5

Number of low water crossings 2 Historical road closures 9

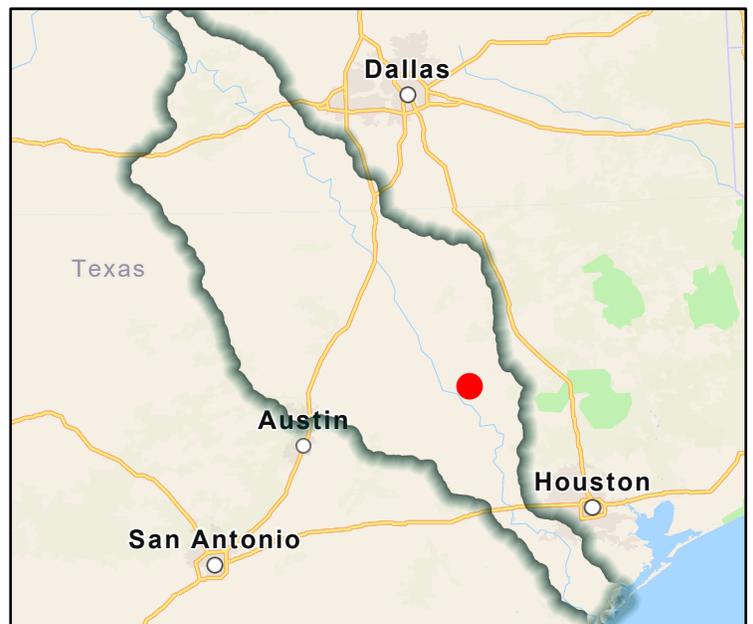
Estimated Cost and Funding Availability

Total Cost \$83,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Brushy Creek Flood Study Extension

ID# 081001032

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Expansion of previous study to improve characterization of flood risk.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010306

Drainage area (Square miles, est.) 12 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 5 # of structures 7 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

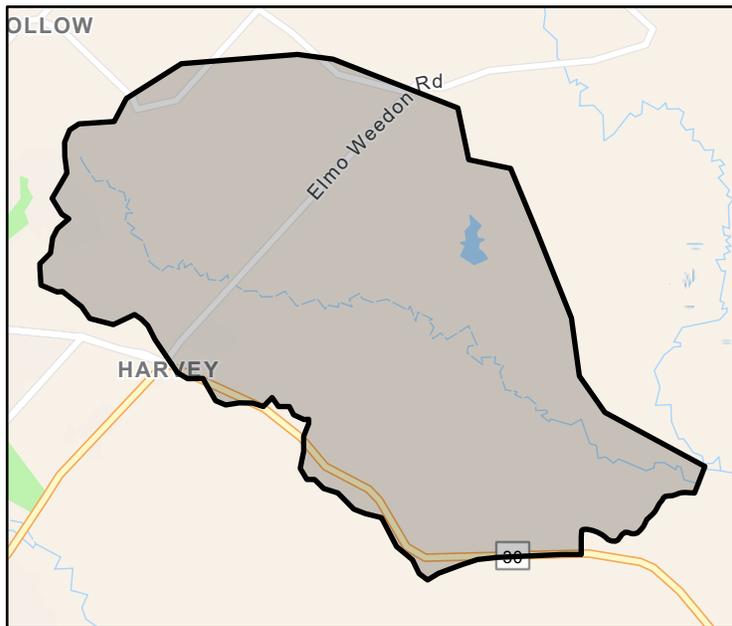
Farm/Ranch land impacted (acres) 12 Roadway(s) impacted (length) 2

Number of low water crossings 0 Historical road closures 4

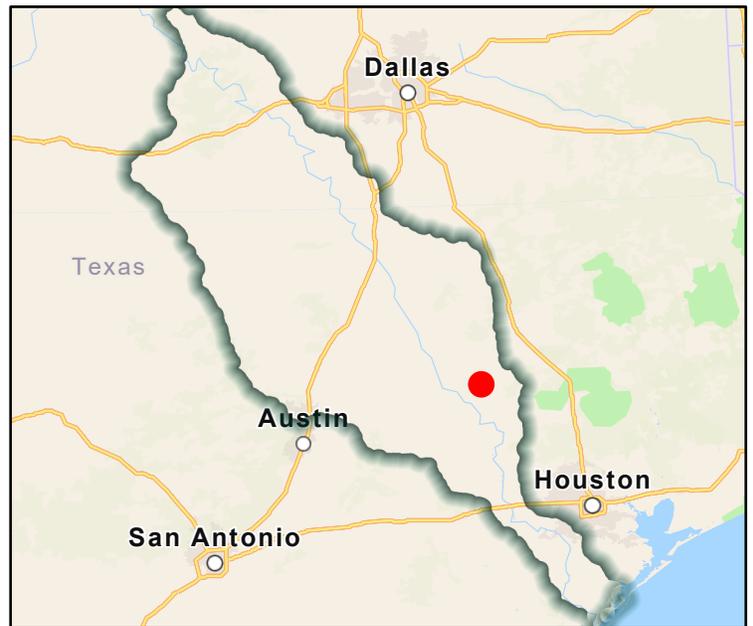
Estimated Cost and Funding Availability

Total Cost \$92,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Brushy Creek Tributaries Study

ID# 081000951

Sponsor (name of entity, not person) Thrall

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Perform a detailed study of the Brushy Creek tributaries in the City of Thrall.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 11 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 11 # of structures 11 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

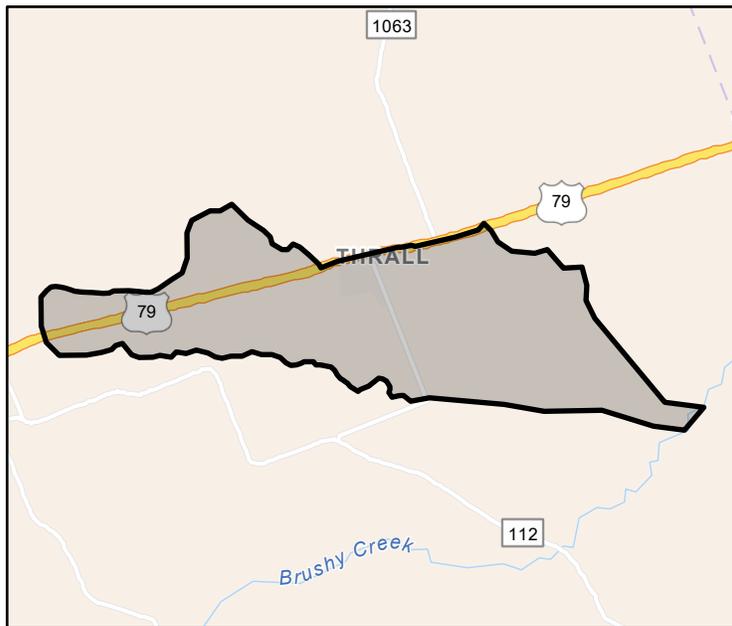
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 1 Historical road closures 8

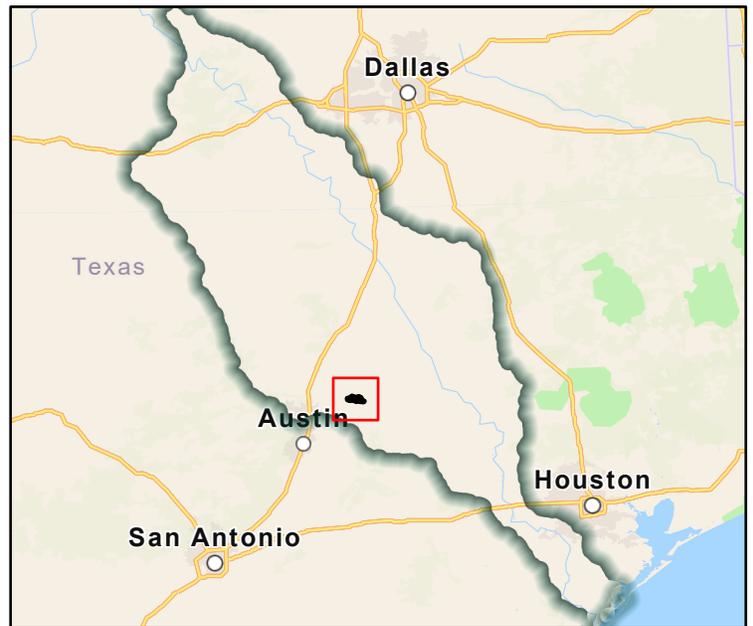
Estimated Cost and Funding Availability

Total Cost \$88,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Burtin Creek Trib C Improvements**

ID# **081000669**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **H&H Modeling**

Study description **2-9'x5' box culverts are needed to replace the existing culverts in order to convey the 50-year storm event per the TxDOT design requirement. Channel widening and re-grading may be necessary to mitigate any adverse impacts. Detailed design for the 100-y***

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010307**

Drainage area (Square miles, est.) **1** Goal(s) **8000009**

100-Year Flood Risk Summary

Population at risk **49** # of structures **20** # of Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

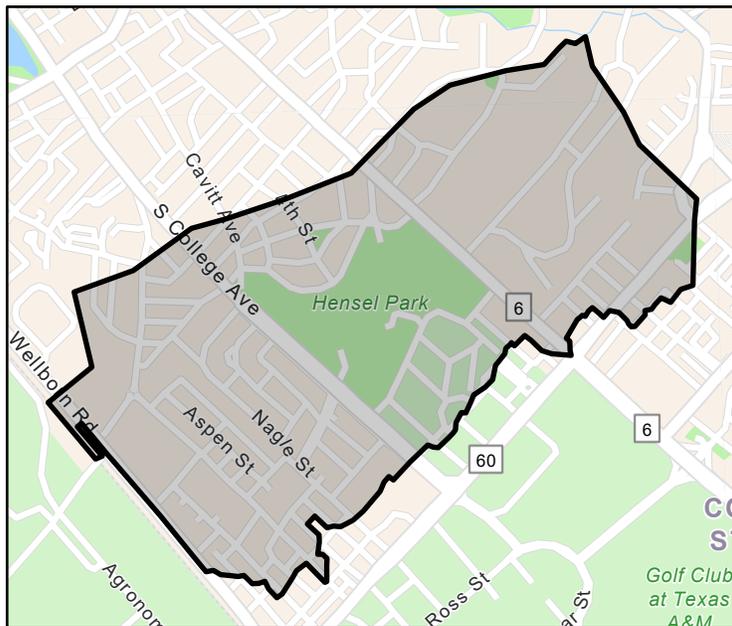
Farm/Ranch land impacted (acres) **710** Roadway(s) impacted (length) **12**

Number of low water crossings **0** Historical road closures **1**

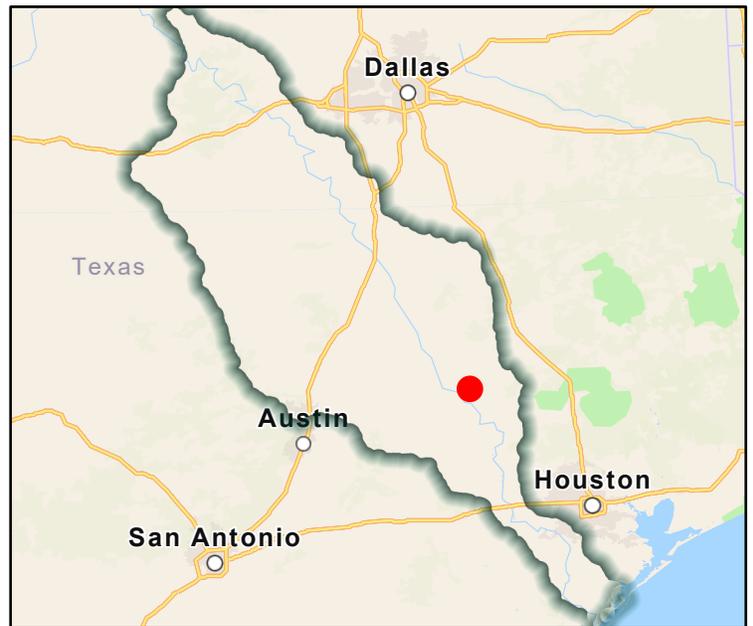
Estimated Cost and Funding Availability

Total Cost **\$100,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Burton Creek Crossings**
Burton Creek Crossings

ID# **081000663**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **H&H Modeling**

Study description **Update design to account for Atlas 14 rainfall.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010307**

Drainage area (Square miles, est.) **5** Goal(s) **8000006**

100-Year Flood Risk Summary

Population at risk **1,496** # of structures **276** # of Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

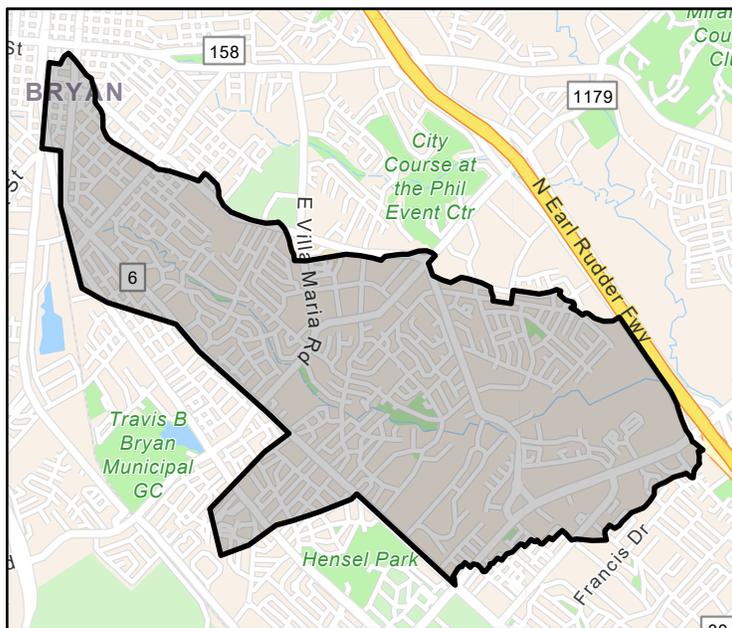
Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (length) **1**

Number of low water crossings **5** Historical road closures **36**

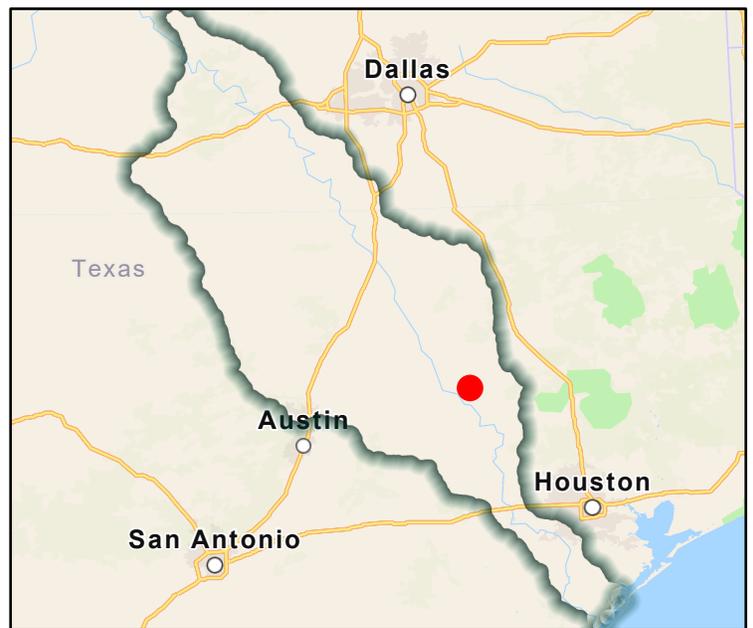
Estimated Cost and Funding Availability

Total Cost **\$100,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Burton Creek Extension of Flood Study**

ID# **081001021**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Regional Watershed Studies**

Study description **Expansion of previous study to improve characterization of flood risk.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010107,1207010307**

Drainage area (Square miles, est.) **7** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **1,697** # of structures **348** # of Critical facilities **2**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

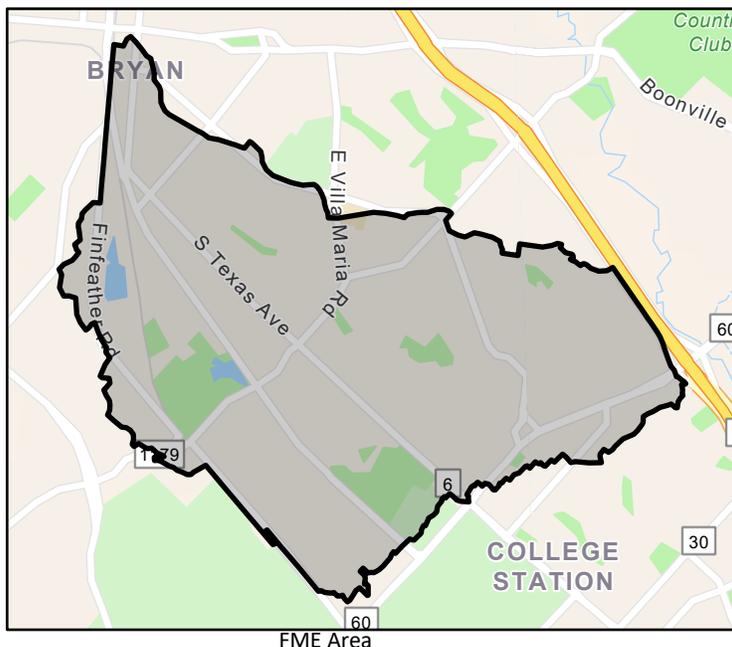
Farm/Ranch land impacted (acres) **95,254** Roadway(s) impacted (length) **300**

Number of low water crossings **9** Historical road closures **47**

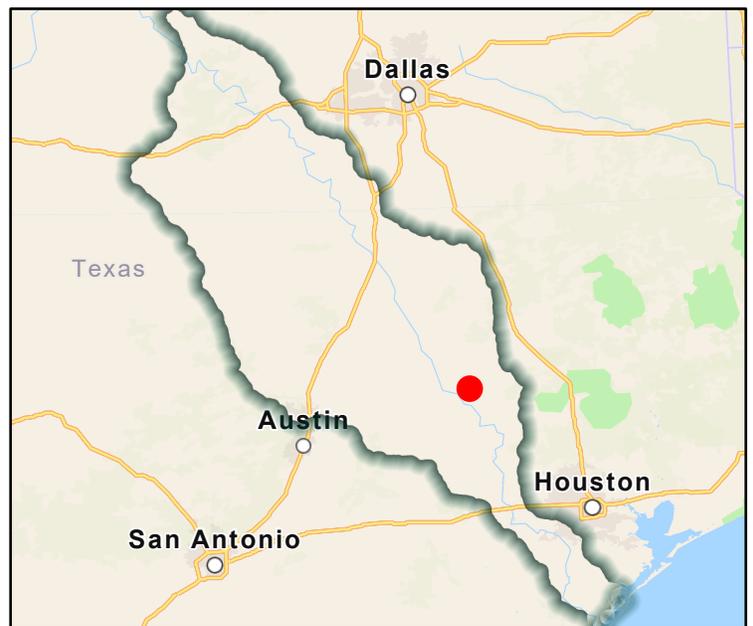
Estimated Cost and Funding Availability

Total Cost **\$71,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Burton Creek Main Stem Improvements**

ID# **081000678**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **Channel and crossing improvements along Burton Creek mainstem from SH 6 to S Coulter Dr.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010107,1207010307**

Drainage area (Square miles, est.) **7** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **1,697** # of structures **348** # of Critical facilities **2**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

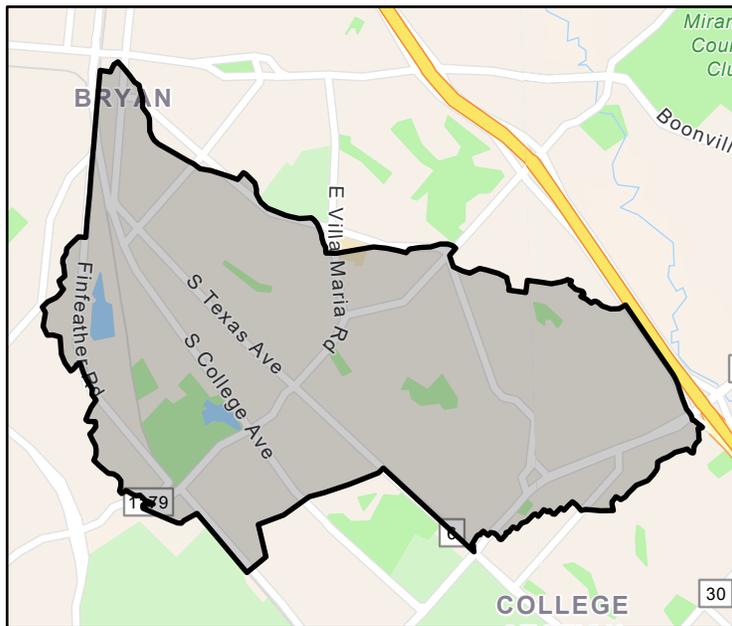
Farm/Ranch land impacted (acres) **118** Roadway(s) impacted (length) **4**

Number of low water crossings **9** Historical road closures **47**

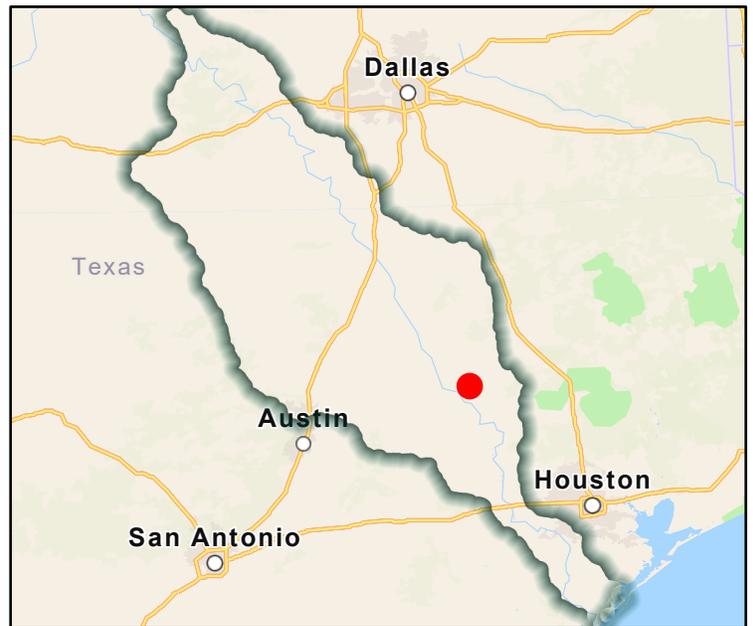
Estimated Cost and Funding Availability

Total Cost **\$514,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Burton Creek Trib 5 Mitigation**

ID# **081000690**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **Design of erosion control and channel improvements for Trib 5 of Burton Creek.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010307**

Drainage area (Square miles, est.) **3** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **1,162** # of structures **159** # of Critical facilities **2**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

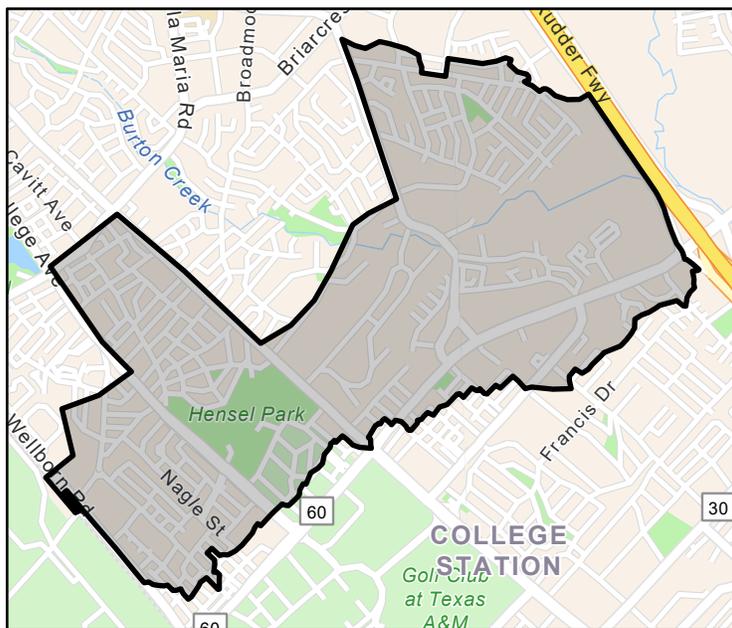
Farm/Ranch land impacted (acres) **102** Roadway(s) impacted (length) **5**

Number of low water crossings **4** Historical road closures **18**

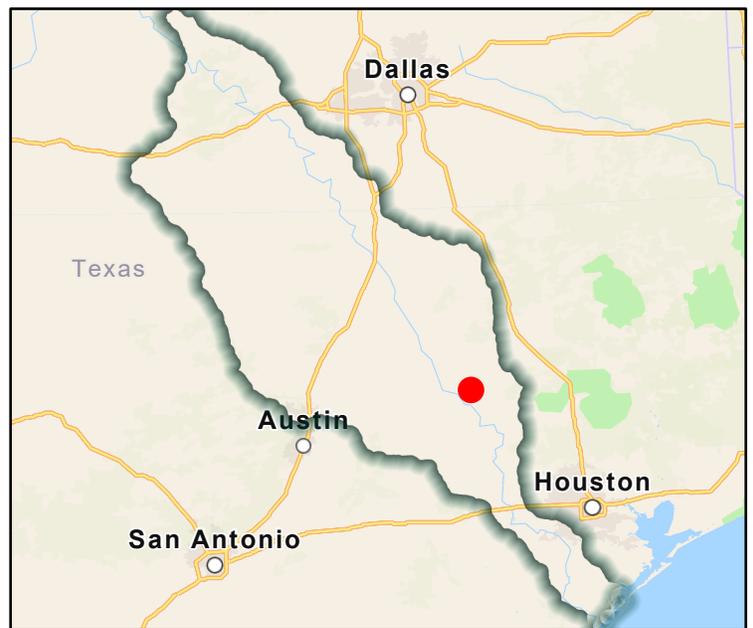
Estimated Cost and Funding Availability

Total Cost **\$194,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Carter's Creek Crossing Improvements

ID# 081000712

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study and design of culvert improvements along Carter's Creek.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010306,1207010307

Drainage area (Square miles, est.) 9 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 848 # of structures 158 # of Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

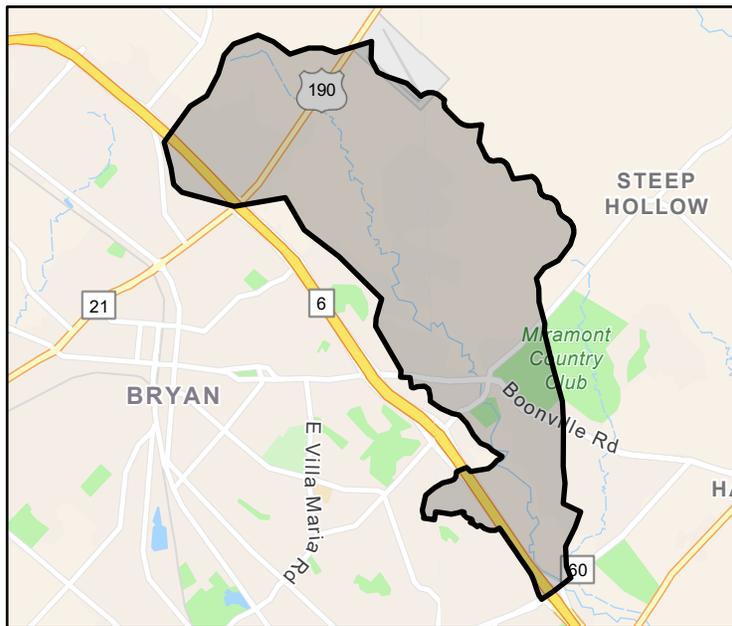
Farm/Ranch land impacted (acres) 886 Roadway(s) impacted (length) 6

Number of low water crossings 2 Historical road closures 27

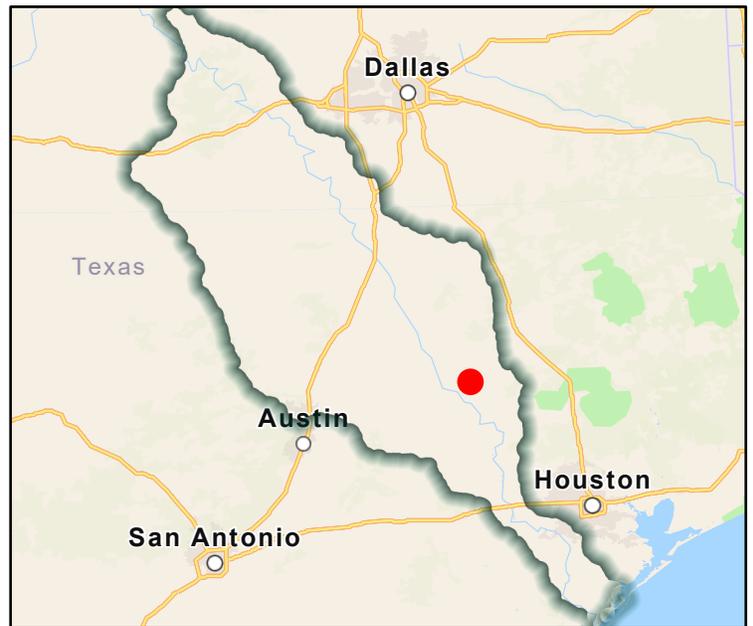
Estimated Cost and Funding Availability

Total Cost \$108,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Carter's Creek Trib B Improvements

ID# 081000719

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to design culvert improvements along Carter's Creek Trib B.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 3 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 35 # of structures 32 # of Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

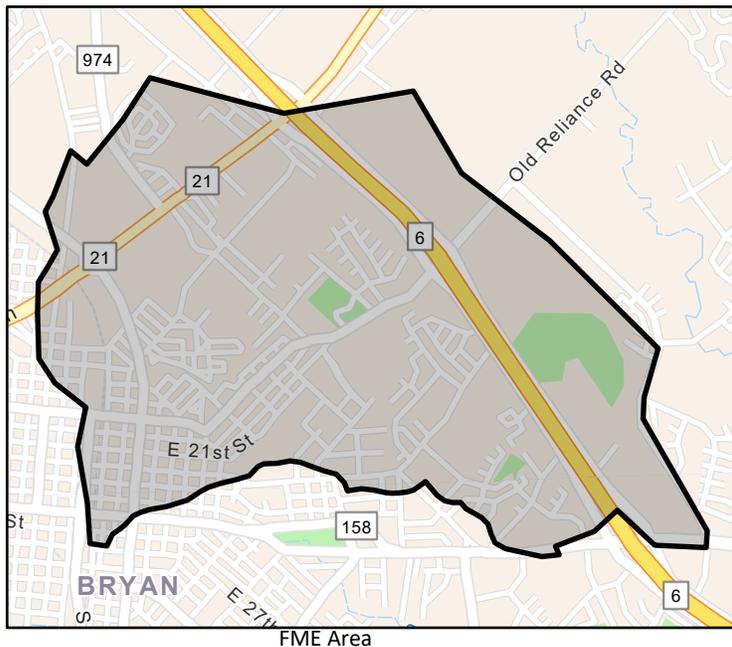
Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (length) 5

Number of low water crossings 4 Historical road closures 22

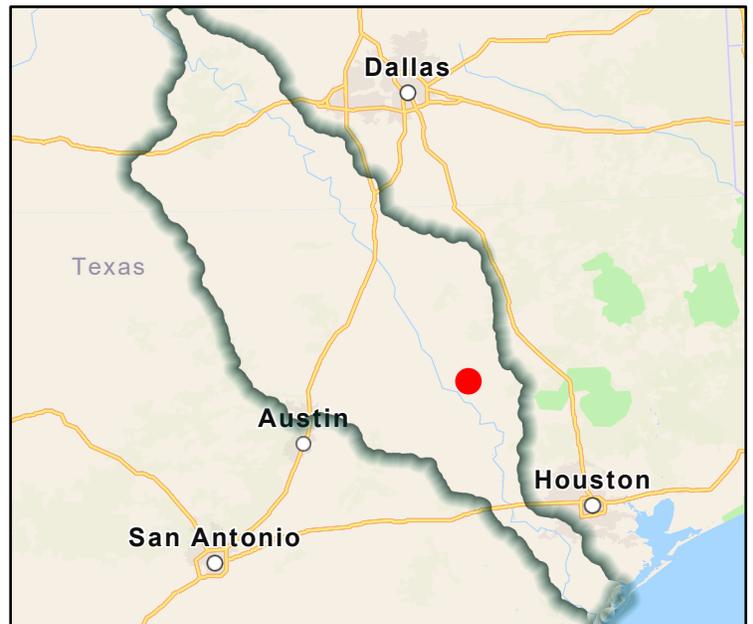
Estimated Cost and Funding Availability

Total Cost \$127,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Carters Creek

ID# 081001065

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Study to determine flood risk across the watershed.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 58 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 4,897 # of structures 849 # of Critical facilities 7

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

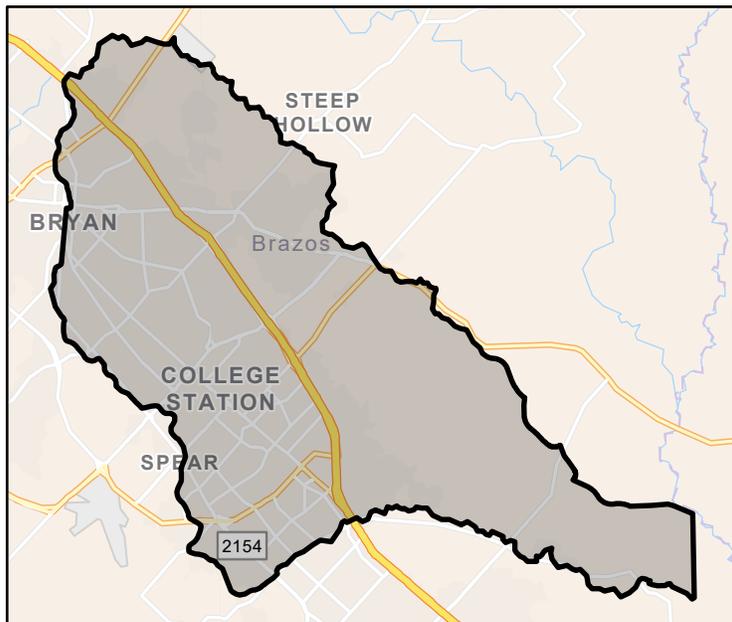
Farm/Ranch land impacted (acres) 3,167 Roadway(s) impacted (length) 9

Number of low water crossings 43 Historical road closures 152

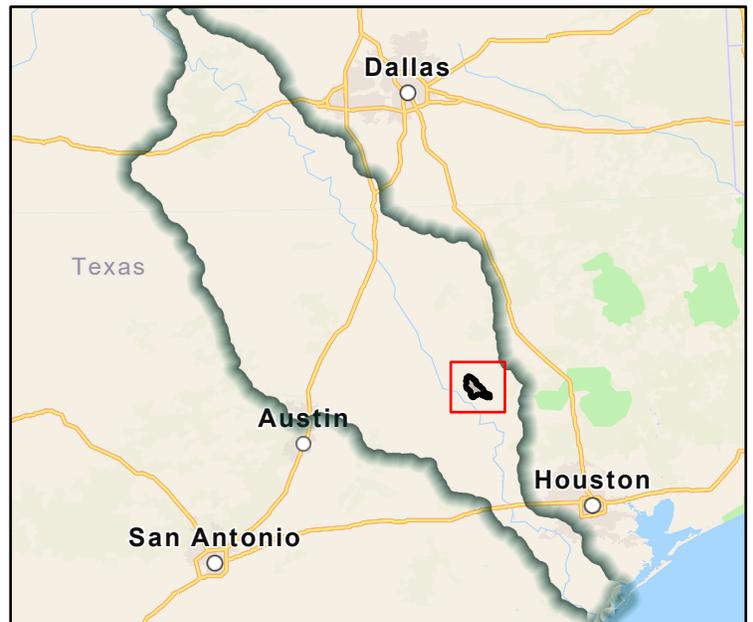
Estimated Cost and Funding Availability

Total Cost \$304,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Castle Heights Subdivision Flooding

ID# 081000718

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine necessary detention, storm sewer, and other drainage improvements for Castle Heights subdivision.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010306,1207010307

Drainage area (Square miles, est.) 2 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 21 # of structures 39 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

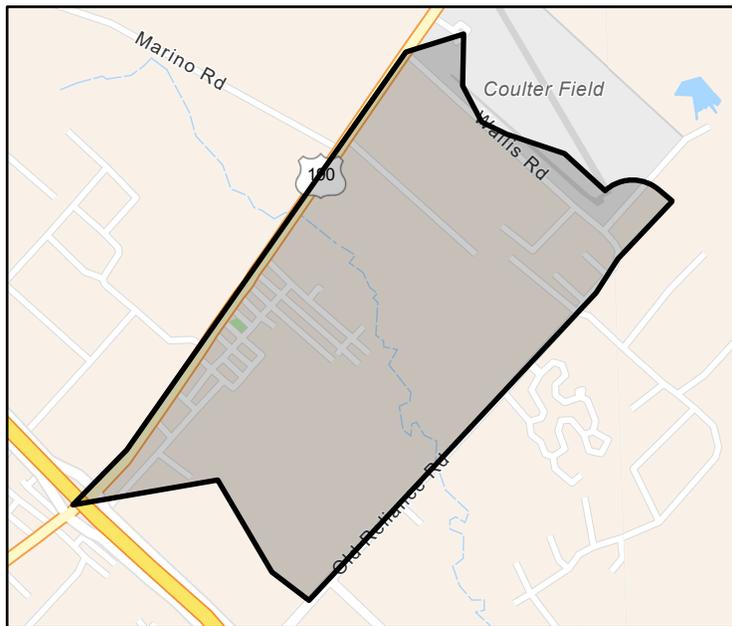
Farm/Ranch land impacted (acres) 6 Roadway(s) impacted (length) 10

Number of low water crossings 0 Historical road closures 6

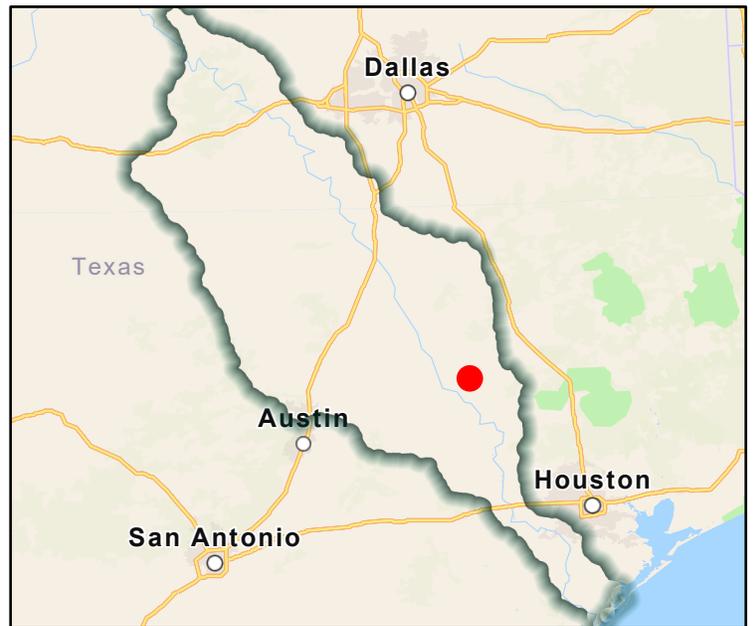
Estimated Cost and Funding Availability

Total Cost \$221,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Channel Stabilization

ID# 081000926

Sponsor (name of entity, not person) Georgetown

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Stabilize channel at inner loop culverts.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020505

Drainage area (Square miles, est.) 48 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,127 # of structures 366 # of Critical facilities 3

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

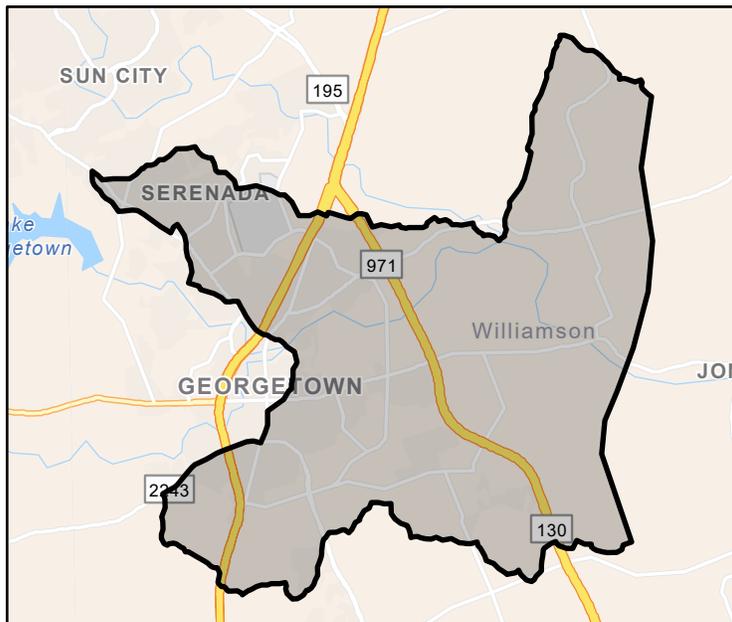
Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (length) 2

Number of low water crossings 9 Historical road closures 102

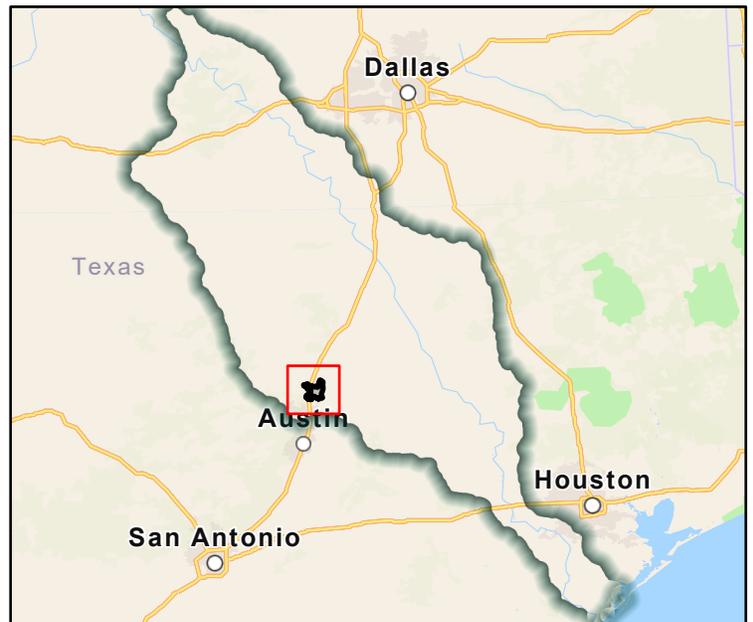
Estimated Cost and Funding Availability

Total Cost \$556,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Chimneystone, Austin, and Settlers Parks Improvements Phase II

ID# 081000057

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Design of new concrete channel and storm drain improvements.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 1 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 0

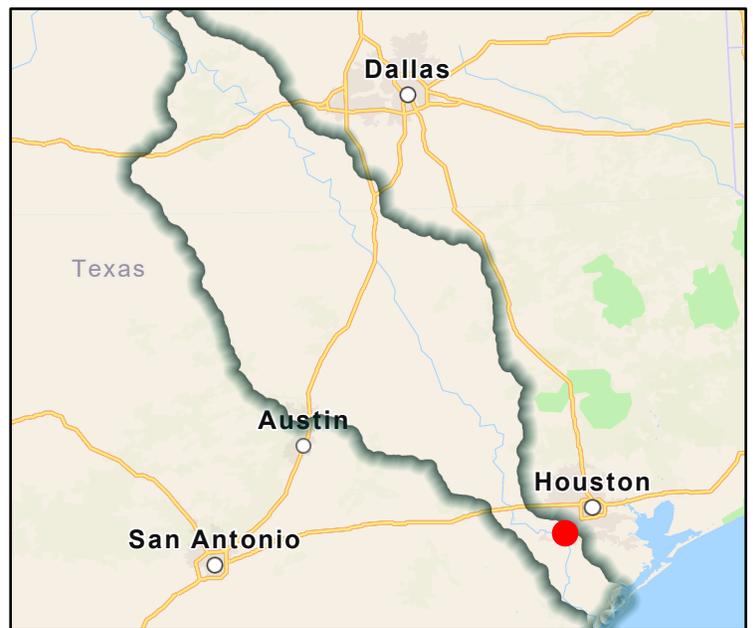
Estimated Cost and Funding Availability

Total Cost \$288,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Chimneystone, Austin, and Settlers Parks Improvements Phase III

ID# 081000980

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Design and construct drainage improvements to Wagon Trail and Settlers Way in Settlers Park.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 1 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 184 Roadway(s) impacted (length) 5

Number of low water crossings 0 Historical road closures 0

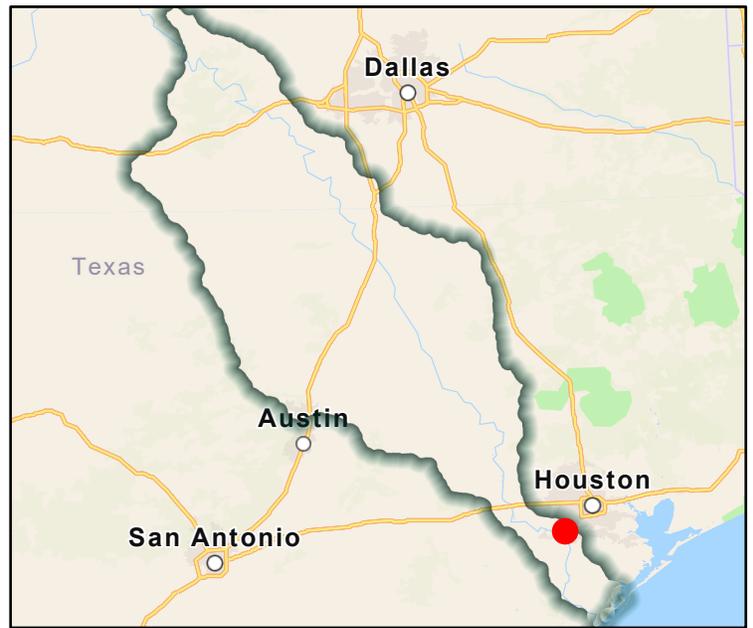
Estimated Cost and Funding Availability

Total Cost \$551,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title City of Georgetown Culvert Improvements

ID# 081000924

Sponsor (name of entity, not person) Georgetown

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Increase size of culverts at key locations to adequately convey storm water.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020501,1207020502,1207020503,1207020504,1207020505

Drainage area (Square miles, est.) 59 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,930 # of structures 175 # of Critical facilities 2

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

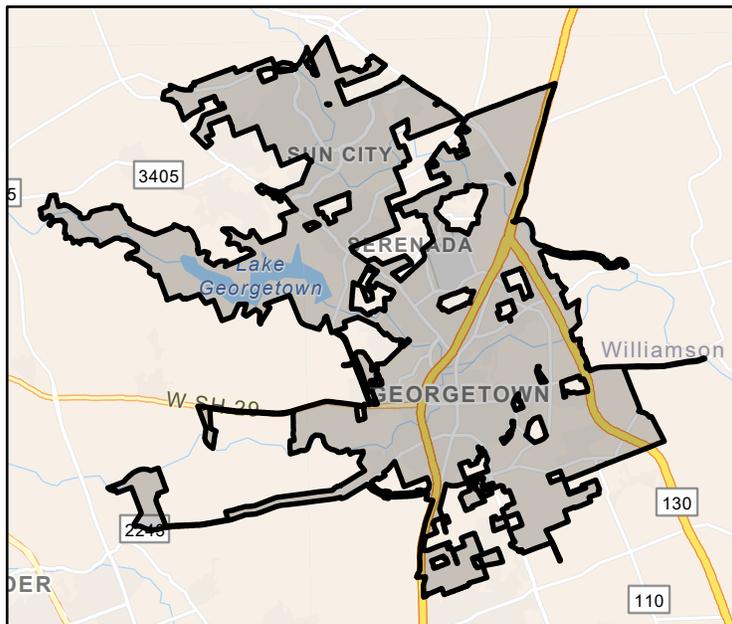
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 6 Historical road closures 82

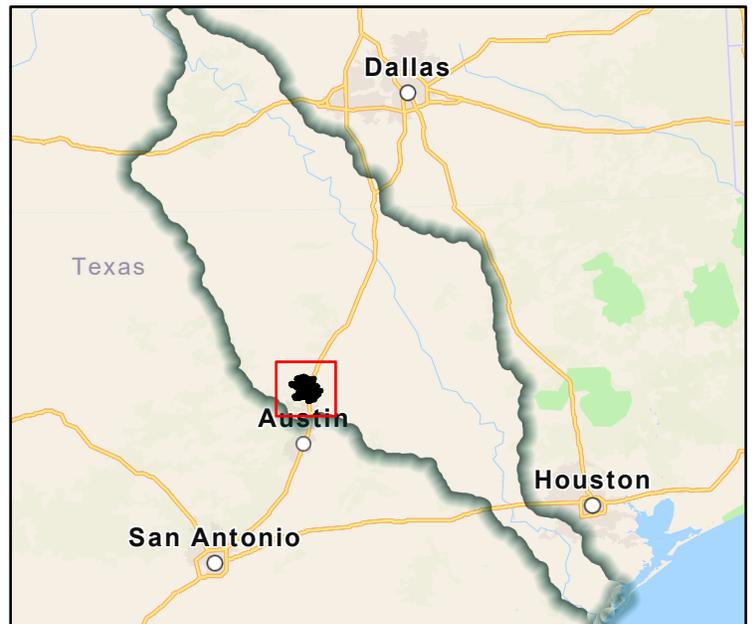
Estimated Cost and Funding Availability

Total Cost \$606,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title City of Georgetown Increase River/Channel Flow Capacity

ID# 081000921

Sponsor (name of entity, not person) Georgetown

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Increase flow by deepening and widening the channel.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020501,1207020502,1207020503,1207020504,1207020505

Drainage area (Square miles, est.) 59 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,930 # of structures 175 # of Critical facilities 2

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

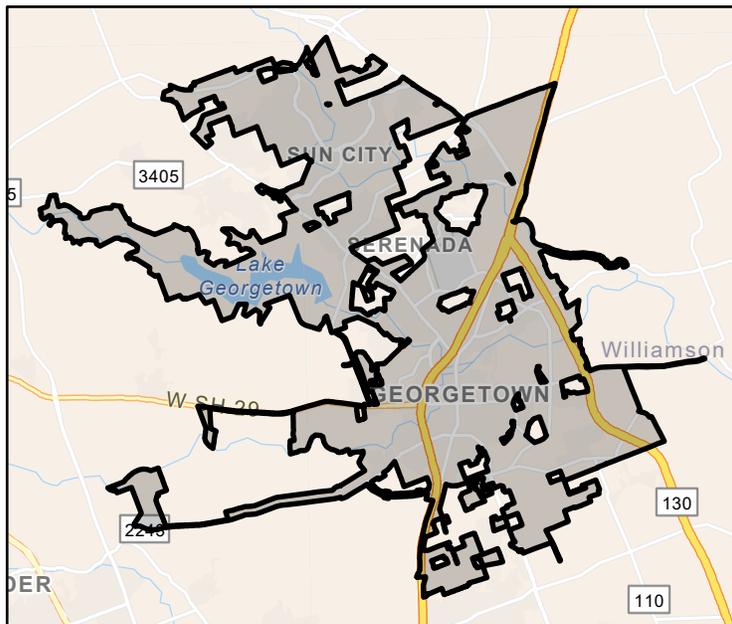
Farm/Ranch land impacted (acres) 373 Roadway(s) impacted (length) 3

Number of low water crossings 6 Historical road closures 82

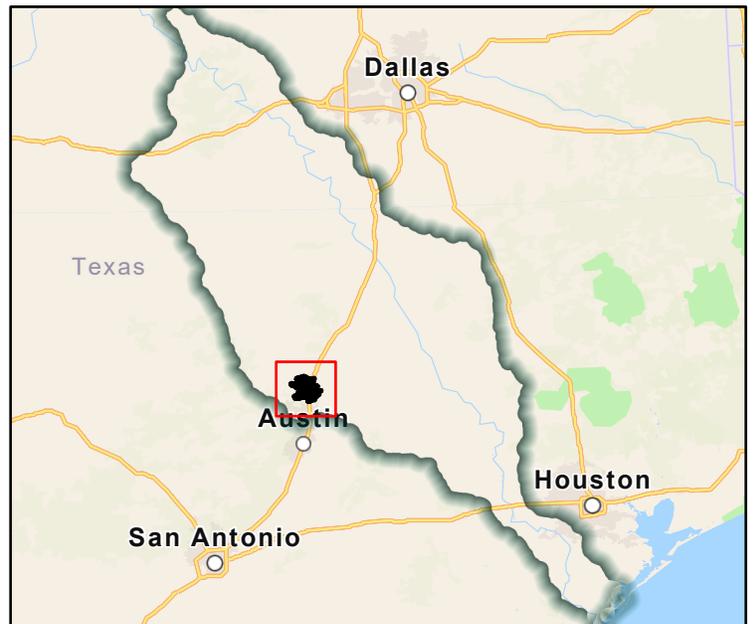
Estimated Cost and Funding Availability

Total Cost \$606,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title City of Georgetown River Erosion Control

ID# 081000922

Sponsor (name of entity, not person) Georgetown

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Reduce flood and erosion risk with riverbank stabilization and riverbank walls.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020501,1207020502,1207020503,1207020504,1207020505

Drainage area (Square miles, est.) 59 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,930 # of structures 175 # of Critical facilities 2

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

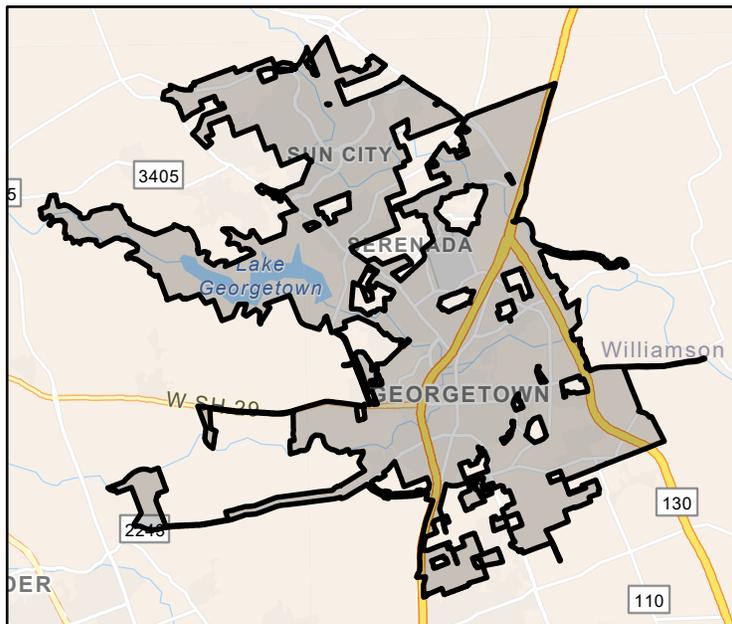
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 6 Historical road closures 82

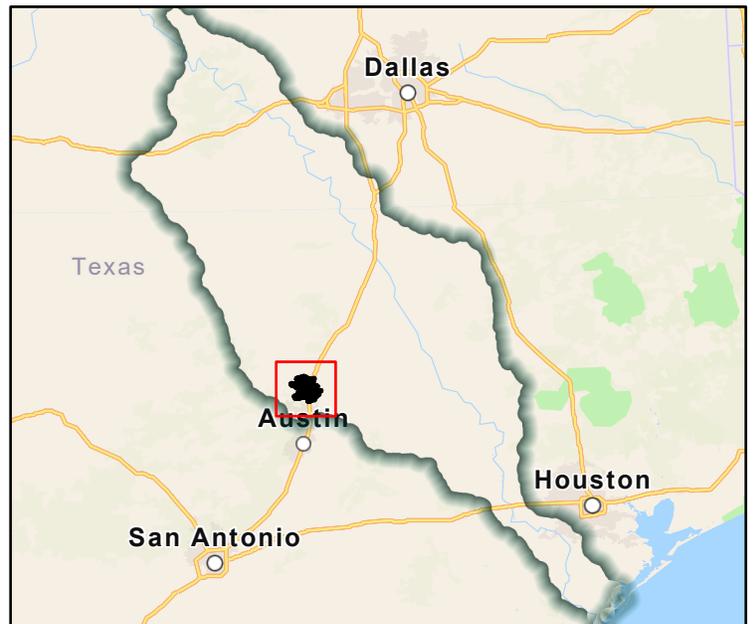
Estimated Cost and Funding Availability

Total Cost \$606,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Citywide FEMA Flood Study

ID# 081001027

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description City wide updates to floodplain mapping.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 45 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 3,337 # of structures 1,120 # of Critical facilities 6

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

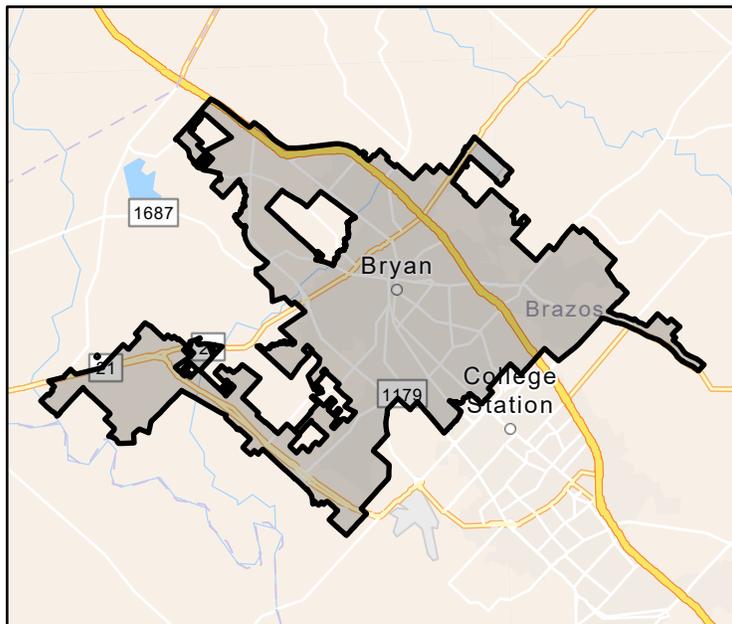
Farm/Ranch land impacted (acres) 75 Roadway(s) impacted (length) 2

Number of low water crossings 36 Historical road closures 94

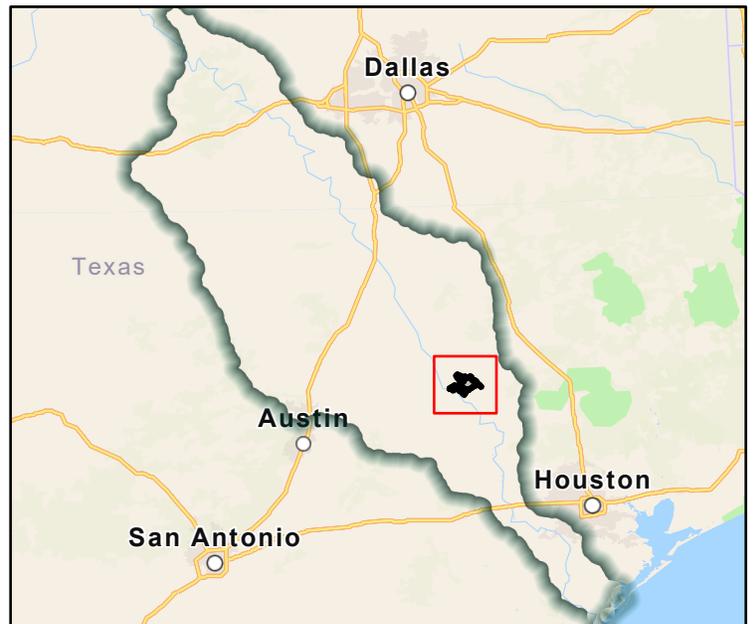
Estimated Cost and Funding Availability

Total Cost \$241,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Colony Bend, Colony Grant, Stephens Grant Drainage Improvements

ID# 081000978

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Complete a drainage study, design, and construction of drainage improvements to reduce flooding risk in the neighborhoods.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 1 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

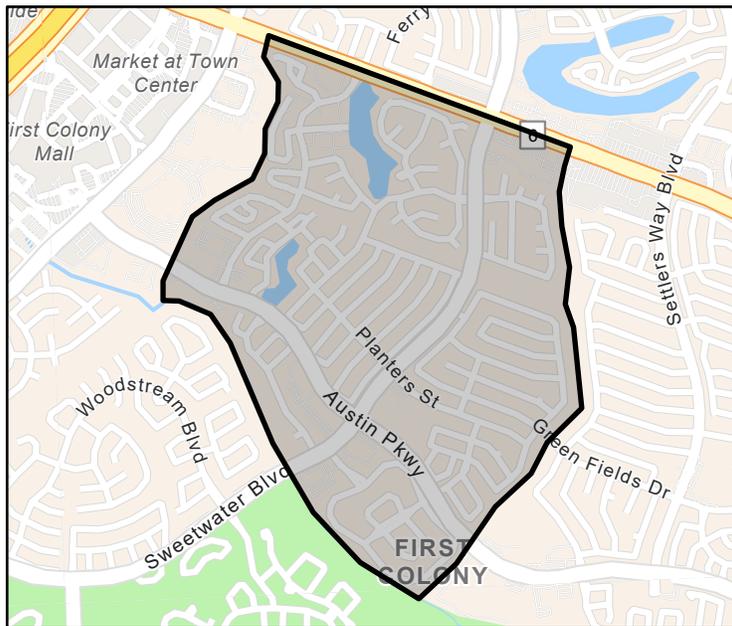
Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (length) 2

Number of low water crossings 0 Historical road closures 0

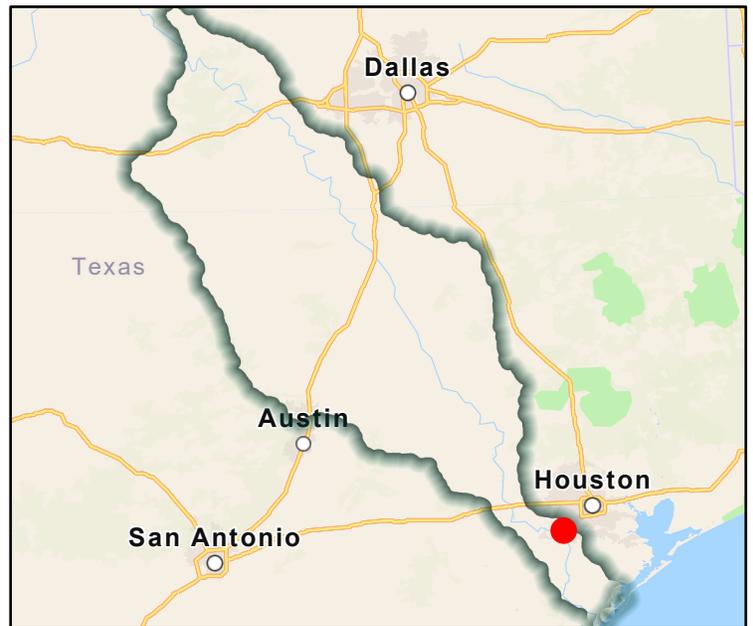
Estimated Cost and Funding Availability

Total Cost \$421,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Covington Woods Jess Pirtle Bridge Channel Improvements

ID# 081000048

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Determination of necessary repairs to ditch A-22 channel flow line

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020501,1204020502

Drainage area (Square miles, est.) 35 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 5,682 # of structures 1,300 # of Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 1,143 Roadway(s) impacted (length) 19

Number of low water crossings 0 Historical road closures 143

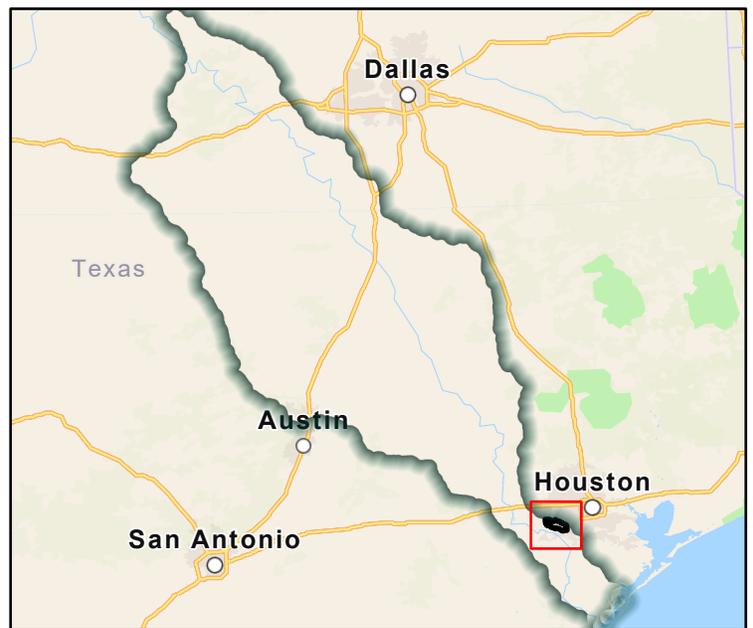
Estimated Cost and Funding Availability

Total Cost \$111,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Dam 101

ID# 081000955

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Construction of dam to provide flood storage for Lake Creek.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Travis,Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 28 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 2,120 # of structures 224 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

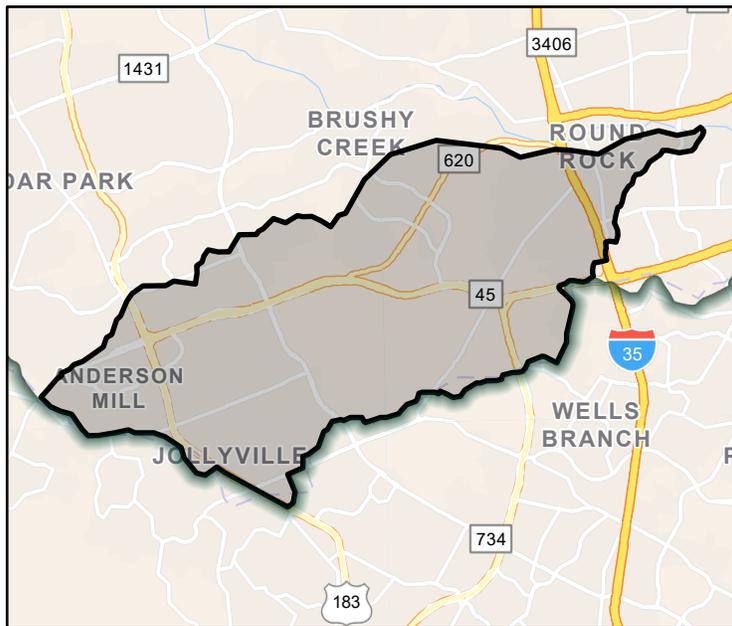
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 13 Historical road closures 44

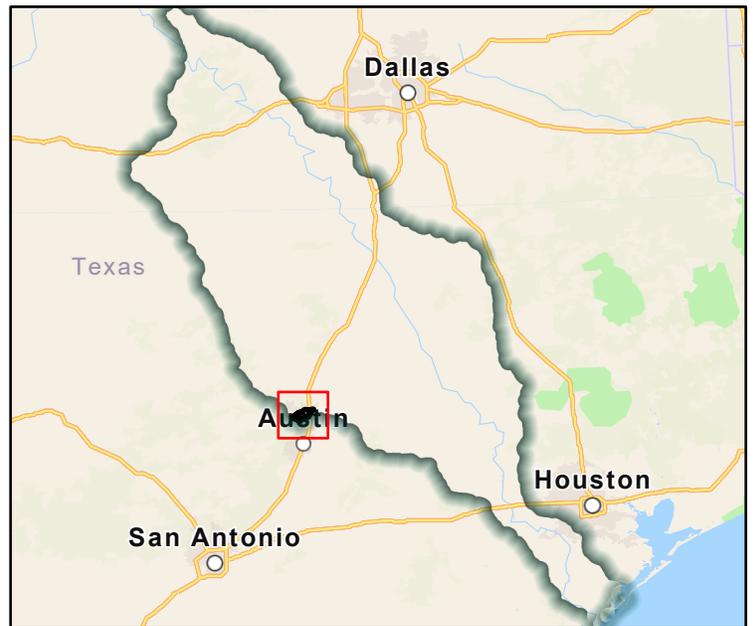
Estimated Cost and Funding Availability

Total Cost \$1,262,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Dam 102

ID# 081000956

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to design dam to provide flood storage for Lake Creek.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Travis,Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 28 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 2,120 # of structures 224 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

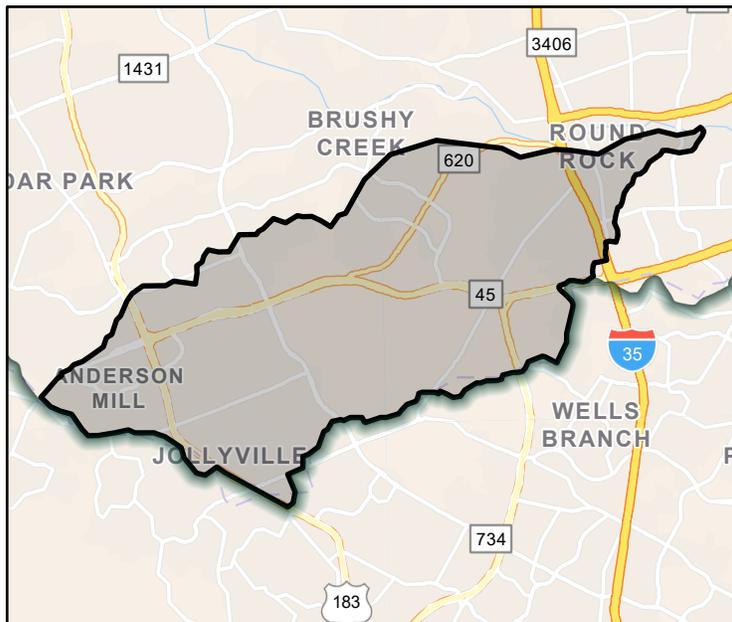
Farm/Ranch land impacted (acres) 12 Roadway(s) impacted (length) 0

Number of low water crossings 13 Historical road closures 44

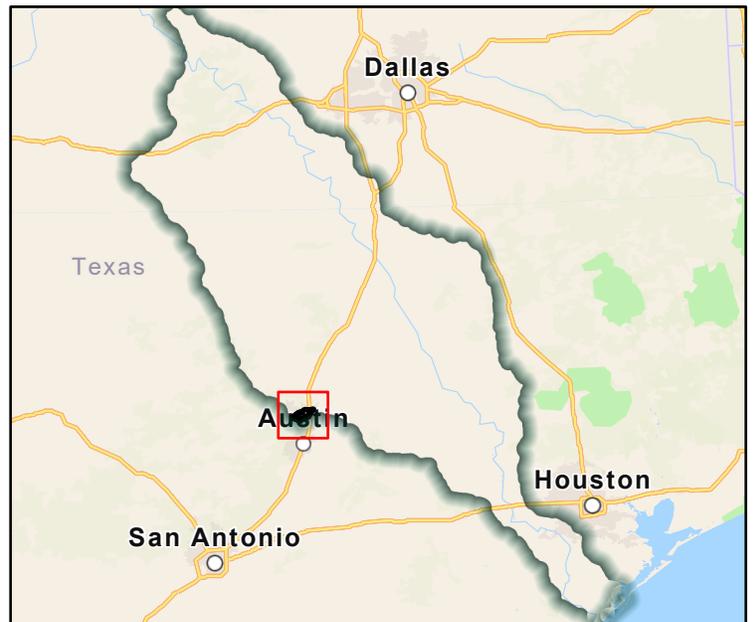
Estimated Cost and Funding Availability

Total Cost \$270,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Dam 14 Rehabilitation

ID# 081000958

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering
Study description Study to design erosion repairs for the downstream slope, mitigation for the longitudinal cracking on the dam crest, and auxiliary spillway improvements.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 24 Goal(s) 8000009

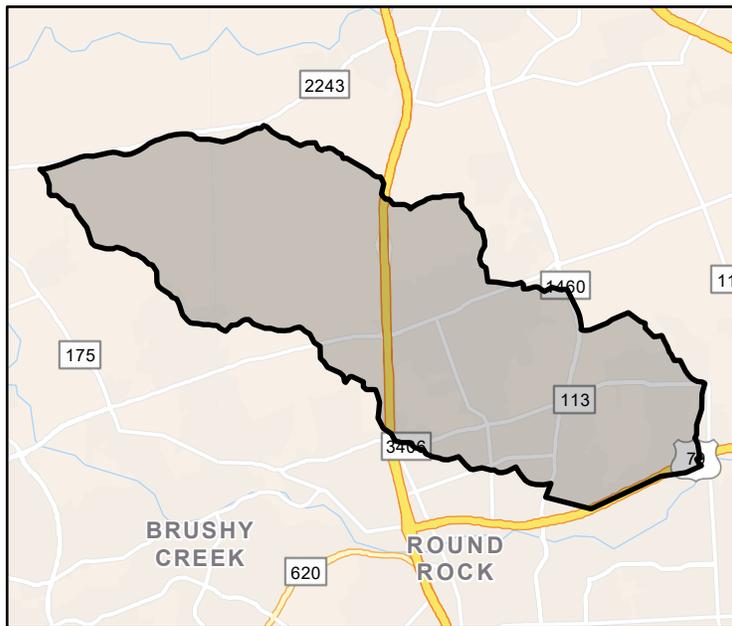
100-Year Flood Risk Summary

Population at risk 121 # of structures 28 # of Critical facilities 0
Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Farm/Ranch land impacted (acres) 20 Roadway(s) impacted (length) 2
Number of low water crossings 0 Historical road closures 12

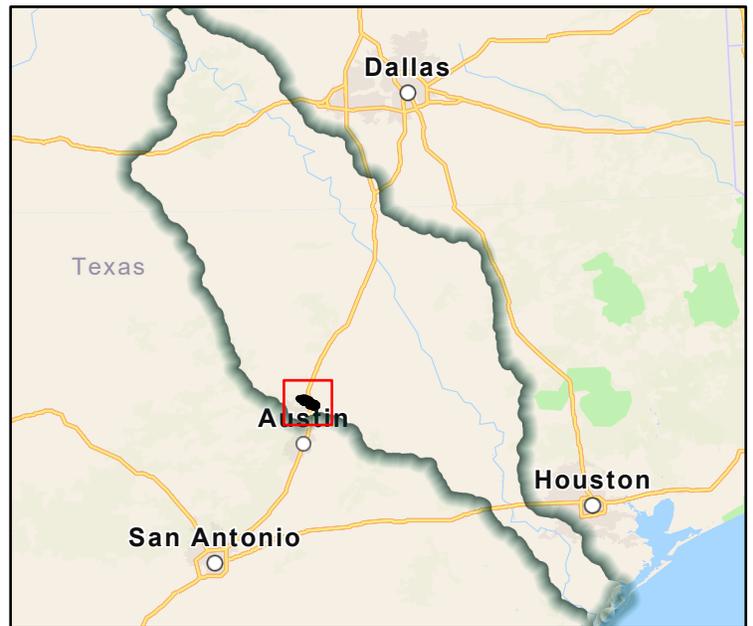
Estimated Cost and Funding Availability

Total Cost \$148,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Dam 18 Rehabilitation

ID# 081001145

Sponsor (name of entity, not person) Upper Brushy Creek WCID

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Improvements to ensure dam provides necessary protection against flood risk.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 11 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 11 # of structures 11 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

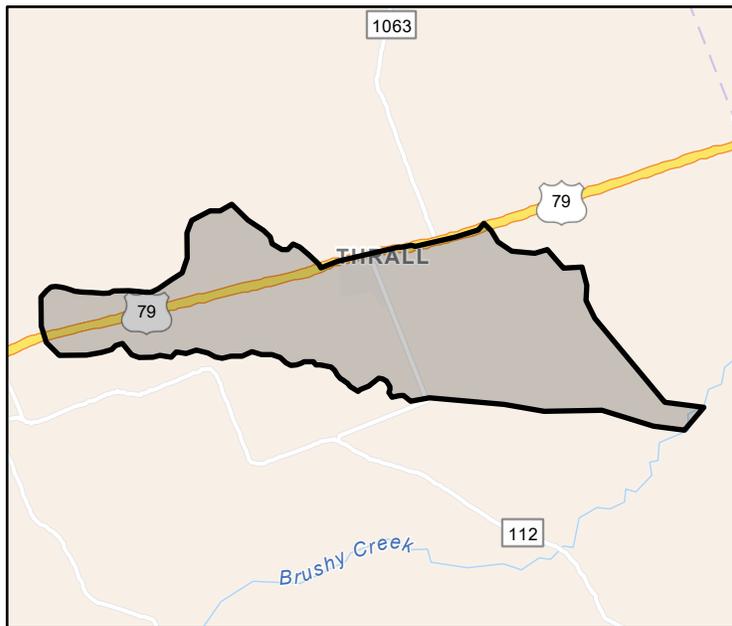
Farm/Ranch land impacted (acres) 2,717 Roadway(s) impacted (length) 37

Number of low water crossings 1 Historical road closures 8

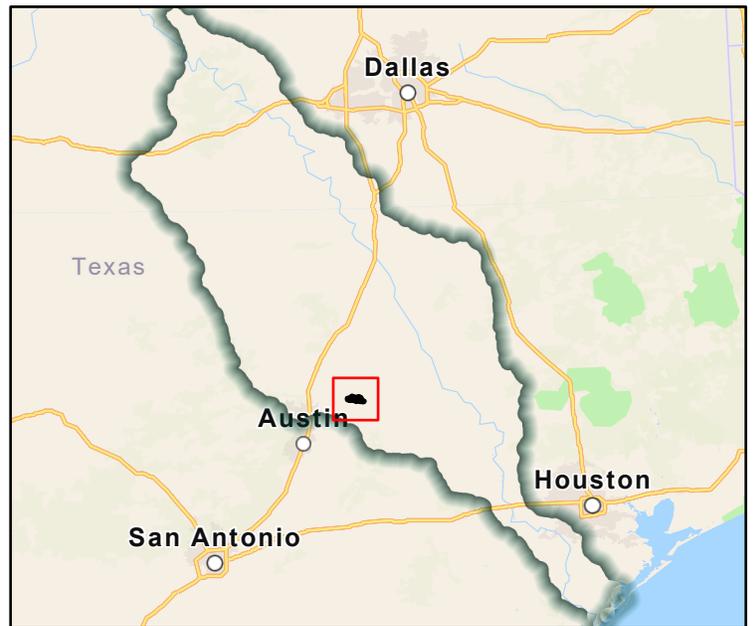
Estimated Cost and Funding Availability

Total Cost \$325,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Dam Emergency Action Plan**

ID# **081000939**

Sponsor (name of entity, not person)

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Study on Flood Preparedness**

Study description **Complete EAPs for Sites 9, 29, 2, 3, 6, 7, 17, 18, and 25 to be in compliance with TCEQ standards.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Williamson** Watershed HUC# (if known) **1207010201,1207020305,1207020304,1207020401,1207020501,120702**

Drainage area (Square miles, est.) **1,131** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **10,627** # of structures **3,519** # of Critical facilities **5**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

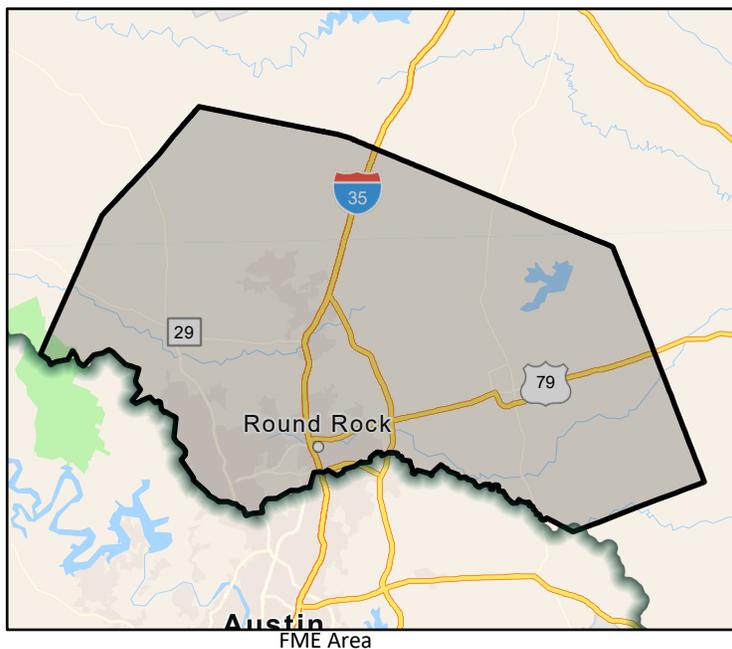
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **167** Historical road closures **728**

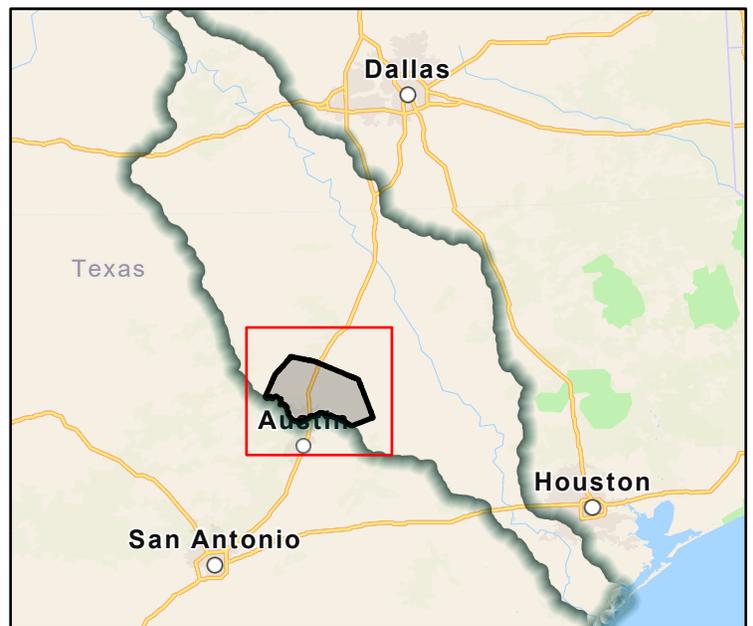
Estimated Cost and Funding Availability

Total Cost **\$4,950,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title FBCDD Drop Structures - Condition Assessments & Upgrades

ID# 081001068

Sponsor (name of entity, not person) Fort Bend

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Study on Flood Preparedness

Study description Create inventory of structures and condition, prioritize and design upgrades to structures as needed.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Fort Bend

Watershed HUC# (if known) 1207010404,1207010405,1207010403,1204020503,1204020501,120402

Drainage area (Square miles, est.) 609

Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 34,375

of structures 14,277

of Critical facilities 30

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 2,361

Roadway(s) impacted (length) 8

Number of low water crossings 2

Historical road closures 1,167

Estimated Cost and Funding Availability

Total Cost \$2,712,000

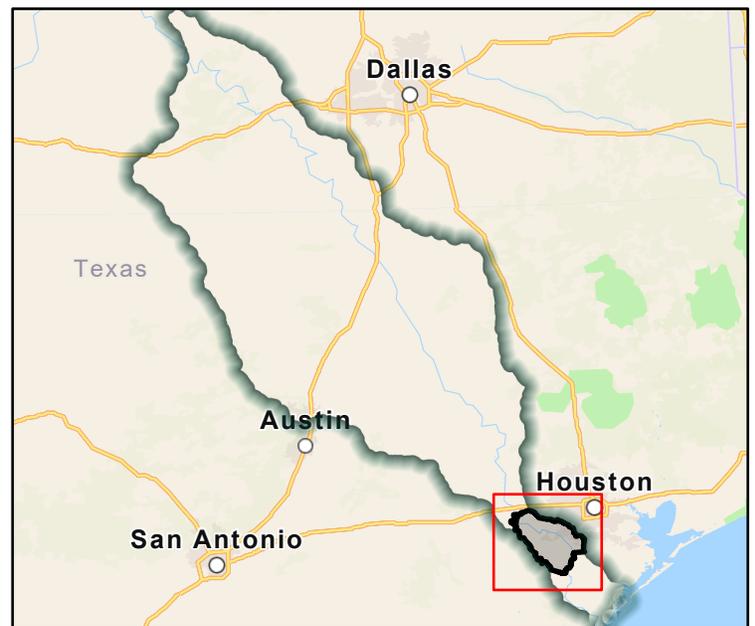
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Flood Inundation Mapping

ID# 081000979

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Update of the Integrated Stormwater Management Model to include improvements to predictions in leveed areas.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404,1204020501,1204020502

Drainage area (Square miles, est.) 43 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 1,403 # of structures 442 # of Critical facilities 2

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

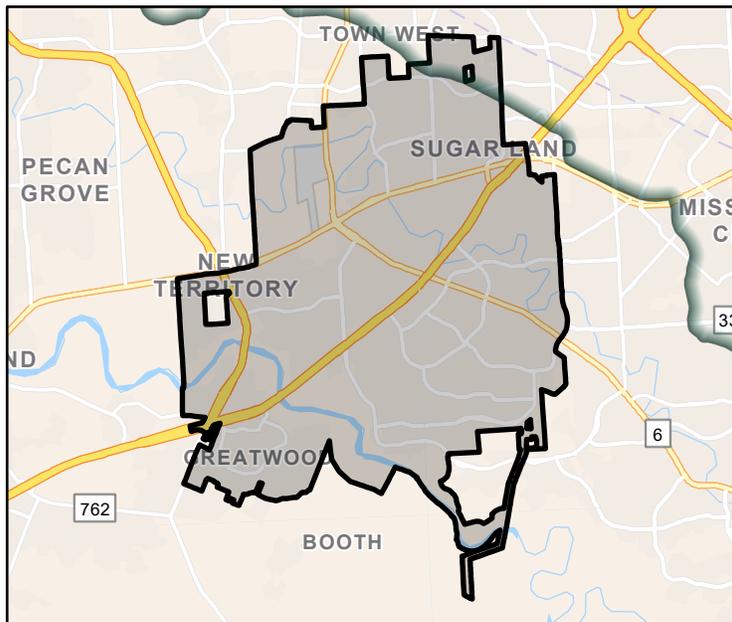
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 4

Number of low water crossings 0 Historical road closures 96

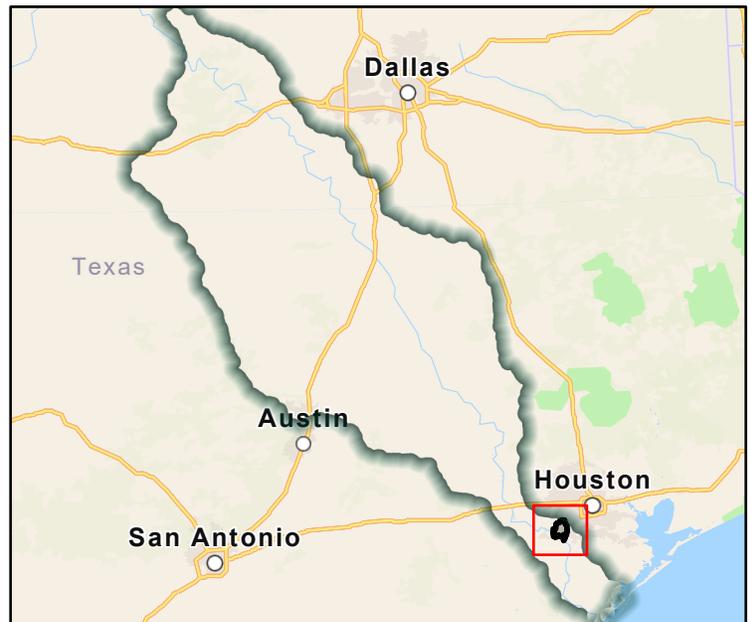
Estimated Cost and Funding Availability

Total Cost \$233,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title FM 2818 Crossing & Channel Improvements (FM- 2818 to Welsh) & Detention Pond

ID# 081001156

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 5

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 184

of structures 32

of Critical facilities 1

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 679

Roadway(s) impacted (length) 4

Number of low water crossings 3

Historical road closures 7

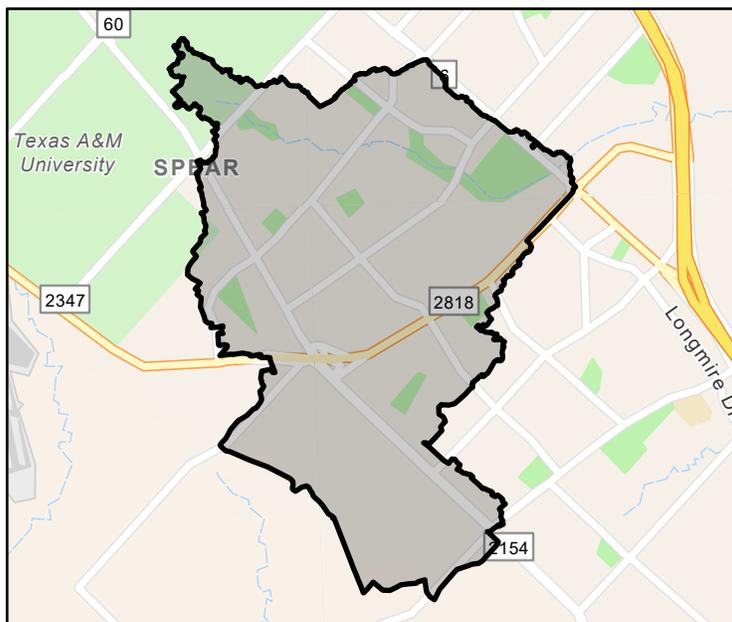
Estimated Cost and Funding Availability

Total Cost \$100,000

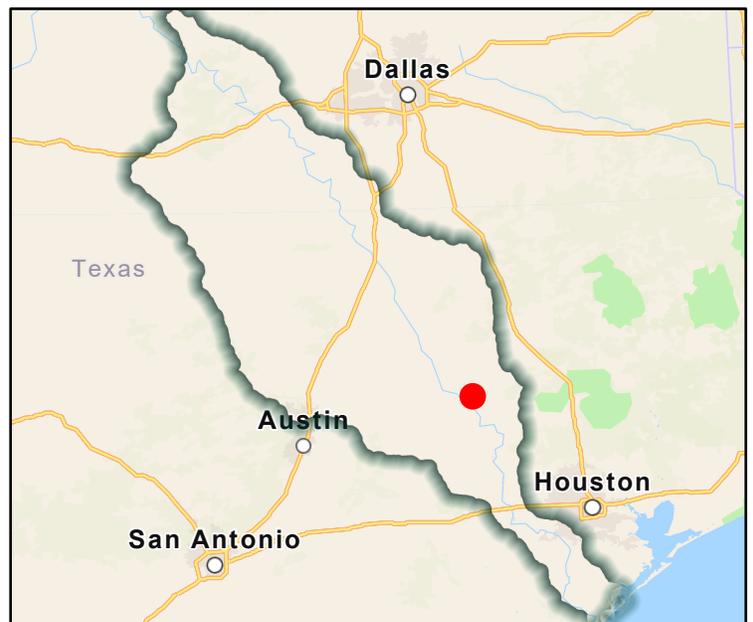
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Fulshear Lakes Drainage Improvements

ID# 081000041

Sponsor (name of entity, not person) Fulshear

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Design of drainage infrastructure to mitigate flooding in Fulshear Lake development.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010403

Drainage area (Square miles, est.) 1 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

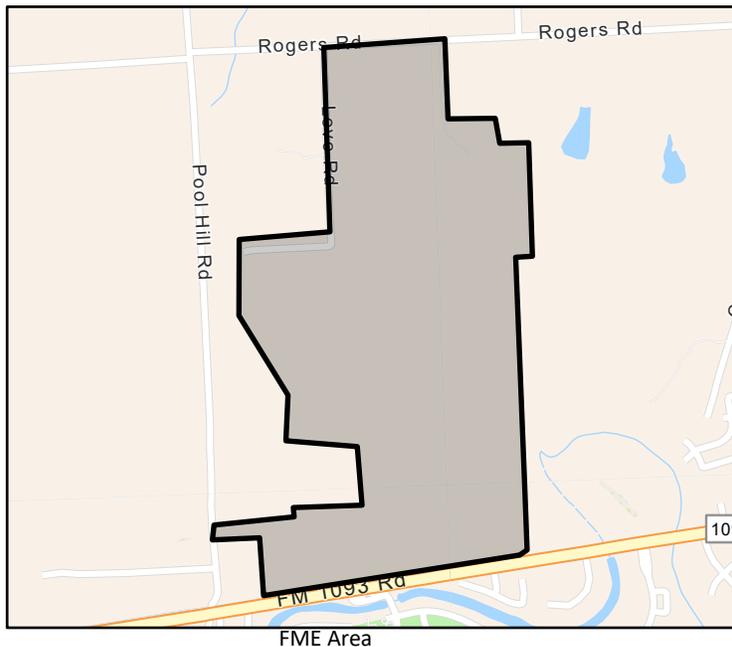
Farm/Ranch land impacted (acres) 69 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 0

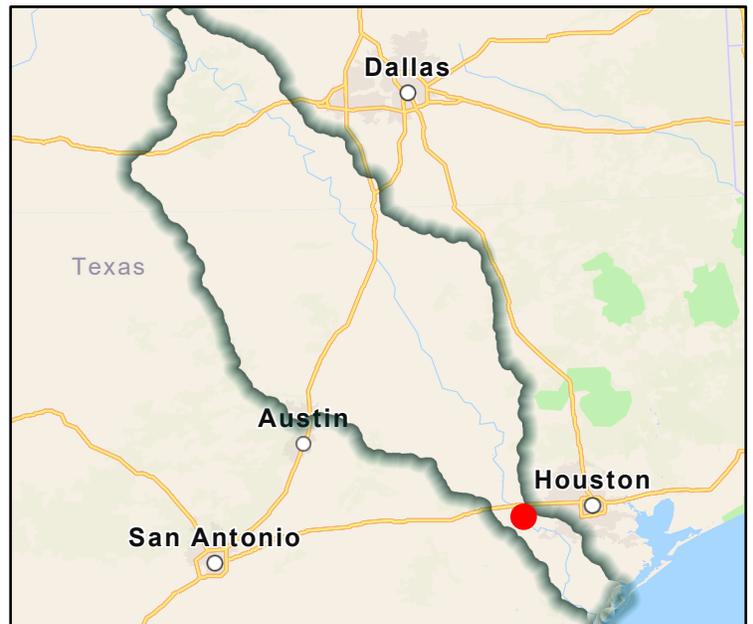
Estimated Cost and Funding Availability

Total Cost \$151,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Greatwood Inlet Replacements

ID# 081000988

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Update storm water inlets.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 3 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 0

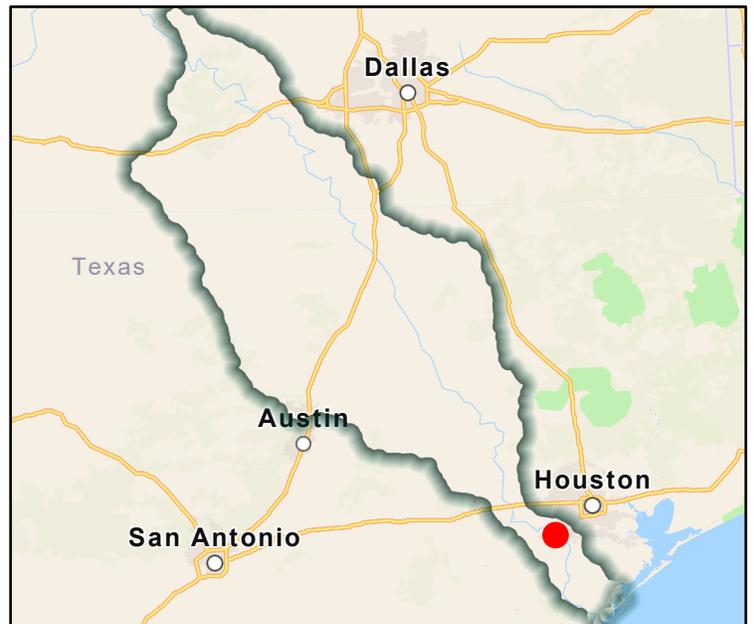
Estimated Cost and Funding Availability

Total Cost \$82,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Hopes Creek

ID# 081001067

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Study to determine flood risk across the watershed.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107

Drainage area (Square miles, est.) 10 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 2 # of structures 15 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Farm/Ranch land impacted (acres) 4,157 Roadway(s) impacted (length) 7

Number of low water crossings 0 Historical road closures 2

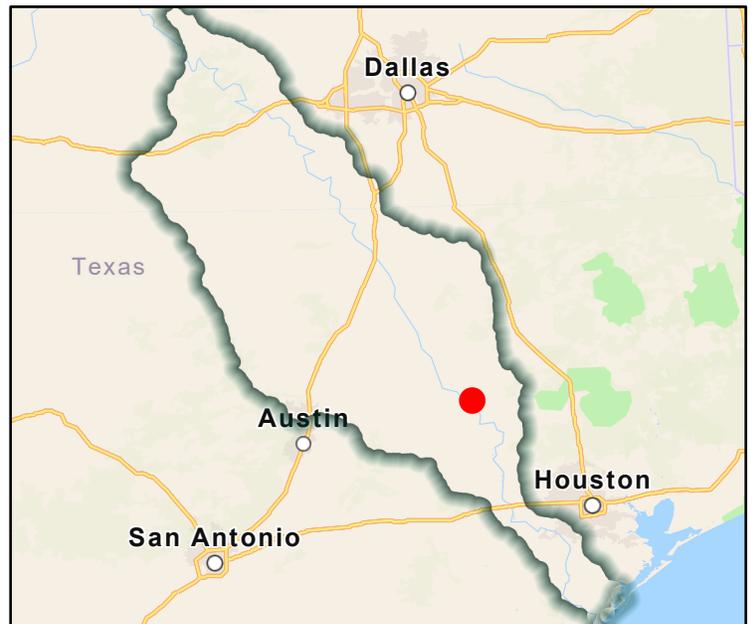
Estimated Cost and Funding Availability

Total Cost \$84,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Hudson Creek Regional Detention

ID# 081000999

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Study to design regional detention upstream of Copperfield to mitigate flooding and maintenance problems.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010306,1207010307

Drainage area (Square miles, est.) 3 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 153 # of structures 26 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

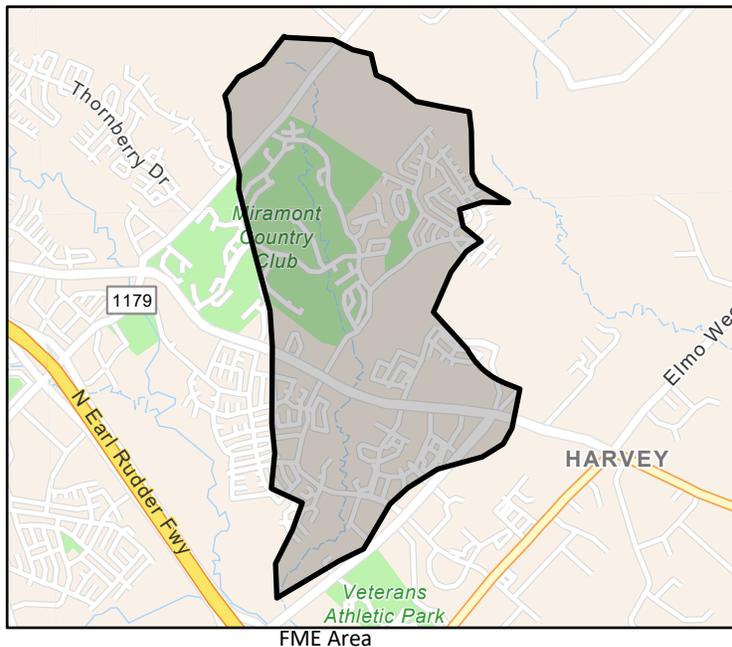
Farm/Ranch land impacted (acres) 10 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 3

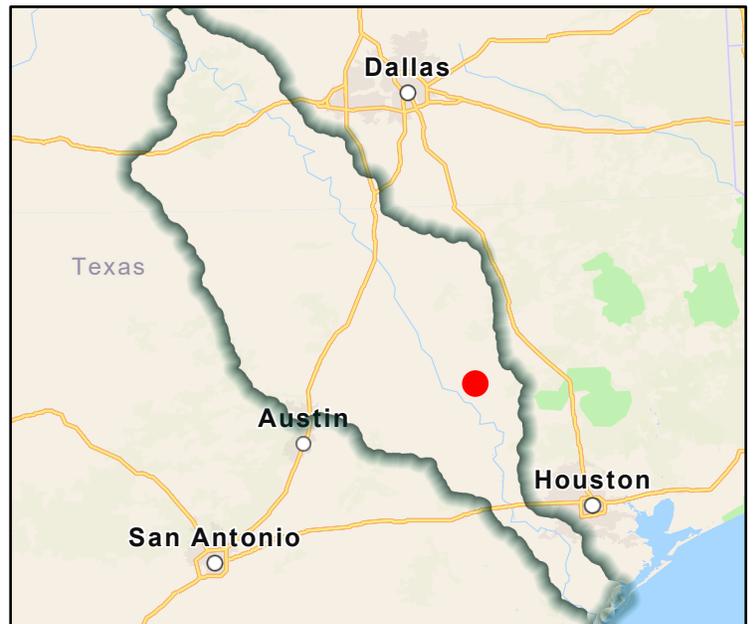
Estimated Cost and Funding Availability

Total Cost \$160,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Hwy 6 Crossing & DS Channel Improvements

ID# 081001153

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 2

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 69

of structures 45

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 335

Roadway(s) impacted (length) 7

Number of low water crossings 3

Historical road closures 2

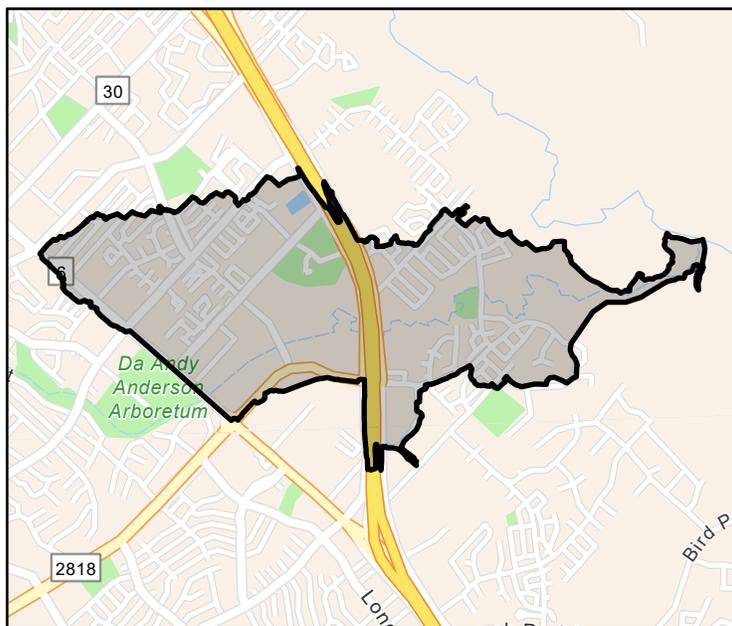
Estimated Cost and Funding Availability

Total Cost \$100,000

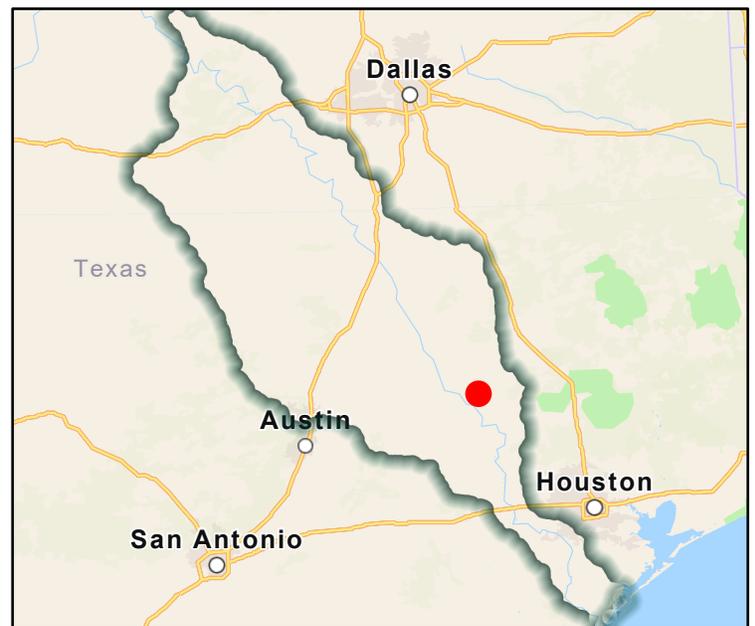
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Chandler Branch Tributary

ID# 081000945

Sponsor (name of entity, not person) Round Rock

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Channel improvements from Eagles Nest St to Settlement Dr.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 3 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 58 # of structures 21 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Farm/Ranch land impacted (acres) 4 Roadway(s) impacted (length) 3

Number of low water crossings 1 Historical road closures 13

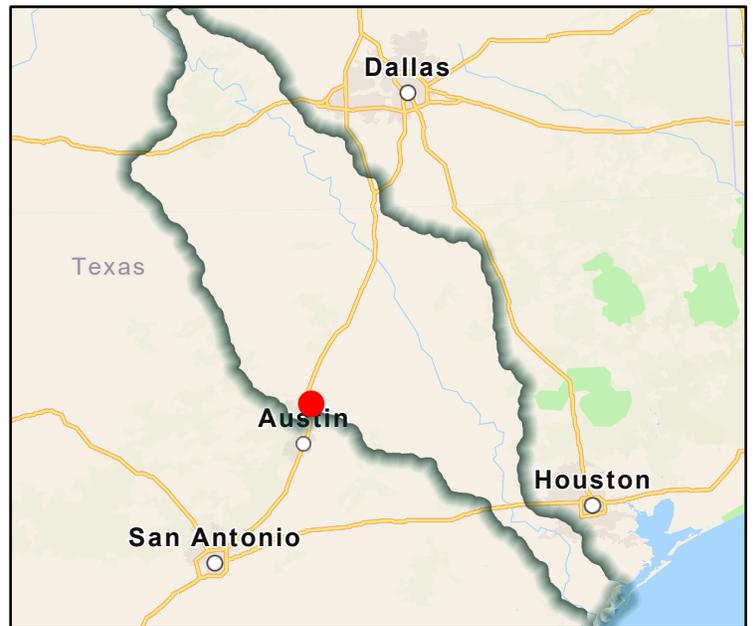
Estimated Cost and Funding Availability

Total Cost \$202,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Briar Creek DB

ID# 081001035

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 3

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 242

of structures 100

of Critical facilities 0

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 24

Roadway(s) impacted (length) 1

Number of low water crossings 5

Historical road closures 15

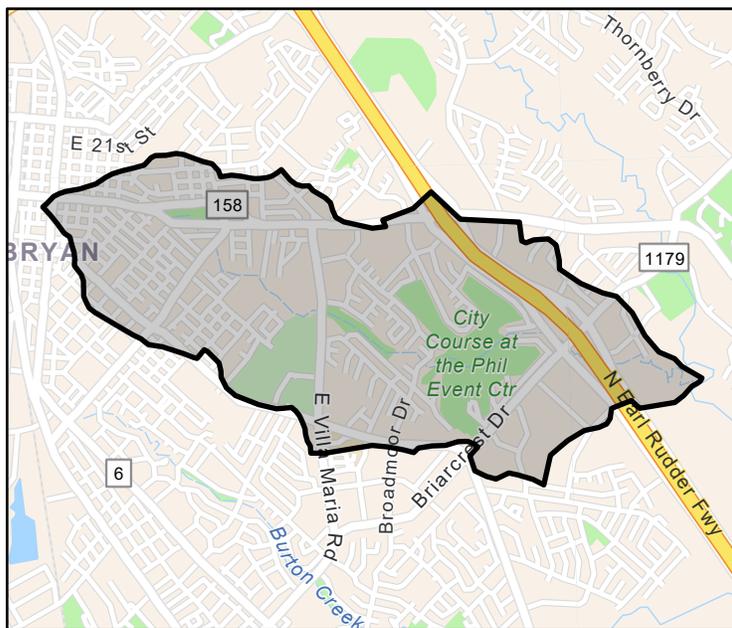
Estimated Cost and Funding Availability

Total Cost \$100,000

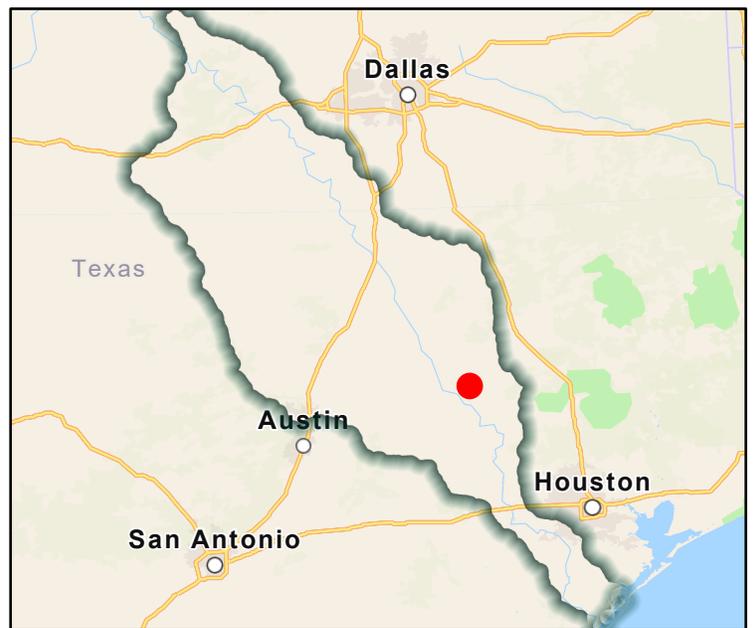
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Burton Creek DB

ID# 081001036

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 7

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 1,697

of structures 348

of Critical facilities 2

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 33

Roadway(s) impacted (length) 1

Number of low water crossings 9

Historical road closures 47

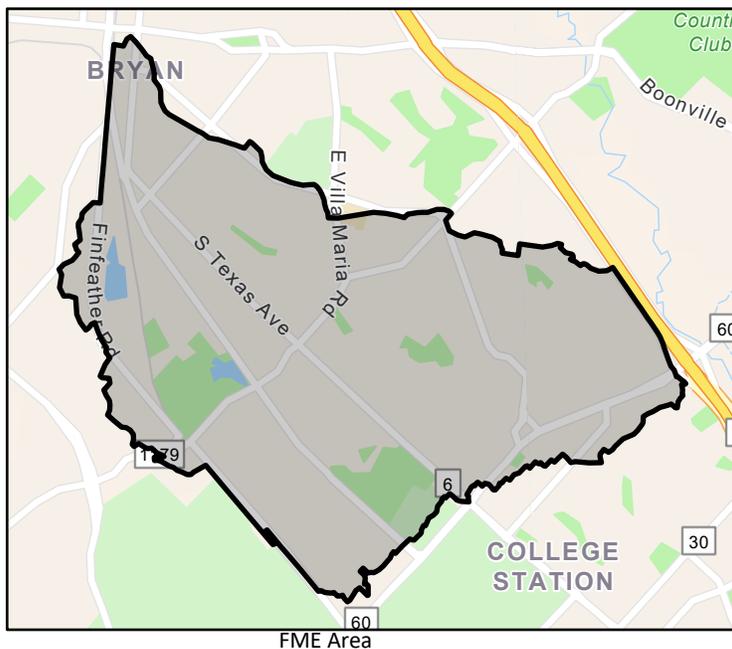
Estimated Cost and Funding Availability

Total Cost \$300,000

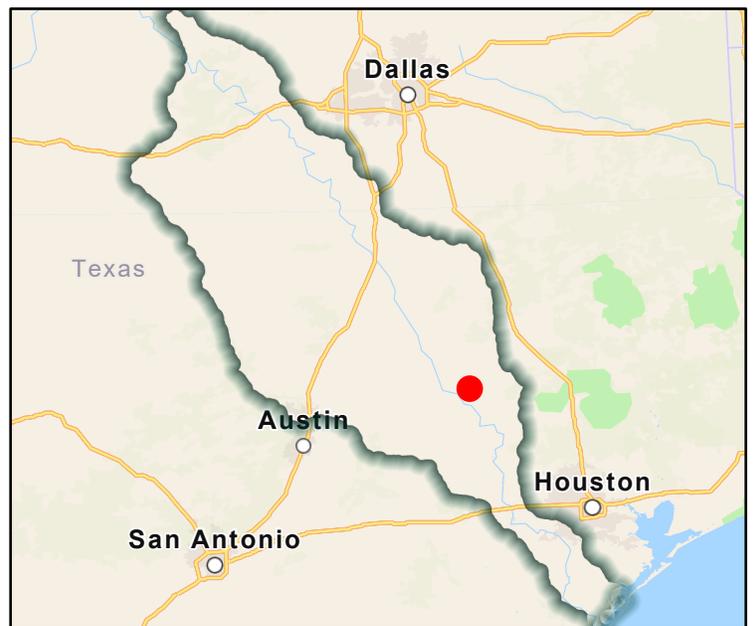
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Carter Creek DB

ID# 081001037

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010306,1207010307

Drainage area (Square miles, est.) 12

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 883

of structures 190

of Critical facilities 2

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 12

Roadway(s) impacted (length) 1

Number of low water crossings 6

Historical road closures 48

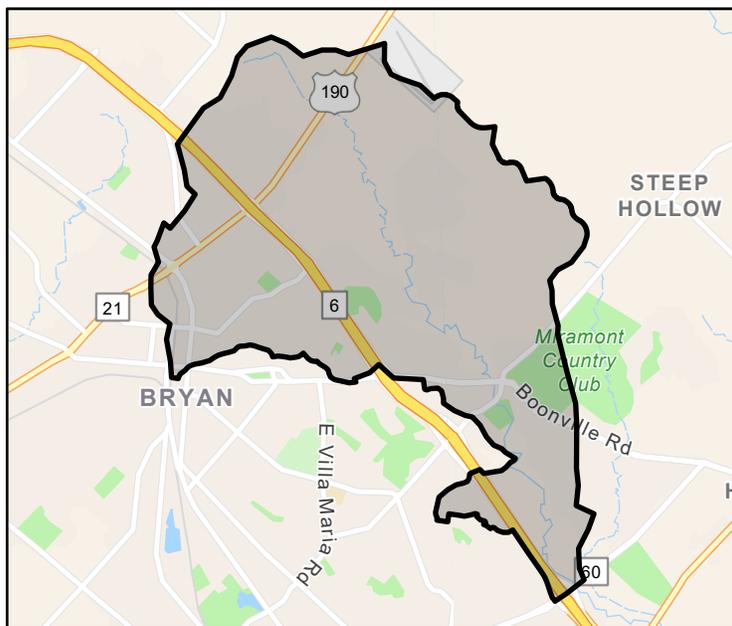
Estimated Cost and Funding Availability

Total Cost \$100,000

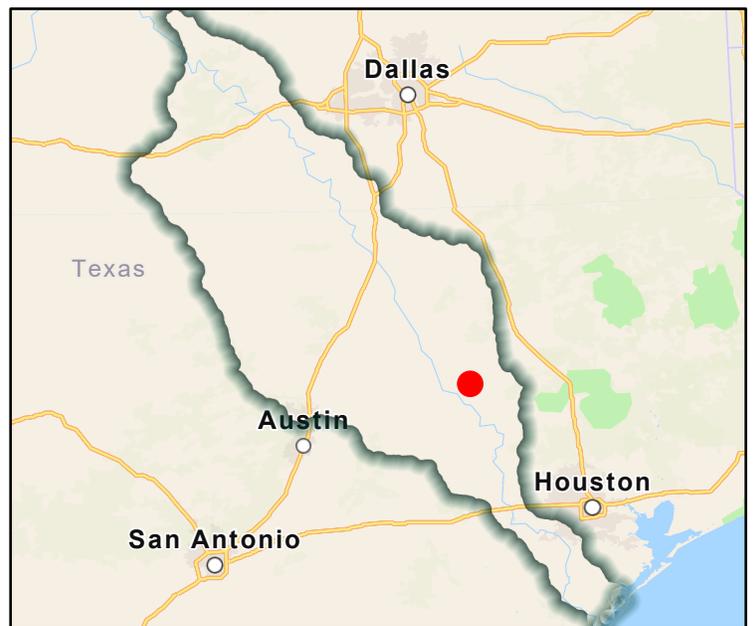
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Cottonwood Branch/Still Creek DB

ID# 081001039

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 17

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 692

of structures 254

of Critical facilities 2

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 16

Roadway(s) impacted (length) 1

Number of low water crossings 12

Historical road closures 51

Estimated Cost and Funding Availability

Total Cost \$100,000

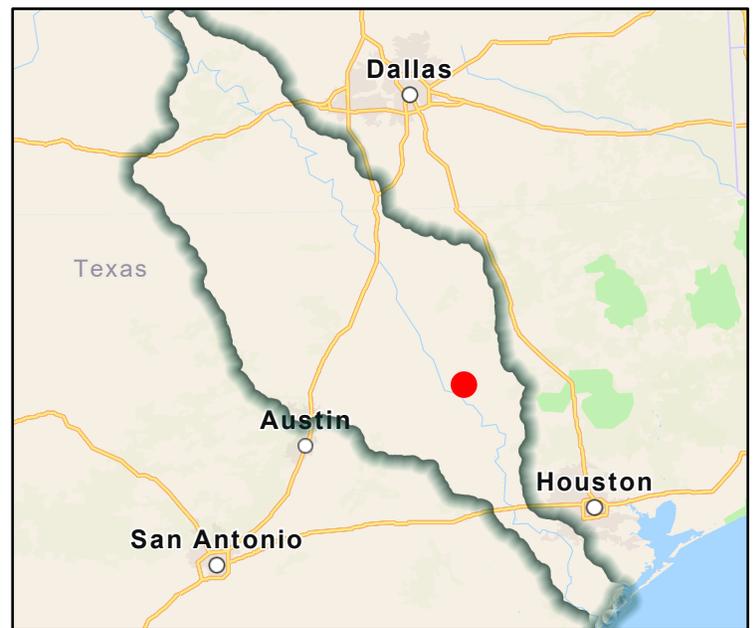
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Hudson Creek DB

ID# 081001038

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010306,1207010307

Drainage area (Square miles, est.) 3

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 153

of structures 26

of Critical facilities 0

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 14

Roadway(s) impacted (length) 0

Number of low water crossings 0

Historical road closures 3

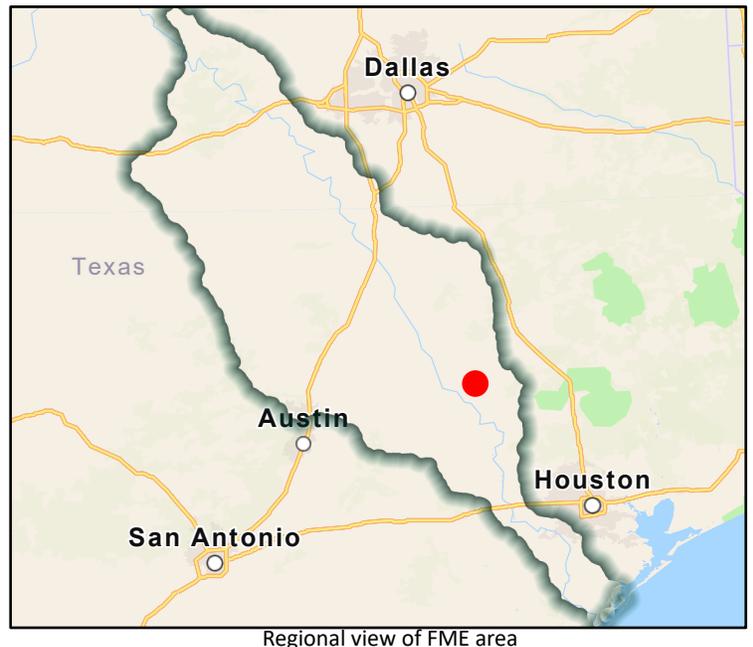
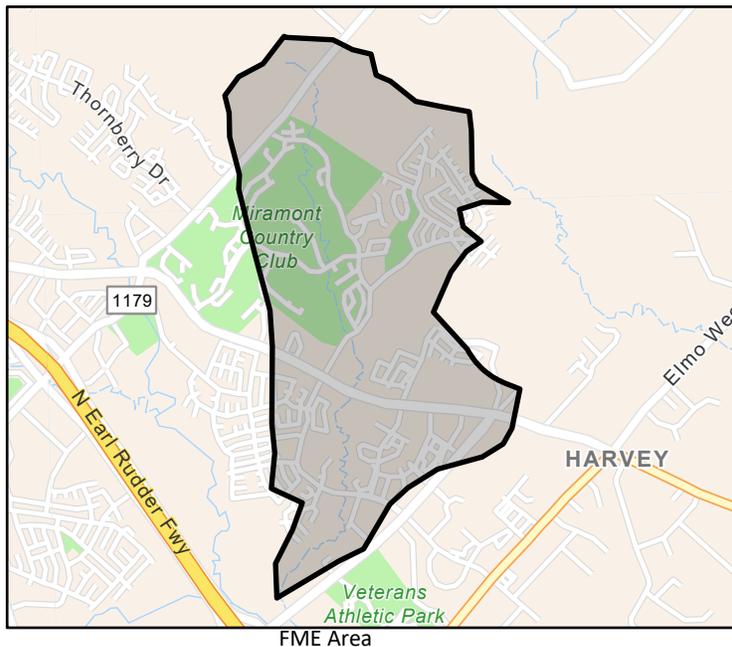
Estimated Cost and Funding Availability

Total Cost \$100,000

Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Improve Undersized Storm Sewers in Turkey Creek DB

ID# 081001040

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update modeling to Atlas 14 to determine appropriate sizing for storm sewer in the region.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 22

of structures 14

of Critical facilities 0

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 7,744

Roadway(s) impacted (length) 10

Number of low water crossings 0

Historical road closures

9

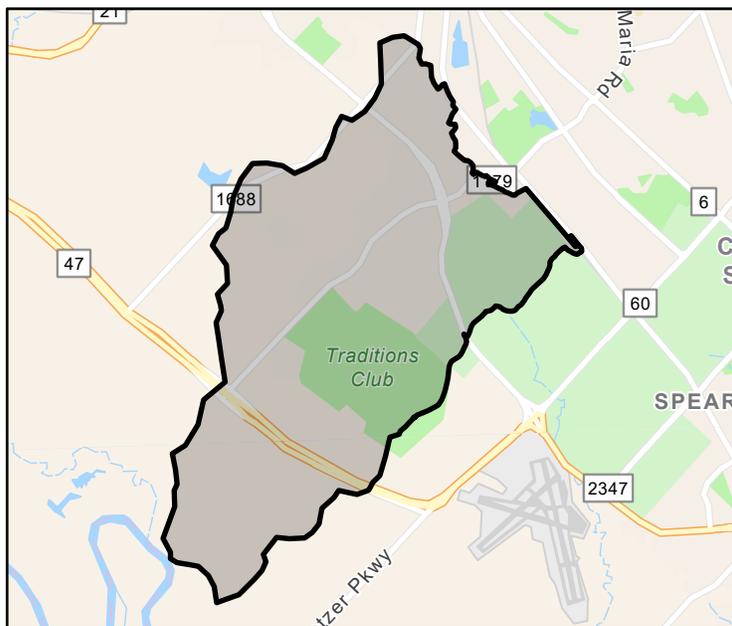
Estimated Cost and Funding Availability

Total Cost \$100,000

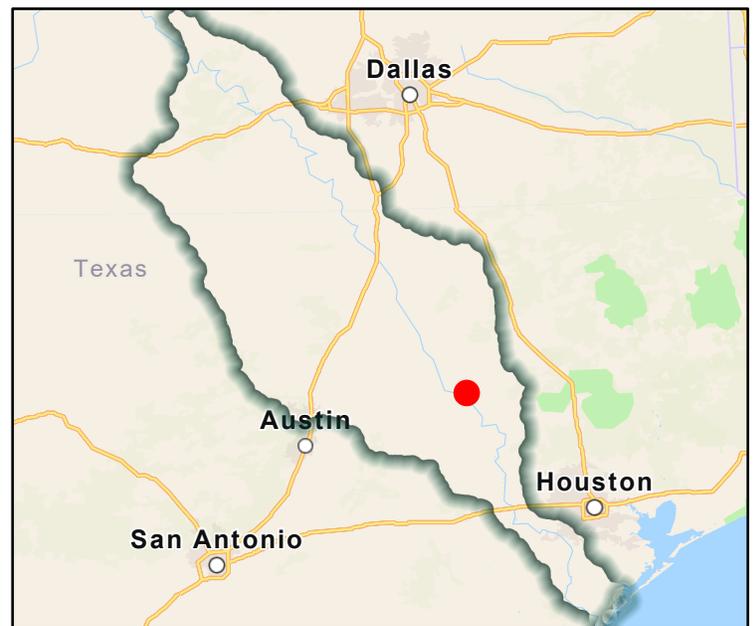
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lake Creek Structural Elevation

ID# 081000943

Sponsor (name of entity, not person) Round Rock

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Elevate or floodproof structures currently in high risk areas. Use H&H modeling to prioritize properties.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Travis,Williamson

Watershed HUC# (if known) 1207020504,1207020505

Drainage area (Square miles, est.) 38

Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 838

of structures 234

of Critical facilities 1

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 0

Roadway(s) impacted (length) 0

Number of low water crossings 11

Historical road closures 57

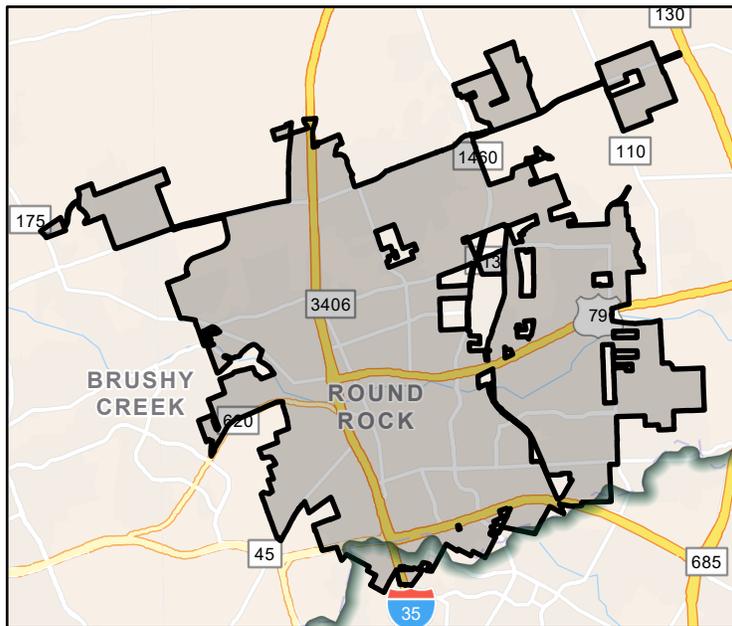
Estimated Cost and Funding Availability

Total Cost \$510,000

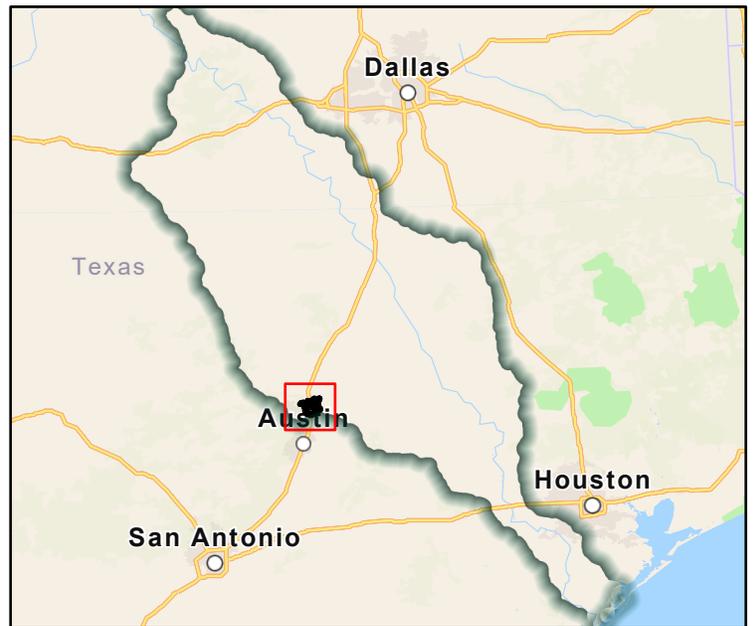
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lake Creek Tributary 2

ID# 081000944

Sponsor (name of entity, not person) Round Rock

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Develop H&H models for watershed and evaluate methods to provide flood protection to the area.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Travis,Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 28 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 2,120 # of structures 224 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

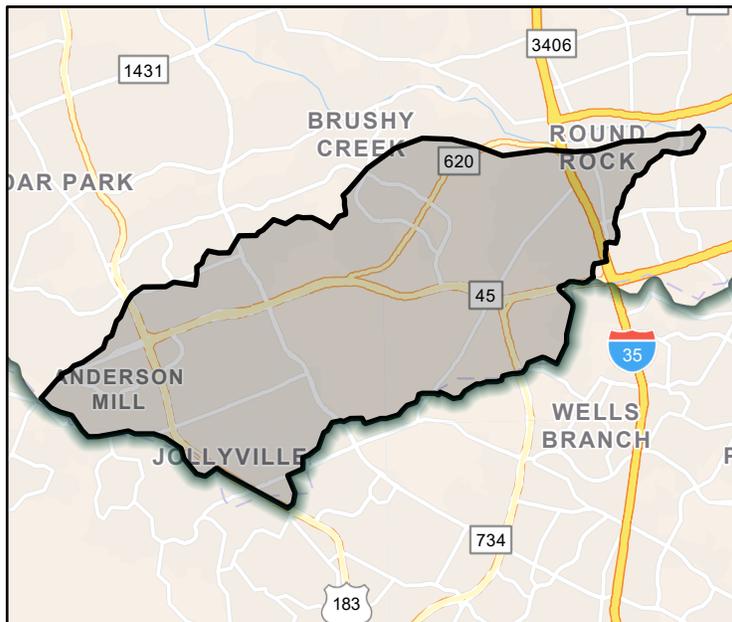
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 13 Historical road closures 45

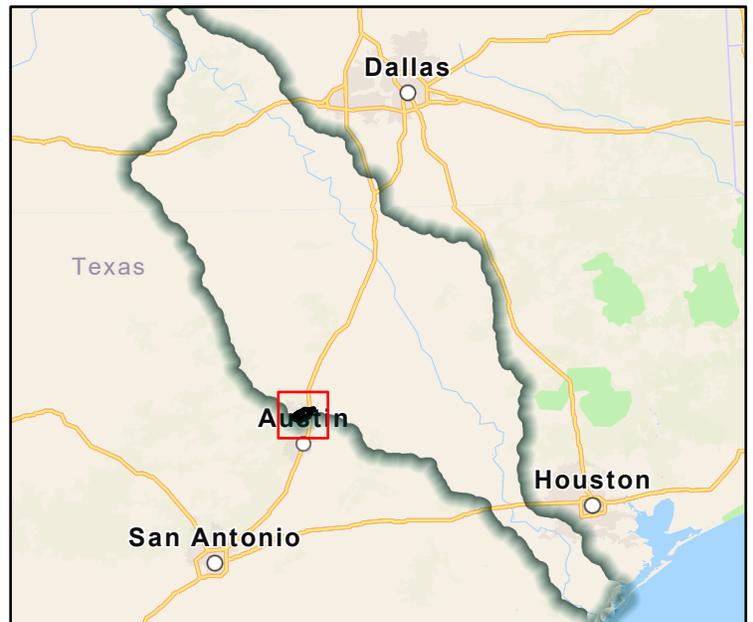
Estimated Cost and Funding Availability

Total Cost \$166,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lakebend Sugar Creek Outfall & Drainage

ID# 081000982

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Replace outfall structure and channel improvements at Sugar Creek & Parkway Blvd and upsize storm water systems.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020502

Drainage area (Square miles, est.) 2 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 214 # of structures 26 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

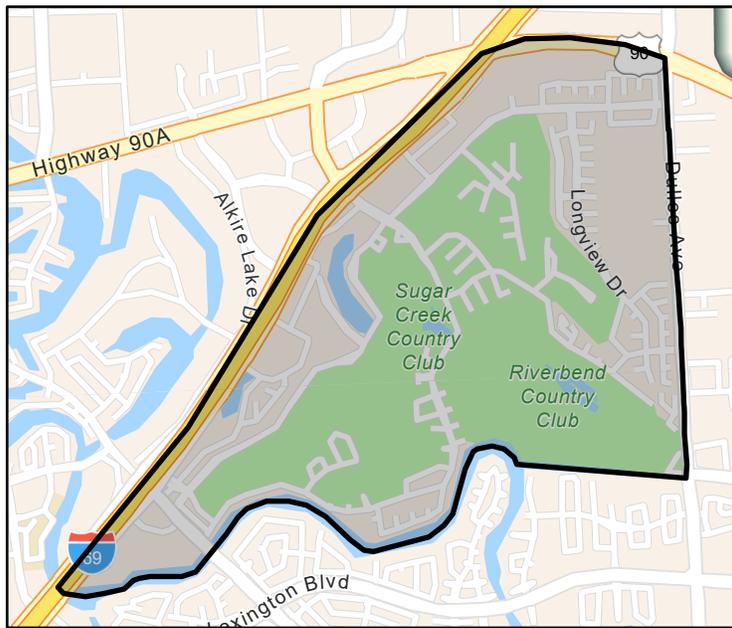
Farm/Ranch land impacted (acres) 292 Roadway(s) impacted (length) 5

Number of low water crossings 0 Historical road closures 18

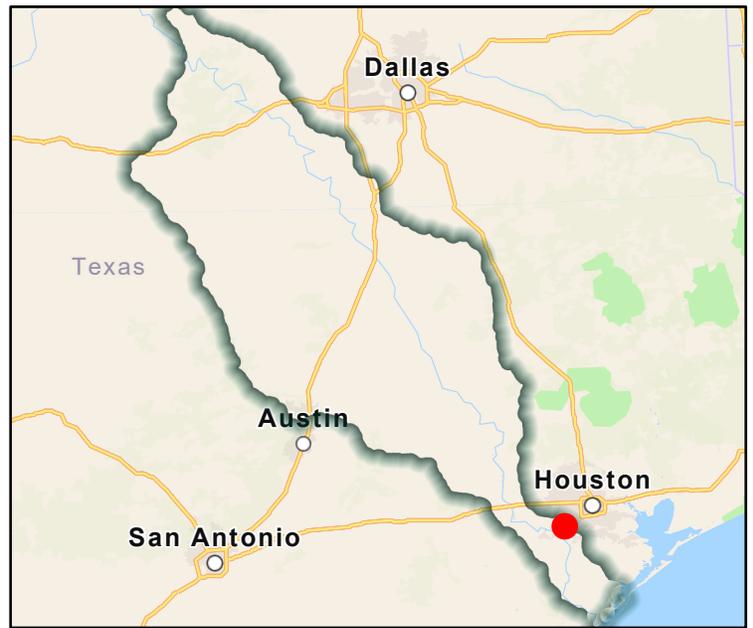
Estimated Cost and Funding Availability

Total Cost \$388,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lea/Penn and Red Bird Lane Improvements

ID# 081000042

Sponsor (name of entity, not person) Fulshear

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Design of diversion channel and road construction to reduce flooding and provide access to neighborhoods.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Fort Bend

Watershed HUC# (if known) 1207010403,1204020501

Drainage area (Square miles, est.) 14

Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 177

of structures 80

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 1,414

Roadway(s) impacted (length) 2

Number of low water crossings 0

Historical road closures 9

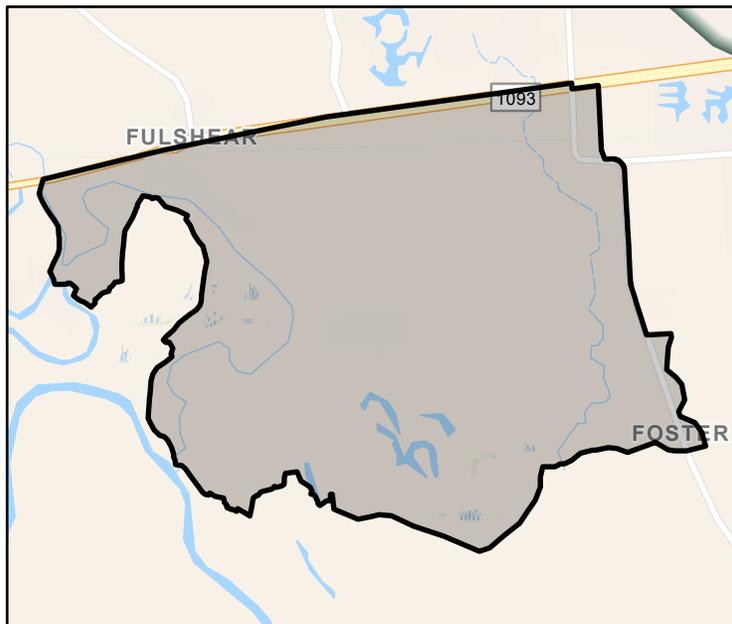
Estimated Cost and Funding Availability

Total Cost \$262,000

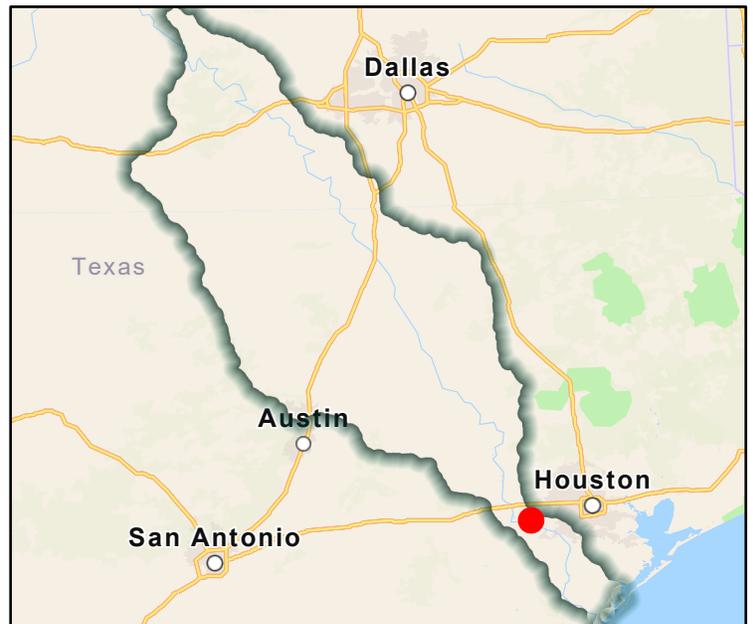
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title LID 2 Watershed Analysis

ID# 081000990

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 8 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

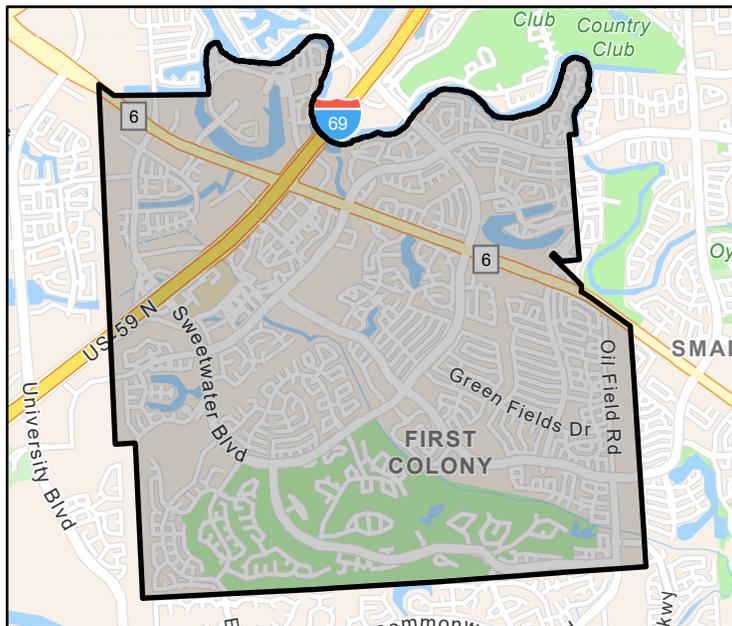
Farm/Ranch land impacted (acres) 10 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 0

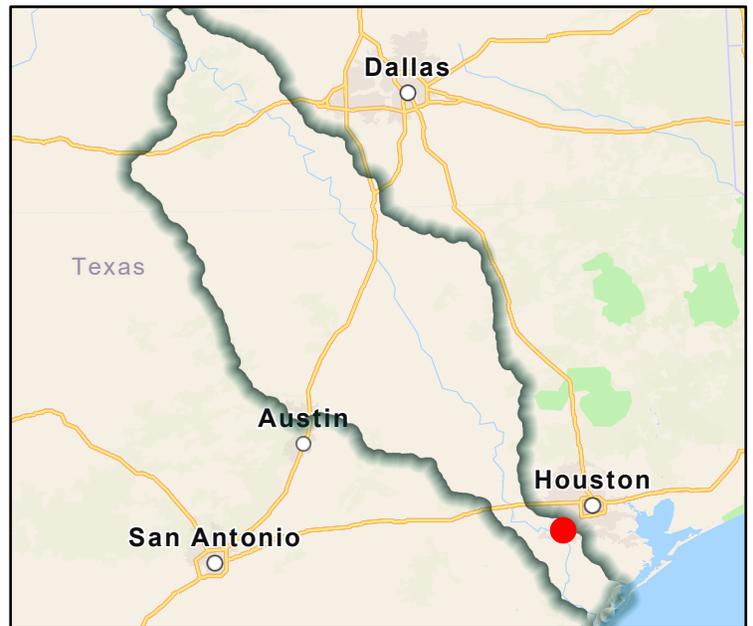
Estimated Cost and Funding Availability

Total Cost \$75,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lift Station Floodproofing

ID# 081000936

Sponsor (name of entity, not person) Jarrell

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Flood proof city lift stations or improve culverts to lessen flood risk.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020304,1207020401,1207020503,1207020505

Drainage area (Square miles, est.) 3 Goal(s) 8000012

100-Year Flood Risk Summary

Population at risk 2 # of structures 1 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

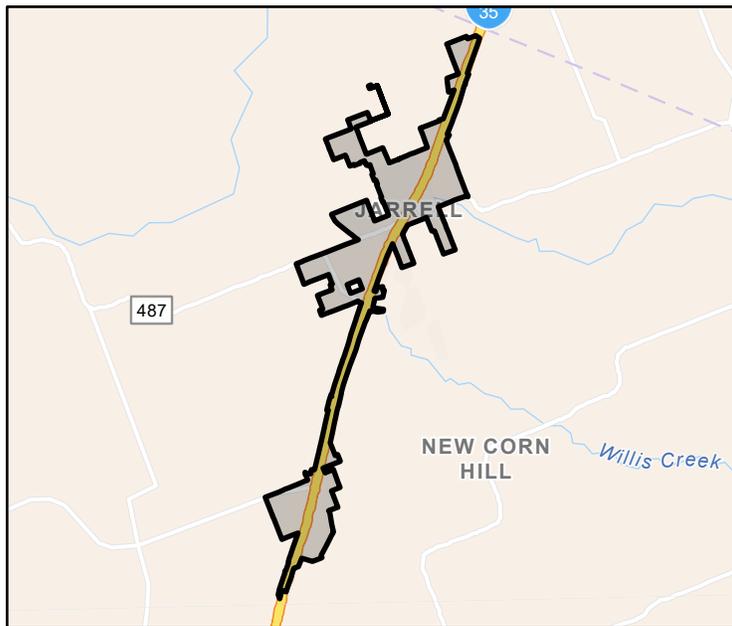
Farm/Ranch land impacted (acres) 1,687 Roadway(s) impacted (length) 18

Number of low water crossings 0 Historical road closures 4

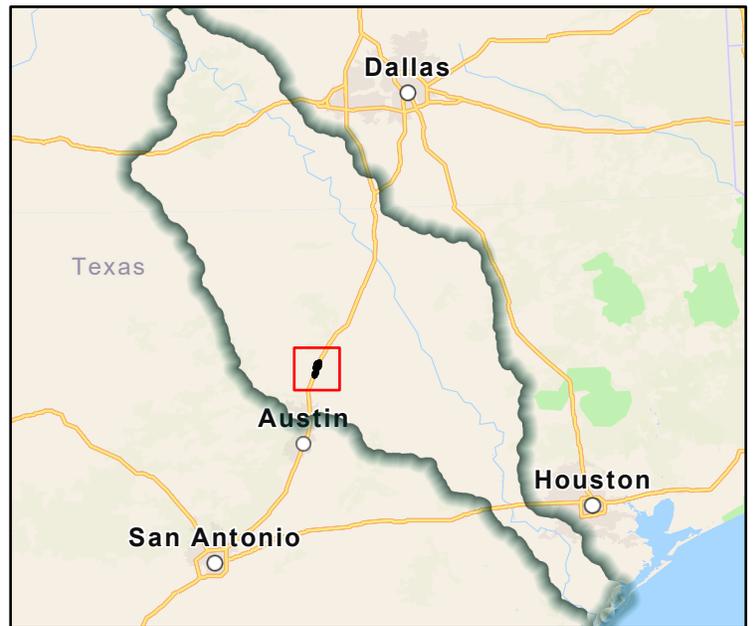
Estimated Cost and Funding Availability

Total Cost \$217,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Low Water Crossing Monitoring & Mitigation

ID# 081000934

Sponsor (name of entity, not person) Jarrell

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Install automated warning devices or elevate 2 low water crossings on CR 305.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020304,1207020401,1207020503,1207020505

Drainage area (Square miles, est.) 3 Goal(s) 8000007

100-Year Flood Risk Summary

Population at risk 2 # of structures 1 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

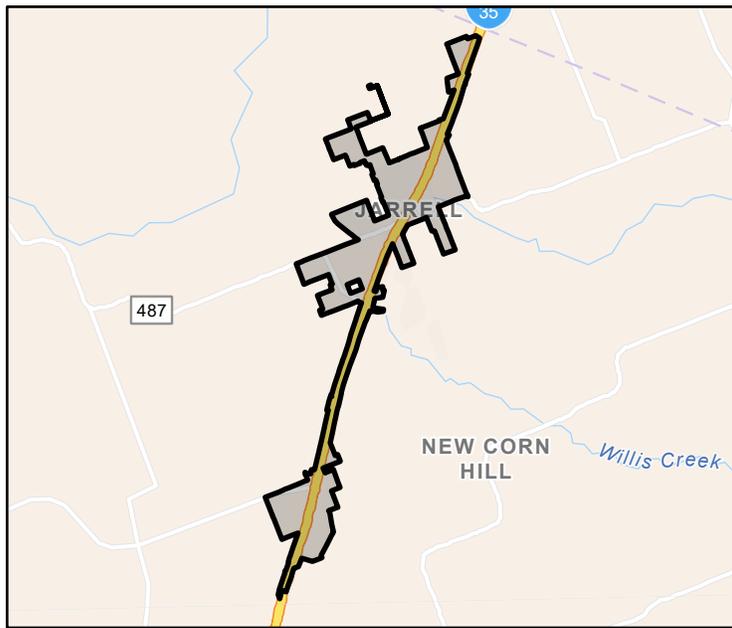
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 4

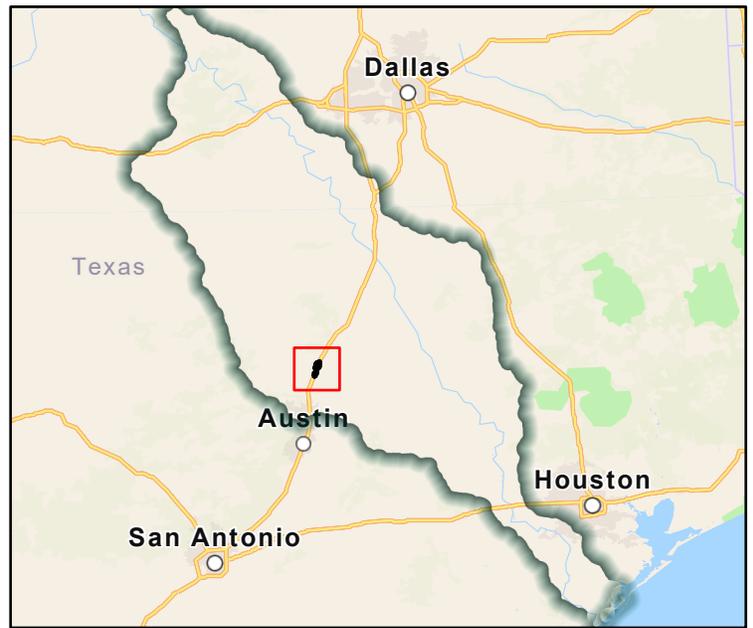
Estimated Cost and Funding Availability

Total Cost \$217,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Lower Oyster Creek Improvements

ID# 081000973

Sponsor (name of entity, not person) Missouri City

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Channel bank fill and improvements to create smooth transitions between diversion, flume, and creek channels during large storm improvements.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020502,1207010404

Drainage area (Square miles, est.) 2 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 84 # of structures 30 # of Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

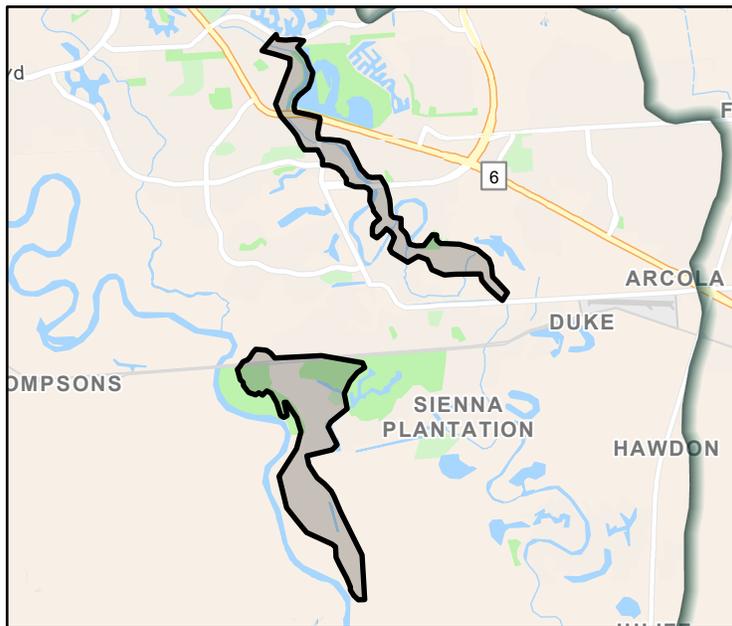
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 18

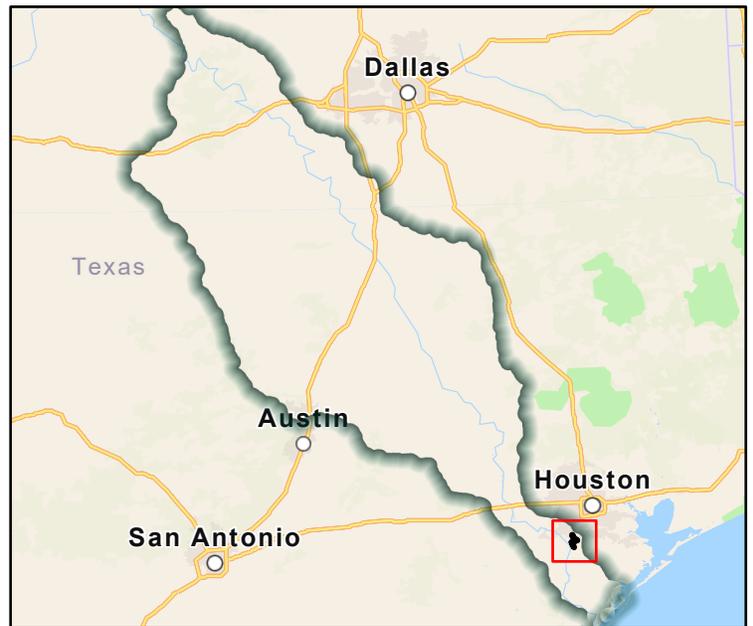
Estimated Cost and Funding Availability

Total Cost \$54,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

Title **Lynndale Acres Ph 2: Old Hearne and McHaney Street**

ID# **081001005**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **A study of the drainage area is needed to assess and propose improvements to reduce flooding in the area. As part of this study, alternatives should be recommended.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010107,1207010307**

Drainage area (Square miles, est.) **2** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **225** # of structures **98** # of Critical facilities **2**

Flood risk type: Riverine? **No** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

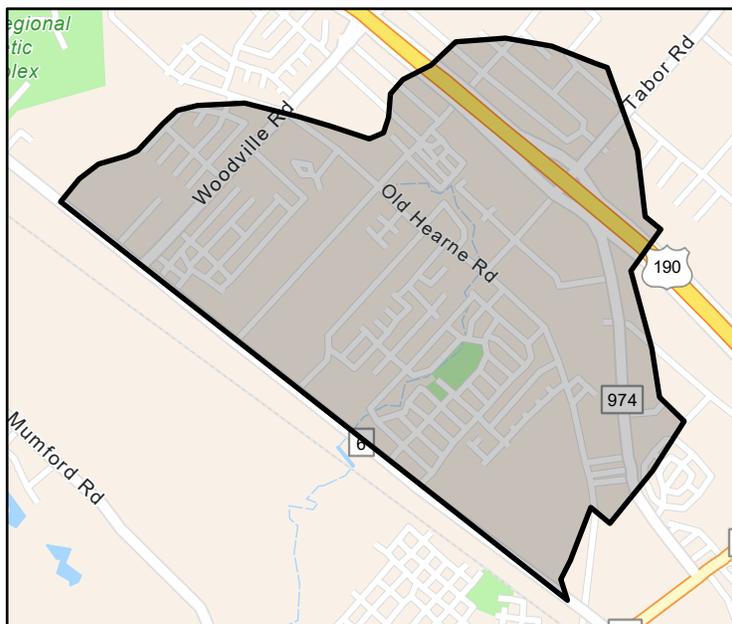
Farm/Ranch land impacted (acres) **17** Roadway(s) impacted (length) **0**

Number of low water crossings **4** Historical road closures **23**

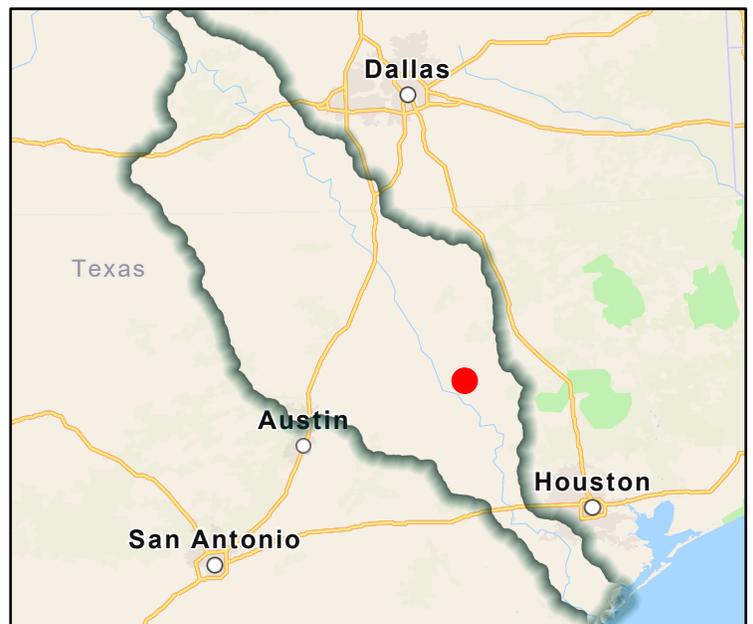
Estimated Cost and Funding Availability

Total Cost **\$73,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Mustang Creek Study

ID# 081000941

Sponsor (name of entity, not person)

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Study on Flood Preparedness

Study description Detailed H&H modeling to mitigate flooding from Upper Mustang Creek on the City of Taylor.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 55 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 352 # of structures 111 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

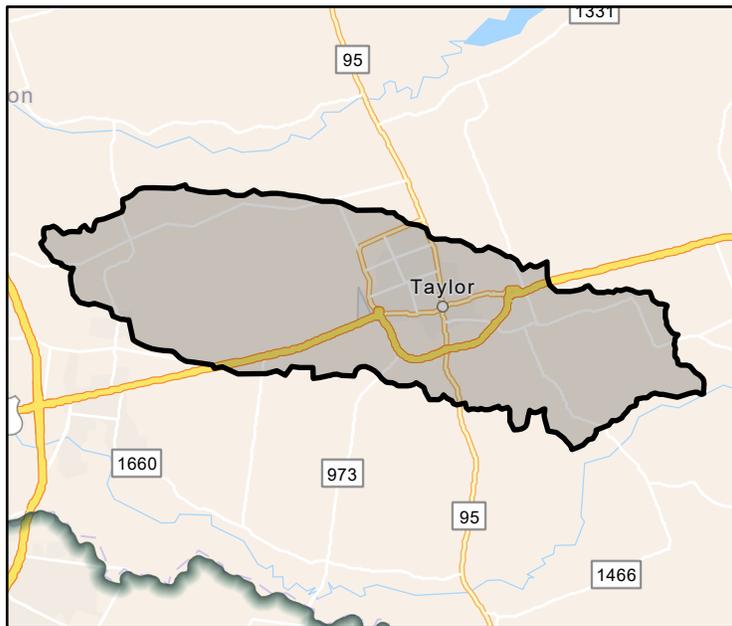
Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (length) 2

Number of low water crossings 13 Historical road closures 51

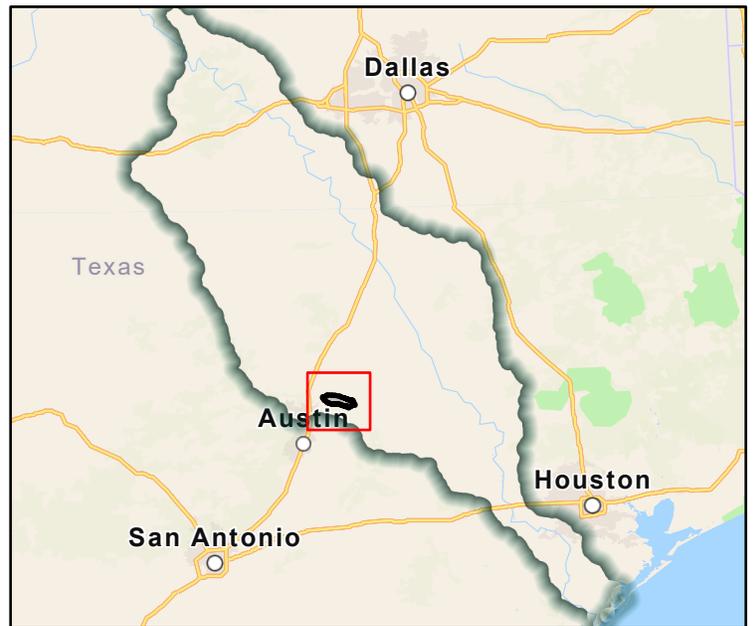
Estimated Cost and Funding Availability

Total Cost \$290,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **New Territory Inlet Replacements**

ID# **081000989**

Sponsor (name of entity, not person) **Sugar Land**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **Update storm water inlets.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Fort Bend** Watershed HUC# (if known) **1207010404**

Drainage area (Square miles, est.) **3** Goal(s) **8000009**

100-Year Flood Risk Summary

Population at risk **0** # of structures **0** # of Critical facilities **0**

Flood risk type: Riverine? **No** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

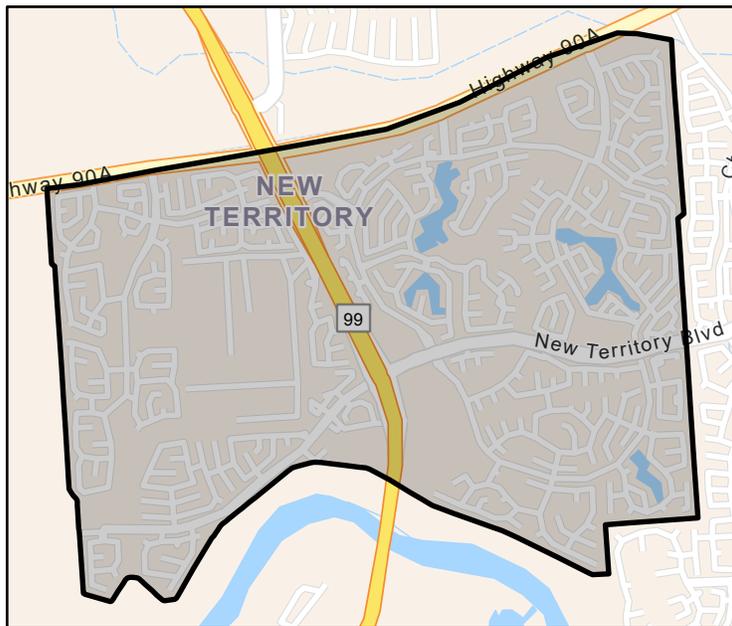
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **1**

Number of low water crossings **0** Historical road closures **1**

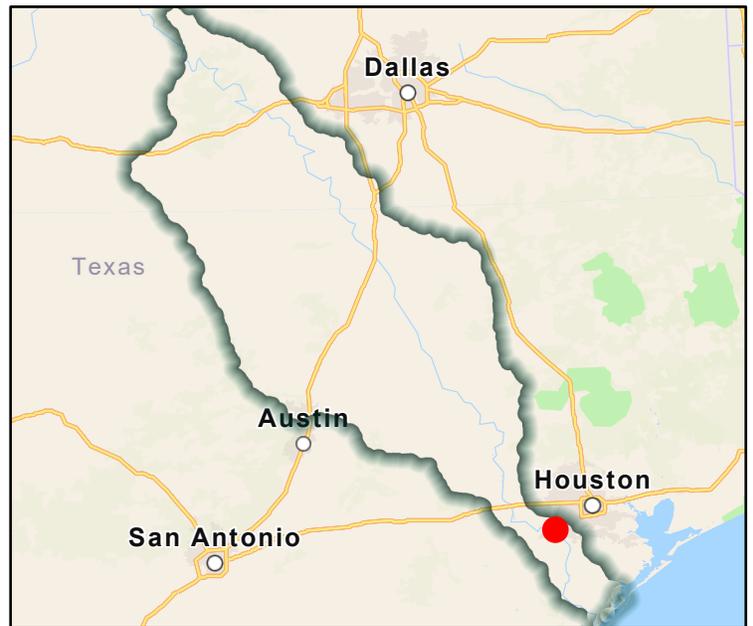
Estimated Cost and Funding Availability

Total Cost **\$92,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Oakridge Drive and Barak Lake

ID# 081000686

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine storm sewer needed to mitigate flooding in subdivision.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 1 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 961 # of structures 76 # of Critical facilities 1

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

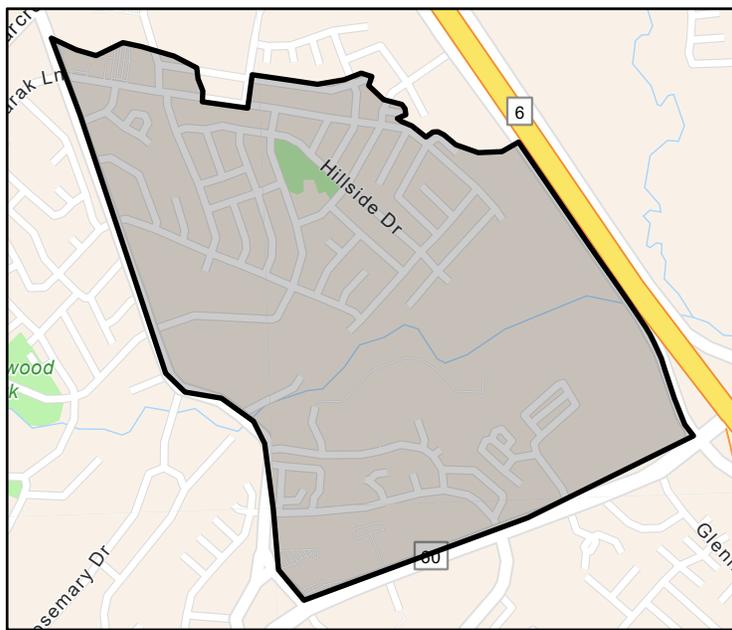
Farm/Ranch land impacted (acres) 207 Roadway(s) impacted (length) 3

Number of low water crossings 0 Historical road closures 7

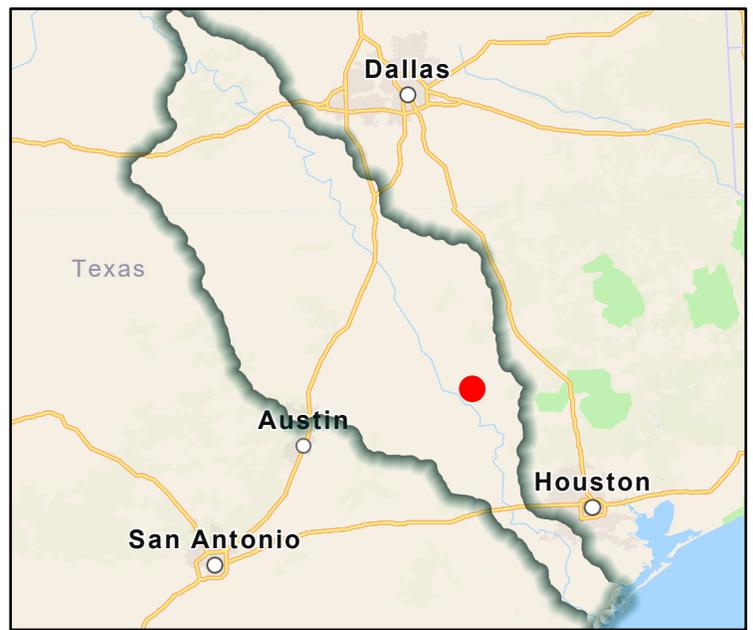
Estimated Cost and Funding Availability

Total Cost \$129,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Old Reliance Road Overtopping

ID# 081000717

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine design of culvert improvements.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010306,1207010307

Drainage area (Square miles, est.) 5 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 407 # of structures 130 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

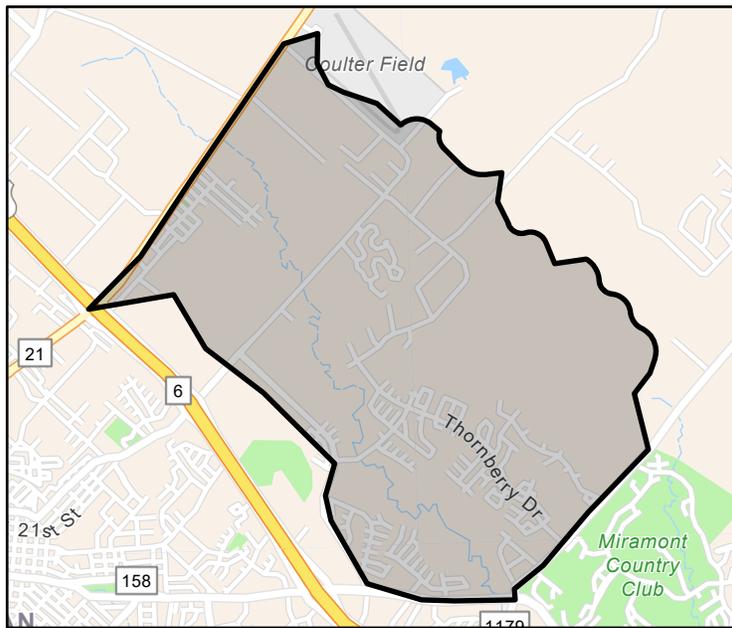
Farm/Ranch land impacted (acres) 1,864 Roadway(s) impacted (length) 17

Number of low water crossings 2 Historical road closures 18

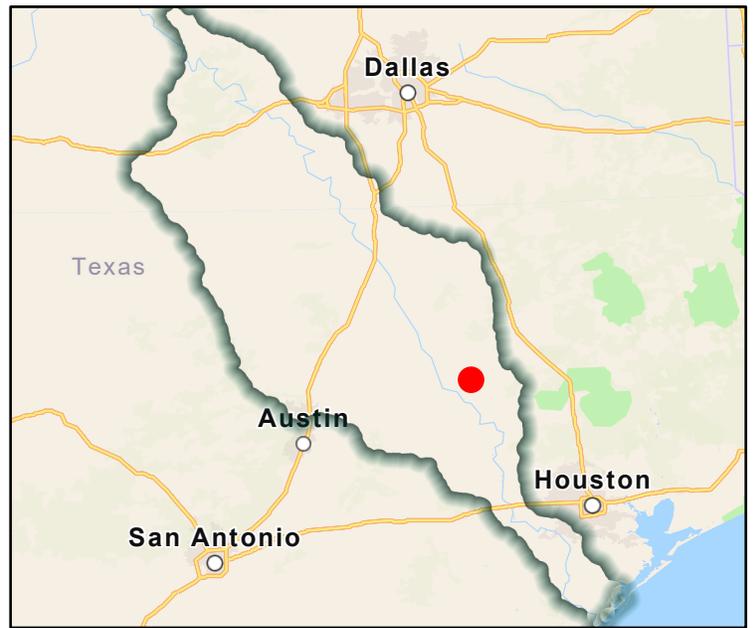
Estimated Cost and Funding Availability

Total Cost \$51,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Peach Creek

ID# 081001066

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Study to determine flood risk across the watershed.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 26 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 101 # of structures 37 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Farm/Ranch land impacted (acres) 6,807 Roadway(s) impacted (length) 55

Number of low water crossings 0 Historical road closures 5

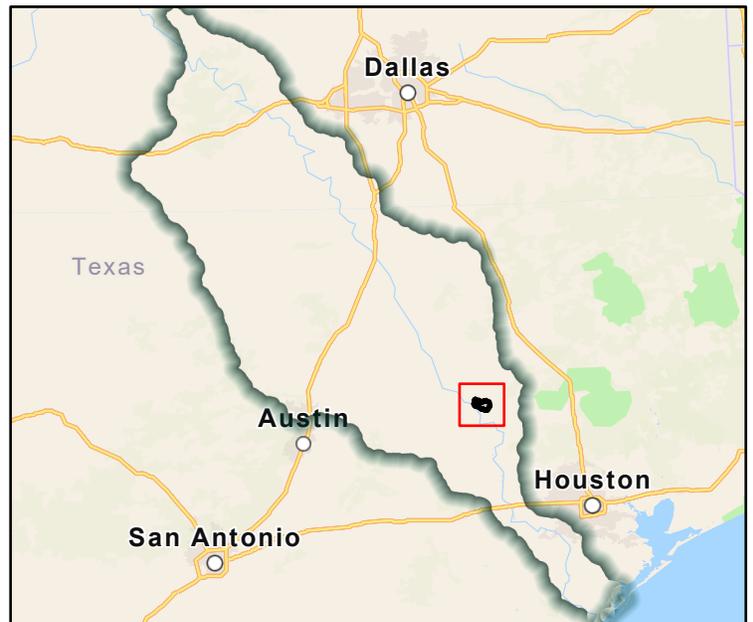
Estimated Cost and Funding Availability

Total Cost \$158,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Pecan Ridge Subdivision Flooding

ID# 081000716

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Masterplan to determine source of flooding and identify potential solutions.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 3 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 704 # of structures 88 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

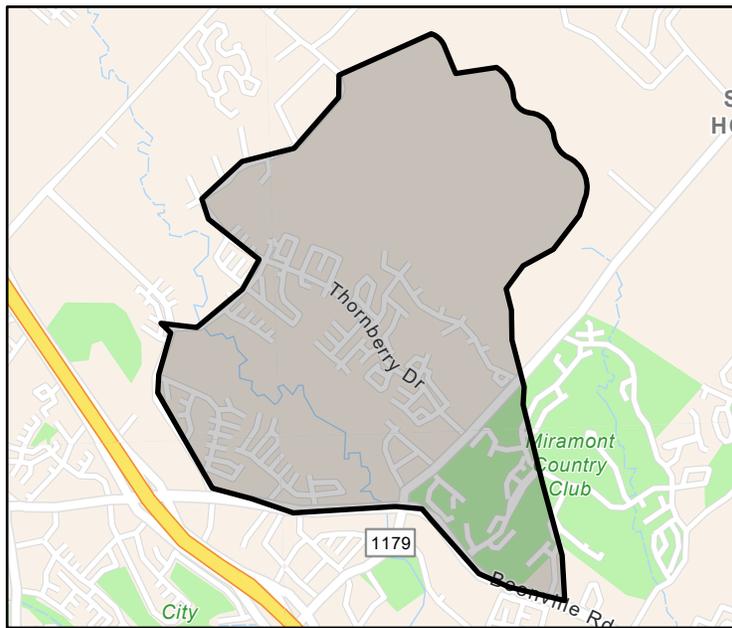
Farm/Ranch land impacted (acres) 362 Roadway(s) impacted (length) 1

Number of low water crossings 0 Historical road closures 14

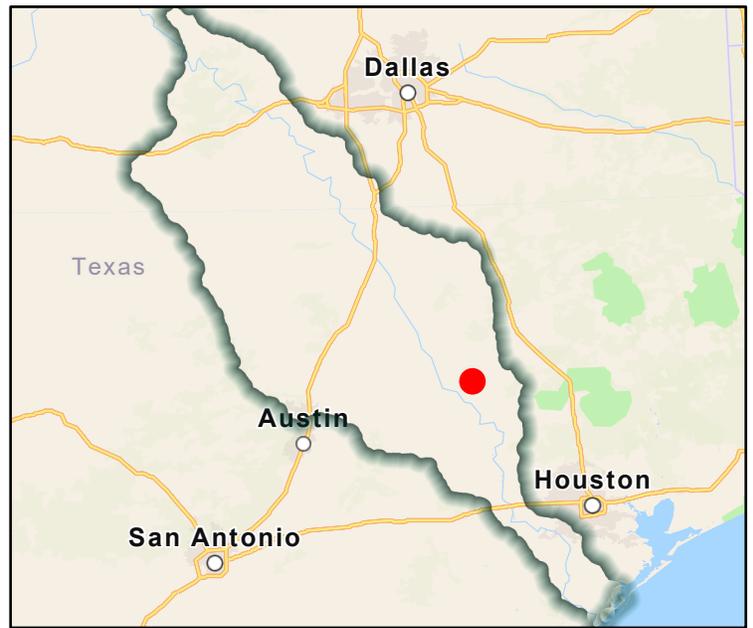
Estimated Cost and Funding Availability

Total Cost \$50,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Philips Event Center Detention Pond at Hole 8 - Maintenance and Dredging

ID# 081001033

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Maintenance on detention pond to increase storage.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010307

Drainage area (Square miles, est.) 3

Goal(s) 8000010

100-Year Flood Risk Summary

Population at risk 242

of structures 100

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 9

Roadway(s) impacted (length) 1

Number of low water crossings 5

Historical road closures 15

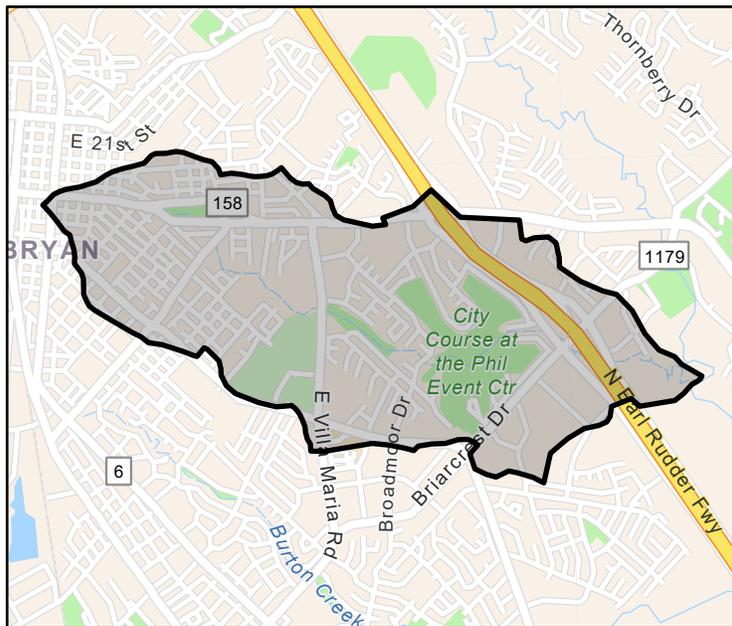
Estimated Cost and Funding Availability

Total Cost \$129,000

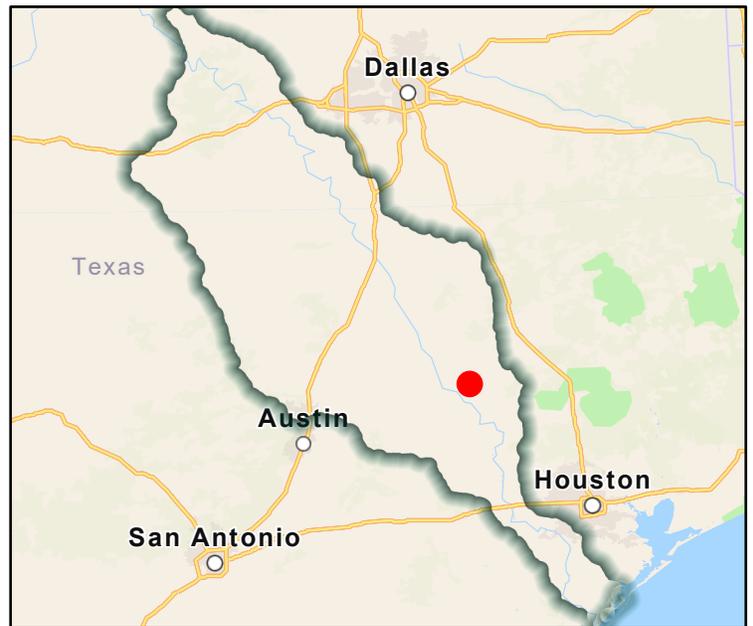
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Sienna North Levee System Drainage**

ID# **081000045**

Sponsor (name of entity, not person) **Sienna Plantation LID**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Feasibility Assessment**

Study description **Design of channel improvements to mitigate flow caused by increased development.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Fort Bend** Watershed HUC# (if known) **1207010404,1204020502**

Drainage area (Square miles, est.) **4** Goal(s) **8000009**

100-Year Flood Risk Summary

Population at risk **0** # of structures **0** # of Critical facilities **0**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

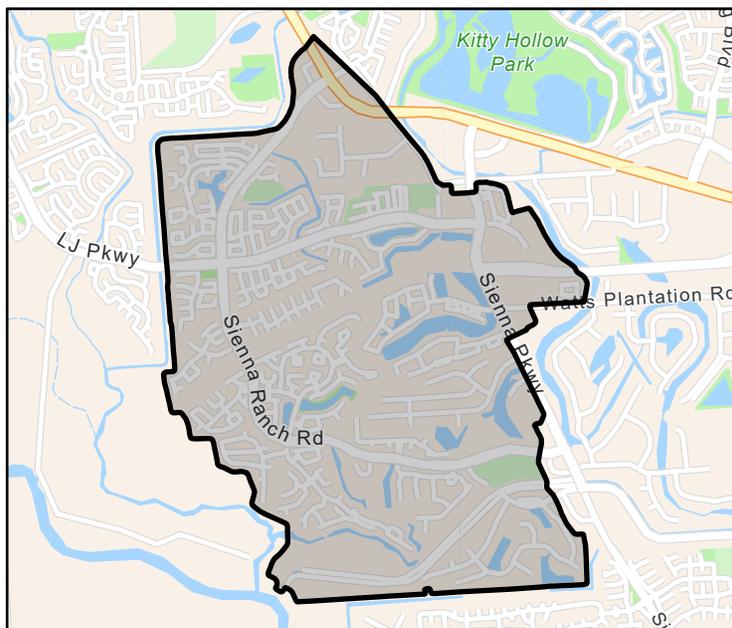
Farm/Ranch land impacted (acres) **2** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures **1**

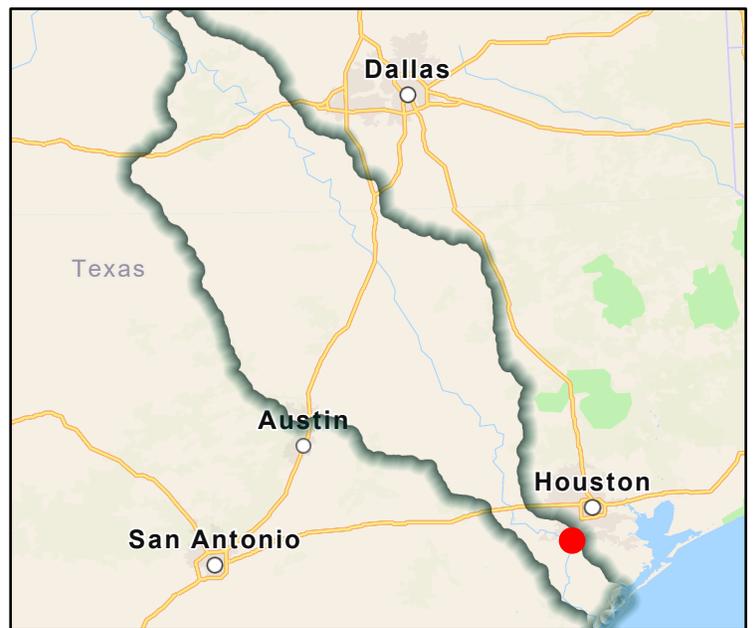
Estimated Cost and Funding Availability

Total Cost **\$236,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title

ID#

Sponsor (name of entity, not person)

RFPG recommend? Reason for Recommendation

Study Details

Study type

Study description

New Hydrologic or Hydraulic model? Emergency Need? Existing/Anticipated models in near term?

County Watershed HUC# (if known)

Drainage area (Square miles, est.) Goal(s)

100-Year Flood Risk Summary

Population at risk # of structures # of Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

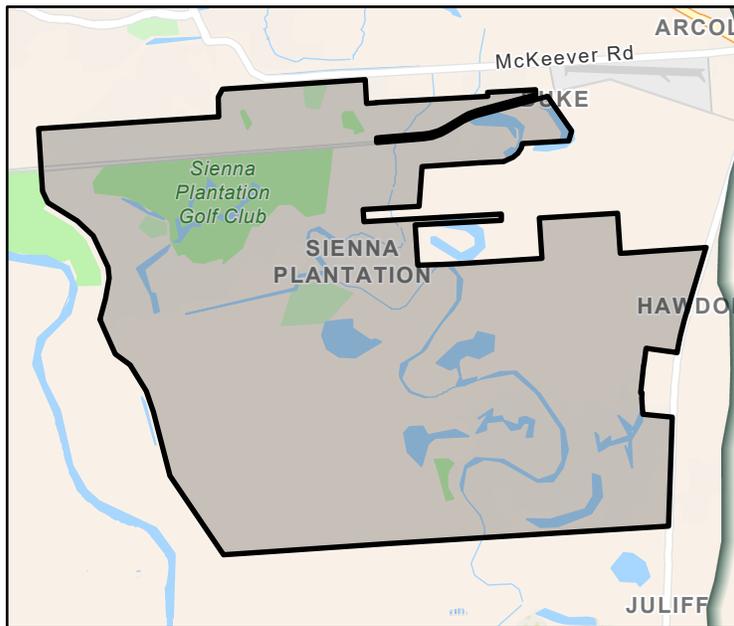
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

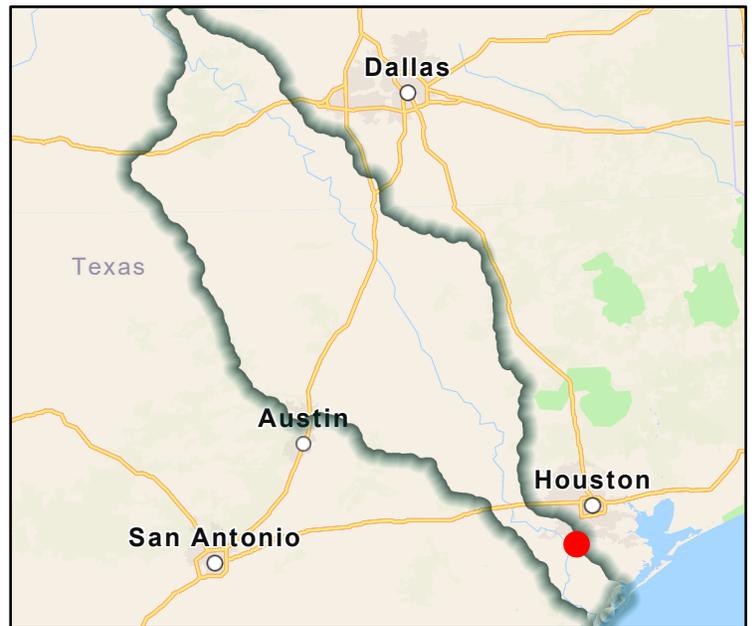
Estimated Cost and Funding Availability

Total Cost Amount of Available Funding Eligible for Federal funding?

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title South For of Turkey Creek Improvements

ID# 081001020

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Erosion control and crossing improvements along South Fork of Turkey Creek.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9 Goal(s) 8000010

100-Year Flood Risk Summary

Population at risk 22 # of structures 14 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

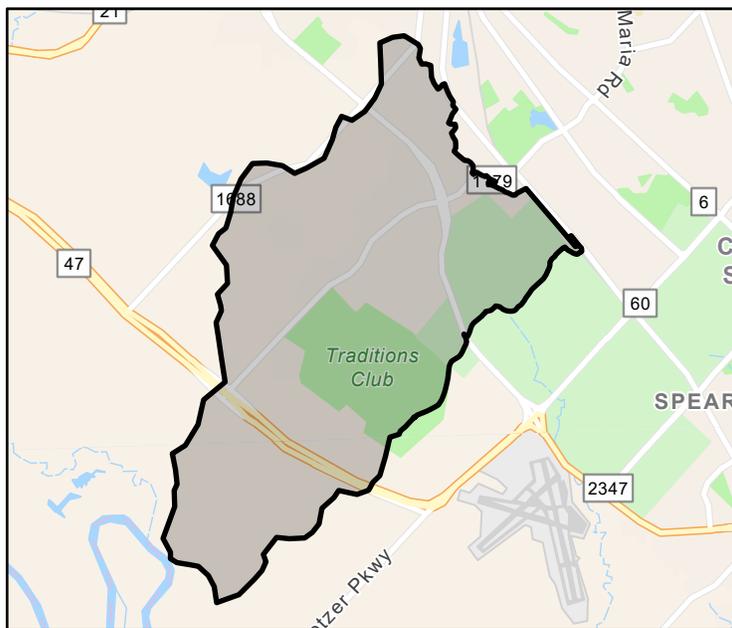
Farm/Ranch land impacted (acres) 106 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 9

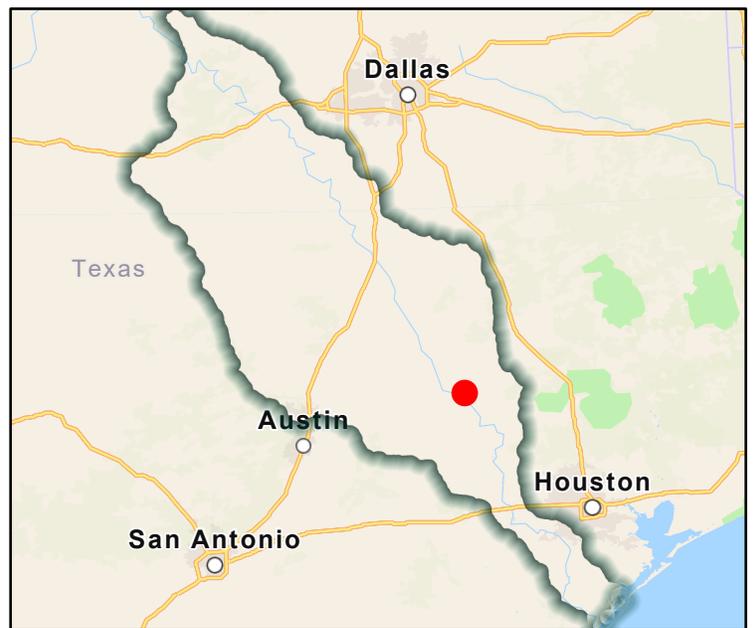
Estimated Cost and Funding Availability

Total Cost \$61,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Stream Crossing Upgrades

ID# 081000942

Sponsor (name of entity, not person)

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Feasibility Assessment

Study description Upgrade crossings at CR 368, 369, 445, and 424.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Williamson Watershed HUC# (if known) 1207020504

Drainage area (Square miles, est.) 29 Goal(s) 8000007

100-Year Flood Risk Summary

Population at risk 34 # of structures 31 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

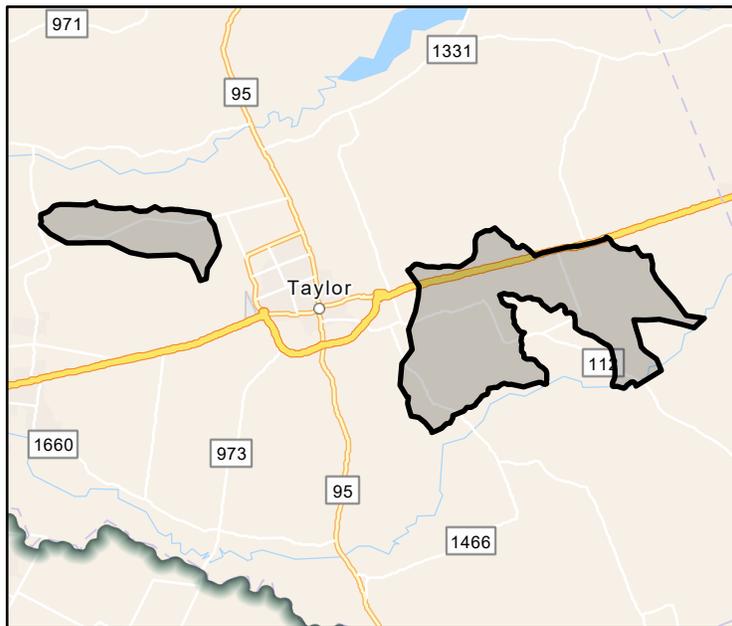
Farm/Ranch land impacted (acres) 1 Roadway(s) impacted (length) 2

Number of low water crossings 4 Historical road closures 19

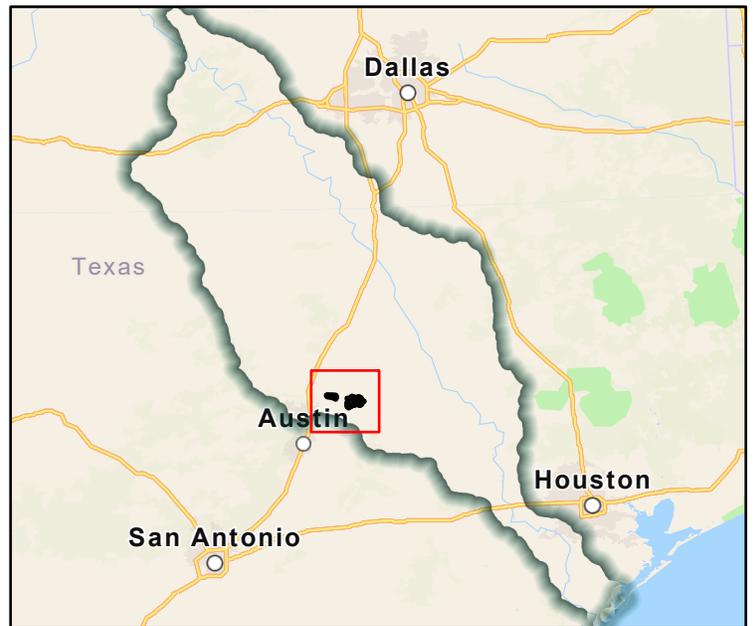
Estimated Cost and Funding Availability

Total Cost \$463,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

Title Study Wickson Creek for Floodplain/Floodway from FM 974 to Navasota River

ID# 081001023

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Study of Wickson Creek to determine flood risk.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010306

Drainage area (Square miles, est.) 88

Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 65

of structures 52

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? No

Playa? No

Other? No

Farm/Ranch land impacted (acres) 24

Roadway(s) impacted (length) 1

Number of low water crossings 4

Historical road closures 25

Estimated Cost and Funding Availability

Total Cost \$436,000

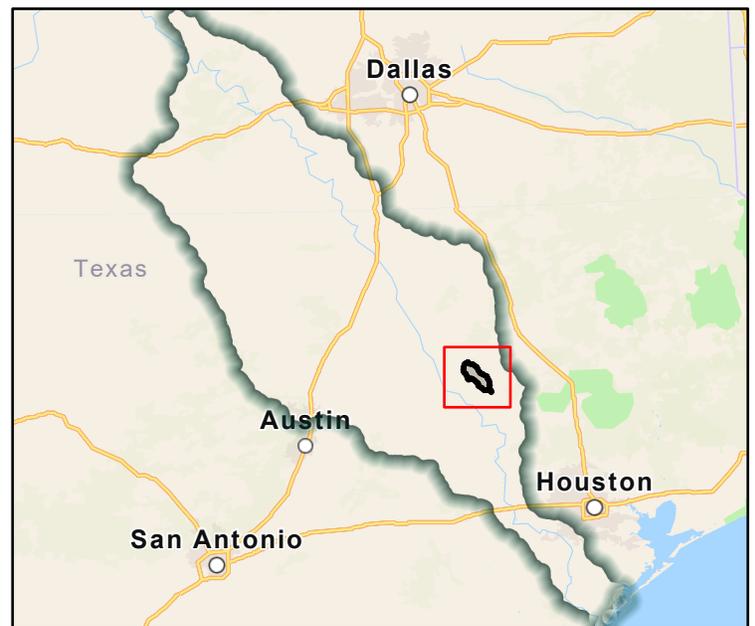
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Creek Drainage Improvements

ID# 081000047

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Design of storm drain updates throughout neighborhood.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404,1204020501,1204020502

Drainage area (Square miles, est.) 43 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,403 # of structures 442 # of Critical facilities 2

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

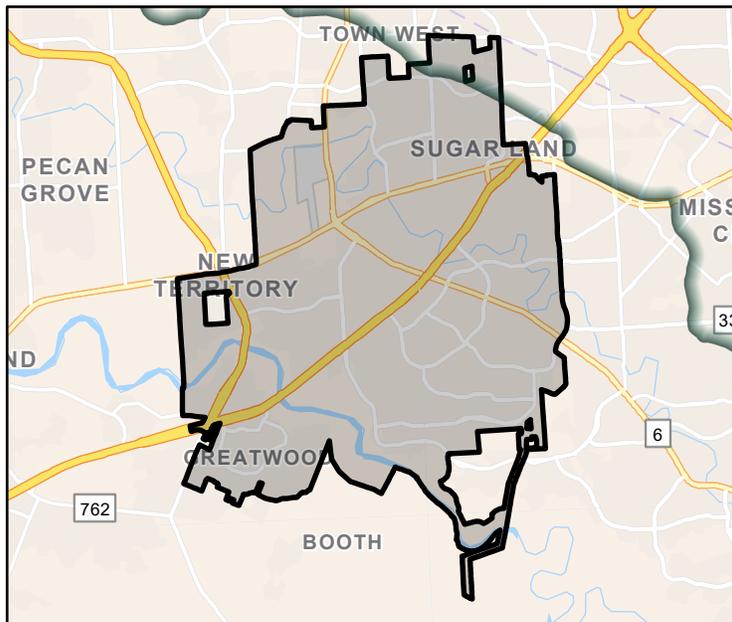
Farm/Ranch land impacted (acres) 1,687 Roadway(s) impacted (length) 18

Number of low water crossings 0 Historical road closures 96

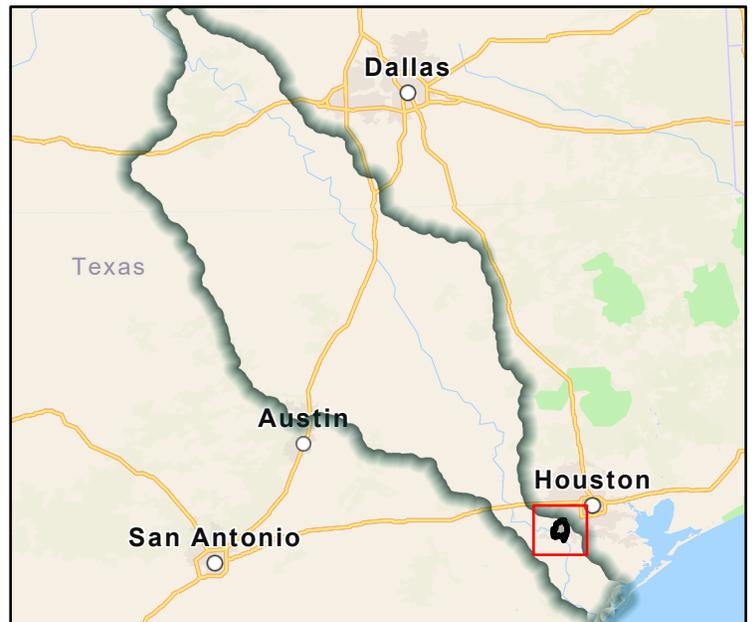
Estimated Cost and Funding Availability

Total Cost \$388,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Creek East Ditch

ID# 081000981

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Install box culverts in the Sugar Creek East Ditch for storm water control.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020502

Drainage area (Square miles, est.) 2 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 214 # of structures 26 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

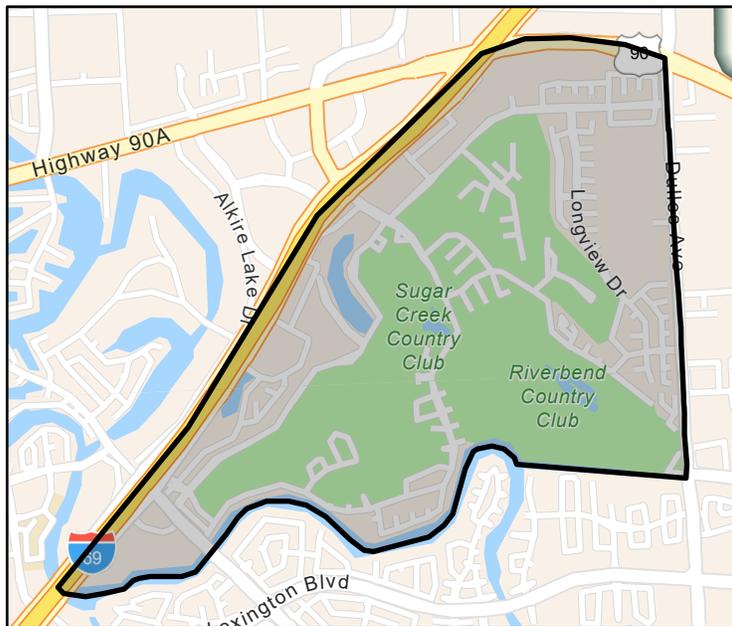
Farm/Ranch land impacted (acres) 12 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 18

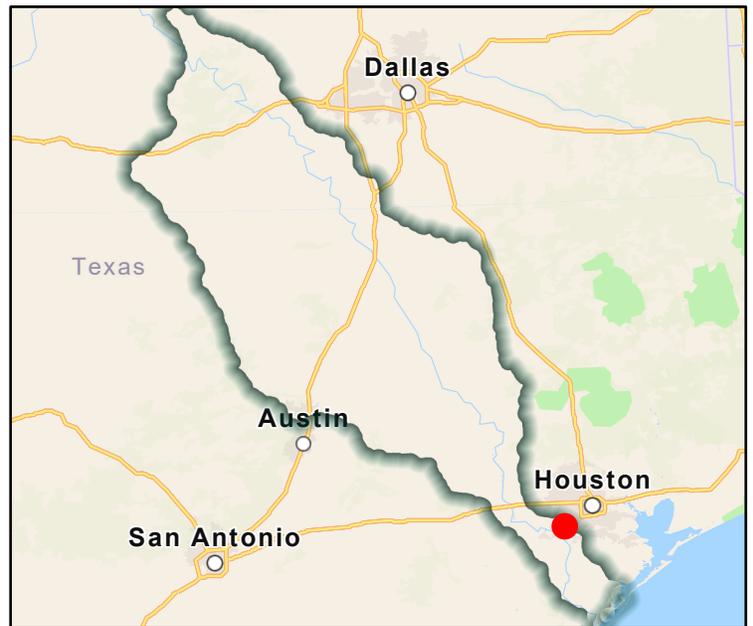
Estimated Cost and Funding Availability

Total Cost \$253,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Creek Regional Detention

ID# 081000060

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404,1204020501,1204020502

Drainage area (Square miles, est.) 43 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,403 # of structures 442 # of Critical facilities 2

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

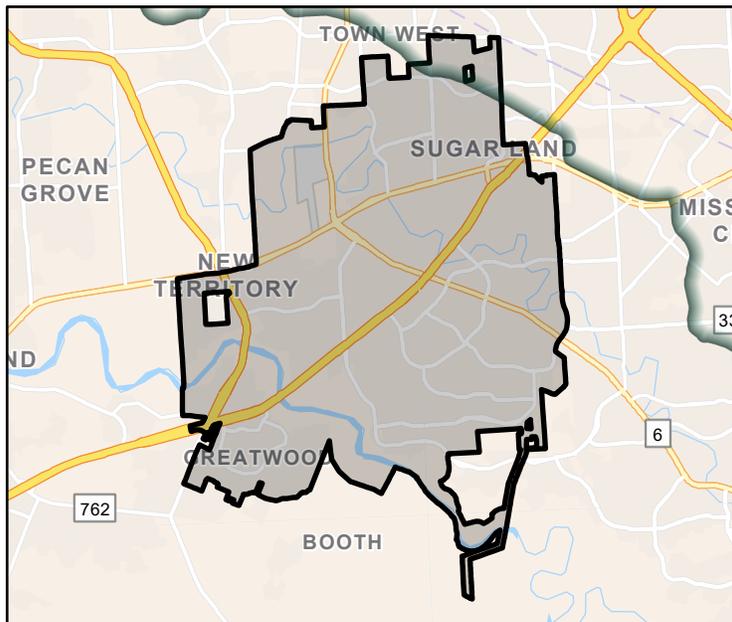
Farm/Ranch land impacted (acres) 1,687 Roadway(s) impacted (length) 18

Number of low water crossings 0 Historical road closures 96

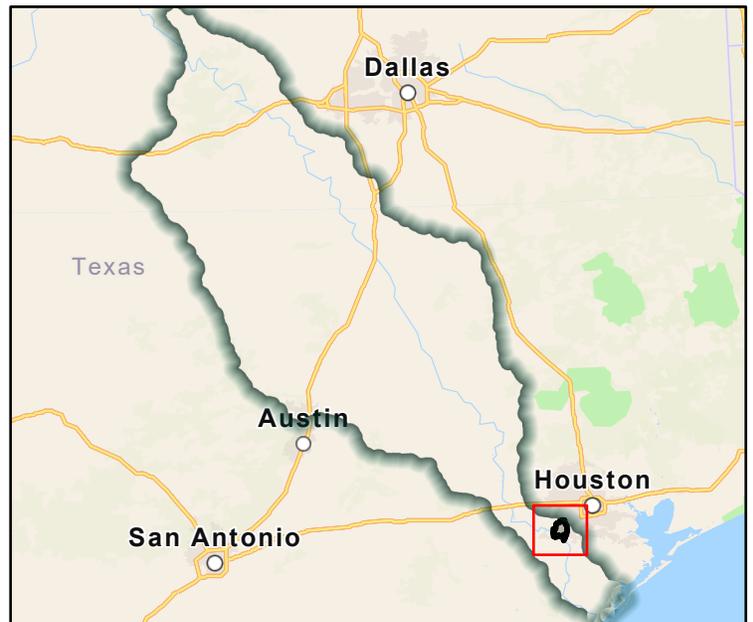
Estimated Cost and Funding Availability

Total Cost \$300,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Creek Watershed Analysis

ID# 081000976

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Complete a drainage study for the Sugar Creek neighborhood to mitigate flooding risk.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020502

Drainage area (Square miles, est.) 2 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 214 # of structures 26 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

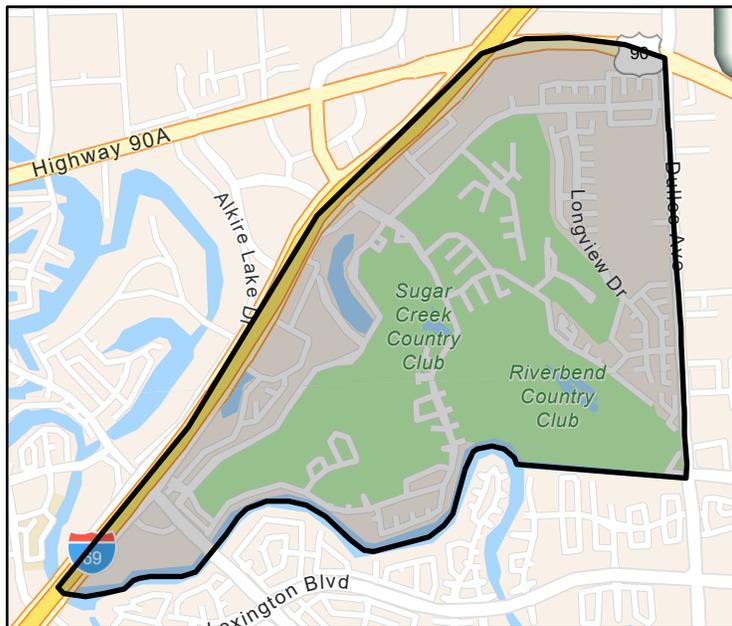
Farm/Ranch land impacted (acres) 7 Roadway(s) impacted (length) 2

Number of low water crossings 0 Historical road closures 18

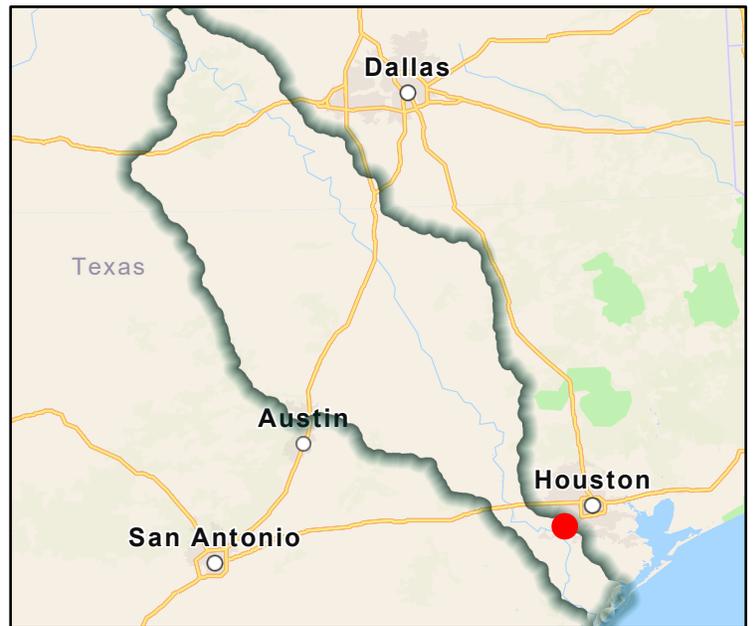
Estimated Cost and Funding Availability

Total Cost \$50,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Lakes Drainage Improvements

ID# 081000058

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Determination of necessary storm drain improvements and lake control structure modifications.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1204020501,1204020502

Drainage area (Square miles, est.) 35 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 5,682 # of structures 1,300 # of Critical facilities 1

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

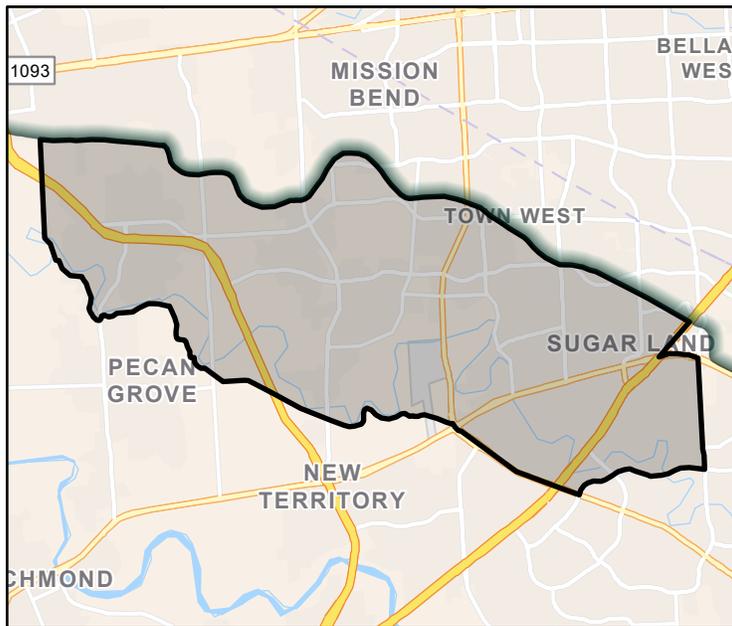
Farm/Ranch land impacted (acres) 1,143 Roadway(s) impacted (length) 19

Number of low water crossings 0 Historical road closures 143

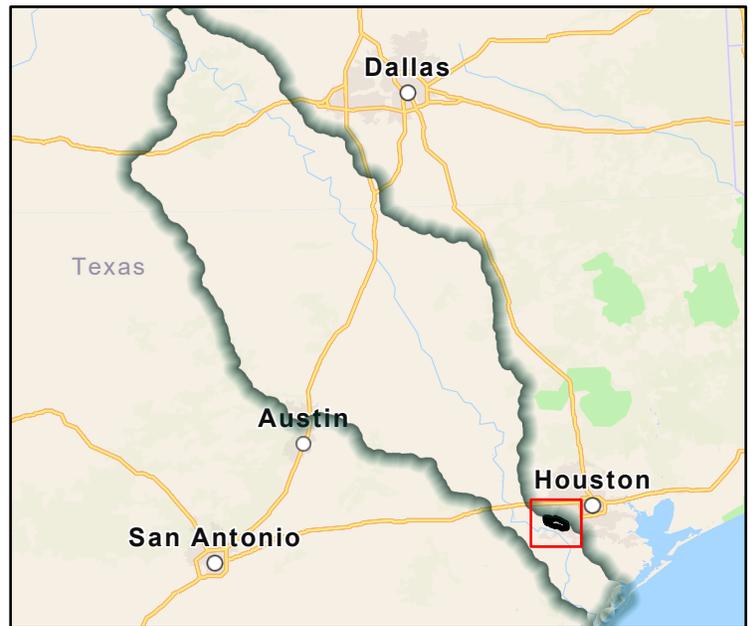
Estimated Cost and Funding Availability

Total Cost \$348,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Land Business Park Regional Detention

ID# 081000061

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Fort Bend

Watershed HUC# (if known) 1204020501,1204020502

Drainage area (Square miles, est.) 16

Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 1,044

of structures 195

of Critical facilities 1

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 857

Roadway(s) impacted (length) 13

Number of low water crossings 0

Historical road closures 77

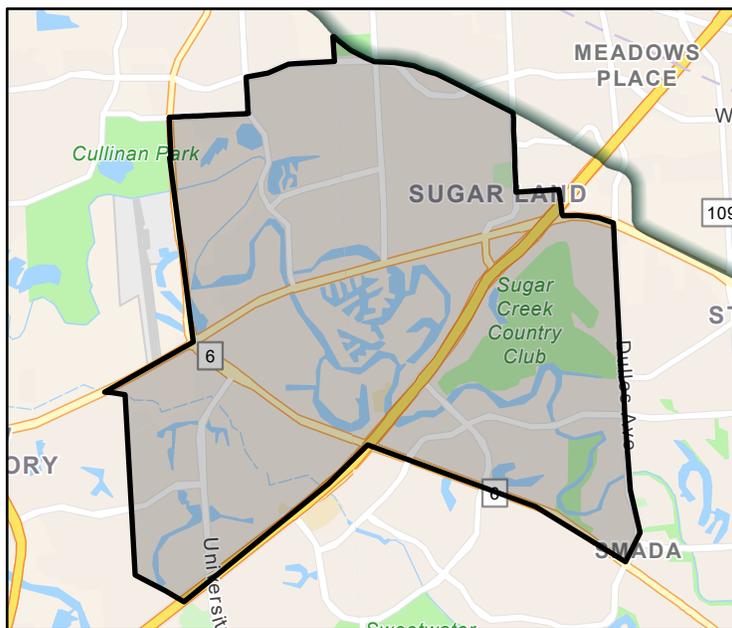
Estimated Cost and Funding Availability

Total Cost \$300,000

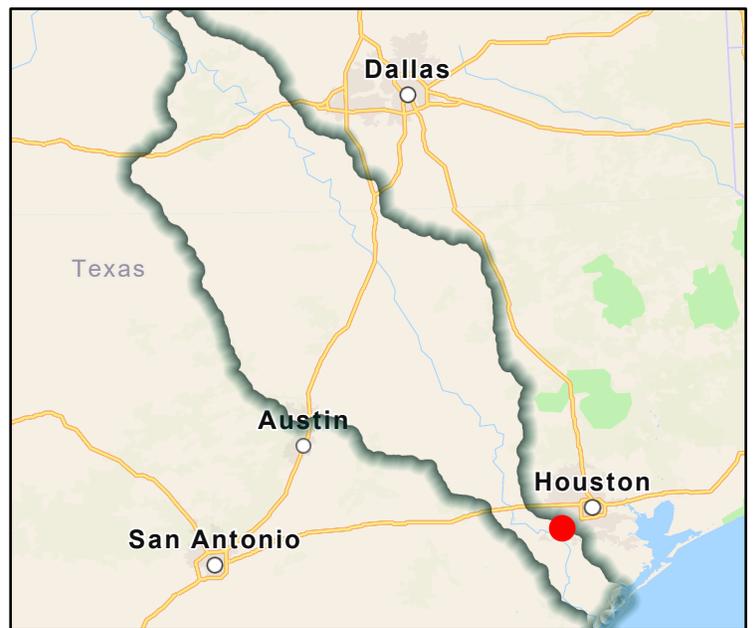
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Land Citywide Flood Prevention & Drainage Studies

ID# 081000091

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to determine how to replace B-B inlets with C-2 or H2 inlets in areas of ponding and structural risk.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Fort Bend

Watershed HUC# (if known) 1207010404,1204020501,1204020502

Drainage area (Square miles, est.) 43

Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 1,403

of structures 442

of Critical facilities 2

Flood risk type: Riverine? Yes

Coastal? Yes

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 1,687

Roadway(s) impacted (length) 18

Number of low water crossings 0

Historical road closures 96

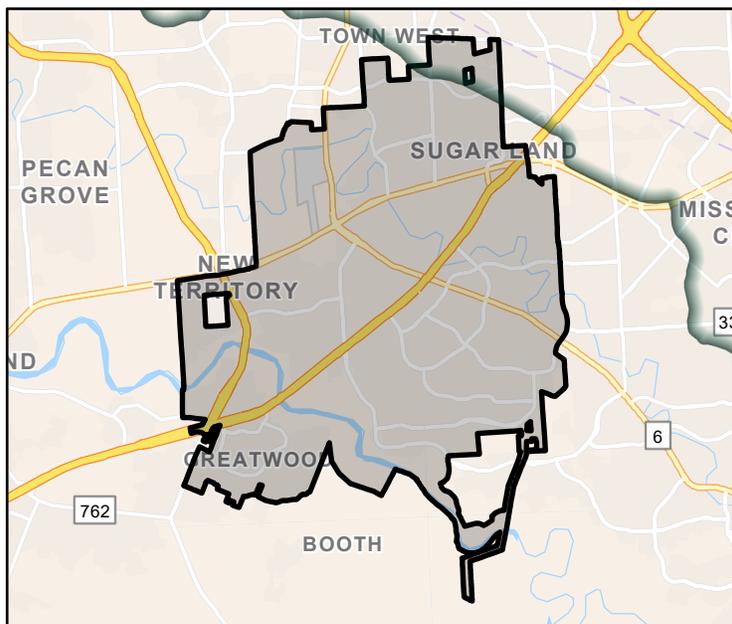
Estimated Cost and Funding Availability

Total Cost \$219,000

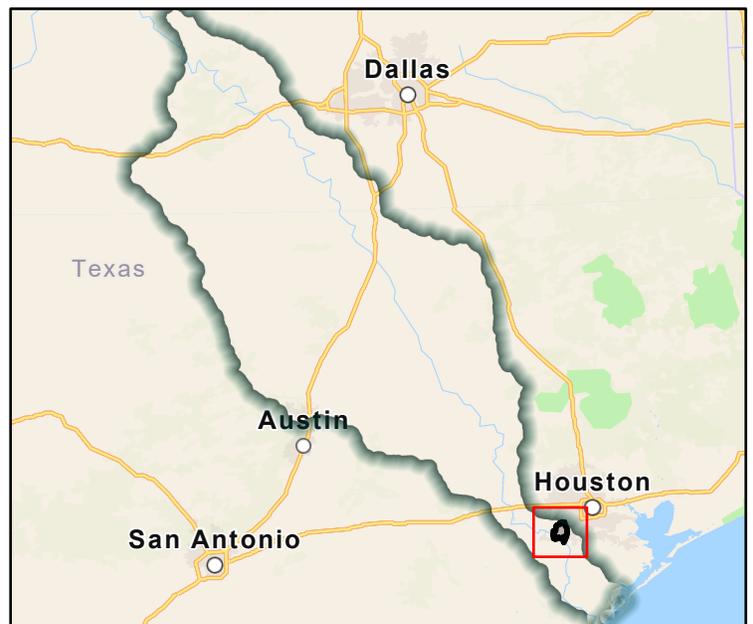
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Sugar Land MDP - Master Drainage Plan Updates

ID# 081000075

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Drainage Master Plans
 Study description Review comprehensive plan goals, update detention facility ownership and assets, consider funding mechanisms, evaluate ranking criteria.

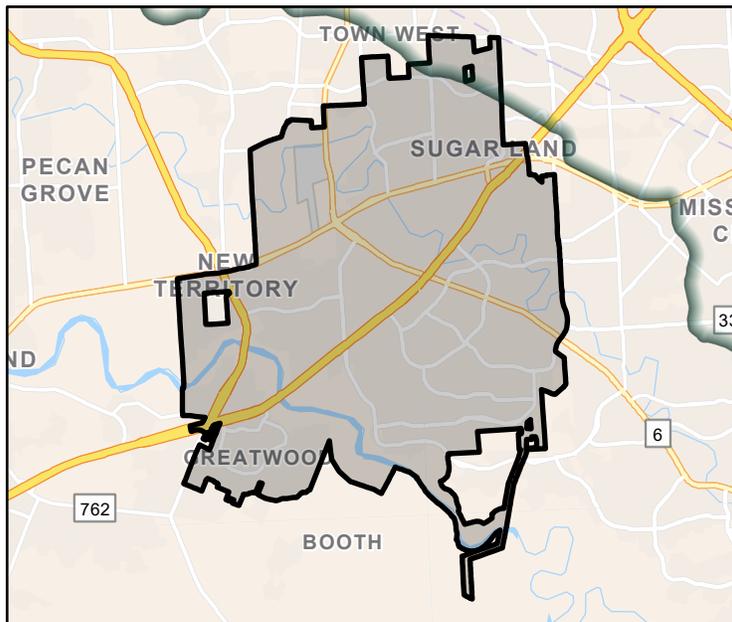
New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?
 County Fort Bend Watershed HUC# (if known) 1207010404,1204020501,1204020502
 Drainage area (Square miles, est.) 43 Goal(s) 8000014

100-Year Flood Risk Summary

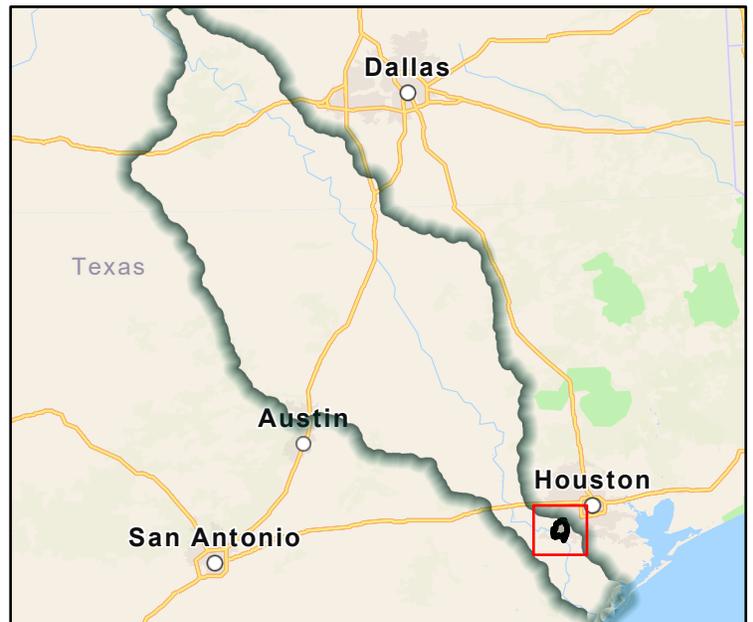
Population at risk 1,403 # of structures 442 # of Critical facilities 2
 Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No
 Farm/Ranch land impacted (acres) 1,687 Roadway(s) impacted (length) 18
 Number of low water crossings 0 Historical road closures 96

Estimated Cost and Funding Availability

Total Cost \$534,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes
 Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Telfair Inlet Replacements

ID# 081000987

Sponsor (name of entity, not person) Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Update storm water inlets.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Fort Bend Watershed HUC# (if known) 1207010404

Drainage area (Square miles, est.) 2 Goal(s) 8000009

100-Year Flood Risk Summary

Population at risk 0 # of structures 0 # of Critical facilities 0

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

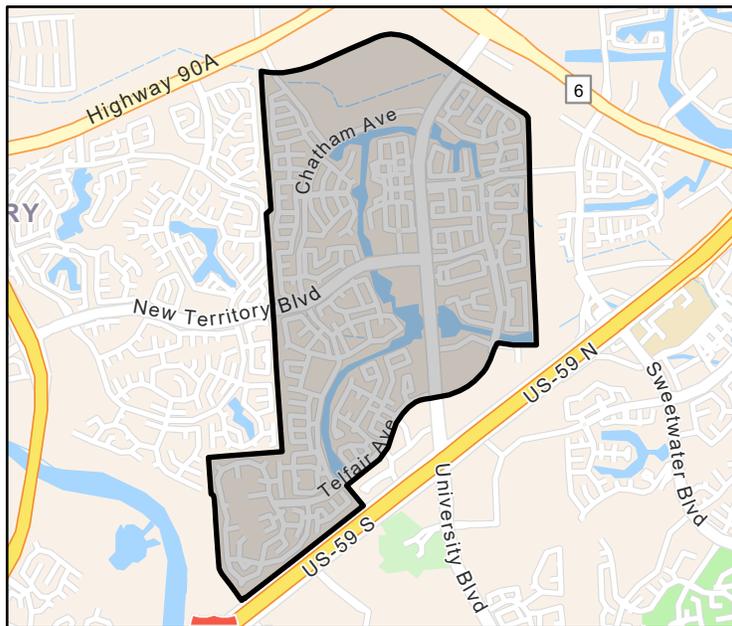
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0

Number of low water crossings 0 Historical road closures 0

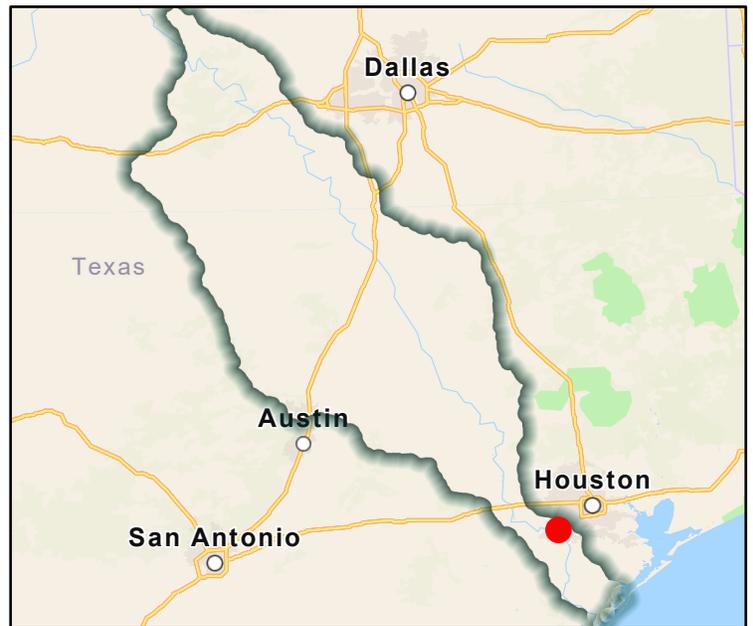
Estimated Cost and Funding Availability

Total Cost \$73,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Tennessee Avenue Crossing

ID# 081001003

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description A study and detailed design needs to be completed to assess the flooding and design culvert improvements to reduce road overtopping.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 4 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 315 # of structures 126 # of Critical facilities 2

Flood risk type: Riverine? No Coastal? No Local? Yes Playa? No Other? No

Farm/Ranch land impacted (acres) 61 Roadway(s) impacted (length) 1

Number of low water crossings 5 Historical road closures 36

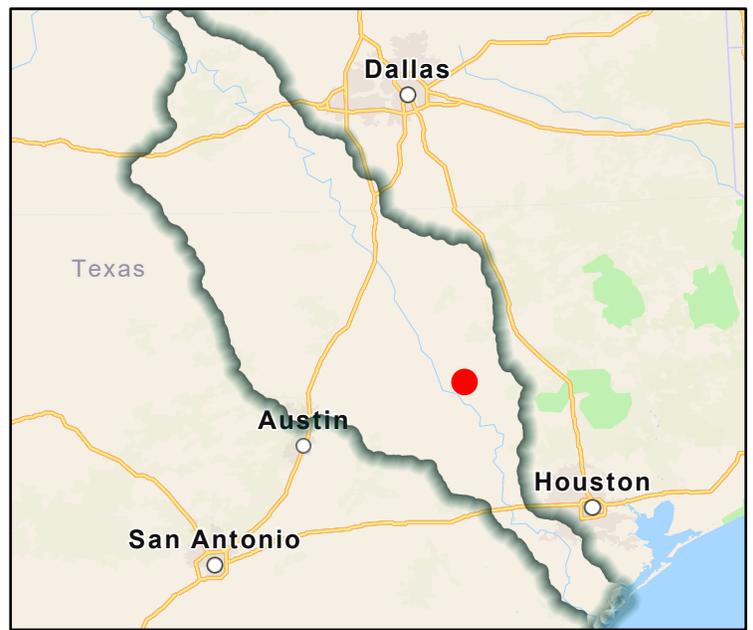
Estimated Cost and Funding Availability

Total Cost \$50,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Texas Ave Crossing & Channel Improvements (Hwy 6 to Texas) & Detention Pond

ID# 081001148

Sponsor (name of entity, not person) College Station

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type H&H Modeling

Study description Update design to account for Atlas 14 rainfall.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9

Goal(s) 8000006

100-Year Flood Risk Summary

Population at risk 233

of structures 66

of Critical facilities 3

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 1,514

Roadway(s) impacted (length) 30

Number of low water crossings 8

Historical road closures 19

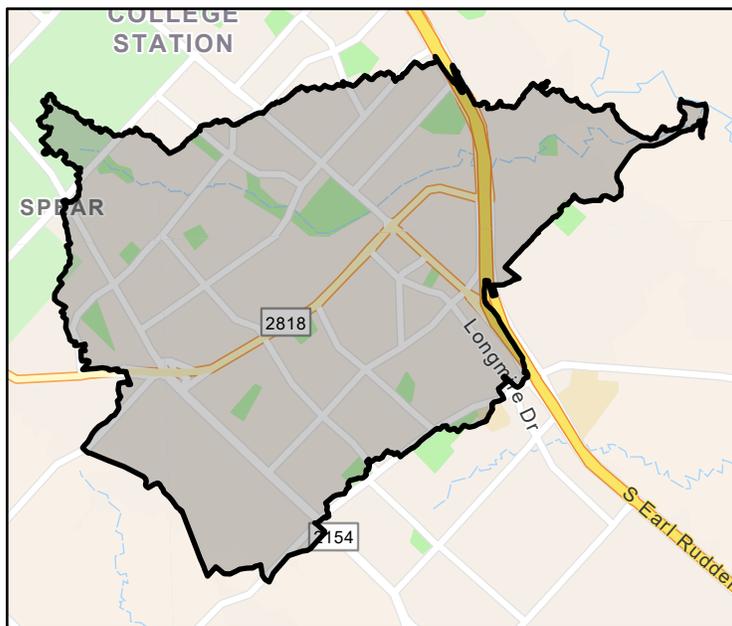
Estimated Cost and Funding Availability

Total Cost \$100,000

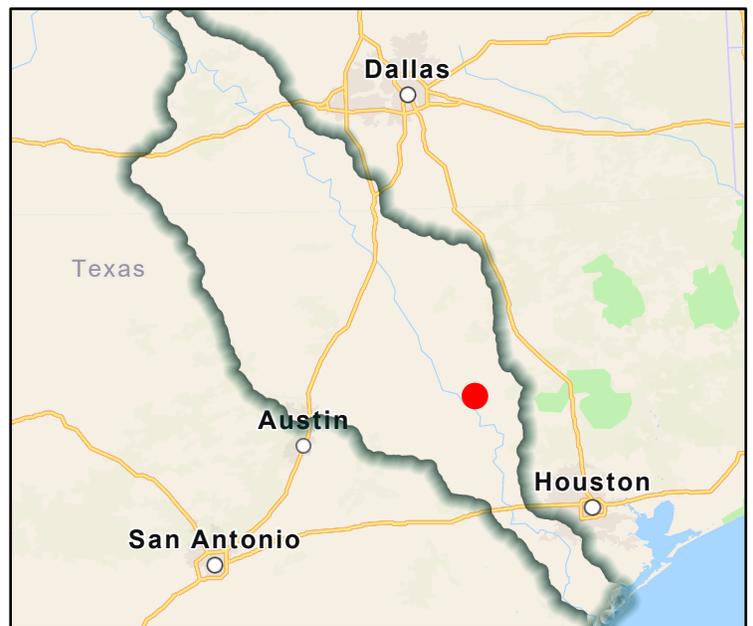
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Thompson Creek Floodplain Study from RELLIS to HW 6 to Establish Floodway

ID# 081001022

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Regional Watershed Studies

Study description Study of Thompson Creek to determine flood risk.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County Brazos

Watershed HUC# (if known) 1207010106,1207010107

Drainage area (Square miles, est.) 28

Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 3

of structures 7

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? No

Playa? No

Other? No

Farm/Ranch land impacted (acres) 1,105

Roadway(s) impacted (length) 2

Number of low water crossings 3

Historical road closures 6

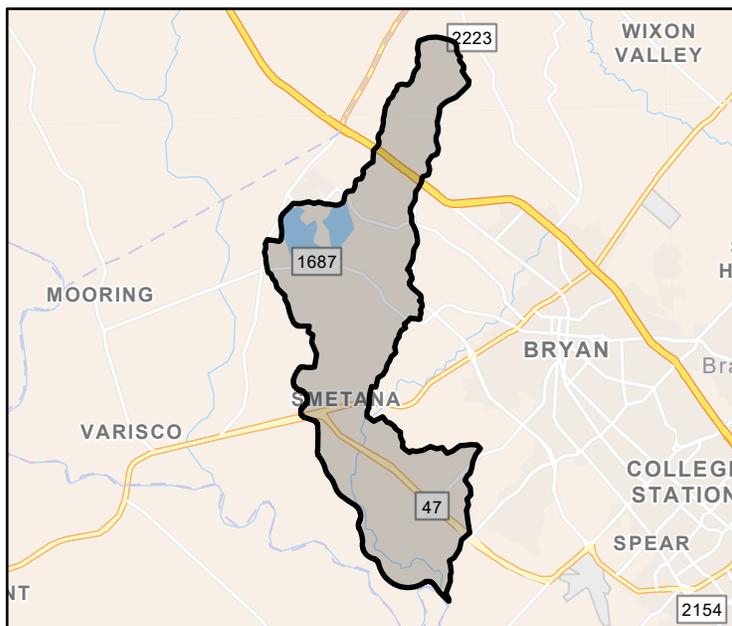
Estimated Cost and Funding Availability

Total Cost \$164,000

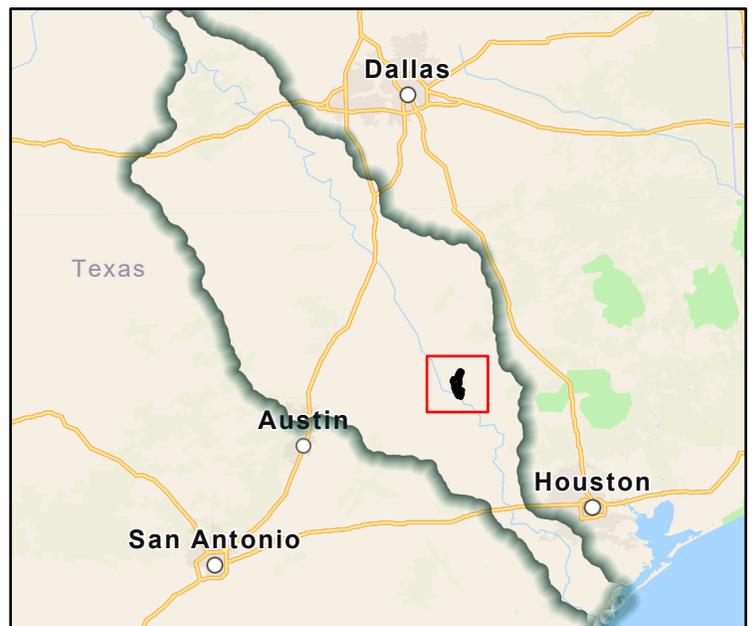
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Thompsons Branch & SH 6 Drainage Improvements

ID# 081001009

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Study to design several improvements to mitigate flooding at the crossing.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010106,1207010107

Drainage area (Square miles, est.) 28 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 3 # of structures 7 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

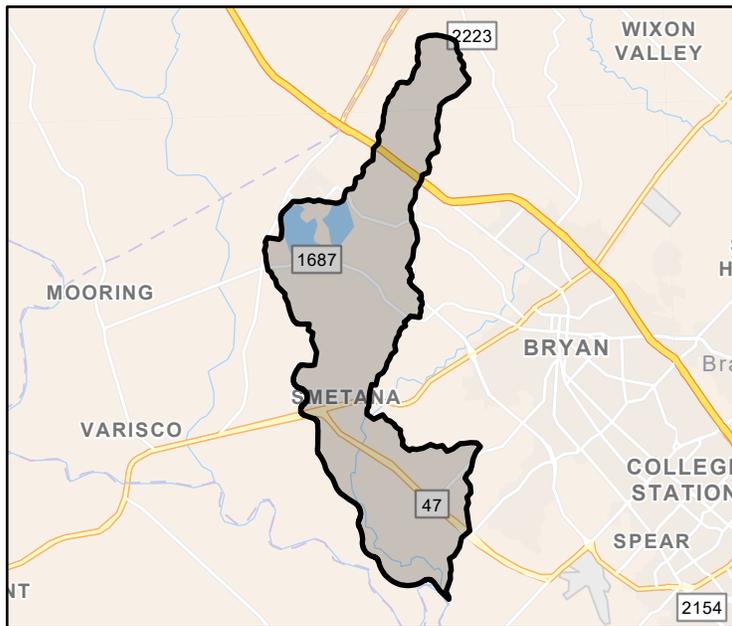
Farm/Ranch land impacted (acres) 1,275 Roadway(s) impacted (length) 17

Number of low water crossings 3 Historical road closures 6

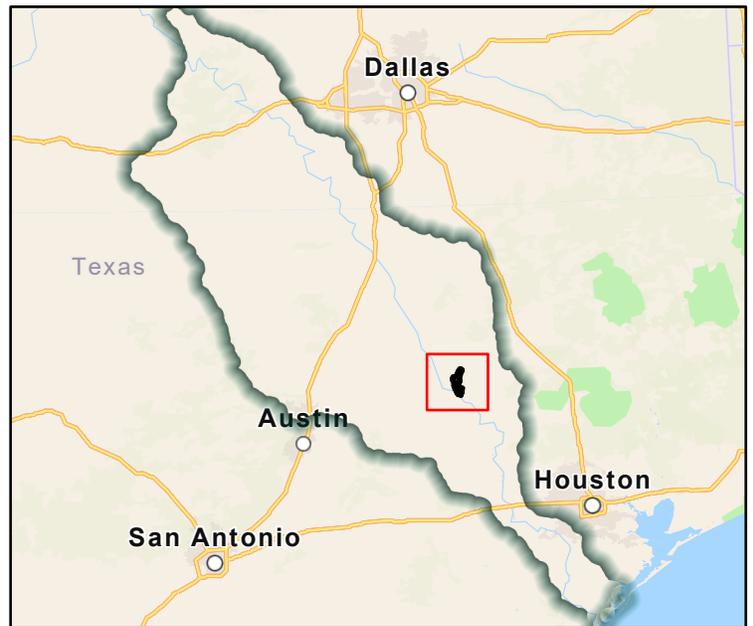
Estimated Cost and Funding Availability

Total Cost \$137,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Tract North of Carson Crossing**

ID# **081000671**

Sponsor (name of entity, not person) **Bryan**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Preliminary Engineering**

Study description **Channel and crossing improvements along Trib D feeding into County Club Lake.**

New Hydrologic or Hydraulic model? Emergency Need? **No** Existing/Anticipated models in near term?

County **Brazos** Watershed HUC# (if known) **1207010107,1207010307**

Drainage area (Square miles, est.) **2** Goal(s) **8000014**

100-Year Flood Risk Summary

Population at risk **201** # of structures **72** # of Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

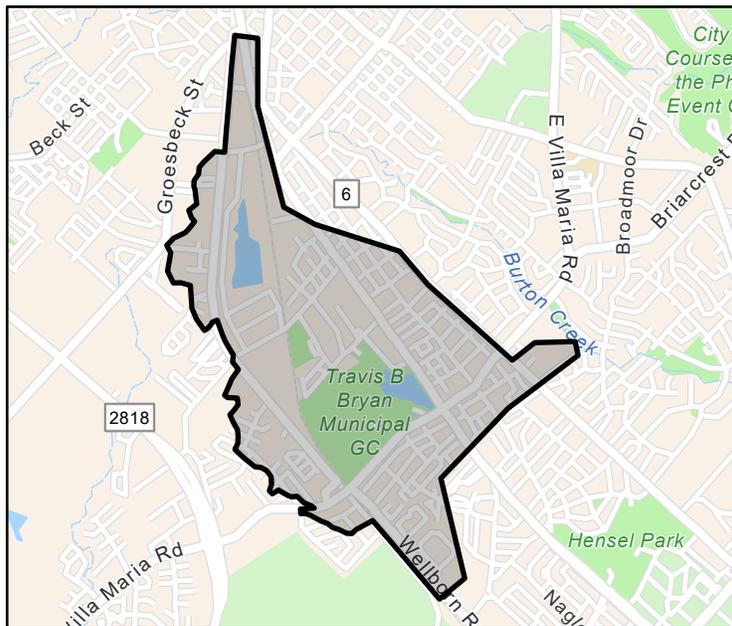
Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **4** Historical road closures **11**

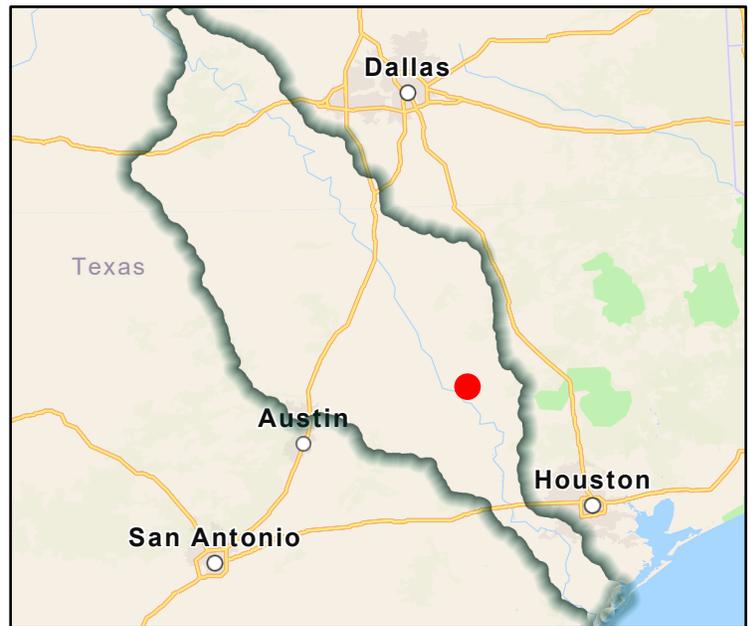
Estimated Cost and Funding Availability

Total Cost **\$214,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Turkey Creek Drainage Improvements

ID# 081001015

Sponsor (name of entity, not person) Bryan

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Preliminary Engineering

Study description Detailed design of improvements throughout the Turkey Creek watershed, especially to fix erosion problems.

New Hydrologic or Hydraulic model? Emergency Need? No Existing/Anticipated models in near term?

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9 Goal(s) 8000014

100-Year Flood Risk Summary

Population at risk 22 # of structures 14 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

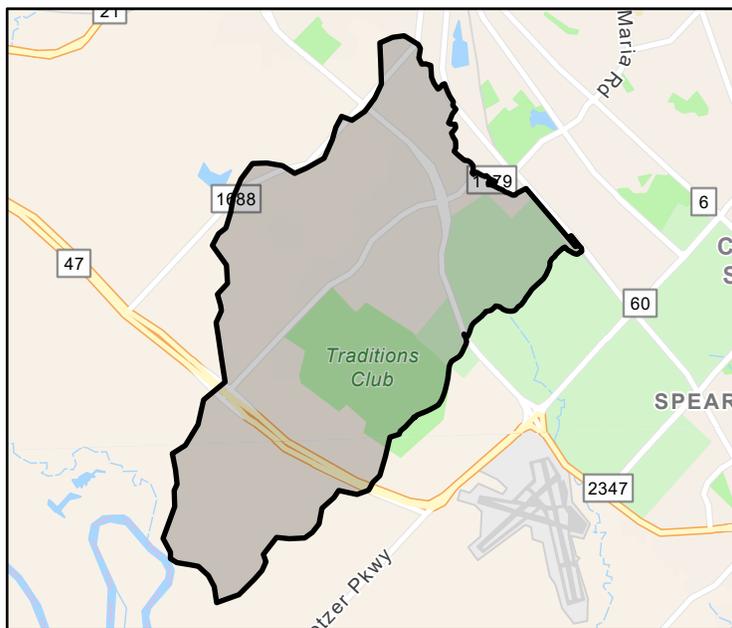
Farm/Ranch land impacted (acres) 702 Roadway(s) impacted (length) 1

Number of low water crossings 0 Historical road closures 9

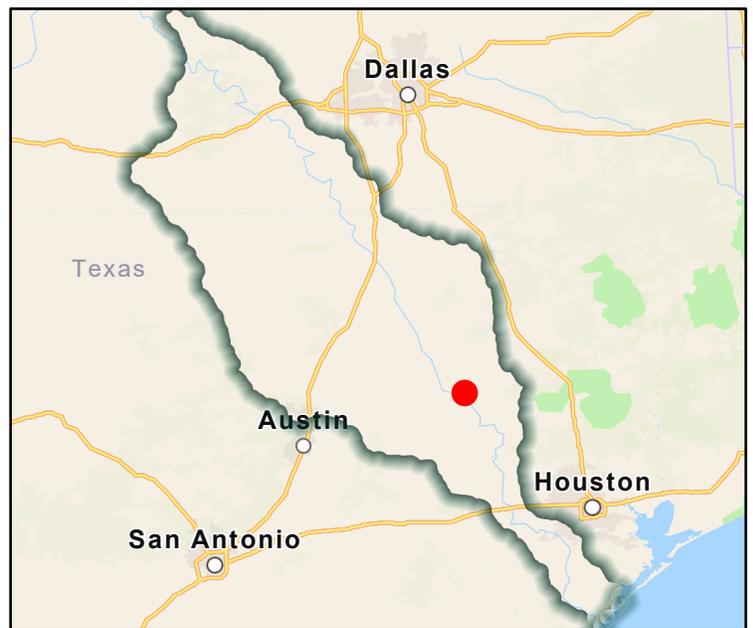
Estimated Cost and Funding Availability

Total Cost \$222,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Bee Creek Basin Detention Pond

ID# 081000226

Sponsor (name of entity, not person) 08003439

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Project Planning

Study description Design of detention facility to contain and mitigate flooding.

New Hydrologic or Hydraulic model? Yes Emergency Need? No Existing/Anticipated models in near term? No

County Brazos Watershed HUC# (if known) 1207010107,1207010307

Drainage area (Square miles, est.) 9 Goal(s) 08000009

100-Year Flood Risk Summary

Population at risk 233 # of structures 66 # of Critical facilities 1

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

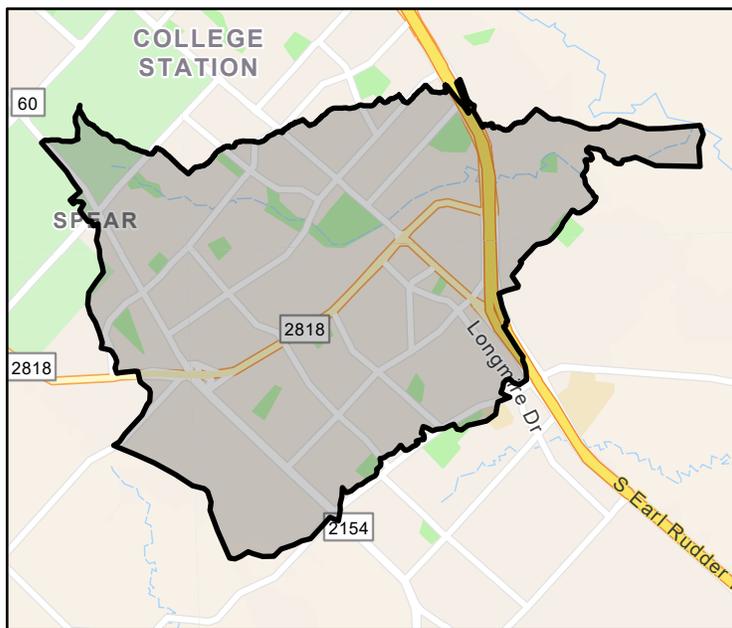
Farm/Ranch land impacted (acres) 75 Roadway(s) impacted (length) 2

Number of low water crossings 8 Historical road closures 19

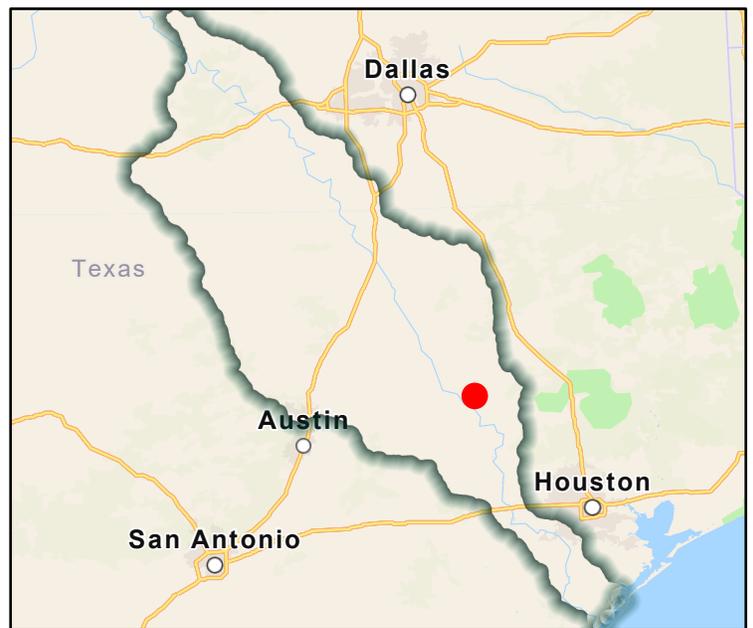
Estimated Cost and Funding Availability

Total Cost \$111,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, FEMA FMA



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title **Sharondale Drainage Improvements**

ID# **081000881**

Sponsor (name of entity, not person) **08002914**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Study Details

Study type **Project Planning**

Study description **Drainage infrastructure improvements to reduce flooding in the Sharondale area.**

New Hydrologic or Hydraulic model? **Yes** Emergency Need? **No** Existing/Anticipated models in near term? **No**

County **McLennan** Watershed HUC# (if known) **1206020208**

Drainage area (Square miles, est.) **2** Goal(s) **08000009**

100-Year Flood Risk Summary

Population at risk **6,540** # of structures **578** # of Critical facilities **1**

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

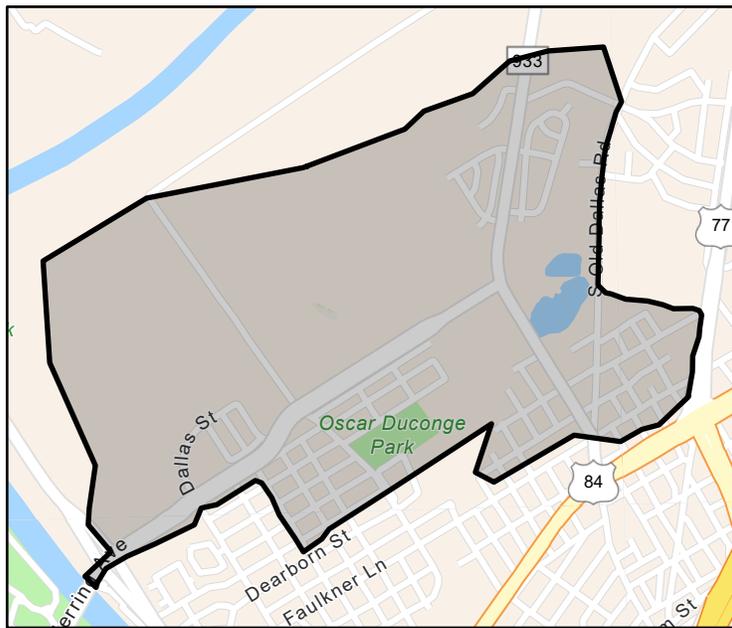
Farm/Ranch land impacted (acres) **196** Roadway(s) impacted (length) **32**

Number of low water crossings **1** Historical road closures **108**

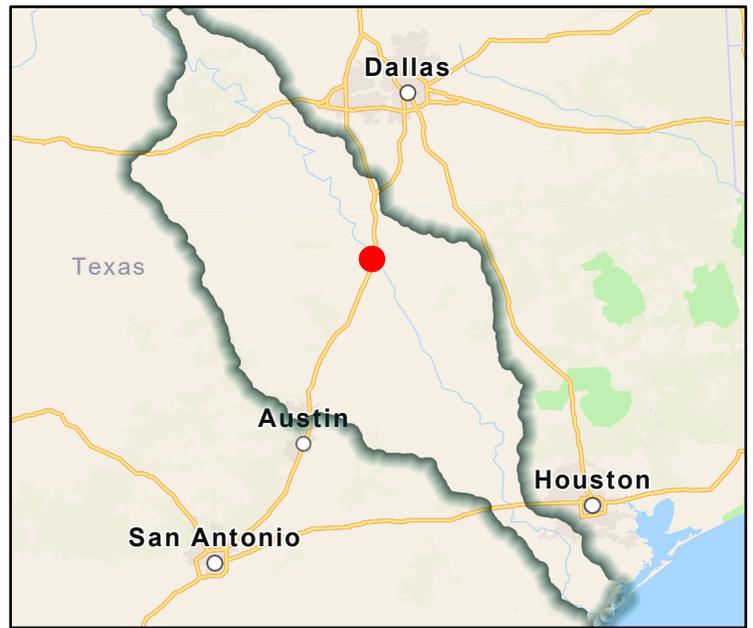
Estimated Cost and Funding Availability

Total Cost **\$157,000** Amount of Available Funding **\$0** Eligible for Federal funding? **Yes**

Funding source **Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT**



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Taylor / Elm Storm Infrastructure & Outfall

ID# 081001286

Sponsor (name of entity, not person) 08002914

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Project Planning

Study description Extension of current storm infrastructure in the area to improve drainage. Potential levee along MLK Boulevard to direct flow and prohibit road overtopping.

New Hydrologic or Hydraulic model?

Emergency Need? No

Existing/Anticipated models in near term?

County McLennan

Watershed HUC# (if known) 1206020208

Drainage area (Square miles, est.) 2

Goal(s) 08000014

100-Year Flood Risk Summary

Population at risk 705

of structures 69

of Critical facilities 1

Flood risk type: Riverine? No

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 15

Roadway(s) impacted (length) 7

Number of low water crossings 0

Historical road closures 0

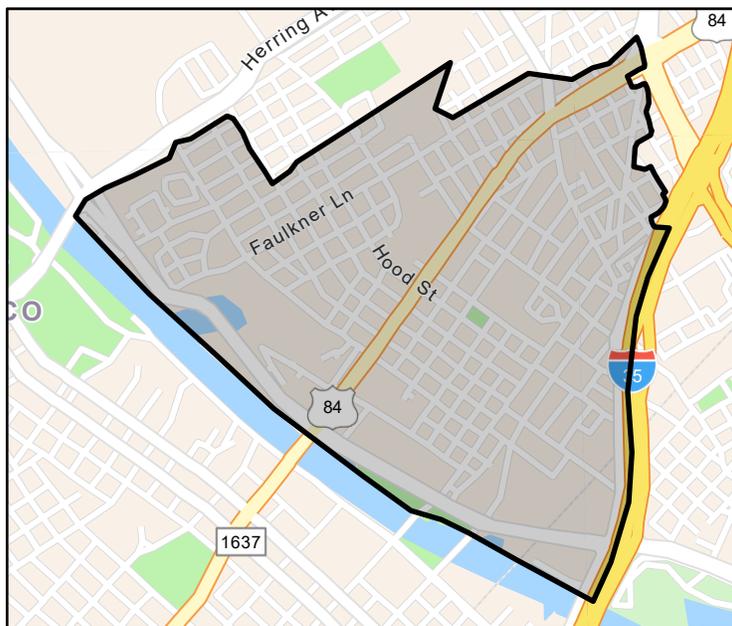
Estimated Cost and Funding Availability

Total Cost \$917,000

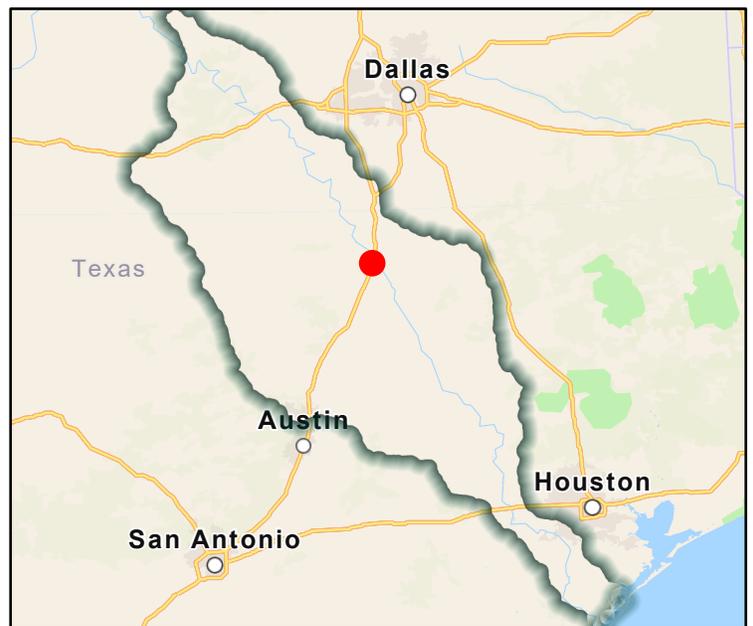
Amount of Available Funding \$0

Eligible for Federal funding?

Funding source



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

LOWER BRAZOS REGIONAL FLOOD PLANNING GROUP REGION 8

Title Waller County Master Drainage Plan

ID# 081001146

Sponsor (name of entity, not person) 00000024

RFPG recommend? Yes

Reason for Recommendation

Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Watershed Planning

Study description Study to determine food risk and potential solutions throughout the county.

New Hydrologic or Hydraulic model? Yes

Emergency Need? No

Existing/Anticipated models in near term? No

County Waller

Watershed HUC# (if known) 1207010108,1207010109,1207010401,1207010402,1207010403

Drainage area (Square miles, est.) 516

Goal(s) 08000014

100-Year Flood Risk Summary

Population at risk 1,327

of structures 2,038

of Critical facilities 0

Flood risk type: Riverine? Yes

Coastal? No

Local? Yes

Playa? No

Other? No

Farm/Ranch land impacted (acres) 3

Roadway(s) impacted (length) 90

Number of low water crossings 0

Historical road closures 0

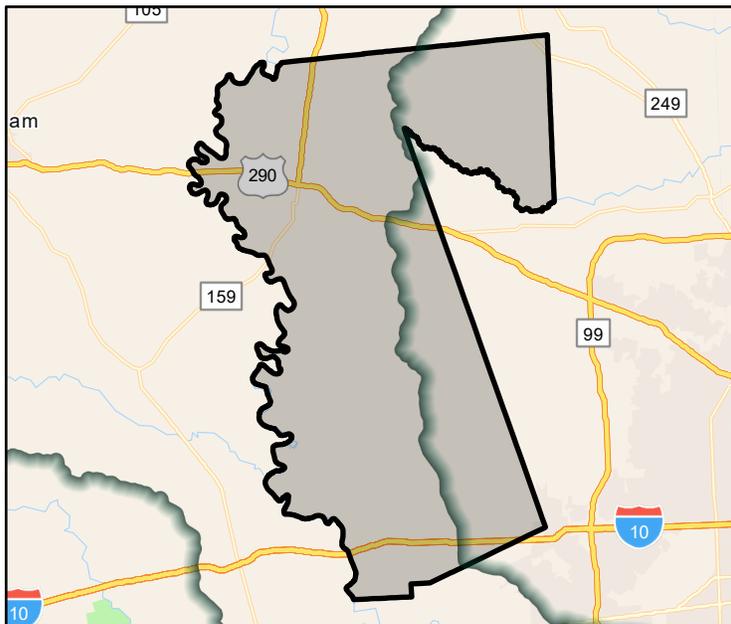
Estimated Cost and Funding Availability

Total Cost \$1,430,000

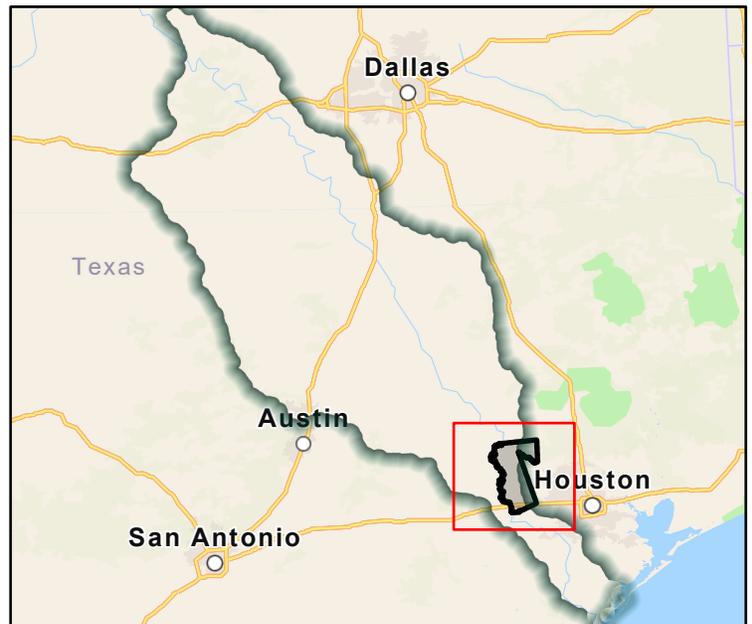
Amount of Available Funding \$0

Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Flood Management Evaluation (FME)

Title Andrus Creek Channel Improvements

ID# 081000785

Sponsor (name of entity, not person) Fort Bend

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Study Details

Study type Project Planning

Study description Channel improvements and re-configurations at several key locations.

New Hydrologic or Hydraulic model? No Emergency Need? No Existing/Anticipated models in near term? No

County Fort Bend Watershed HUC# (if known) 120402050100

Drainage area (Square miles, est.) 5 Goal(s) 08000014

100-Year Flood Risk Summary

Population at risk 137 # of structures 149 # of Critical facilities 0

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No

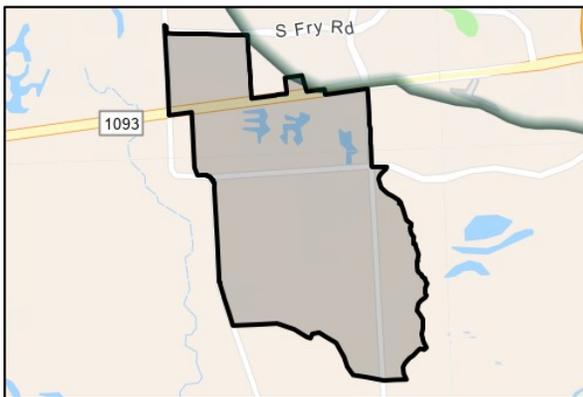
Farm/Ranch land impacted (acres) 272 Roadway(s) impacted (length) 1

Number of low water crossings 0 Historical road closures 0

Estimated Cost and Funding Availability

Total Cost \$300,000 Amount of Available Funding \$0 Eligible for Federal funding? Yes

Funding source Local, TWDB FIF, TWDB CWSRF, FEMA HMGP, FEMA BRIC, FEMA FMA, HUD CDBG-MIT



FME Area



Regional view of FME area

Appendix 5.6

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type	<input type="text" value="Infrastructure Projects"/>		
Strategy description	<input type="text" value="Flood proof city lift stations and manholes located in the SFHA."/>		
Associated FME's	<input type="text"/>	Associated FMP's	<input type="text"/>
Associated FMS's	<input type="text"/>	Drainage area (mi ² , est.)	<input type="text" value="59"/>
Watershed HUC# (if known)	<input type="text" value="1207020501,1207020502,1207020503,1207020504,1207020505"/>		County
			<input type="text" value="Williamson"/>

Existing 100-Year Flood Risk

Population at risk	<input type="text" value="0"/>	# of structures	<input type="text" value="0"/>	Critical facilities	<input type="text" value="0"/>
Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Farm/Ranch land impacted (acres)	<input type="text" value="0"/>		Roadway(s) impacted (miles)	<input type="text" value="0"/>	
Number of low water crossings	<input type="text" value="0"/>		Historical road closures	<input type="text" value="0"/>	

100-Year Flood Risk Reduction

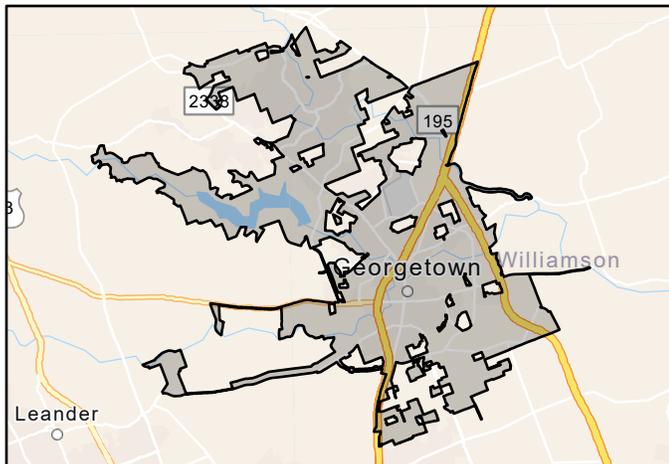
Population removed from 100-yr	<input type="text" value="0"/>	# of structures removed from 100-yr	<input type="text" value="0"/>
Critical facilities removed from 100-yr	<input type="text" value="0"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="0"/>
Road removed from 100-yr (miles)	<input type="text" value="0"/>	Low water crossings removed from 100-yr	<input type="text" value="0"/>
Other benefits	<input type="text" value="None"/>		Reduction in # of road closures over 10 years
			<input type="text" value="0"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="N/A"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="N/A"/>

Estimated Cost

Strategy Cost	<input type="text" value="\$500,000"/>	Amount of available funding	<input type="text" value="\$0"/>	% Nature-Based	<input type="text" value="0"/>
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FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

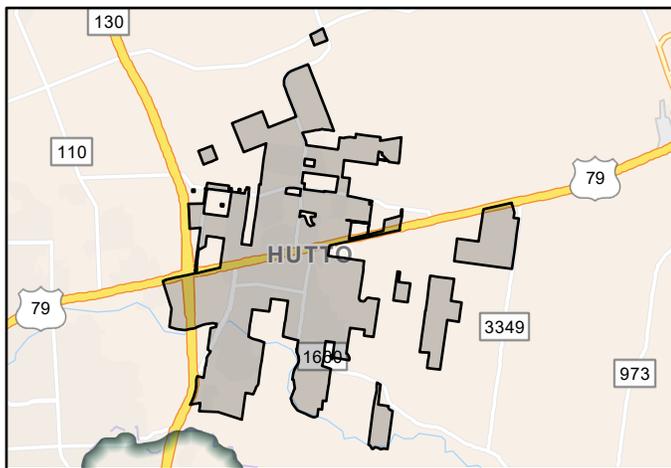
Impacts

Negative impacts? Negative impacts description

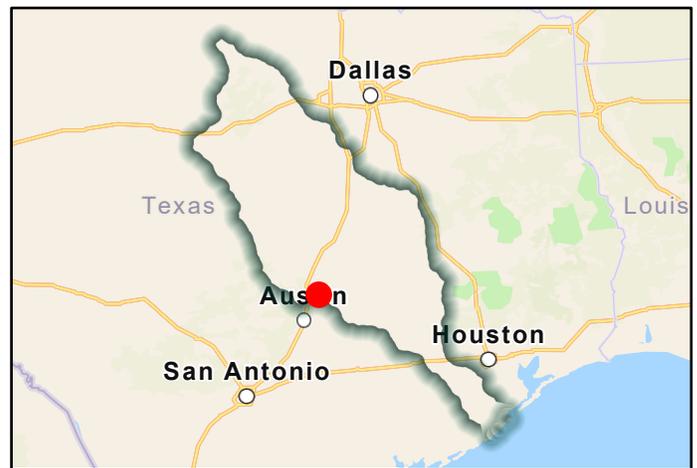
Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

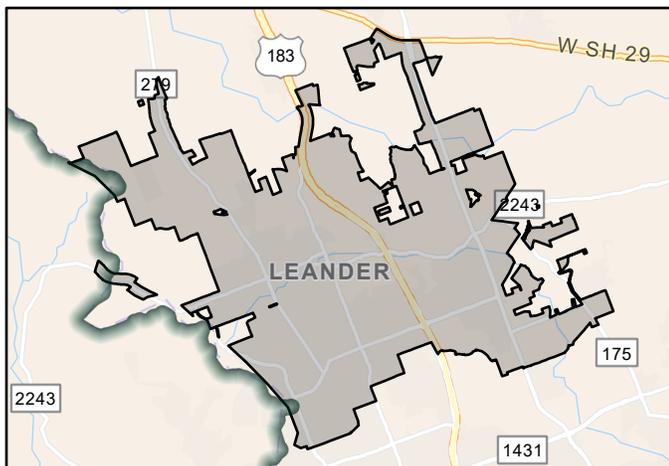
Impacts

Negative impacts? Negative impacts description

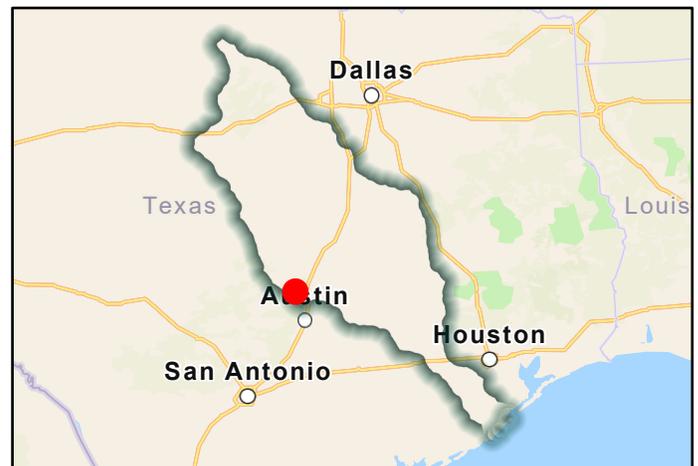
Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title Evaluation of Flood Control Projects Phase 2

ID# 082000059 Sponsor Sugar Land

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Strategy Details

Strategy type	Other		
Strategy description	Implement design, construction, and maintenance criteria for new City-owned flood control projects; Document retrofitting/non-structural control activities on existing City-owned flood control structures		
Associated FME's		Associated FMP's	
Associated FMS's		Drainage area (mi ² , est.)	31
Watershed HUC# (if known)	1204020501,1204020502,1207010404	County	Fort Bend

Existing 100-Year Flood Risk

Population at risk	0	# of structures	0	Critical facilities	0
Flood risk type:	Riverine? Yes	Coastal? No	Local? No	Playa? No	Other? No
Farm/Ranch land impacted (acres)	0	Roadway(s) impacted (miles)	0		
Number of low water crossings	0	Historical road closures	0		

100-Year Flood Risk Reduction

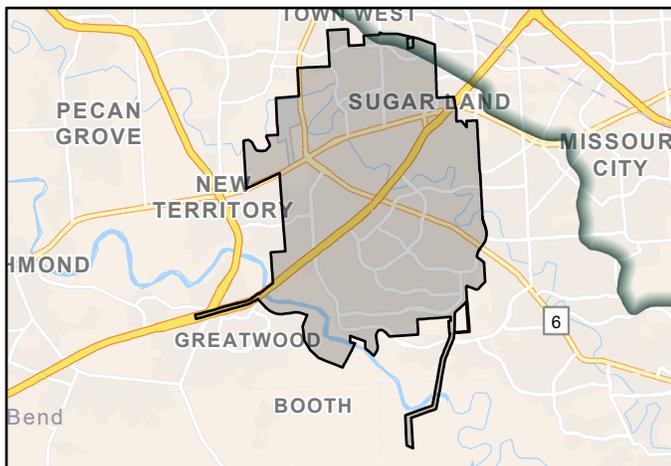
Population removed from 100-yr	0	# of structures removed from 100-yr	0
Critical facilities removed from 100-yr	0	Farm/Ranch land removed from 100-yr (acres)	0
Road removed from 100-yr (miles)	0	Low water crossings removed from 100-yr	0
Other benefits	None	Reduction in # of road closures over 10 years	0

Impacts

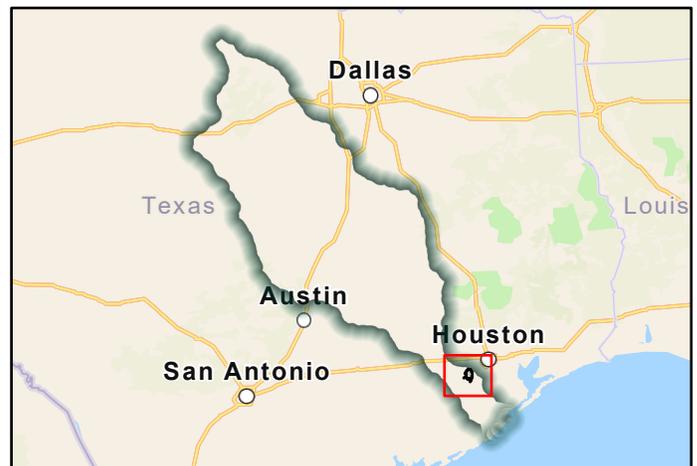
Negative impacts?	No	Negative impacts description	N/A
Water supply contributions?	No	Water supply contribution description	N/A

Estimated Cost

Strategy Cost	\$500,000	Amount of available funding	\$0	% Nature-Based	0
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FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Yes Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

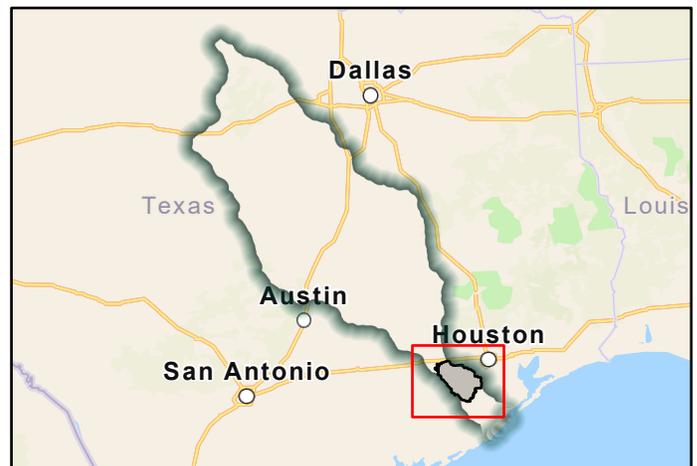
Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

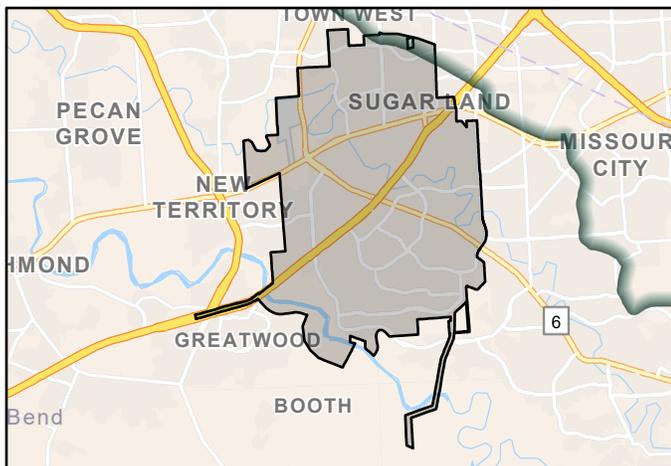
Impacts

Negative impacts? Negative impacts description

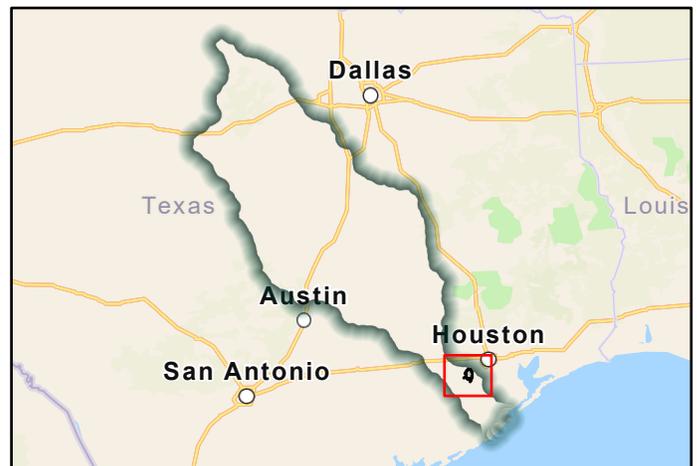
Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type	<input type="text" value="Regulatory and Guidance"/>		
Strategy description	<input type="text" value="Consider establishing a single regional drainage entity to manage all aspects of drainage."/>		
Associated FME's	<input type="text"/>	Associated FMP's	<input type="text"/>
Associated FMS's	<input type="text"/>	Drainage area (mi ² , est.)	<input type="text" value="31"/>
Watershed HUC# (if known)	<input type="text" value="1204020501,1204020502,1207010404"/>	County	<input type="text" value="Fort Bend"/>

Existing 100-Year Flood Risk

Population at risk	<input type="text" value="0"/>	# of structures	<input type="text" value="0"/>	Critical facilities	<input type="text" value="0"/>
Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="Yes"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Farm/Ranch land impacted (acres)	<input type="text" value="0"/>	Roadway(s) impacted (miles)	<input type="text" value="0"/>		
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>		

100-Year Flood Risk Reduction

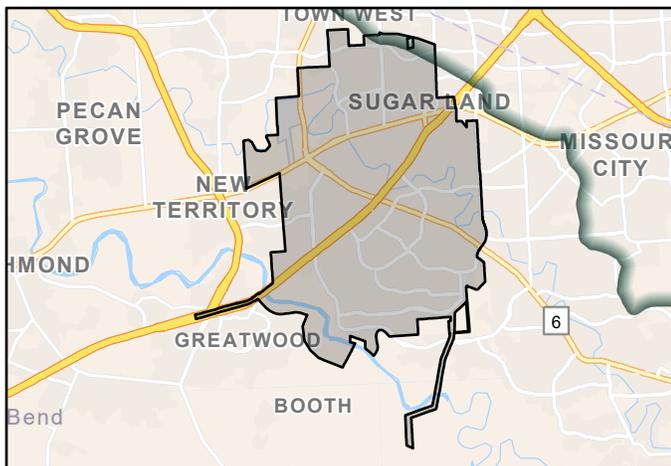
Population removed from 100-yr	<input type="text" value="0"/>	# of structures removed from 100-yr	<input type="text" value="0"/>
Critical facilities removed from 100-yr	<input type="text" value="0"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="0"/>
Road removed from 100-yr (miles)	<input type="text" value="0"/>	Low water crossings removed from 100-yr	<input type="text" value="0"/>
Other benefits	<input type="text" value="None"/>	Reduction in # of road closures over 10 years	<input type="text" value="0"/>

Impacts

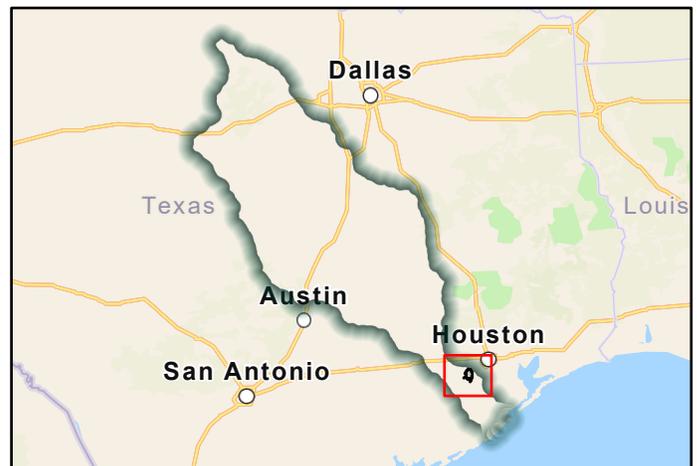
Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="N/A"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="N/A"/>

Estimated Cost

Strategy Cost	<input type="text" value="\$500,000"/>	Amount of available funding	<input type="text" value="\$0"/>	% Nature-Based	<input type="text" value="0"/>
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FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

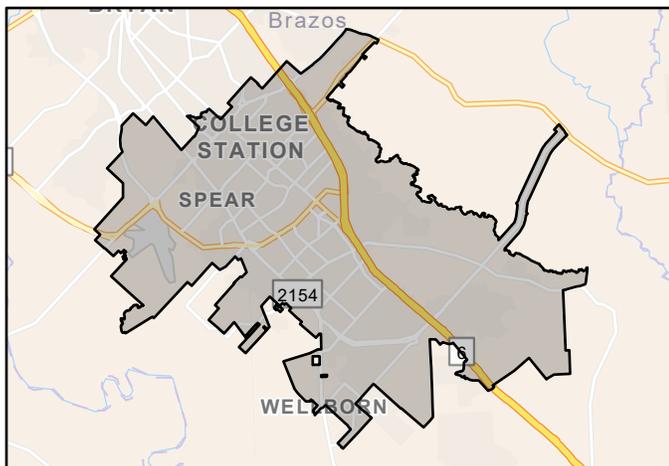
Impacts

Negative impacts? Negative impacts description

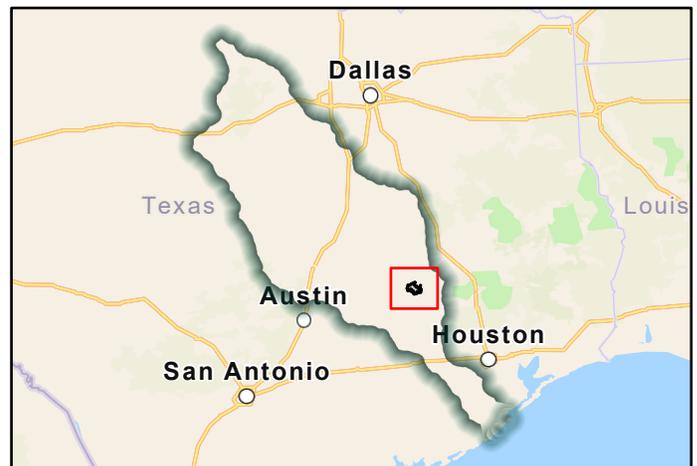
Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type	Property Acquisition and Structural Elevation		
Strategy description	Buyout program for structures located in flood hazard areas.		
Associated FME's	<input type="text" value="081000706"/>	Associated FMP's	<input type="text"/>
Associated FMS's	<input type="text" value="082001125,082001139"/>	Drainage area (mi ² , est.)	<input type="text" value="51"/>
Watershed HUC# (if known)	<input type="text" value="1207010107,1207010307"/>	County	<input type="text" value="Brazos"/>

Existing 100-Year Flood Risk

Population at risk	<input type="text" value="0"/>	# of structures	<input type="text" value="0"/>	Critical facilities	<input type="text" value="0"/>
Flood risk type:	Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Farm/Ranch land impacted (acres)	<input type="text" value="0"/>	Roadway(s) impacted (miles)	<input type="text" value="0"/>		
Number of low water crossings	<input type="text" value="0"/>	Historical road closures	<input type="text" value="0"/>		

100-Year Flood Risk Reduction

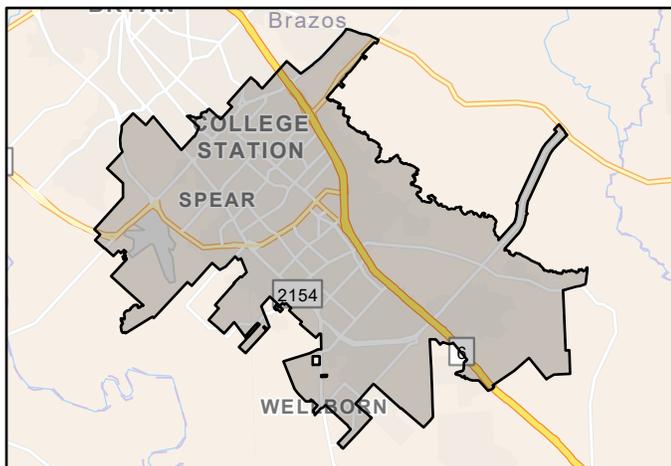
Population removed from 100-yr	<input type="text" value="0"/>	# of structures removed from 100-yr	<input type="text" value="0"/>
Critical facilities removed from 100-yr	<input type="text" value="0"/>	Farm/Ranch land removed from 100-yr (acres)	<input type="text" value="0"/>
Road removed from 100-yr (miles)	<input type="text" value="0"/>	Low water crossings removed from 100-yr	<input type="text" value="0"/>
Other benefits	<input type="text"/>	Reduction in # of road closures over 10 years	<input type="text" value="0"/>

Impacts

Negative impacts?	<input type="text" value="No"/>	Negative impacts description	<input type="text" value="N/A"/>
Water supply contributions?	<input type="text" value="No"/>	Water supply contribution description	<input type="text" value="N/A"/>

Estimated Cost

Strategy Cost	<input type="text" value="\$500,000"/>	Amount of available funding	<input type="text" value="\$0"/>	% Nature-Based	<input type="text" value="0"/>
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FMS area



Regional view of FMS area

Flood Management Strategy (FMS)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Strategy Details

Strategy type

Strategy description

Associated FME's Associated FMP's

Associated FMS's

Watershed HUC# (if known) Drainage area (mi², est.)

County

Existing 100-Year Flood Risk

Population at risk # of structures Critical facilities

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Farm/Ranch land impacted (acres) Roadway(s) impacted (miles)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

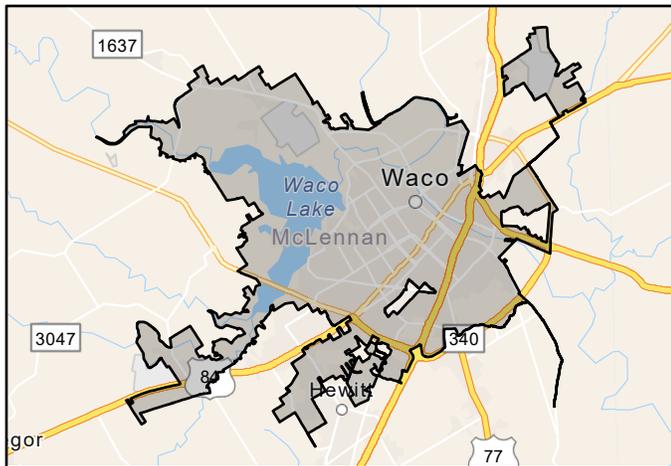
Impacts

Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Strategy Cost Amount of available funding % Nature-Based



FMS area



Regional view of FMS area

Appendix 5.7

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Structural buyouts at the identified location.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

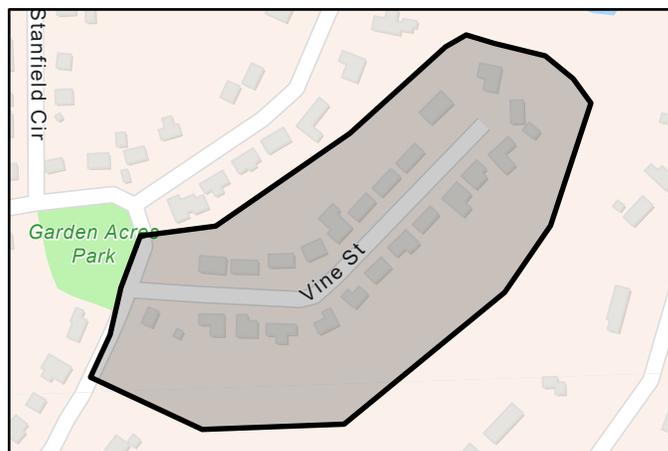
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title **Bryan Boonville and Briarcrest Bridges**

ID# **083000712** Sponsor **08003438**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Project Description

Addition of bridges, channel benching, and detention

Watershed HUC# (if known) **120701030702** Emergency Need? **No**

Drainage area (mi² est.) **1**

Associated FMP's County **Brazos**

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Population at risk **121** # of structures **29** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **1**

Number of low water crossings **0** Historical road closures **11**

100-Year Flood Risk Reduction

Population removed from 100-yr **26** # of structures removed from 100-yr **6**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**

Road removed from 100-yr (miles) **1** Low water crossings removed from 100-yr **0**

Other benefits **Road will be repaved when implementing crossing** Reduction in # of road closures over 10 years **1**

Impacts

Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **N/A**

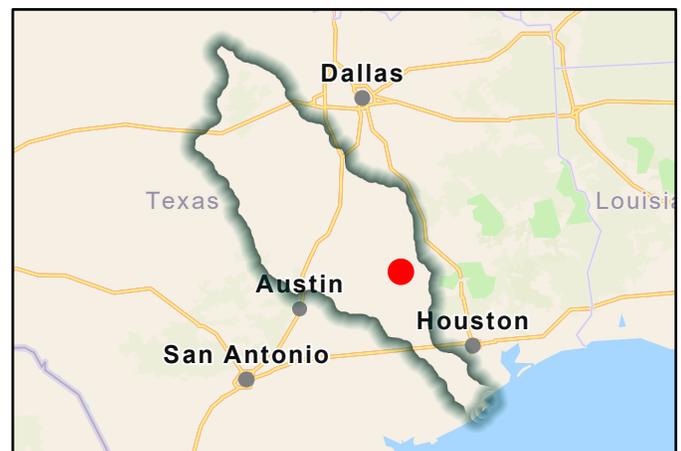
Estimated Cost

Project Cost **\$12,313,000** % Nature-Based **0%** BCR **0.085**

Recurring costs **\$0** Issues **Right-of-way, permitting, utility conflicts, environmental concerns,**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

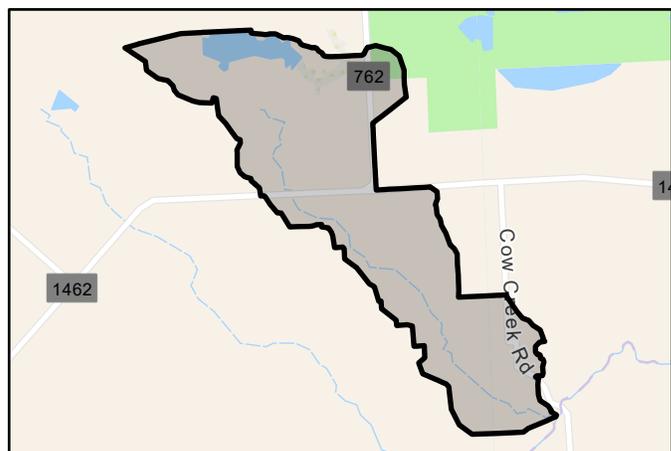
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

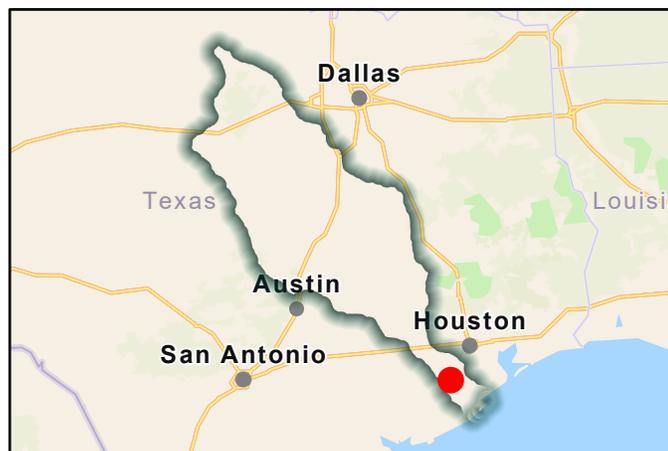
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

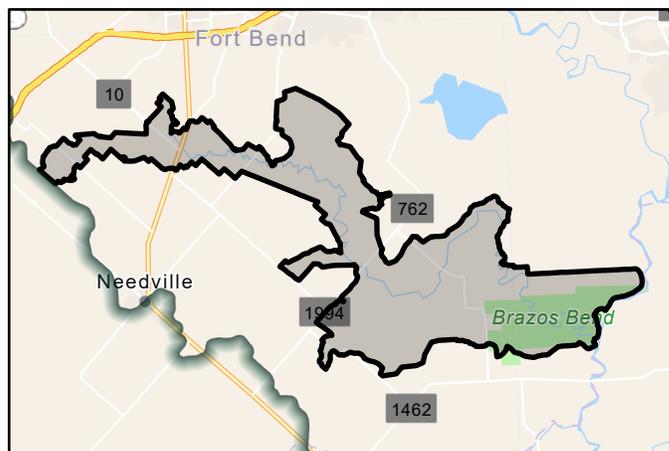
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

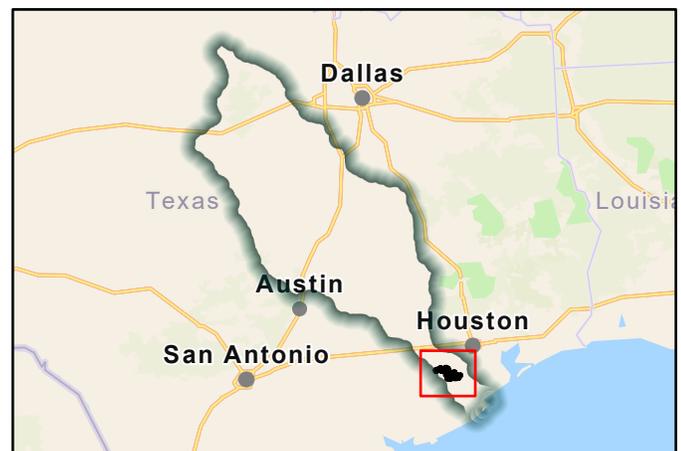
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

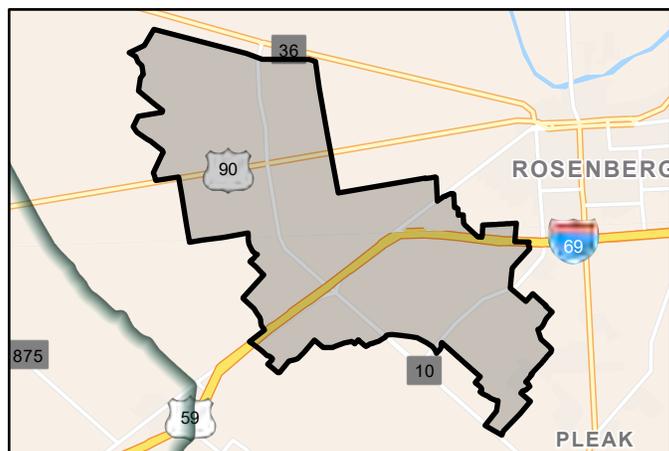
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

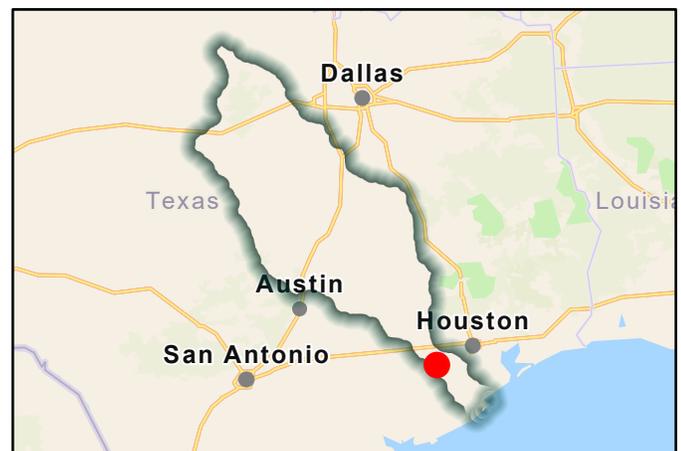
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

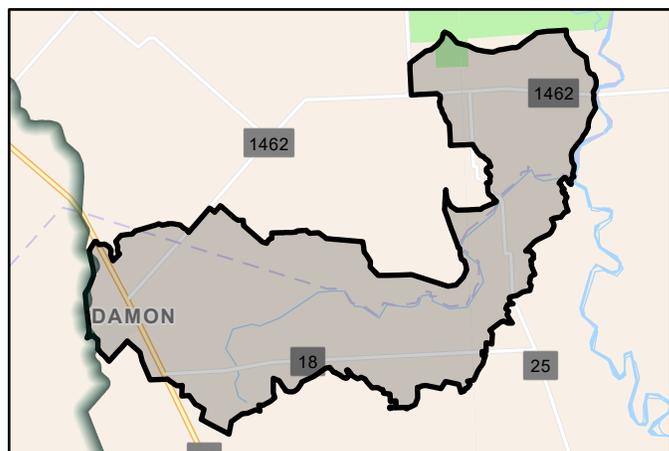
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

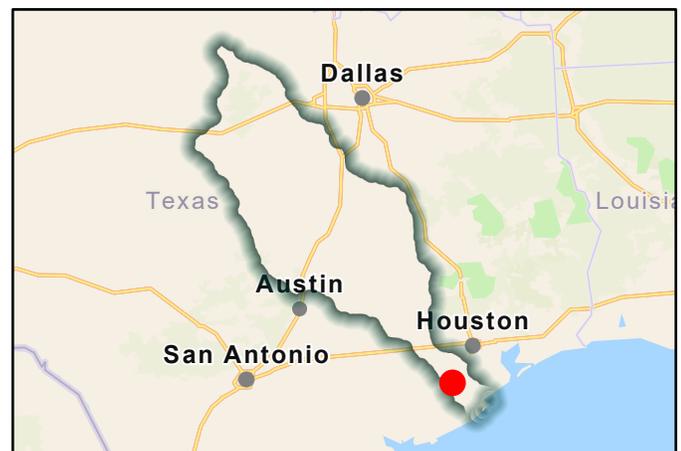
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Associated FMP's Drainage area (mi² est.)

County Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

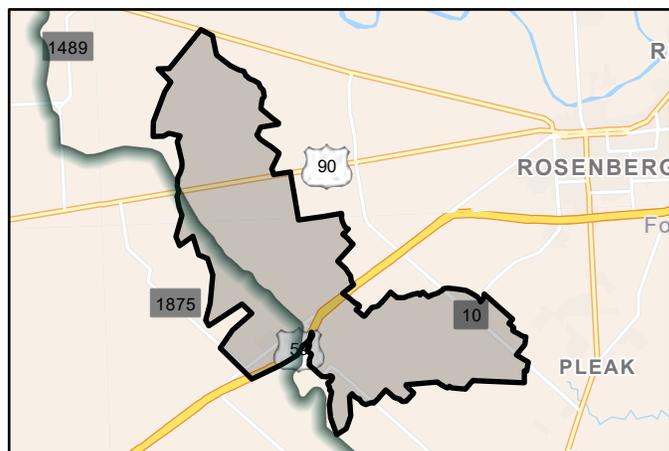
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

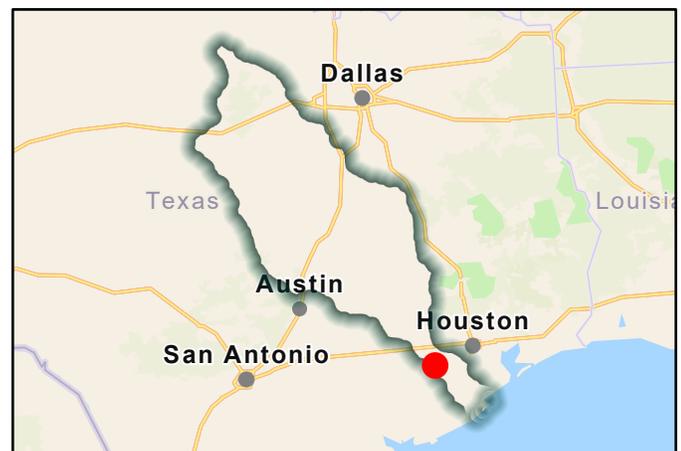
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel re-configuration to re-direct flow from Big Creek. Improvements to drop structure to have capacity for this increased flow.

Watershed HUC# (if known) Emergency Need?
Drainage area (mi² est.)
Associated FMP's County
Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?
Population at risk # of structures Critical facilities
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)
Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

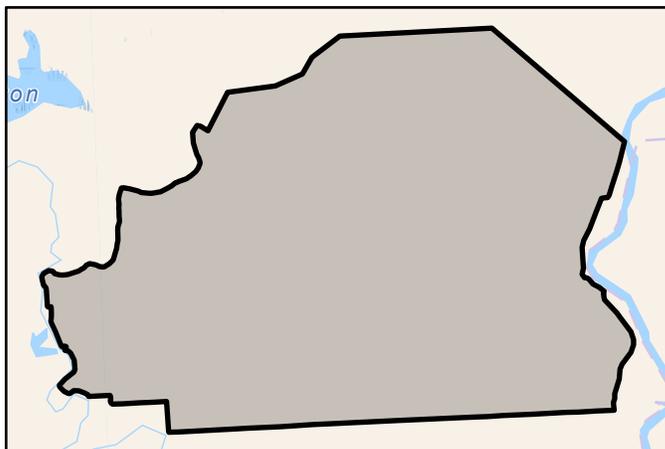
Population removed from 100-yr # of structures removed from 100-yr
Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)
Road removed from 100-yr (miles) Low water crossings removed from 100-yr
Other benefits Reduction in # of road closures over 10 years

Impacts

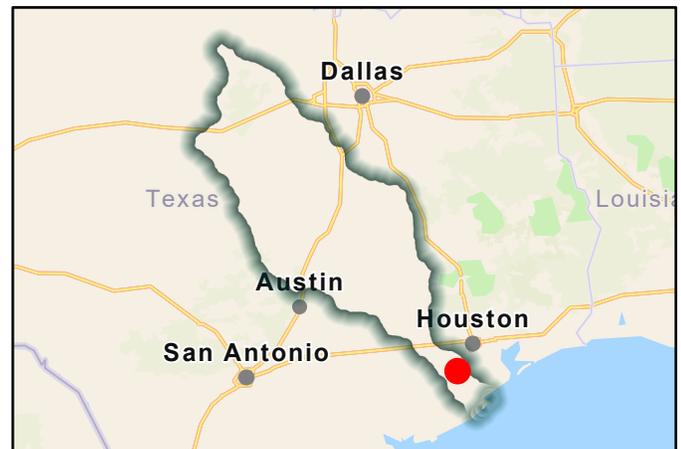
Negative impacts? Negative impacts description
Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR
Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

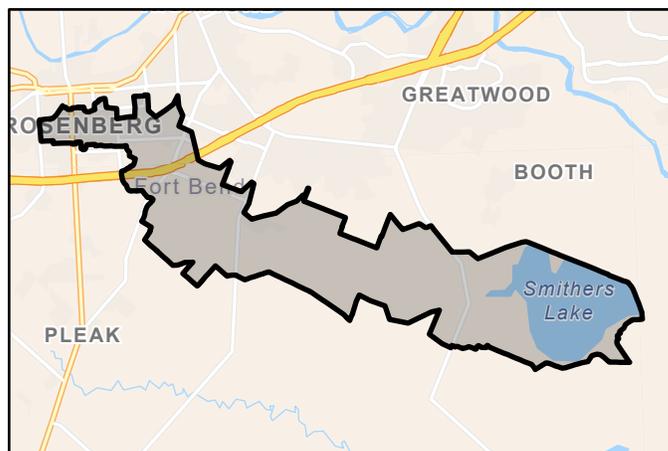
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

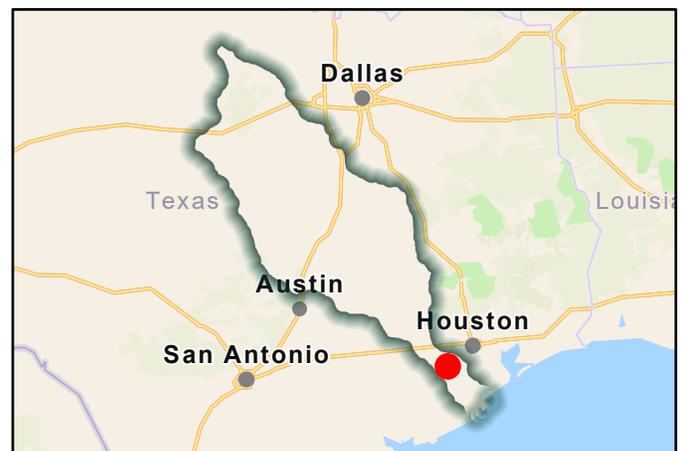
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Associated FMP's Drainage area (mi² est.)

County Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

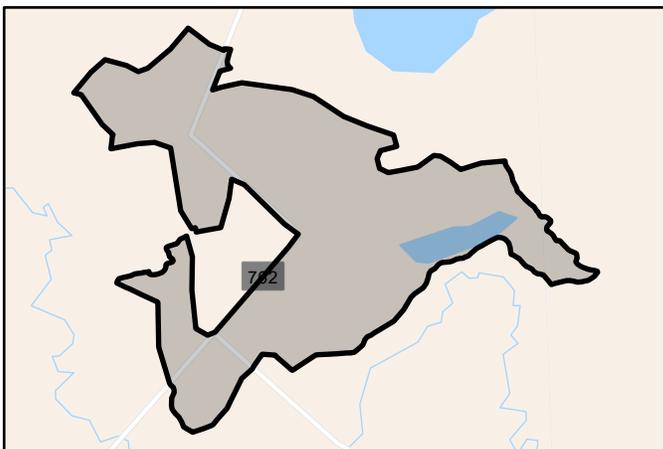
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

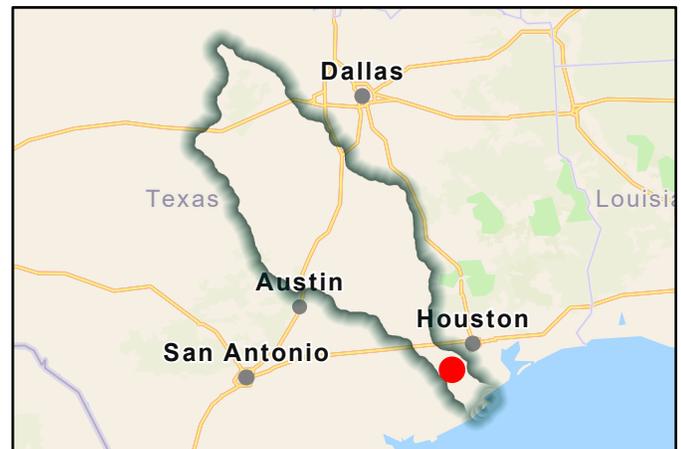
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

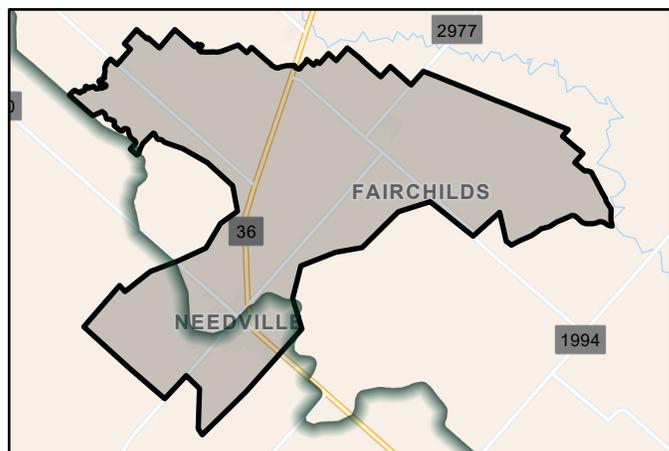
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

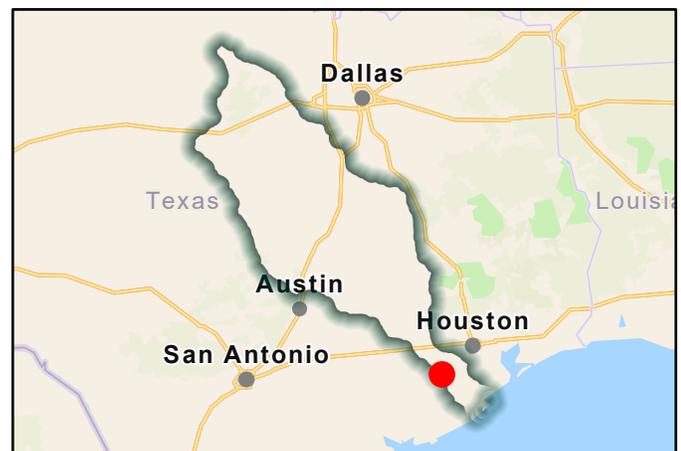
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

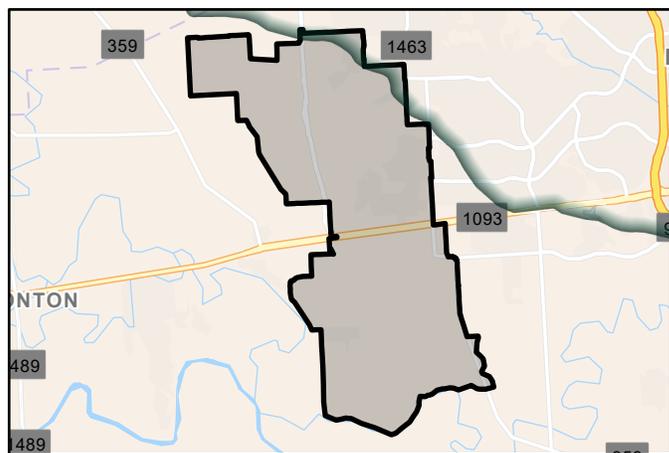
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

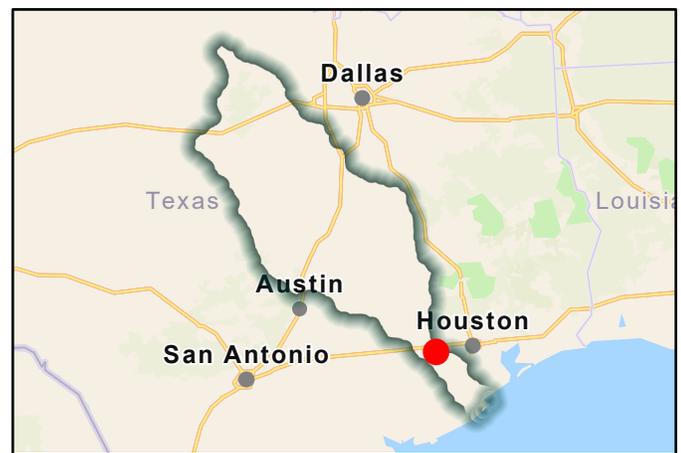
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Associated FMP's Drainage area (mi² est.)

County Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

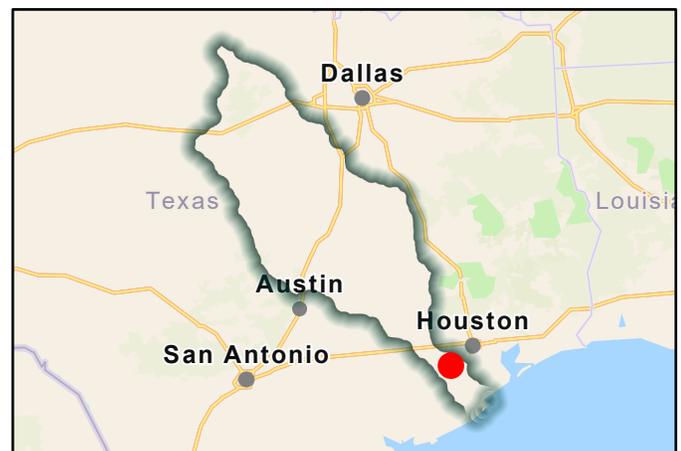
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations

Watershed HUC# (if known) <input type="text" value="120402050100,120701040309,120701040401,120701040402"/>	Emergency Need? <input type="text" value="Yes"/>
Associated FMP's <input type="text" value="083000785,083000818"/>	Drainage area (mi ² est.) <input type="text" value="22"/>
	County <input type="text" value="Fort Bend"/>
	Associated FME's <input type="text"/>

Existing 100-Year Flood Risk

Flood risk type: Riverine? <input type="text" value="Yes"/>	Coastal? <input type="text" value="No"/>	Local? <input type="text" value="Yes"/>	Playa? <input type="text" value="No"/>	Other? <input type="text" value="No"/>
Population at risk <input type="text" value="1,594"/>	# of structures <input type="text" value="829"/>	Critical facilities <input type="text" value="4"/>		
Farm/Ranch land impacted (acres) <input type="text" value="1,988"/>	Roadway(s) impacted (length) <input type="text" value="18"/>			
Number of low water crossings <input type="text" value="0"/>	Historical road closures <input type="text" value="71"/>			

100-Year Flood Risk Reduction

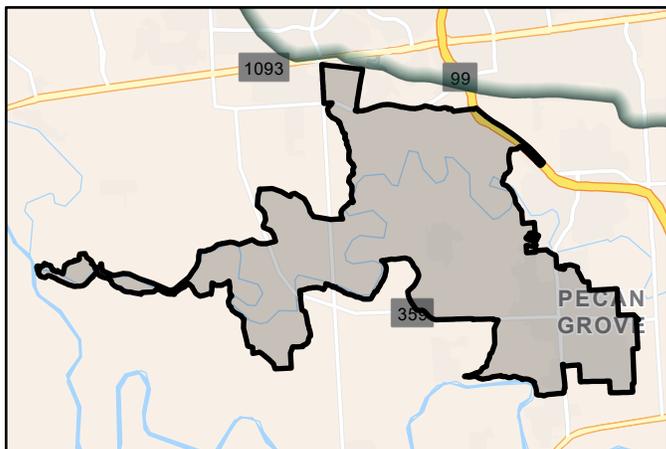
Population removed from 100-yr <input type="text" value="138"/>	# of structures removed from 100-yr <input type="text" value="47"/>
Critical facilities removed from 100-yr <input type="text" value="4"/>	Farm/Ranch land removed from 100-yr (acres) <input type="text" value="1"/>
Road removed from 100-yr (miles) <input type="text" value="0"/>	Low water crossings removed from 100-yr <input type="text" value="0"/>
Other benefits <input type="text" value="Agricultural, recreation, and water quality benefits."/>	Reduction in # of road closures over 10 years <input type="text" value="0"/>

Impacts

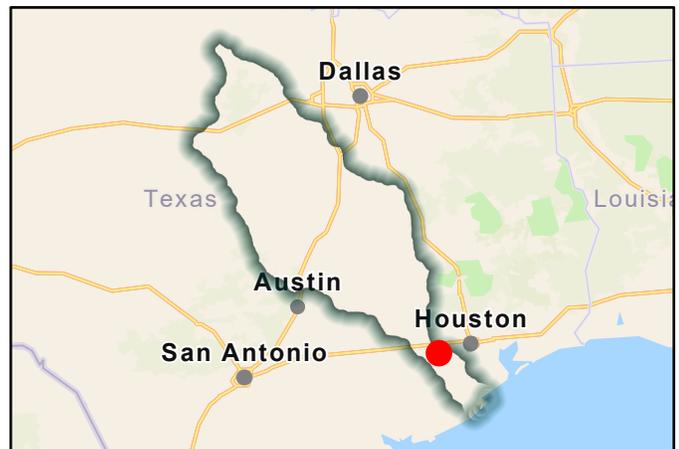
Negative impacts? <input type="text" value="No"/>	Negative impacts description <input type="text" value="N/A"/>
Water supply contributions? <input type="text" value="No"/>	Water supply contribution description <input type="text" value="N/A"/>

Estimated Cost

Project Cost <input type="text" value="\$556,012,032"/>	% Nature-Based <input type="text" value="0%"/>	BCR <input type="text" value="0.007"/>
Recurring costs <input type="text" value="\$20,637,000"/>	Issues <input type="text" value="Right-of-way, permitting, utility conflicts, environmental concerns"/>	



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

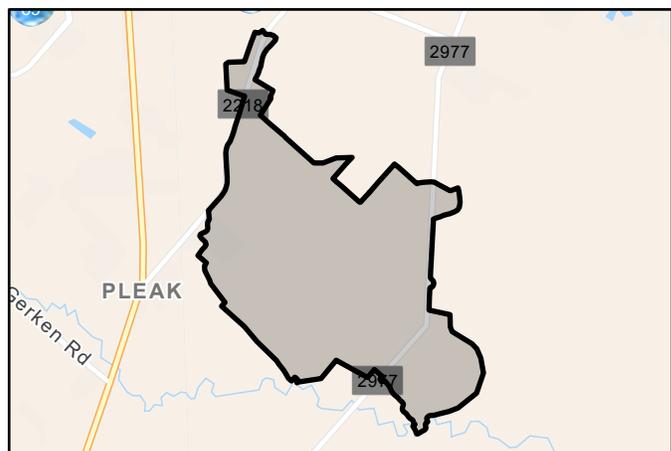
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

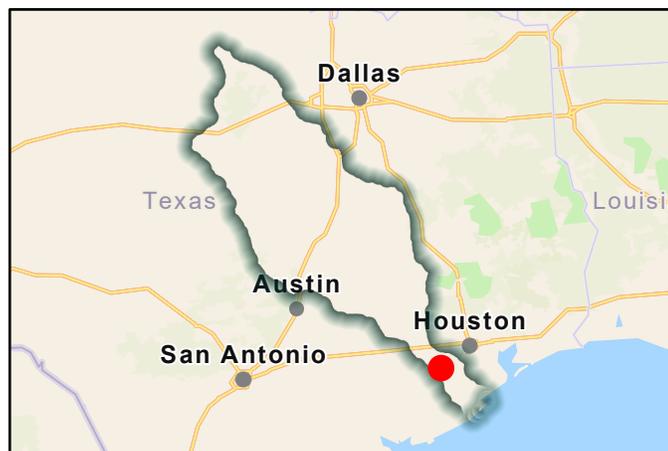
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

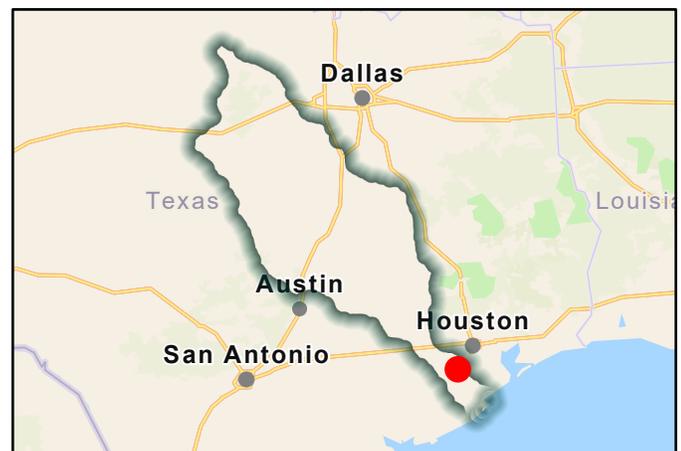
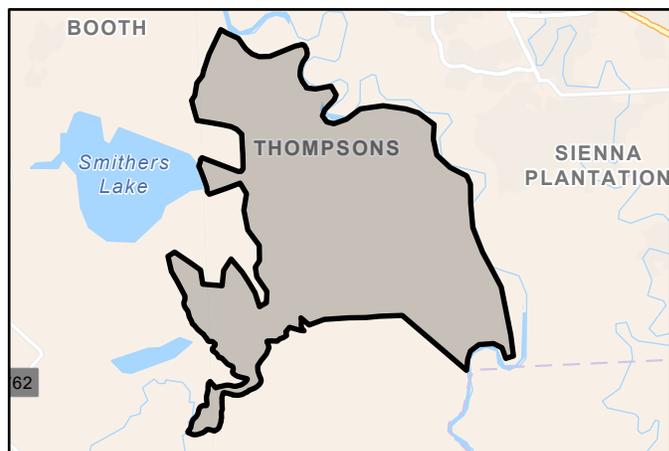
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



Flood Mitigation Project (FMP)

Title **Seabourne Creek Channel Improvements**

ID# **083000828** Sponsor **00000009**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) **120701040401,120701040404,120701040405,120701040408** Emergency Need? **Yes**

Drainage area (mi² est.) **13**

Associated FMP's **083000800,083000805,083000809,083000811,083000814,083000817,083** County **Fort Bend**

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

Population at risk **1,214** # of structures **577** Critical facilities **4**

Farm/Ranch land impacted (acres) **2,336** Roadway(s) impacted (length) **13**

Number of low water crossings **0** Historical road closures **0**

100-Year Flood Risk Reduction

Population removed from 100-yr **1,212** # of structures removed from 100-yr **573**

Critical facilities removed from 100-yr **4** Farm/Ranch land removed from 100-yr (acres) **2,270**

Road removed from 100-yr (miles) **13** Low water crossings removed from 100-yr **0**

Other benefits **Agricultural, recreation, and water quality benefits.** Reduction in # of road closures over 10 years **0**

Impacts

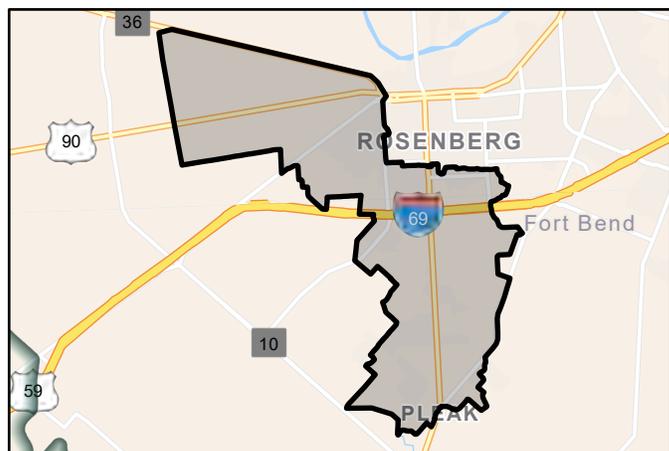
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **N/A**

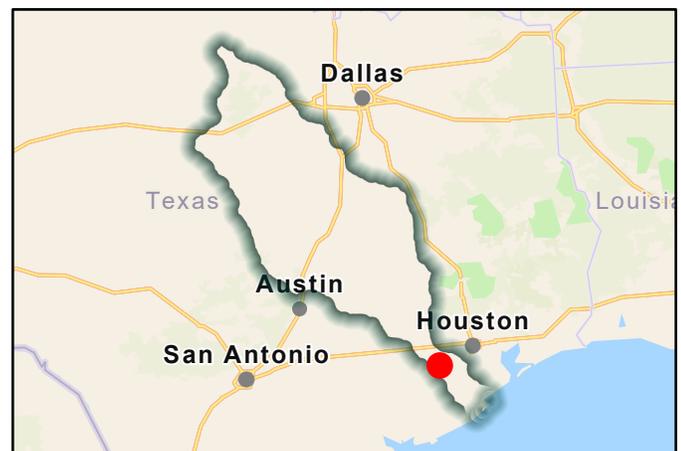
Estimated Cost

Project Cost **\$104,974,000** % Nature-Based **0%** BCR **0.052**

Recurring costs **\$3,972,000** Issues **Right-of-way, permitting, utility conflicts, environmental concerns**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations

Watershed HUC# (if known) Emergency Need?

Associated FMP's Drainage area (mi² est.)

County Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

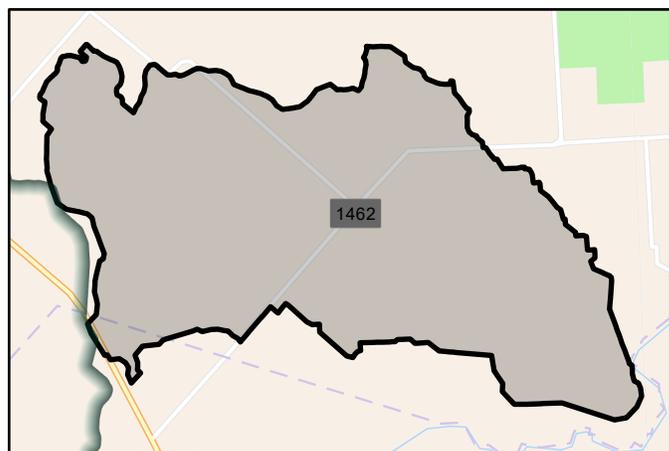
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

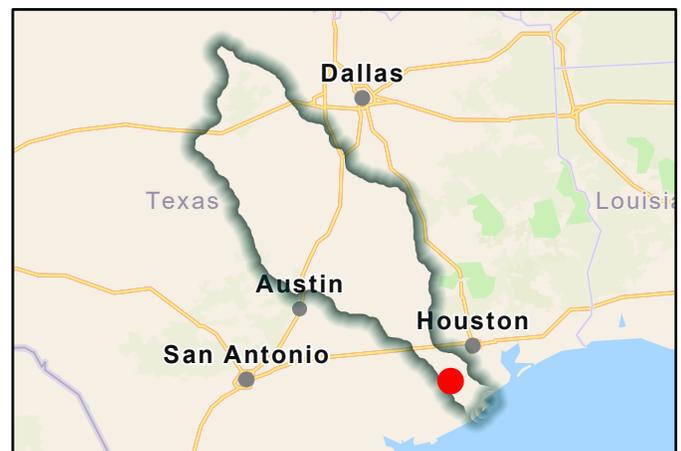
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

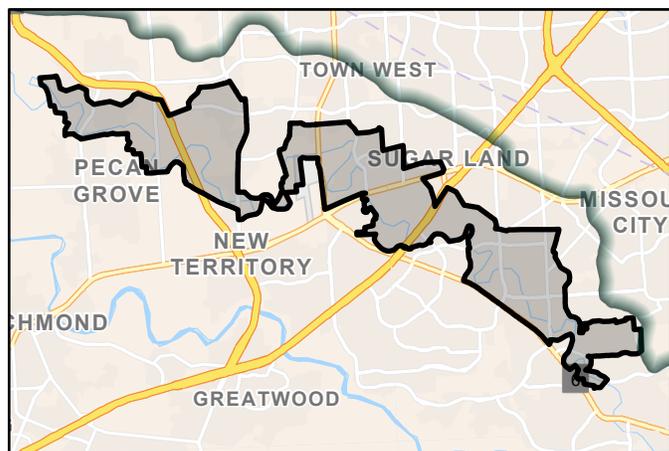
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

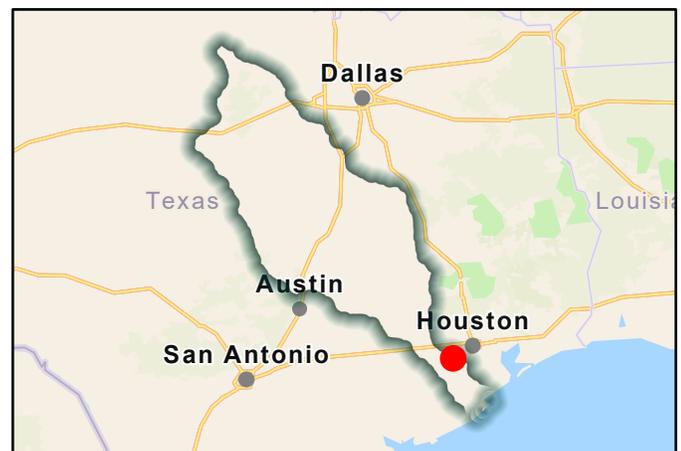
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Associated FMP's Drainage area (mi² est.)

County Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

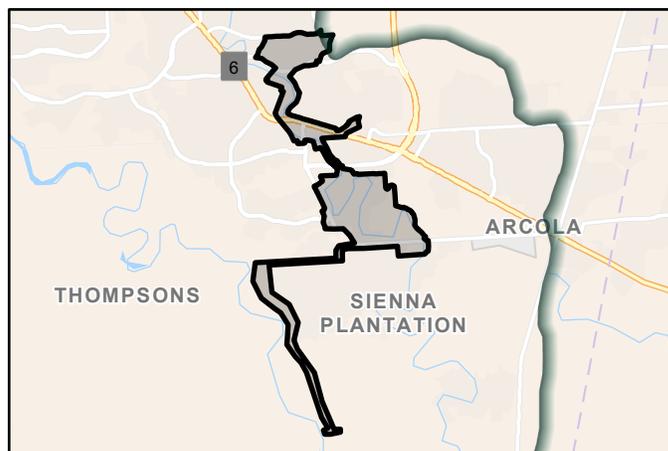
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

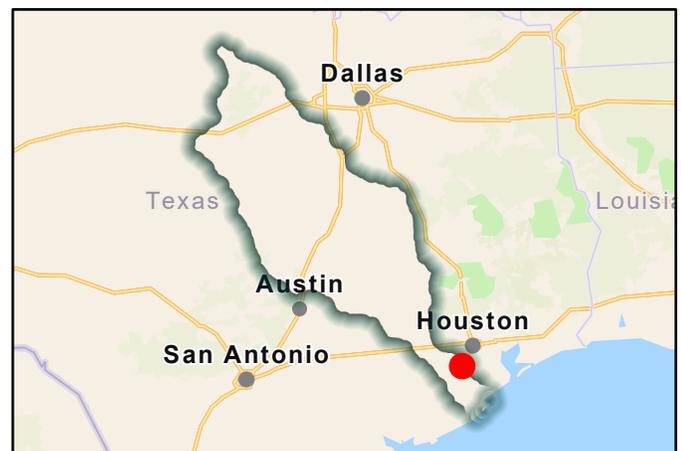
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

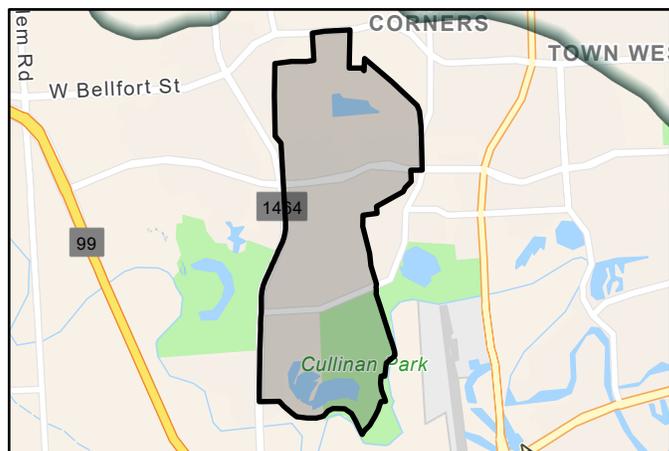
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

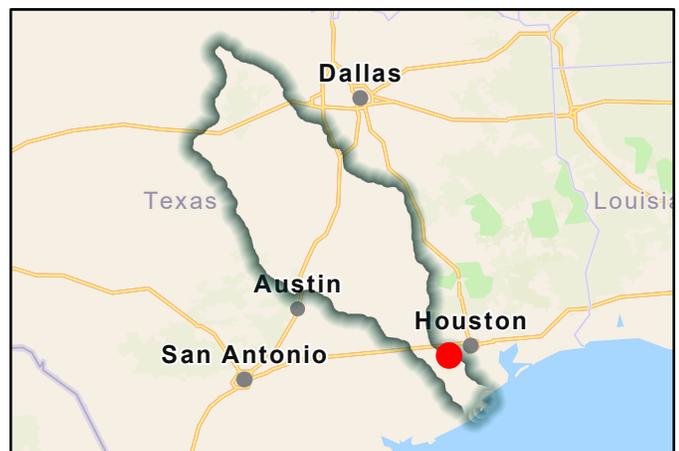
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title **Bullhead Bayou Channels and Detention**

ID# **083000843** Sponsor **00000009**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) **120701040402,120402050100** Emergency Need? **Yes**

Associated FMP's **083000838,083000841,083000834,083000847,083000853** Drainage area (mi² est.) **6**

County **Fort Bend** Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **Yes** Playa? **No** Other? **No**

Population at risk **700** # of structures **56** Critical facilities **0**

Farm/Ranch land impacted (acres) **1,729** Roadway(s) impacted (length) **9**

Number of low water crossings **0** Historical road closures **60**

100-Year Flood Risk Reduction

Population removed from 100-yr **396** # of structures removed from 100-yr **44**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **637**

Road removed from 100-yr (miles) **5** Low water crossings removed from 100-yr **0**

Other benefits **Agricultural, recreation, and water quality benefits.** Reduction in # of road closures over 10 years **41**

Impacts

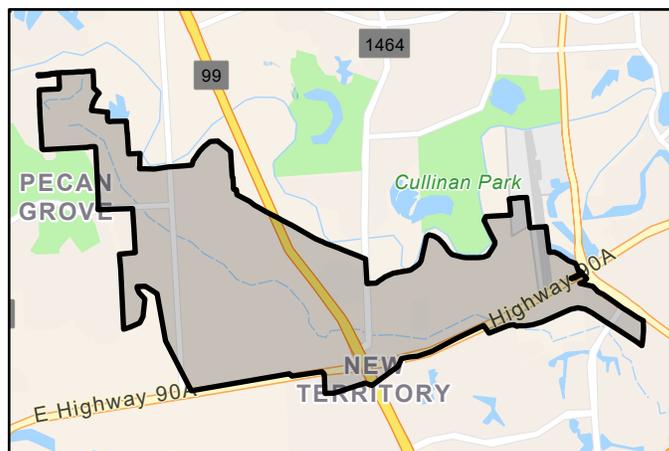
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **N/A**

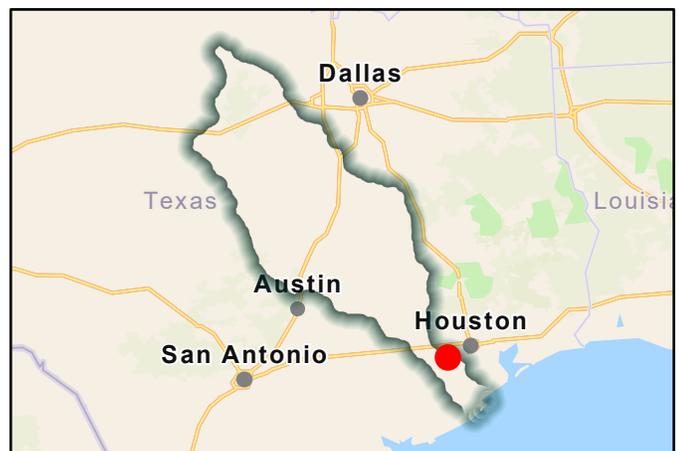
Estimated Cost

Project Cost **\$62,498,000** % Nature-Based **0%** BCR **0.008**

Recurring costs **\$2,583,000** Issues **Right-of-way, permitting, utility conflicts, environmental concerns**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations, addition of in-line detention.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

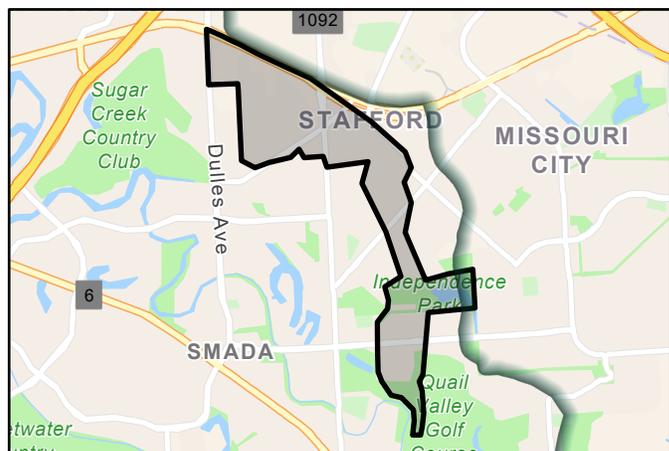
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

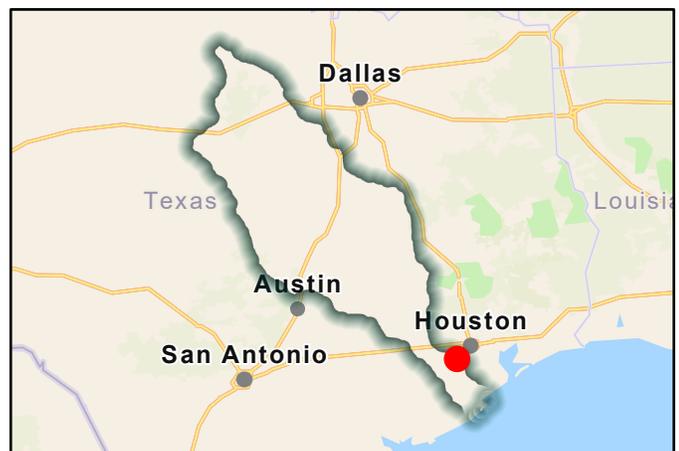
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements and re-configurations at several key locations.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

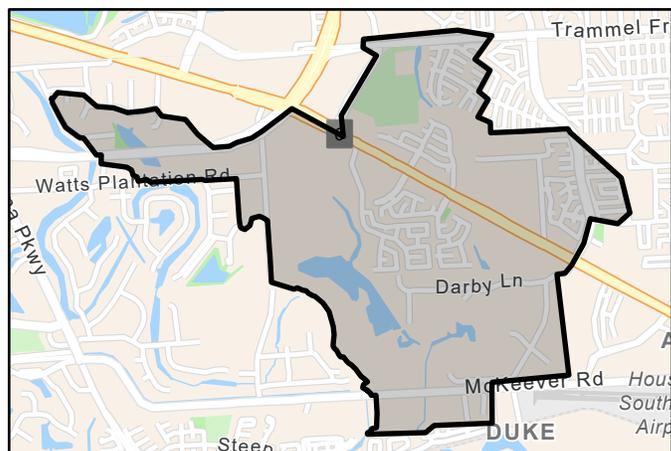
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

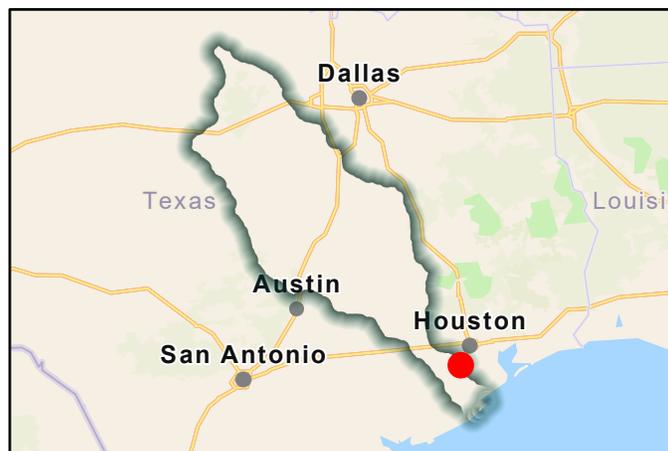
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Proposal of regional detention basin.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

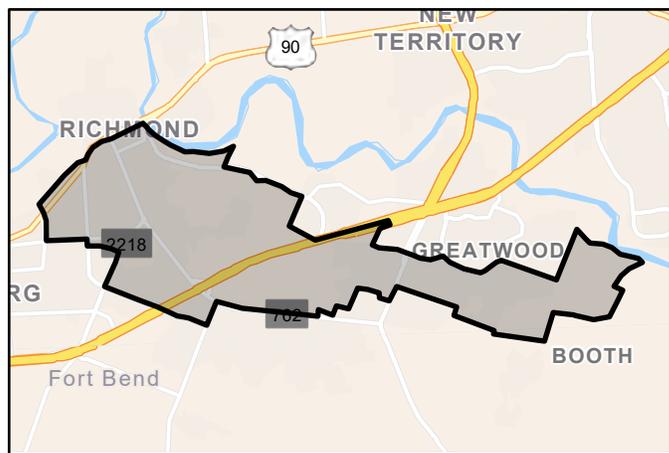
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



Flood Mitigation Project (FMP)

Title Hazelwood Crossing
ID# 083001062 Sponsor 08000138

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line with the TWDB requirements.

Project Description

Construction of a bridge to allow for neighborhood access during storm events.

Watershed HUC# (if known) 120602020801 Emergency Need? Yes
Drainage area (mi² est.) 1
Associated FMP's County McLennan
Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No
Population at risk 0 # of structures 0 Critical facilities 0
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0
Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

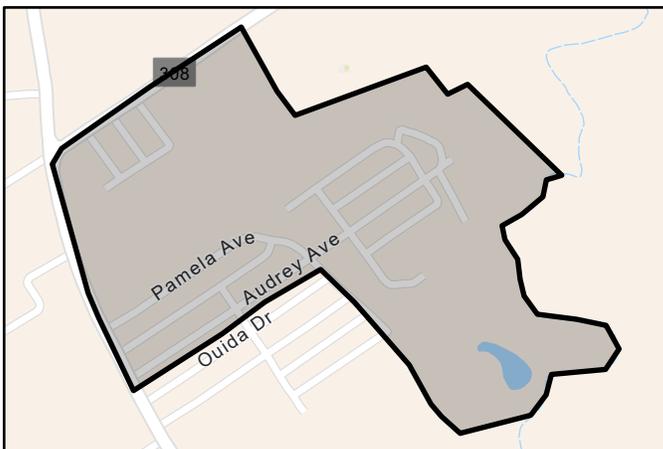
Population removed from 100-yr 0 # of structures removed from 100-yr 0
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0
Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0
Other benefits Road will be repaved when implementing bridge Reduction in # of road closures over 10 years 0

Impacts

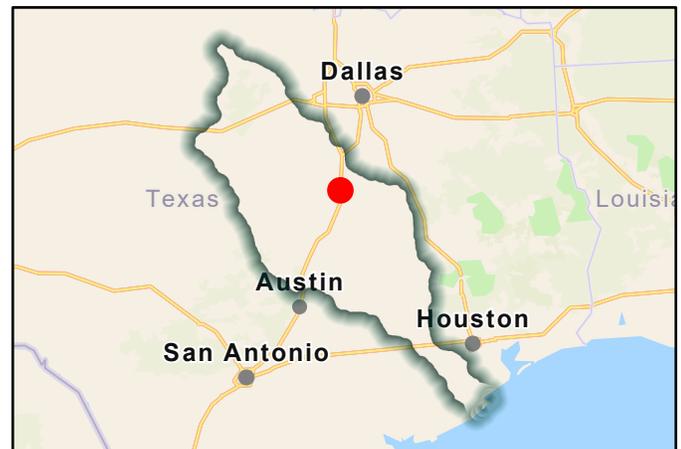
Negative impacts? No Negative impacts description N/A
Water supply contributions? No Water supply contribution description N/A

Estimated Cost

Project Cost \$616,000 % Nature-Based 0% BCR 0.004
Recurring costs \$24,000 Issues Right-of-way, acquisitions, permitting, utility conflicts, environmental



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title **Benching along Sulphur Creek Tributary**

ID# **083001290** Sponsor **08003133**

RFPG recommend? **Yes** Reason for Recommendation **Provided by sponsor and is in line with the TWDB requirements.**

Project Description

Benching along Sulphur Creek tributary.

Watershed HUC# (if known) **120702030306** Emergency Need? **No**

Drainage area (mi² est.) **1**

Associated FMP's County **Lampasas**

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? **Yes** Coastal? **No** Local? **No** Playa? **No** Other? **No**

Population at risk **32** # of structures **15** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0**

Number of low water crossings **1** Historical road closures **6**

100-Year Flood Risk Reduction

Population removed from 100-yr **17** # of structures removed from 100-yr **6**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **0**

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years **1**

Impacts

Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **N/A**

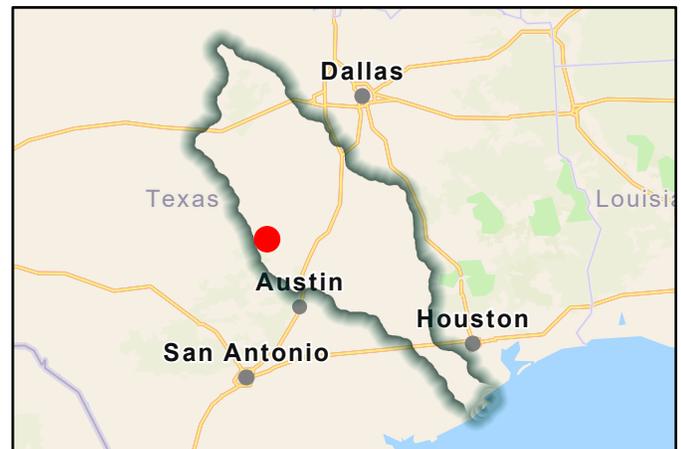
Estimated Cost

Project Cost **\$1,132,000** % Nature-Based **0%** BCR **0.26**

Recurring costs **\$0** Issues **Right-of-way, permitting, utility conflicts, environmental concerns**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel and crossing improvements along Cemetery Creek - tributary to Sulphur Creek.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

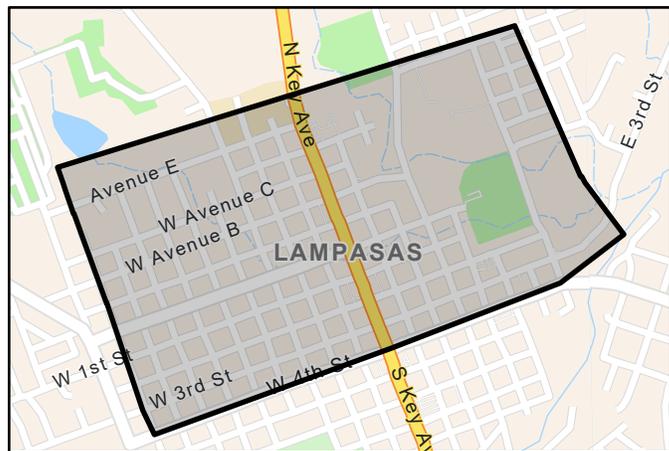
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

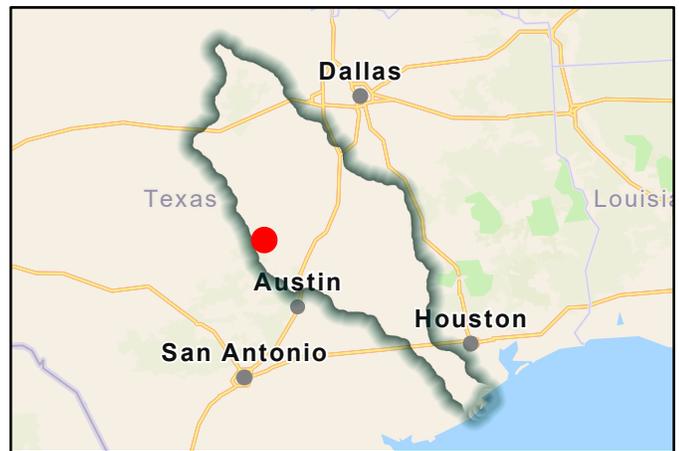
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Addition of detention and channel benching

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

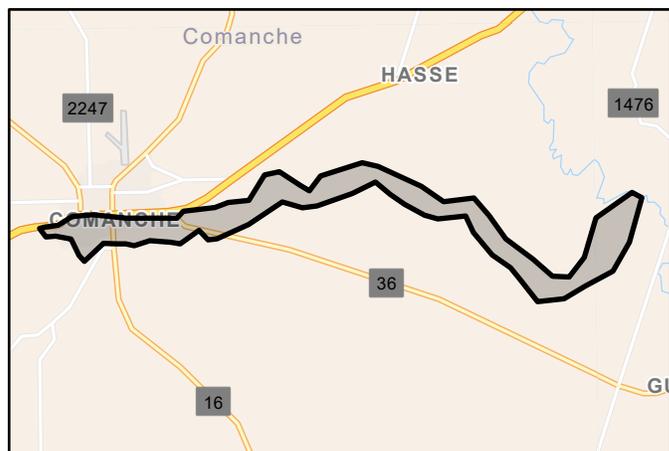
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

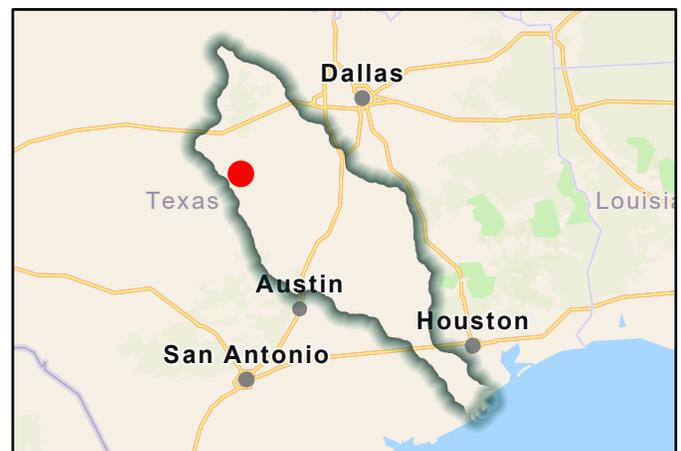
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Includes channel excavation, creation of an additional channel, and (5)10'x6' RCB

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

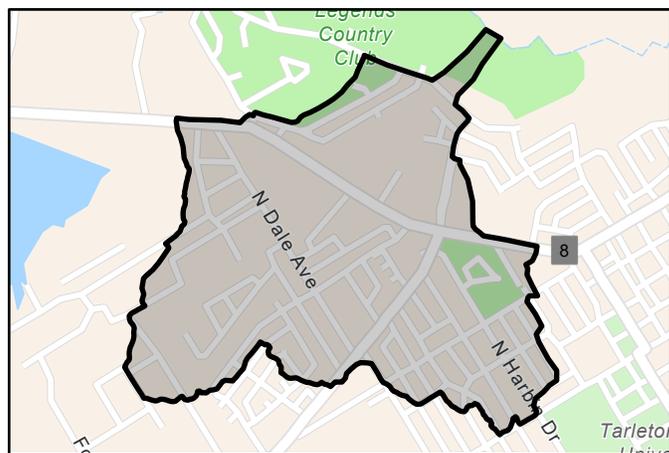
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Includes (4)10'x6' RCB and upstream grading

Watershed HUC# (if known)

Emergency Need?

Drainage area (mi² est.)

Associated FMP's

County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

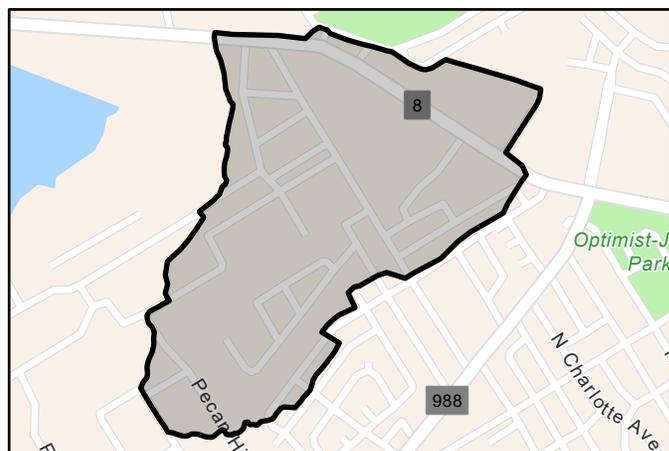
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Includes raising the road, (7)10'x9' RCB, and grading along the river

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

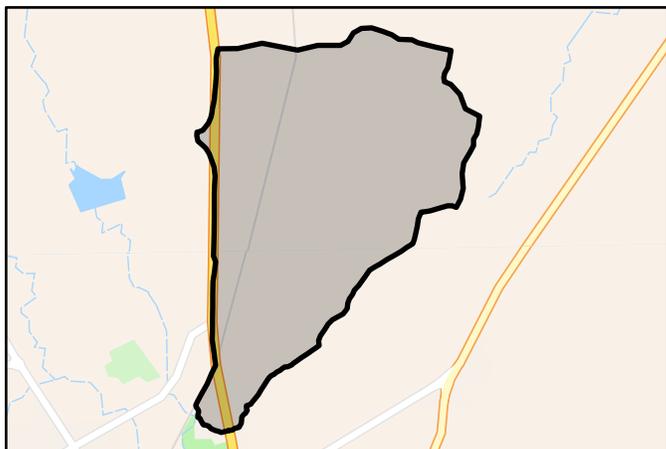
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

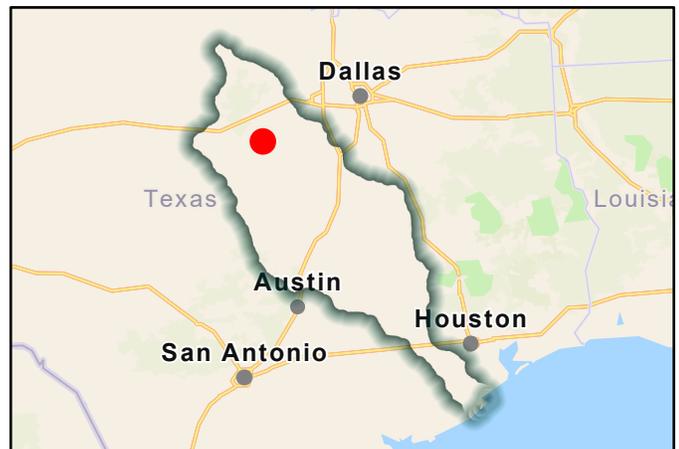
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Includes installing a 425' span bridge with road elevation on either side

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

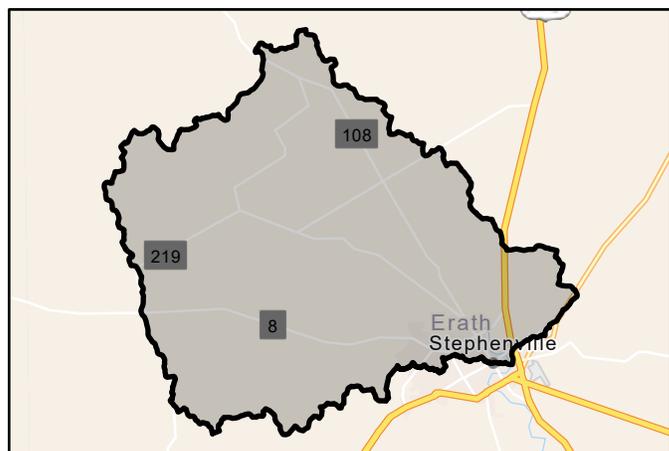
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

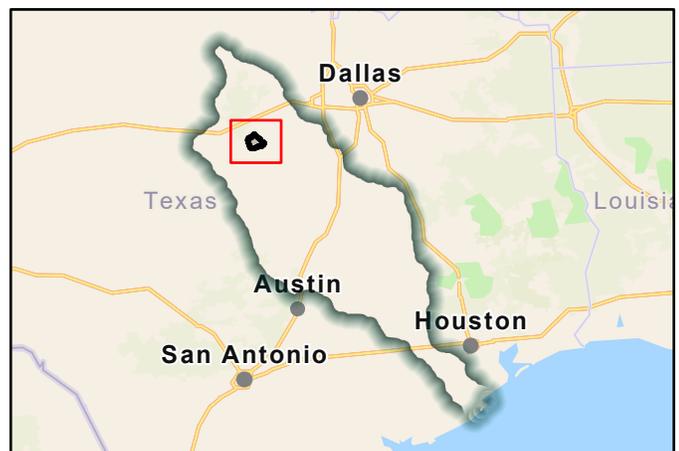
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Detention pond, channel improvements, and culvert improvements.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

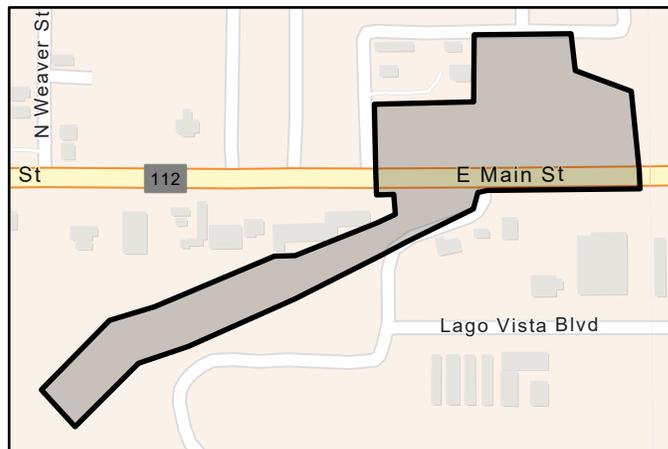
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

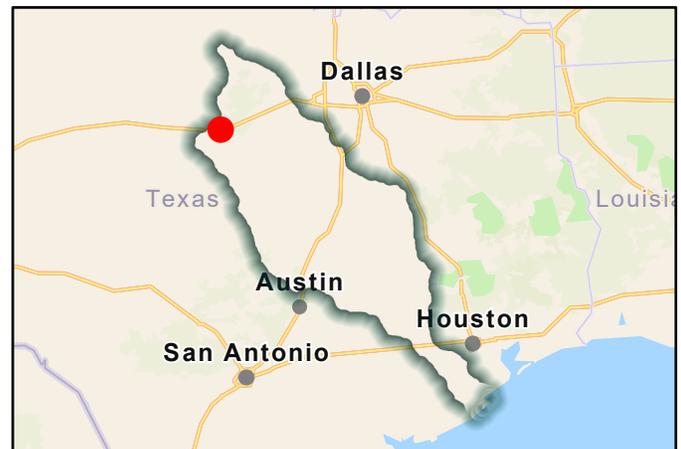
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Culvert improvements; upstream and downstream channel improvements.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

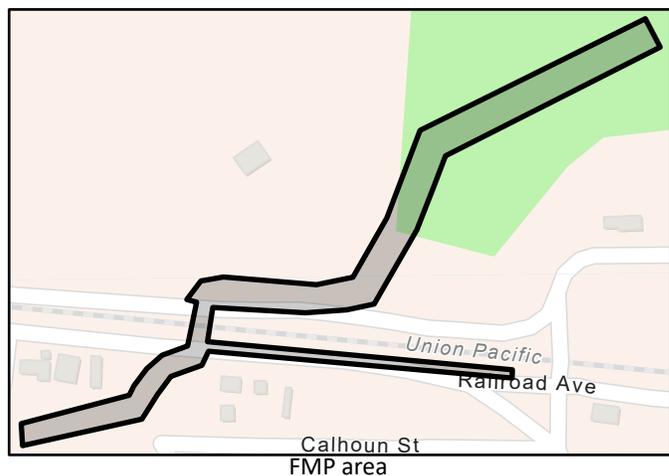
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Reconstruction of primary Lake Eastland spillway.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

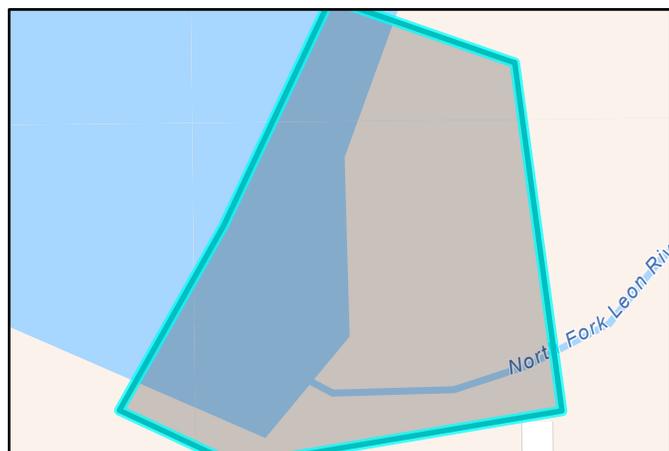
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

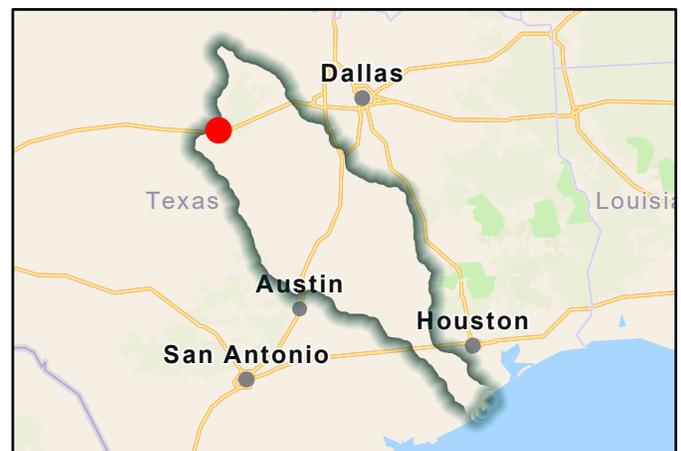
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title
ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Proposed storm drainage system located along Summit Circle, Kingston Circle, Mallard Lane, and Greenlawn Drive. Approximately 2,000 linear ft.

Watershed HUC# (if known) Emergency Need?
Drainage area (mi² est.)
Associated FMP's County
Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?
Population at risk # of structures Critical facilities
Farm/Ranch land impacted (acres) Roadway(s) impacted (length)
Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

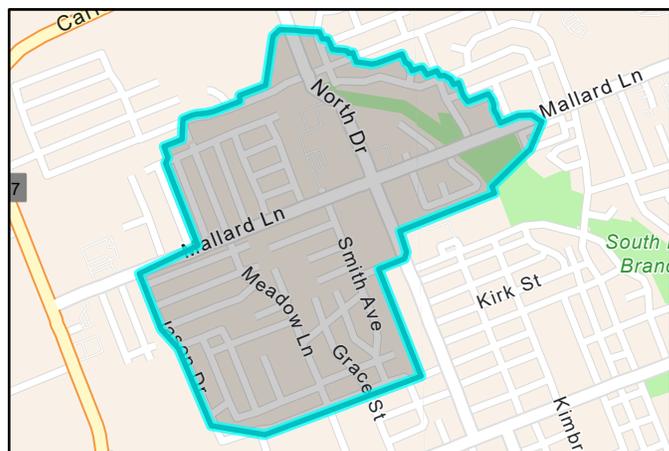
Population removed from 100-yr # of structures removed from 100-yr
Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)
Road removed from 100-yr (miles) Low water crossings removed from 100-yr
Other benefits Reduction in # of road closures over 10 years

Impacts

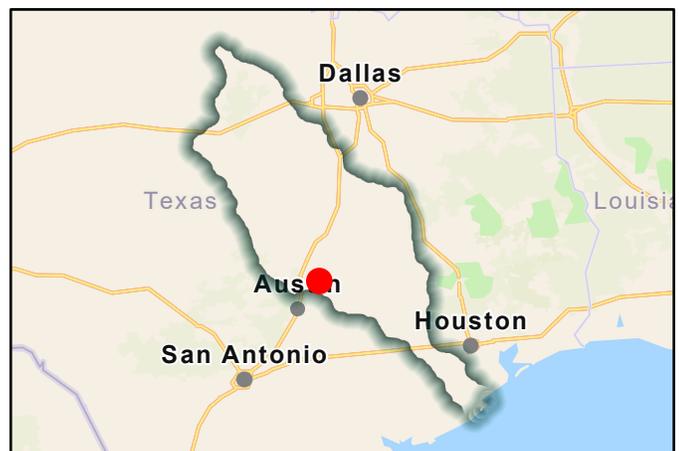
Negative impacts? Negative impacts description
Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR
Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title TH Johnson
ID# 083001307 Sponsor 08003480

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line iwth the TWDB requirements.

Project Description

Proposed channel located south of TH Johnson Drive and discharging into Bull Branch, including approximately 500 feet of new concrete channel, and the installation of 3 RCB culverts at Crystal Circle

Watershed HUC# (if known) 120702050405
Emergency Need? No
Drainage area (mi² est.) 1
County Williamson
Associated FME's
Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? Yes Playa? No Other? No
Population at risk 30 # of structures 10 Critical facilities 0
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0
Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

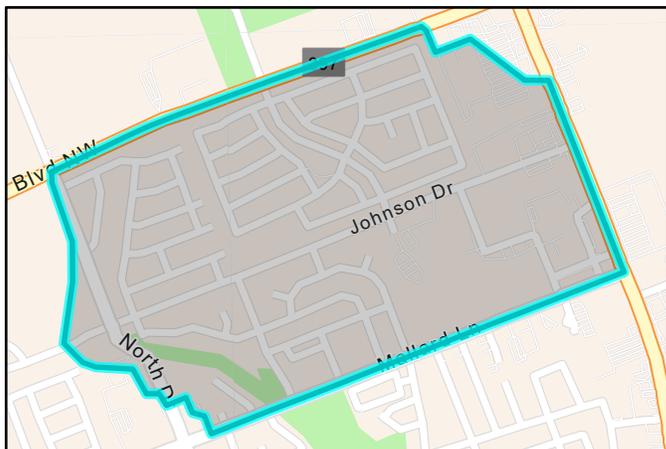
Population removed from 100-yr 0 # of structures removed from 100-yr 0
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0
Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0
Other benefits None Reduction in # of road closures over 10 years 0

Impacts

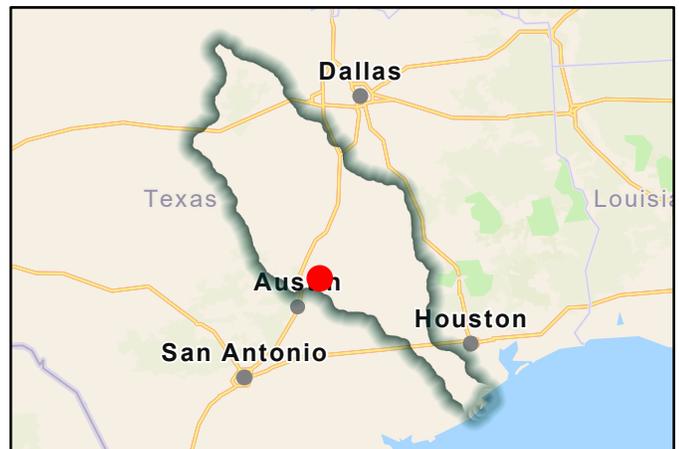
Negative impacts? No Negative impacts description N/A
Water supply contributions? No Water supply contribution description N/A

Estimated Cost

Project Cost \$489,000 % Nature-Based 0% BCR 0
Recurring costs \$0 Issues None identified at this time.



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Proposed storm sewer along Davis Street from 8th Street to 2nd Street that discharges to the existing outfall in the railroad drainage ditch to the north of the railroad and ties into 2nd st existing drainage system. Approximately 3,750 linear ft of RCP.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

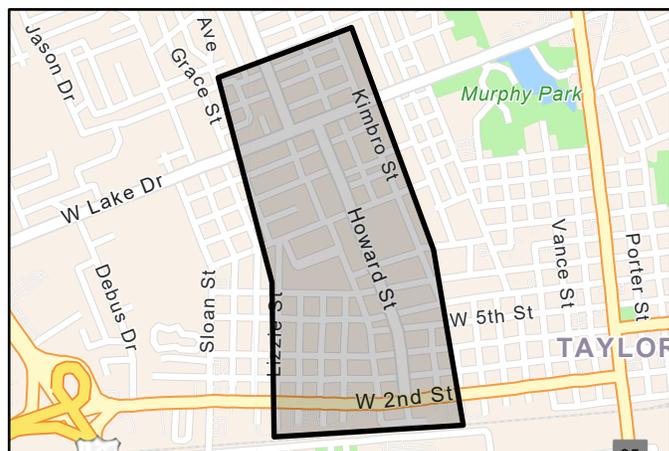
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

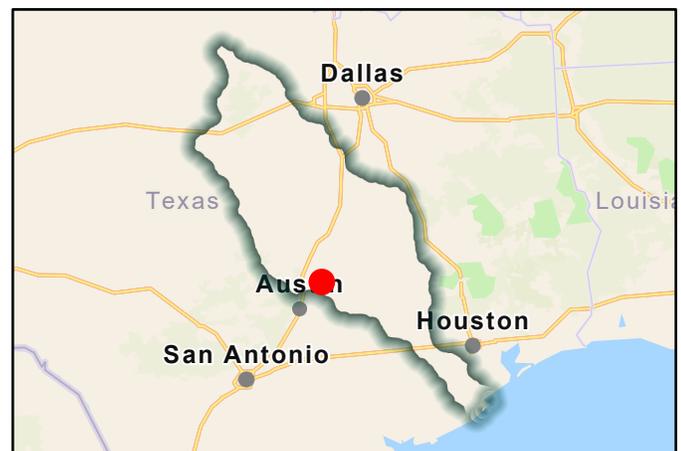
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Proposed storm sewer system located along Bel-Air Drive, Dellinger Drive, and Randall Street that discharges into Bull Branch. Approximately 1,365 linear ft.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

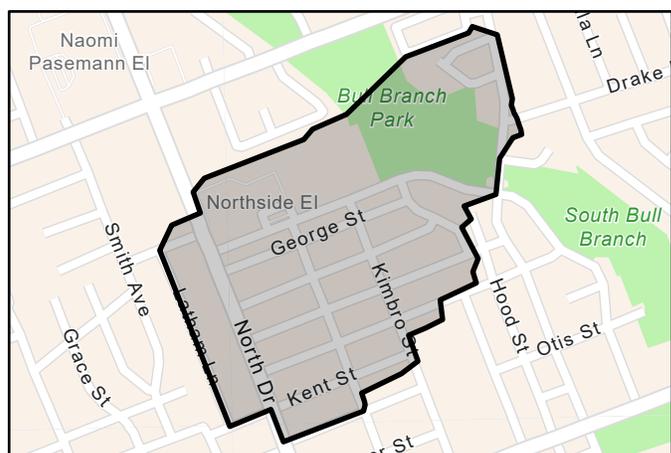
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

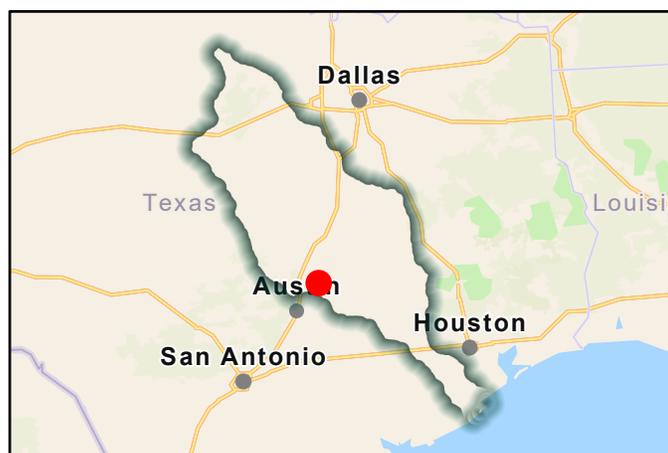
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Proposed storm sewer along Annie Street, Howard Street, and 7th Street that discharges to a new outfall in the railroad drainage ditch to the south of 2nd street. Approximately 4,000 linear ft of RCP.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

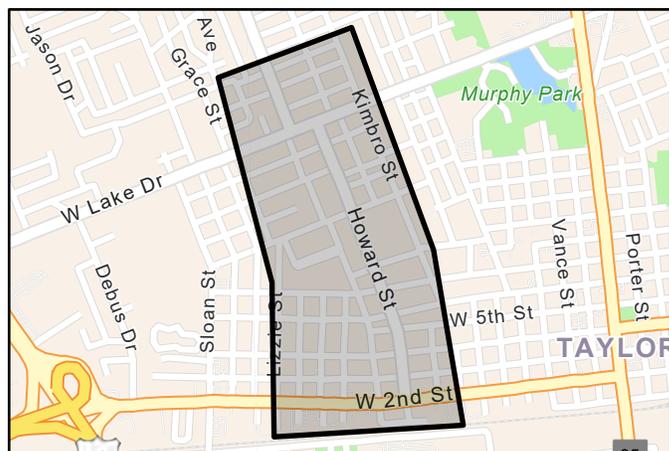
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

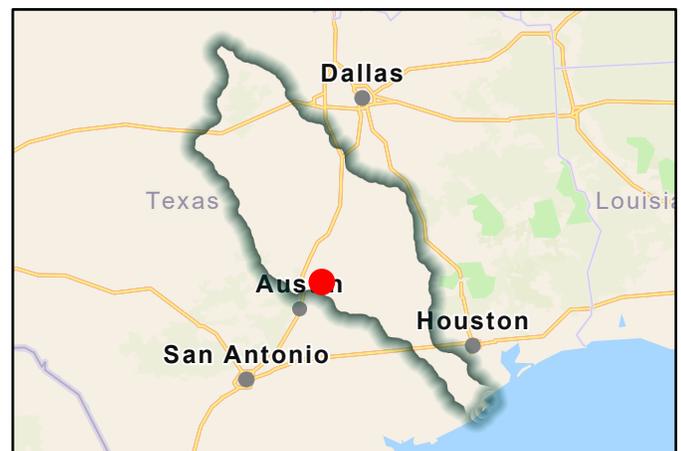
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title Sun Valley Neighborhood Levee
ID# 083001311 Sponsor 08003293

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line iwth the TWDB requirements.

Project Description

Buyouts, construction of levee, and storm sewer.

Watershed HUC# (if known) 120702010902 Emergency Need? No
Drainage area (mi² est.) 8
Associated FMP's County Coryell
Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Population at risk 129 # of structures 43 Critical facilities 0
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0
Number of low water crossings 0 Historical road closures 1

100-Year Flood Risk Reduction

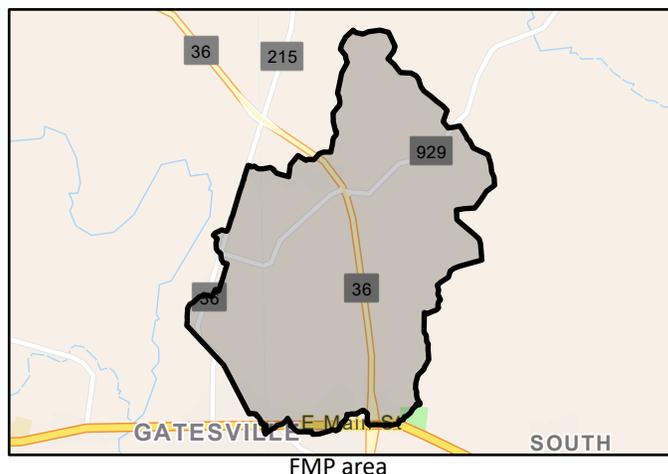
Population removed from 100-yr 129 # of structures removed from 100-yr 43
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 70
Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0
Other benefits None Reduction in # of road closures over 10 years 1

Impacts

Negative impacts? No Negative impacts description N/A
Water supply contributions? No Water supply contribution description N/A

Estimated Cost

Project Cost \$1,594,290 % Nature-Based 0% BCR 1.38
Recurring costs \$60,891 Issues None identified at this time.



Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Includes raising the road and adding culverts at crossing.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

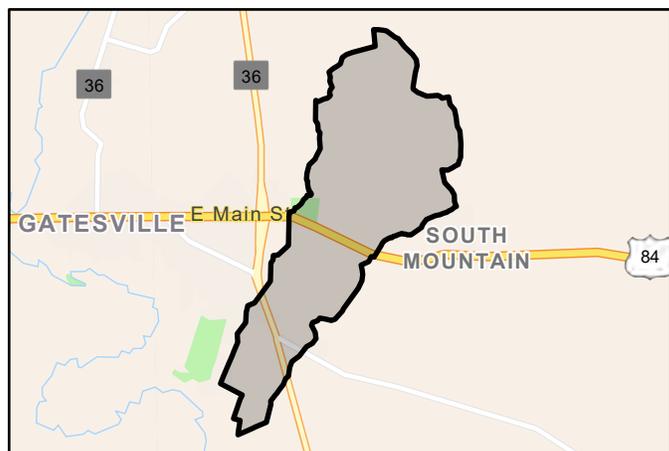
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

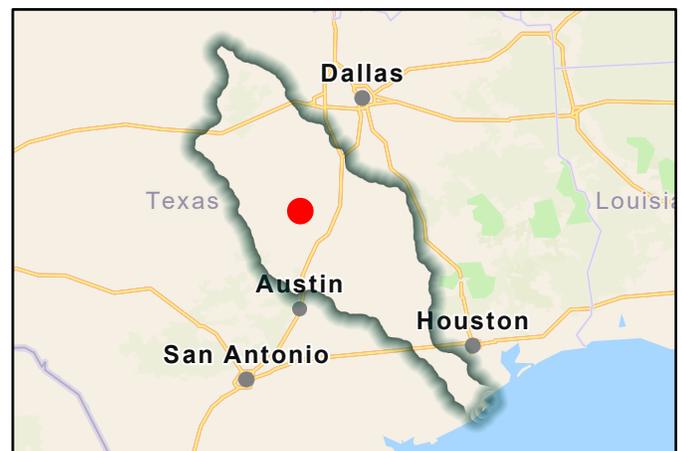
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Construction of ring parapet.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

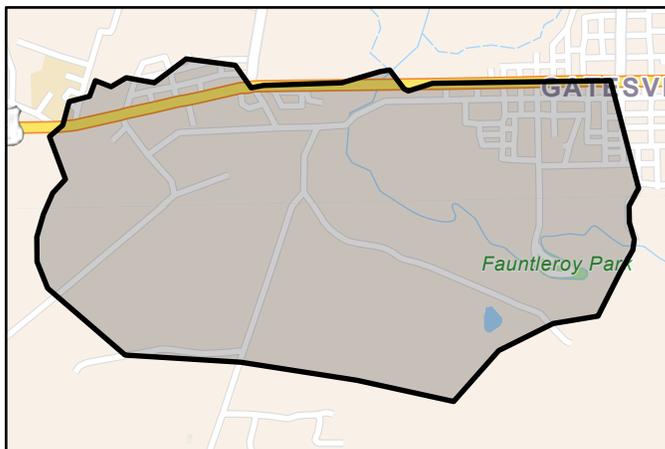
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Construction of arch culvert and channel improvements.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

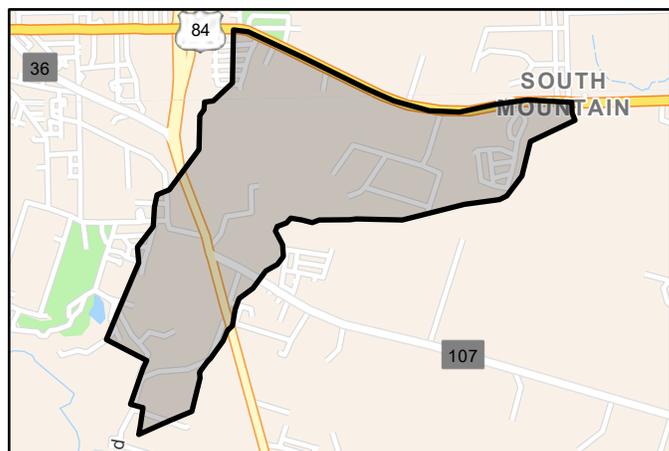
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title SH 36 Culverts
ID# 083001315 Sponsor 08003293

RFPG recommend? Yes Reason for Recommendation Provided by sponsor and is in line iwth the TWDB requirements.

Project Description

Construction of 2 additional culverts at crossing.

Watershed HUC# (if known) 120702010902 Emergency Need? No
Drainage area (mi² est.) 2
Associated FMP's County Coryell
Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Yes Coastal? No Local? No Playa? No Other? No
Population at risk 0 # of structures 0 Critical facilities 0
Farm/Ranch land impacted (acres) 0 Roadway(s) impacted (length) 0
Number of low water crossings 0 Historical road closures 0

100-Year Flood Risk Reduction

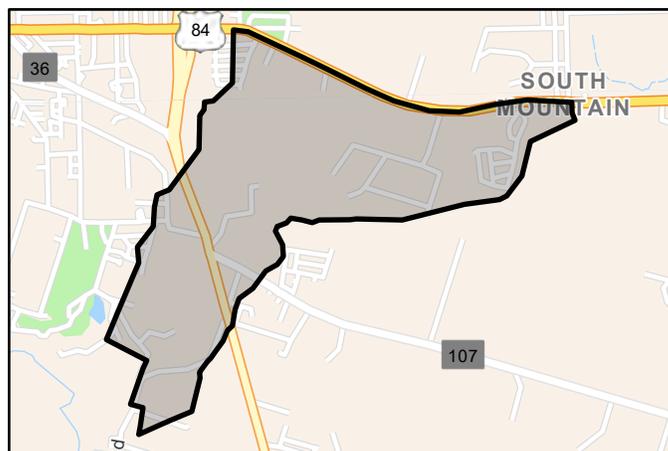
Population removed from 100-yr 3 # of structures removed from 100-yr 1
Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) 0
Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0
Other benefits None Reduction in # of road closures over 10 years 0

Impacts

Negative impacts? No Negative impacts description N/A
Water supply contributions? No Water supply contribution description N/A

Estimated Cost

Project Cost \$328,000 % Nature-Based 0% BCR 0
Recurring costs \$0 Issues None identified at this time.



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Construction of culvert and channel improvements.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FMP's County

Associated FME's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

Farm/Ranch land impacted (acres) Roadway(s) impacted (length)

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

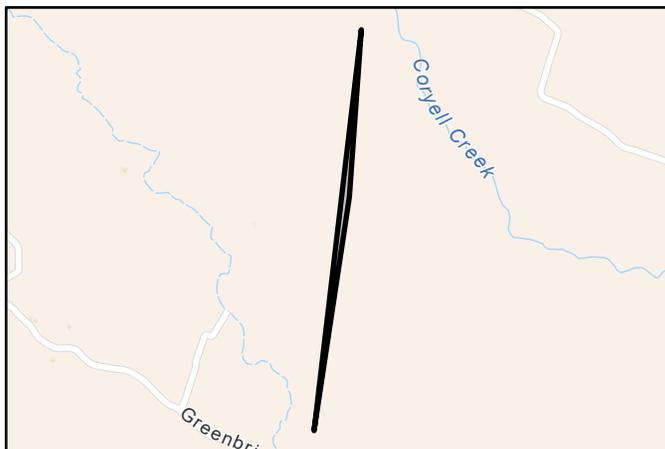
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Appendix 5.8

Appendix 5.8 - Additional Project Details

General Project Data														
Project Name	FMP	Project Description:	Flood Region	Project Type	FIUP Project Category	Project Watershed	Rural Applicant	Project Cost	Benefit Cost Ratio	Cost per Structure Removed	Pre-Project Level-of-Service	Post-Project Level-of-Service	# of Structures in 1% Annual Chance FP (Pre-Project)	Project Status
826 and 827 Vine Street Property Flooding	083000709	Structural buyouts at the identified locations.	Lower Brazos Region	Property Acquisition	Category 2	Bee Creek-Carters Creek	N	\$600,000	1.000	\$300,000	Unknown	100-year	0	Planning
Bryan Boonville and Briarcrest Bridges	083000712	Addition of bridges, channel benching, and detention	Lower Brazos Region	Comprehensive	Category 2	Navasota	N	\$12,313,040	0.085	\$2,179,500	10-year	100-year	29	Planning
Bessie's and Brookshire Creek Channel Improvements	083000784	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Bessie's Creek Watershed	N	\$285,000,000	0.018	\$1,338,000	2-year	100-year	834	Planning
Bee Creek Channel Improvements	083000786	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Bee Creek Watershed	Y	\$38,771,000	0.000	N/A	5-year	100-year	19	Planning
Big Creek Channel Improvements	083000797	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Big Creek Watershed	Y	\$662,333,000	0.010	\$1,125,000	2-year	100-year	628	Planning
Coon Creek Channel Improvements	083000800	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Coon Creek Watershed	N	\$141,439,000	0.029	\$514,000	2-year	100-year	276	Planning
Cow Creek Channel Improvements	083000801	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Cow Creek Watershed	N	\$119,191,000	0.004	\$3,506,000	5-year	100-year	144	Planning
Cottonwood Creek Channel Improvements	083000805	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Cottonwood Creek Watershed	N	\$182,426,000	0.010	\$1,361,000	2-year	100-year	134	Planning
Diversions Channel Ditch and Drop Structure	083000809	Channel re-configuration to re-direct flow from Big Creek. Improvements to drop structure to have capacity for this increased flow.	Lower Brazos Region	Regional Channel Improvements	Category 2	Diversions Ditch and Drop Structure	Y	\$266,699,000	0.000	N/A	2-year	100-year	8	Planning
Dry Creek Channel Improvements	083000811	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Dry Branch Watershed	N	\$133,315,000	0.046	\$262,000	2-year	100-year	635	Planning
Dutch John Channel Improvements	083000814	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Dutch John Watershed	Y	\$39,101,000	0.003	N/A	2-year	100-year	12	Planning
Fairchild Creek Channel Improvements	083000817	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Fairchild Creek Watershed	Y	\$190,448,000	0.054	\$142,000	2-year	100-year	949	Planning
Flewellen Creek Channel Improvements	083000818	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Flewellen Creek Watershed	N	\$542,725,000	0.004	\$9,357,000	2-year	100-year	77	Planning

Appendix 5.8 - Additional Project Details

Project Name	Severity of Flood Risk								Flood Risk Reduction								
	Average Flood Depth (100yr)	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Score 1	Communities Served by Project	Community Population Served	Flood Plain Population	Severity Ranking: Community Need (% Population)	Score 2	# of Structures Removed from 1% Annual Chance FP	Flood Risk Reduction	Score 3	# of Structures with Reduced 1% Annual Chance Flood Risk	Pre-Project Damage \$	Post-Project Damage \$	Column1	Flood Damage Reduction	Score 4
826 and 827 Vine Street Property Flooding	Unknown	Baseline average flood depth < 0.5ft	2	City of Bryan	83,980	0	<25% of project community affected	1	0	Reduced risk to >75% of structures in	10	2	-	-	-	Flood damage reduction >95%	10
Bryan Boonville and Briarcrest Bridges	1	Baseline average flood depth > 1ft	6	1	543	121	<25% of project community affected	1	10	Reduced risk to <10% of structures in floodplain	1	10	\$9,446,614	\$965,948	0.8977	Flood damage reduction > 75%	8
Bessie's and Brookshire Creek Channel Improvements	2.3	Baseline average flood depth > 2ft	8	Fort Bend County	818,912	1095	<25% of project community affected	1	148	Reduced risk to <50% of structures in floodplain	4	148	\$22,241,944	\$1,780,273	0.9200	Flood damage reduction > 75%	8
Bee Creek Channel Improvements	1	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	11	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$79,300	\$79,300	0.0000	Flood damage reduction < 25%	2
Big Creek Channel Improvements	1.3	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	940	<25% of project community affected	1	5	Reduced risk to >75% of structures in floodplain	10	15	\$51,327,573	\$2,325,806	0.9547	Flood damage reduction >95%	10
Coon Creek Channel Improvements	1.2	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	506	<25% of project community affected	1	1	Reduced risk to >75% of structures in floodplain	10	1	\$19,050,793	\$44,697	0.9977	Flood damage reduction >95%	10
Cow Creek Channel Improvements	1.2	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	180	<25% of project community affected	1	2	Reduced risk to <50% of structures in floodplain	4	2	\$6,639,815	\$568,705	0.9143	Flood damage reduction > 75%	8
Cottonwood Creek Channel Improvements	1.1	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	260	<25% of project community affected	1	0	Reduced risk to >75% of structures in floodplain	10	0	\$6,942,108	\$0	1.0000	Flood damage reduction >95%	10
Diversion Channel Ditch and Drop Structure	4.3	Baseline average flood depth > 3.5ft	10	Fort Bend County	818,912	1	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$1,312,722	\$1,312,552	0.0001	Flood damage reduction < 25%	2
Dry Creek Channel Improvements	0.54	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	738	<25% of project community affected	1	126	Reduced risk to >75% of structures in floodplain	10	126	\$28,768,898	\$4,277,161	0.8513	Flood damage reduction > 75%	8
Dutch John Channel Improvements	0.75	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	36	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$1,906,907	\$1,906,907	0.0000	Flood damage reduction < 25%	2
Fairchild Creek Channel Improvements	0.88	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	1385	<25% of project community affected	1	18	Reduced risk to >75% of structures in floodplain	10	18	\$35,325,140	\$811,552	0.9770	Flood damage reduction >95%	10
Flewellen Creek Channel Improvements	1.3	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	136	<25% of project community affected	1	19	Reduced risk to >75% of structures in	10	19	\$15,543,210	\$1,777,826	0.8856	Flood damage reduction > 75%	8

Appendix 5.8 - Additional Project Details

Project Name	Flood Risk Reduction							Water Supply Yield					SVI Score
	# of Critical Facilities Removed from 1% Annual Chance FP	Reduction in Critical Facilities Flood Risk	Score 5	Adjusted Injury Risk (%)	Column2	Life and Safety Ranking (Injury/Loss of Life)	Score 6	Water Supply Benefit in Acre-Feet	SourceID	WMS_ID	Water Supply Yield Ranking	Score 7	
826 and 827 Vine Street Property Flooding	0	Reduced risk for 0 structures in floodplain	0	2.500%	2.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.59
Bryan Boonville and Briarcrest Bridges	0	Reduced risk for 0 structures in floodplain	0	22.500%	22.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.39
Bessie's and Brookshire Creek Channel Improvements	1	Reduced risk for 0 structures in floodplain	0	11.592		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.06
Bee Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	10.08		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.47
Big Creek Channel Improvements	1	Reduced risk for <10% of critical facilities in floodplain	1	15.19		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.39
Coon Creek Channel Improvements	0	Reduced risk for >75% of critical facilities in floodplain	10	7.728		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.52
Cow Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	9.408		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.52
Cottonwood Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	5.94		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.51
Diversion Channel Ditch and Drop Structure	0	Reduced risk for 0 structures in floodplain	0	22.512		Life/injury risk percentage >20%	4	0	N/A	N/A	No impact on water supply	0	0.27
Dry Creek Channel Improvements	0	Reduced risk for >75% of critical facilities in floodplain	10	2.5596		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.35
Dutch John Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	4.905		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.27
Fairchild Creek Channel Improvements	1	Reduced risk for >75% of critical facilities in floodplain	0	8.976		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.54
Flewellen Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	7.8		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.05

Appendix 5.8 - Additional Project Details

Social Vulnerability			Nature-Based Solutions			Multiple Benefits			Operation and Maintenance		
Project Name	Social Vulnerability Ranking	Score 8	% Nature Based Solution by Cost	Nature-Based Solutions Ranking	Score 9	Multiple Benefits Description	Multiple Benefit Ranking	Score 10	O&M Cost (Annual)	Operations and Maintenance Ranking	Score 11
826 and 827 Vine Street Property Flooding	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation benefits	Project delivers benefits in only 1 wider benefit category	1	\$0	Project will not require any ongoing operation and maintenance (low);	10
Bryan Boonville and Briarcrest Bridges	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Road will be repaved when implementing crossing improvements.	Project delivers benefits in only 1 wider benefit category	1		Project will not require any ongoing operation and maintenance (low);	10
Bessie's and Brookshire Creek Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$742,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Bee Creek Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$194,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Big Creek Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$936,000	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Coon Creek Channel Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$396,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Cow Creek Channel Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$343,600	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Cottonwood Creek Channel Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$524,800	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Diversions Channel Ditch and Drop Structure	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	No other benefits.	Project does not deliver any wider benefits	0	\$240,000	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Dry Creek Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$415,200	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Dutch John Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$160,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Fairchild Creek Channel Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$425,200	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Flewellen Creek Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$261,200	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7

Appendix 5.8 - Additional Project Details

Potential Obstacles			Environmental Benefits		Environmental Impacts		Mobility Benefits	
Project Name	Administrative, Regulatory and Other Obstacle Ranking	Score 12	Environmental Benefit Ranking	Score 13	Environmental Impact Ranking	Score 14	Mobility Ranking	Score 15
826 and 827 Vine Street Property Flooding	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project provides no change to major, minor, or emergency access routes in the project area.	0
Bryan Boonville and Briarcrest Bridges	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Bessie's and Brookshire Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Bee Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 1 environmental category	6	Project provides no change to major, minor, or emergency access routes in the project area.	0
Big Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Coon Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Cow Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Cottonwood Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Diversion Channel Ditch and Drop Structure	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Dry Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Dutch John Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Fairchild Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Flewellen Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project provides no change to major, minor, or emergency access routes in the project area.	0

Appendix 5.8 - Additional Project Details

General Project Data														
Project Name	FMP	Project Description:	Flood Region	Project Type	FIUP Project Category	Project Watershed	Rural Applicant	Project Cost	Benefit Cost Ratio	Cost per Structure Removed	Pre-Project Level-of-Service	Post-Project Level-of-Service	# of Structures in 1% Annual Chance FP (Pre-Project)	Project Status
Gapps Slough Channel Improvements	083000820	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Gapps Slough Watershed	N	\$48,302,000	0.046	\$295,000	2-year	100-year	295	Planning
Jones Creek Channel Improvements	083000821	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Jones Creek Watershed	N	\$556,012,000	0.007	\$11,830,000	2-year	100-year	829	Planning
Lateral IIB-7 & IIB-9 Channel Improvements	083000823	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Big Creek Watershed	N	\$62,287,000	0.024	\$498,000	2-year	100-year	144	Planning
Lower Dry Creek Channel Improvement	083000827	Channel improvements and re-configurations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Dry Creek Watershed	N	\$110,716,000	0.027	N/A	2-year	100-year	343	Planning
Seabourne Creek Channel Improvements	083000828	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Seabourne Creek Watershed	N	\$104,974,000	0.052	\$183,000	2-year	100-year	577	Planning
Turkey Creek Channel Improvements	083000829	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Turkey Creek Watershed	Y	\$86,161,000	0.004	\$3,916,000	5-year	100-year	39	Planning
Oyster Creek Channel Improvements	083000834	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Oyster Creek Watershed	N	\$315,176,000	0.000	N/A	2-year	100-year	385	Planning
Lower Oyster Creek Channel Improvements	083000838	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Lower Oyster Creek Watershed	N	\$125,690,000	0.000	N/A	2-year	100-year	60	Planning
Red Gully Channel Improvements	083000841	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Red Gully Watershed	N	\$46,719,000	0.056	N/A	2-year	100-year	579	Planning
Bullhead Bayou Channels and Detention	083000843	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Bullhead Bayou Watershed	N	\$62,498,000	0.008	\$1,420,000	2-year	100-year	56	Planning
Stafford Run Channels and Detentions	083000847	Channel improvements and re-configurations at several key locations, addition of in-line detention.	Lower Brazos Region	Regional Channel Improvements	Category 2	Stafford Run Watershed	N	\$15,612,000	0.000	N/A	2-year	100-year	160	Planning
Long Point Creek Channel Improvements	083000853	Channel improvements and re-configurations at several key locations.	Lower Brazos Region	Regional Channel Improvements	Category 2	Long Point Creek Watershed	N	\$8,760,000	0.000	\$2,190,000	2-year	100-year	39	Planning

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Project Name	Severity of Flood Risk								Flood Risk Reduction								
	Average Flood Depth (100yr)	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Score 1	Communities Served by Project	Community Population Served	Flood Plain Population	Severity Ranking: Community Need (% Population)	Score 2	# of Structures Removed from 1% Annual Chance FP	Flood Risk Reduction	Score 3	# of Structures with Reduced 1% Annual Chance Flood Risk	Pre-Project Damage \$	Post-Project Damage \$	Column1	Flood Damage Reduction	Score 4
Gapps Slough Channel Improvements	1.7	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	492	<25% of project community affected	1	5	Reduced risk to <75% of structures in floodplain	7	5	\$15,590,932	\$805,104	0.9484	Flood damage reduction >95%	10
Jones Creek Channel Improvements	1	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	1594	<25% of project community affected	1	179	Reduced risk to <10% of structures in floodplain	1	179	\$46,896,531	\$22,971,567	0.5102	Flood damage reduction > 50%	6
Lateral IIB-7 & IIB-9 Channel Improvements	0.49	Baseline average flood depth < 0.5ft	2	Fort Bend County	818,912	164	<25% of project community affected	1	19	Reduced risk to >75% of structures in floodplain	10	19	\$5,056,011	\$269,314	0.9467	Flood damage reduction > 75%	8
Lower Dry Creek Channel Improvement	3.1	Baseline average flood depth > 2ft	8	Fort Bend County	818,912	489	<25% of project community affected	1	2	Reduced risk to 0 structures in floodplain	0	2	\$7,169,665	\$79,508	0.9889	Flood damage reduction >95%	10
Seabourne Creek Channel Improvements	1.4	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	1214	<25% of project community affected	1	4	Reduced risk to >75% of structures in floodplain	10	4	\$21,010,418	\$31,761	0.9985	Flood damage reduction >95%	10
Turkey Creek Channel Improvements	0.46	Baseline average flood depth < 0.5ft	2	Fort Bend County	818,912	46	<25% of project community affected	1	2	Reduced risk to <75% of structures in	7	2	\$1,057,872	\$256,391	0.7576	Flood damage reduction > 75%	8
Oyster Creek Channel Improvements	0.62	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	2000	<25% of project community affected	1	1	Reduced risk to 0 structures in floodplain	0	1	\$93,100	\$0	1.0000	Flood damage reduction >95%	10
Lower Oyster Creek Channel Improvements	1.7	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	367	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$991,350	\$991,350	0.0000	Flood damage reduction < 25%	2
Red Gully Channel Improvements	0.51	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	2411	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$21,903,744	\$3,497,078	0.8403	Flood damage reduction > 75%	8
Bullhead Bayou Channels and Detention	1	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	700	<25% of project community affected	1	7	Reduced risk to >75% of structures in floodplain	10	7	\$928,095	\$11,704	0.9874	Flood damage reduction >95%	10
Stafford Run Channels and Detentions	0.55	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	251	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$4,074,285	\$4,074,285	0.0000	Flood damage reduction < 25%	2
Long Point Creek Channel Improvements	1.6	Baseline average flood depth > 1ft	6	Fort Bend County	818,912	88	<25% of project community affected	1	3	Reduced risk to <50% of structures in floodplain	4	3	\$1,280,366	\$40,801	0.9681	Flood damage reduction >95%	10

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Project Name	Flood Risk Reduction							Water Supply Yield					SVI Score
	# of Critical Facilities Removed from 1% Annual Chance FP	Reduction in Critical Facilities Flood Risk	Score 5	Adjusted Injury Risk (%)	Column2	Life and Safety Ranking (Injury/Loss of Life)	Score 6	Water Supply Benefit in Acre-Feet	SourceID	WMS_ID	Water Supply Yield Ranking	Score 7	
Gapps Slough Channel Improvements	0	Reduced risk for >75% of critical facilities in floodplain	10	9.996		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.23
Jones Creek Channel Improvements	4	Reduced risk for >75% of critical facilities in floodplain	10	5.46		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.06
Lateral IIB-7 & IIB-9 Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	2.6068		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.27
Lower Dry Creek Channel Improvement	2	Reduced risk for >75% of critical facilities in floodplain	10	17.694		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.24
Seabourne Creek Channel Improvements	4	Reduced risk for >75% of critical facilities in floodplain	10	8.176		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.53
Turkey Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	2.254		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.47
Oyster Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	2.48		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.23
Lower Oyster Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	7.14		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.14
Red Gully Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	2.7846		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.36
Bullhead Bayou Channels and Detention	0	Reduced risk for 0 structures in floodplain	0	5.1		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.42
Stafford Run Channels and Detentions	0	Reduced risk for 0 structures in floodplain	0	2.0625		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.58
Long Point Creek Channel Improvements	0	Reduced risk for 0 structures in floodplain	0	10.872		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.31

Appendix 5.8 - Additional Project Details

Social Vulnerability			Nature-Based Solutions			Multiple Benefits			Operation and Maintenance		
Project Name	Social Vulnerability Ranking	Score 8	% Nature Based Solution by Cost	Nature-Based Solutions Ranking	Score 9	Multiple Benefits Description	Multiple Benefit Ranking	Score 10	O&M Cost (Annual)	Operations and Maintenance Ranking	Score 11
Gapps Slough Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$160,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Jones Creek Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$1,176,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Lateral IIB-7 & IIB-9 Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$258,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Lower Dry Creek Channel Improvement	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$376,800	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Seabourne Creek Channel Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$298,000	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Turkey Creek Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$384,600	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Oyster Creek Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$759,200	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Lower Oyster Creek Channel Improvements	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$316,400	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Red Gully Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$141,600	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Bullhead Bayou Channels and Detention	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$395,700	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Stafford Run Channels and Detentions	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$131,900	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Long Point Creek Channel Improvements	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Recreation, transportation	Project delivers benefits in 2 wider benefit categories	4	\$32,800	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7

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Potential Obstacles			Environmental Benefits		Environmental Impacts		Mobility Benefits	
Project Name	Administrative, Regulatory and Other Obstacle Ranking	Score 12	Environmental Benefit Ranking	Score 13	Environmental Impact Ranking	Score 14	Mobility Ranking	Score 15
Gapps Slough Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Jones Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Lateral IIB-7 & IIB-9 Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Lower Dry Creek Channel Improvement	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Seabourne Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Turkey Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 1 environmental category	6	Project provides no change to major, minor, or emergency access routes in the project area.	0
Oyster Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Lower Oyster Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Red Gully Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Bullhead Bayou Channels and Detention	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Stafford Run Channels and Detentions	Project has a high number of administrative, regulatory and limitations / requirements	2	Project does not provide any environmental benefits	0	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Long Point Creek Channel Improvements	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7

Appendix 5.8 - Additional Project Details

General Project Data														
Project Name	FMP	Project Description:	Flood Region	Project Type	FIUP Project Category	Project Watershed	Rural Applicant	Project Cost	Benefit Cost Ratio	Cost per Structure Removed	Pre-Project Level-of-Service	Post-Project Level-of-Service	# of Structures in 1% Annual Chance FP (Pre-Project)	Project Status
Rabb's Bayou Detention	083000855	Proposal of regional detention basin.	Lower Brazos Region	Regional Channel Improvements	Category 2	Rabb's Bayou Watershed	N	\$8,699,000	0.000	N/A	10-year	100-year	276	Planning
Hazelwood Crossing	083001062	Construction of a bridge to allow for neighborhood access during storm events.	Lower Brazos Region	LWC Upgrade	Category 2	White Rock Creek-Brazos River	N	\$616,000	0.004	NA	10-year	100-year	0	Planning
Benching along Sulphur Creek Tributary	083001290	Benching along Sulphur Creek tributary.	Lower Brazos Region	Regional Channel Improvements	Category 2	Burleson Creek-Sulphur Creek	Y	\$1,132,000	0.260	\$188,700	-	-	15	Planning
Cemetary Creek Improvements	083001291	Channel and crossing improvements along Cemetary Creek - tributary to Sulphur Creek.	Lower Brazos Region	Regional Channel Improvements	Category 2	Burleson Creek-Sulphur Creek	Y	\$13,305,000	0.080	\$380,100	-	-	630	Planning
Comanche Detention	083001292	Addition of detention and channel benching	Lower Brazos Region	Comprehensive	Category 2	Middle Brazos-Palo Pinto	Y	\$46,985,220	0.016	\$1,247,525	10-year	100-year	201	Planning
Prairie Wind Alternative 2	083001298	Includes channel excavation, creation of an additional channel, and (5)10'x6' RCB.	Lower Brazos Region	LWC upgrade	Category 2	North Bosque	Y	\$6,182,000	0.600	\$772,750	>2-year	100-year	8	Planning
Lingleville Alternative 2	083001299	Includes (4)10'x6' RCB and upstream grading.	Lower Brazos Region	LWC upgrade	Category 2	North Bosque	Y	\$2,014,000	1.100	-	>2-year	100-year	0	Planning
County Road 256 Alternative 1	083001300	Includes raising the road, (7)10'x9' RCB, and grading along the river.	Lower Brazos Region	LWC upgrade	Category 2	North Bosque	Y	\$4,145,000	0.500	\$4,145,000	>2-year	5-year	4	Planning
Morgan Mill Alternative 1	083001301	Includes minor grading and (6)12'x7' RCB.	Lower Brazos Region	LWC upgrade	Category 2	North Bosque	Y	\$2,661,000	1.800	\$204,692	2-year	100-year	18	Planning
Long St Alternative 1	083001302	Includes installing a 425' span bridge with road elevation on either side.	Lower Brazos Region	LWC upgrade	Category 2	North Bosque	Y	\$8,993,000	0.100	-	>2-year	100-year	5	Planning
Weaver Creek and Main Street Culvert Improvements	083001303	Detention pond, channel improvements, and culvert improvements.	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Leon	Y	\$6,848,016	0.100	\$476,205	2-year	100-year	282	Planning

Appendix 5.8 - Additional Project Details

Project Name	Severity of Flood Risk								Flood Risk Reduction								
	Average Flood Depth (100yr)	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Score 1	Communities Served by Project	Community Population Served	Flood Plain Population	Severity Ranking: Community Need (% Population)	Score 2	# of Structures Removed from 1% Annual Chance FP	Flood Risk Reduction	Score 3	# of Structures with Reduced 1% Annual Chance Flood Risk	Pre-Project Damage \$	Post-Project Damage \$	Column1	Flood Damage Reduction	Score 4
Rabb's Bayou Detention	0.75	Baseline average flood depth > 0.5ft	4	Fort Bend County	818,912	891	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$13,479,530	\$13,479,530	0.0000	Flood damage reduction < 25%	2
Hazelwood Crossing	2.45 at road	Baseline average flood depth > 2ft	8	City of Waco	138,486	0	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$0	\$0	-	Flood damage reduction < 25%	2
Benching along Sulphur Creek Tributary	0.75	Baseline average flood depth > 0.5ft	4	City of Lampasas	7,291	32	<25% of project community affected	1	14	Reduced risk to <50% of structures in floodplain	4	14	\$1,046,836	\$506,462	0.5162	Flood damage reduction > 50%	6
Cemetery Creek Improvements	0.45	Baseline average flood depth < 0.5ft	2	City of Lampasas	7,291	4168	50%-75% of project community affected	7	614	Reduced risk to <10% of structures in floodplain	1	614	\$5,560,782	\$3,699,678	0.3347	Flood damage reduction > 25%	4
Comanche Detention	1	Baseline average flood depth > 1ft	6	1	606	538	>75% of project community affected (by population)	10	71	Reduced risk to <10% of structures in floodplain	1	71	\$9,042,711	\$3,167,254	0.6497	Flood damage reduction > 50%	6
Prairie Wind Alternative 2	1	Baseline average flood depth > 1ft	6	1	4,606	23	<25% of project community affected	1	0	Reduced risk to <10% of structures in floodplain	1	0	\$825,793	\$0	1.0000	Flood damage reduction >95%	10
Lingleville Alternative 2	1	Baseline average flood depth > 1ft	6	1	1,531	0	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$762,757	\$209,082	0.7259	Flood damage reduction > 75%	8
County Road 256 Alternative 1	0.67	Baseline average flood depth > 0.5ft	4	1	3,496	2	<25% of project community affected	1	3	Reduced risk to <10% of structures in floodplain	1	3	\$620,208	\$237,235	0.6175	Flood damage reduction > 50%	6
Morgan Mill Alternative 1	0.5	Baseline average flood depth < 0.5ft	2	1	274	31	<25% of project community affected	1	5	Reduced risk to <10% of structures in floodplain	1	5	\$3,150,602	\$212,899	0.9324	Flood damage reduction > 75%	8
Long St Alternative 1	1	Baseline average flood depth > 1ft	6	1	14,906	10	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$88,851	\$0	1.0000	Flood damage reduction >95%	10
Weaver Creek and Main Street Culvert Improvements	Unknown	Baseline average flood depth < 0.5ft	0	City of Eastland	3,639	764	<25% of project community affected	1	0	Reduced risk to <10% of structures in floodplain	1	-	-	-	-	-	0

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Project Name	Flood Risk Reduction							Water Supply Yield					SVI Score
	# of Critical Facilities Removed from 1% Annual Chance FP	Reduction in Critical Facilities Flood Risk	Score 5	Adjusted Injury Risk (%)	Column2	Life and Safety Ranking (Injury/Loss of Life)	Score 6	Water Supply Benefit in Acre-Feet	SourceID	WMS_ID	Water Supply Yield Ranking	Score 7	
Rabb's Bayou Detention	0	Reduced risk for >75% of critical facilities in floodplain	10	3.87		Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.37
Hazelwood Crossing	0	Reduced risk for 0 structures in floodplain	0	75.016%	75.020	Life/injury risk percentage >50%	10	0	N/A	N/A	No impact on water supply	0	0.69
Benching along Sulphur Creek Tributary	0	Reduced risk for 0 structures in floodplain	0	12.240%	12.240	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.86
Cemetery Creek Improvements	5	Reduced risk for <75% of critical facilities in floodplain	7	8.280%	8.280	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.72
Comanche Detention	0	Reduced risk for 0 structures in floodplain	0	34.125%	34.130	Life/injury risk percentage >30%	6	0	N/A	N/A	No impact on water supply	0	0.87
Prairie Wind Alternative 2	0	Reduced risk for 0 structures in floodplain	0	30.000%	30.000	Life/injury risk percentage >30%	6	0	N/A	N/A	No impact on water supply	0	0.41
Lingleville Alternative 2	0	Reduced risk for 0 structures in floodplain	0	30.000%	30.000	Life/injury risk percentage >30%	6	0	N/A	N/A	No impact on water supply	0	0.41
County Road 256 Alternative 1	0	Reduced risk for 0 structures in floodplain	0	26.400%	26.400	Life/injury risk percentage >20%	4	0	N/A	N/A	No impact on water supply	0	0.39
Morgan Mill Alternative 1	0	Reduced risk for 0 structures in floodplain	0	9.000%	9.000	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.57
Long St Alternative 1	0	Reduced risk for 0 structures in floodplain	0	18.000%	18.000	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.68
Weaver Creek and Main Street Culvert Improvements	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.70

Appendix 5.8 - Additional Project Details

Social Vulnerability			Nature-Based Solutions			Multiple Benefits			Operation and Maintenance		
Project Name	Social Vulnerability Ranking	Score 8	% Nature Based Solution by Cost	Nature-Based Solutions Ranking	Score 9	Multiple Benefits Description	Multiple Benefit Ranking	Score 10	O&M Cost (Annual)	Operations and Maintenance Ranking	Score 11
Rabb's Bayou Detention	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	No other benefits.	Project does not deliver any wider benefits	0	\$51,000	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Hazelwood Crossing	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	\$3,079	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Benching along Sulphur Creek Tributary	SVI between 0.75-1.00 (high vulnerability)	10	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	\$52,020	Project will require ongoing operation and maintenance outside of the owner's regular maintenance practices; long-term O&M requirements are undefined; and/or high annual O&M cost > 1% of project (high);	4
Cemetery Creek Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	\$26,681	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Comanche Detention	SVI between 0.75-1.00 (high vulnerability)	10	0	<25% of the project cost is nature-based	1	Recreation and water quality benefits.	Project delivers benefits in 2 wider benefit categories	4		Project will not require any ongoing operation and maintenance (low);	10
Prairie Wind Alternative 2	SVI between 0.25-0.5 (low to moderate Vulnerability)	4	10.6%	<25% of the project cost is nature-based	1	Riparian habitat	Project delivers benefits in only 1 wider benefit category	1	\$6,182	Project will not require any ongoing operation and maintenance (low);	10
Lingleville Alternative 2	SVI between 0.25-0.5 (low to moderate Vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$1,587	Project will not require any ongoing operation and maintenance (low);	10
County Road 256 Alternative 1	SVI between 0.25-0.5 (low to moderate Vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$4,145	Project will not require any ongoing operation and maintenance (low);	10
Morgan Mill Alternative 1	SVI between 0.5-0.75 (moderate to high Vulnerability)	7	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$2,661	Project will not require any ongoing operation and maintenance (low);	10
Long St Alternative 1	SVI between 0.5-0.75 (moderate to high Vulnerability)	7	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$8,993	Project will not require any ongoing operation and maintenance (low);	10
Weaver Creek and Main Street Culvert Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Reduces flooding in high visibility area	Project delivers benefits in only 1 wider benefit category	1	-	Unknown	0

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Potential Obstacles			Environmental Benefits		Environmental Impacts		Mobility Benefits	
Project Name	Administrative, Regulatory and Other Obstacle Ranking	Score 12	Environmental Benefit Ranking	Score 13	Environmental Impact Ranking	Score 14	Mobility Ranking	Score 15
Rabb's Bayou Detention	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 1 environmental category	6	Project provides no change to major, minor, or emergency access routes in the project area.	0
Hazelwood Crossing	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10
Benching along Sulphur Creek Tributary	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 1 environmental category	6	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Cemetery Creek Improvements	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project will deliver a moderate level of environmental benefits (2-3 categories)	6	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Comanche Detention	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Prairie Wind Alternative 2	Project has few administrative, regulatory and implementation limitations / requirements	10	Project will deliver a low level of environmental benefits (1 category)	3	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Lingleville Alternative 2	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
County Road 256 Alternative 1	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Morgan Mill Alternative 1	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Long St Alternative 1	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Weaver Creek and Main Street Culvert Improvements	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7

Appendix 5.8 - Additional Project Details

General Project Data														
Project Name	FMP	Project Description:	Flood Region	Project Type	FIUP Project Category	Project Watershed	Rural Applicant	Project Cost	Benefit Cost Ratio	Cost per Structure Removed	Pre-Project Level-of-Service	Post-Project Level-of-Service	# of Structures in 1% Annual Chance FP (Pre-Project)	Project Status
Tributary 3 and UPPR Culvert Improvements	083001304	Culvert improvements; upstream and downstream channel improvements.	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Leon	Y	\$2,912,398	0.300	\$14,711	10-year	100-year	229	Planning
Lake Eastland CIP 3.5	083001305	Reconstruction of primary Lake Eastland spillway.	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Leon	Y	\$15,700,000	0.200	\$301,464	10-year	100-year	277	Planning
Mallard Lane	083001306	Proposed storm drianage system located along Summit Circle, Kingston Circle, Mallard Lane, and Greenlawn Drive. Approximately 2,000 linear feet.	Lower Brazos Region	Storm Drain	Category 2	Mustang Creek	N	\$1,620,000	0.000	\$810,000	2-year	100-year	35	Planning
TH Johnson	083001307	Proposed channel located south of TH Johnson Drive and discharging into Bull Branch, including approximately 500 feet of new concrete channel, and the installation of 3 RCB culverts at Crystal Circle.	Lower Brazos Region	Channel	Category 2	Mustang Creek	N	\$489,000	0.000	\$489,000	2-year	100-year	10	Planning
Davis St	083001308	Proposed storm sewer along Davis Street from 8th Street to 2nd Street that discharges to the existing outfall in the railroad drainage ditch to the north of the railroad and ties into 2nd St existing drainage system. Approximately 3,750 linear feet of RCP.	Lower Brazos Region	Storm Drain	Category 2	Mustang Creek	N	\$4,270,000	0.100	\$328,000	2-year	100-year	23	Planning
Bel-Air	083001309	Proposed storm sewer system located along Bel-Air Drive, Dellinger Drive, and Randall Street that discharges into Bull Branch. Approximately 1,365 linear feet.	Lower Brazos Region	Storm Drain	Category 2	Mustang Creek	N	\$903,000	0.000	\$903,000	2-year	100-year	9	Planning
Annie St	083001310	Proposed storm sewer along Annie Street, Howard Street, and 7th Street that discharges to a new outfall in the railroad drainage dithc to the south of 2nd Street. Approximately 4,000 linear feet of RCP.	Lower Brazos Region	Storm Drain	Category 2	Mustang Creek	N	\$2,626,000	0.300	\$438,000	2-year	100-year	14	Planning
Sun Valley Neighborhood Levee	083001311	Construction of levee to protect neighborhood from flooding.	Lower Brazos Region	Levee	Category 2	Stillhouse Branch-Leon River	Y	\$1,594,290	1.380	\$31,107	10-year	100-year	43	Planning
Straws Mill Road LWC	083001312	Removal of low water crossing through xxx.	Lower Brazos Region	LWC Upgrade	Category 2	Cottonwood Creek-Leon River	Y	\$1,021,710	1.810	NA	2-year	50-year	0	Preliminary

Appendix 5.8 - Additional Project Details

Project Name	Severity of Flood Risk								Flood Risk Reduction								
	Average Flood Depth (100yr)	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Score 1	Communities Served by Project	Community Population Served	Flood Plain Population	Severity Ranking: Community Need (% Population)	Score 2	# of Structures Removed from 1% Annual Chance FP	Flood Risk Reduction	Score 3	# of Structures with Reduced 1% Annual Chance Flood Risk	Pre-Project Damage \$	Post-Project Damage \$	Column1	Flood Damage Reduction	Score 4
Tributary 3 and UPPR Culvert Improvements	Unknown	Baseline average flood depth < 0.5ft	0	City of Eastland	3,639	583	<25% of project community affected	1	0	Reduced risk to <50% of structures in	4	-	-	-	-	-	0
Lake Eastland CIP 3.5	Unknown	Baseline average flood depth < 0.5ft	0	City of Eastland	3,639	756	<25% of project community affected	1	0	Reduced risk to <10% of structures in floodplain	1	-	-	-	-	-	0
Mallard Lane	0.35	Baseline average flood depth < 0.5ft	2	City of Taylor	16,267	105	<25% of project community affected	1	33	Reduced risk to <10% of structures in floodplain	1	33	\$2,383,611	\$2,277,236	0.0446	Flood damage reduction < 25%	2
TH Johnson	0.35	Baseline average flood depth < 0.5ft	2	City of Taylor	16,267	30	<25% of project community affected	1	10	Reduced risk to 0 structures in floodplain	0	10	\$556,475	\$551,256	0.0094	Flood damage reduction < 25%	2
Davis St	0.3	Baseline average flood depth < 0.5ft	2	City of Taylor	16,267	111	<25% of project community affected	1	10	Reduced risk to <50% of structures in floodplain	4	10	\$586,132	\$181,855	0.6897	Flood damage reduction > 50%	6
Bel-Air	0	Baseline average flood depth < 0.5ft	2	City of Taylor	16,267	27	<25% of project community affected	1	8	Reduced risk to <50% of structures in floodplain	4	8	\$802,799	\$729,737	0.0910	Flood damage reduction < 25%	2
Annie St	0.35	Baseline average flood depth < 0.5ft	2	City of Taylor	16,267	42	<25% of project community affected	1	6	Reduced risk to <75% of structures in floodplain	7	6	\$412,654	\$101,156	0.7549	Flood damage reduction > 75%	8
Sun Valley Neighborhood Levee	1.1	Baseline average flood depth > 1ft	6	City of Gatesville	16,135	129	<25% of project community affected	1	0	Reduced risk to >75% of structures in floodplain	10	0	\$2,564,569	\$0	1.0000	Flood damage reduction >95%	10
Straws Mill Road LWC	2 at road	Baseline average flood depth > 2ft	8	City of Gatesville	16,135	0	<25% of project community affected	1	0	Reduced risk to 0 structures in floodplain	0	0	\$0	\$0	-	Flood damage reduction < 25%	2

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Project Name	Flood Risk Reduction							Water Supply Yield					SVI Score
	# of Critical Facilities Removed from 1% Annual Chance FP	Reduction in Critical Facilities Flood Risk	Score 5	Adjusted Injury Risk (%)	Column2	Life and Safety Ranking (Injury/Loss of Life)	Score 6	Water Supply Benefit in Acre-Feet	SourceID	WMS_ID	Water Supply Yield Ranking	Score 7	
Tributary 3 and UPPR Culvert Improvements	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.70
Lake Eastland CIP 3.5	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.70
Mallard Lane	0	Reduced risk for 0 structures in floodplain	0	1.500%	1.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.33
TH Johnson	0	Reduced risk for 0 structures in floodplain	0	1.500%	1.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.33
Davis St	0	Reduced risk for 0 structures in floodplain	0	1.500%	1.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.37
Bel-Air	0	Reduced risk for 0 structures in floodplain	0	1.500%	1.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.33
Annie St	0	Reduced risk for 0 structures in floodplain	0	1.500%	1.500	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.37
Sun Valley Neighborhood Levee	0	Reduced risk for 0 structures in floodplain	0	11.316%	11.320	Life/injury risk percentage <20%	2	0	N/A	N/A	No impact on water supply	0	0.68
Straws Mill Road LWC	0	Reduced risk for 0 structures in floodplain	0	128.400%	128.000	Life/injury risk percentage >50%	10	0	N/A	N/A	No impact on water supply	0	0.51

Appendix 5.8 - Additional Project Details

Social Vulnerability			Nature-Based Solutions			Multiple Benefits			Operation and Maintenance		
Project Name	Social Vulnerability Ranking	Score 8	% Nature Based Solution by Cost	Nature-Based Solutions Ranking	Score 9	Multiple Benefits Description	Multiple Benefit Ranking	Score 10	O&M Cost (Annual)	Operations and Maintenance Ranking	Score 11
Tributary 3 and UPPR Culvert Improvements	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Reduces flooding on railroad	Project delivers benefits in only 1 wider benefit category	1	-	Unknown	0
Lake Eastland CIP 3.5	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Passes the %PMF and remove structures from TCEQ violation	Project delivers benefits in 2 wider benefit categories	4	-	Unknown	0
Mallard Lane	SVI between 0.01-0.25 (low vulnerability)	1	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$64,276	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
TH Johnson	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$20,903	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Davis St	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$163,655	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Bel-Air	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$36,775	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Annie St	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	\$97,080	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7
Sun Valley Neighborhood Levee	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Recreation benefits	Project delivers benefits in only 1 wider benefit category	1	\$5,090	Project will require ongoing operation and maintenance outside of the owner's regular maintenance practices; long-term O&M requirements are undefined; and/or high annual O&M cost > 1% of project (high);	4
Straws Mill Road LWC	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	\$3,406	Project requires regular, ongoing operation and maintenance; and/or O&M requirements are well defined (Regular);	7

Appendix 5.8 - Additional Project Details

Potential Obstacles			Environmental Benefits		Environmental Impacts		Mobility Benefits	
Project Name	Administrative, Regulatory and Other Obstacle Ranking	Score 12	Environmental Benefit Ranking	Score 13	Environmental Impact Ranking	Score 14	Mobility Ranking	Score 15
Tributary 3 and UPPR Culvert Improvements	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	Project provides no change to major, minor, or emergency access routes in the project area.	0
Lake Eastland CIP 3.5	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	Project provides no change to major, minor, or emergency access routes in the project area.	0
Mallard Lane	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project provides no change to major, minor, or emergency access routes in the project area.	0
TH Johnson	Project has few administrative, regulatory and implementation limitations / requirements	10	Project will deliver a low level of environmental benefits (1 category)	3	Project has no adverse environmental impacts	10	Project provides no change to major, minor, or emergency access routes in the project area.	0
Davis St	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Bel-Air	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Annie St	Project has few administrative, regulatory and implementation limitations / requirements	10	Project does not provide any environmental benefits	0	Project has no adverse environmental impacts	10	Project will protect some major access routes in floodplain and the majority (>50%) of emergency service access. Some major and many minor access routes will remain flooded, and emergency services access may be restricted in some areas	4
Sun Valley Neighborhood Levee	Project has a high number of administrative, regulatory and limitations / requirements	2	Project will deliver a low level of environmental benefits (1 category)	3	Project will have adverse environmental impacts in 2-3 environmental categories	3	Project will protect all major access routes in floodplain and all emergency service access. Minor access routes are still flooded or have restricted access in local areas.	7
Straws Mill Road LWC	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Project will have adverse environmental impacts in 1 environmental category	6	Project will protect major and minor access routes in floodplain and emergency service access to EMS, police stations, and fire stations. Allows emergency services access to the entire administrative area.	10

Appendix 5.8 - Additional Project Details

General Project Data														
Project Name	FMP	Project Description:	Flood Region	Project Type	FIUP Project Category	Project Watershed	Rural Applicant	Project Cost	Benefit Cost Ratio	Cost per Structure Removed	Pre-Project Level-of-Service	Post-Project Level-of-Service	# of Structures in 1% Annual Chance FP (Pre-Project)	Project Status
Leon WWTP Parapet Wall	083001313	-	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Cottonwood Creek-Leon River	Y	\$642,000	-	-	-	-	-	-
Arrowood Lane Culvert	083001314	-	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Cottonwood Creek-Leon River	Y	\$776,000	-	-	-	-	-	-
SH 36 Culverts	083001315	-	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Cottonwood Creek-Leon River	Y	\$328,000	-	-	-	-	-	-
FM 929 Culverts	083001316	-	Lower Brazos Region	Comprehensive Drainage Improvements	Category 2	Lower Coryell Creek	Y	\$1,535,000	-	-	-	-	-	-

Appendix 5.8 - Additional Project Details

Project Name	Severity of Flood Risk								Flood Risk Reduction								
	Average Flood Depth (100yr)	Severity Ranking: Pre-Project Average Depth of Flooding (100-year)	Score 1	Communities Served by Project	Community Population Served	Flood Plain Population	Severity Ranking: Community Need (% Population)	Score 2	# of Structures Removed from 1% Annual Chance FP	Flood Risk Reduction	Score 3	# of Structures with Reduced 1% Annual Chance Flood Risk	Pre-Project Damage \$	Post-Project Damage \$	Column1	Flood Damage Reduction	Score 4
Leon WWTP Parapet Wall	Unknown	Baseline average flood depth < 0.5ft	0	City of Gatesville	16,135	-	<25% of project community affected	0	0	-	0	-	-	-	-	-	0
Arrowood Lane Culvert	Unknown	Baseline average flood depth < 0.5ft	0	City of Gatesville	16,135	-	<25% of project community affected	0	1	-	0	-	-	-	-	-	0
SH 36 Culverts	Unknown	Baseline average flood depth < 0.5ft	0	City of Gatesville	16,135	-	<25% of project community affected	0	1	-	0	-	-	-	-	-	0
FM 929 Culverts	Unknown	Baseline average flood depth < 0.5ft	0	City of Gatesville	16,135	-	<25% of project community affected	0	0	-	0	-	-	-	-	-	0

Appendix 5.8 - Additional Project Details

Project Name	Flood Risk Reduction							Water Supply Yield					SVI Score
	# of Critical Facilities Removed from 1% Annual Chance FP	Reduction in Critical Facilities Flood Risk	Score 5	Adjusted Injury Risk (%)	Column2	Life and Safety Ranking (Injury/Loss of Life)	Score 6	Water Supply Benefit in Acre-Feet	SourceID	WMS_ID	Water Supply Yield Ranking	Score 7	
Leon WWTP Parapet Wall	1	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.51
Arrowood Lane Culvert	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.68
SH 36 Culverts	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.68
FM 929 Culverts	0	Reduced risk for 0 structures in floodplain	0	0.000%	0.000	Life/injury risk percentage <20%	0	0	N/A	N/A	No impact on water supply	0	0.35

Appendix 5.8 - Additional Project Details

Social Vulnerability			Nature-Based Solutions			Multiple Benefits			Operation and Maintenance		
Project Name	Social Vulnerability Ranking	Score 8	% Nature Based Solution by Cost	Nature-Based Solutions Ranking	Score 9	Multiple Benefits Description	Multiple Benefit Ranking	Score 10	O&M Cost (Annual)	Operations and Maintenance Ranking	Score 11
Leon WWTP Parapet Wall	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	None	Project does not deliver any wider benefits	0	-	Unknown	0
Arrowood Lane Culvert	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	-	Unknown	0
SH 36 Culverts	SVI between 0.5-0.75 (moderate to high vulnerability)	7	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	-	Unknown	0
FM 929 Culverts	SVI between 0.25-0.5 (low to moderate vulnerability)	4	0	<25% of the project cost is nature-based	1	Transportation benefits.	Project delivers benefits in only 1 wider benefit category	1	-	Unknown	0

Appendix 5.8 - Additional Project Details

Potential Obstacles			Environmental Benefits		Environmental Impacts		Mobility Benefits	
Project Name	Administrative, Regulatory and Other Obstacle Ranking	Score 12	Environmental Benefit Ranking	Score 13	Environmental Impact Ranking	Score 14	Mobility Ranking	Score 15
Leon WWTP Parapet Wall	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	-	0
Arrowood Lane Culvert	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	-	0
SH 36 Culverts	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	-	0
FM 929 Culverts	Project has a typical number of administrative, regulatory and limitations / requirements	6	Project does not provide any environmental benefits	0	Unknown	0	-	0

Appendix 5.9

Appendix 5.9 - Model Submission

RFPG No.	RFPG Name	Model ID	Model Name	Model Type	Date Submitted	Submitted with	Associated FMX IDs
8	Lower Brazos	080000000001	Cow Turkey Bee	Hydraulic	1-Aug-22	Draft Plan	083000786, 083000801, 083000829
8	Lower Brazos	080000000002	Bessie's Creek	Hydraulic	1-Aug-22	Draft Plan	083000784
8	Lower Brazos	080000000003	Jones' Creek	Hydraulic	10-Jan-23	Draft Plan, resubmitted with Final Plan	083000818, 083000821, 081000785
8	Lower Brazos	080000000004	Oyster Creek	Hydraulic	1-Aug-22	Draft Plan	083000834, 083000838, 03000841, 083000843, 083000847, 083000853
8	Lower Brazos	080000000005	Big Creek	Hydraulic	1-Aug-22	Draft Plan	083000797, 083000800, 083000805, 083000809, 083000811, 083000814, 083000817, 083000820, 083000823, 083000827, 083000828
8	Lower Brazos	080000000006	Cow Turkey Bee Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000786, 083000801, 083000829
8	Lower Brazos	080000000007	Bessie's Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000784
8	Lower Brazos	080000000008	Jones' Creek Hydrology	Hydrologic	10-Jan-23	Draft Plan, resubmitted with Final Plan	083000818, 083000821, 081000785
8	Lower Brazos	080000000009	Oyster Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000834, 083000838, 03000841, 083000843, 083000847, 083000853
8	Lower Brazos	080000000010	Big Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000797, 083000800, 083000805, 083000809, 083000811, 083000814, 083000817, 083000820, 083000823, 083000827, 083000828
8	Lower Brazos	080000000014	Brazos River Analysis Model	Hydraulic	1-Aug-22	Draft Plan	083000797, 083000800, 083000805, 083000809, 083000811, 083000814, 083000817, 083000820, 083000823, 083000827, 083000828, 083000834, 083000838, 03000841, 083000843, 083000847, 083000853, 083000818, 083000821, 081000785, 083000786, 083000801, 083000829
8	Lower Brazos	080000000015	Brazos River Analysis Model Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000797, 083000800, 083000805, 083000809, 083000811, 083000814, 083000817, 083000820, 083000823, 083000827, 083000828, 083000834, 083000838, 03000841, 083000843, 083000847, 083000853, 083000818, 083000821, 081000785, 083000786, 083000801, 083000829
8	Lower Brazos	080000000016	Business Park	Hydrologic	10-Jan-23	Draft Plan, resubmitted with Final Plan	081000061
8	Lower Brazos	080000000017	Chimneystone	Hydrologic	10-Jan-23	Draft Plan, resubmitted with Final Plan	081000057, 081000980
8	Lower Brazos	080000000033	Rabbs Bayou	Hydraulic	1-Aug-22	Draft Plan	083000855
8	Lower Brazos	080000000034	Rabbs Bayou Hydrology	Hydrologic	1-Aug-22	Draft Plan	083000855

Appendix 5.9 - Model Submission

RFPG No.	RFPG Name	Model ID	Model Name	Model Type	Date Submitted	Submitted with	Associated FMX IDs
8	Lower Brazos	080000000035	Bee Creek	Hydraulic	1-Aug-22	Draft Plan	081000226, 081001156, 081001153, 081001148, 081001009
8	Lower Brazos	080000000036	Bee Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	081000226, 081001156, 081001153, 081001148, 081001009
8	Lower Brazos	080000000037	Wolf Pen Creek	Hydraulic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000038	Wolf Pen Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000039	Alum Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000040	Burton Creek	Hydraulic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000041	Burton Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000042	Lick Creek	Hydraulic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000043	Lick Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000044	Spring Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	NA
8	Lower Brazos	080000000045	Thompsons Branch	Hydraulic	1-Aug-22	Draft Plan	081001022
8	Lower Brazos	080000000046	Thompsons Branch Hydrology	Hydrologic	1-Aug-22	Draft Plan	081001022
8	Lower Brazos	080000000047	Briar Creek	Hydraulic	1-Aug-22	Draft Plan	081001035, 081000646, 08100706, 081000657
8	Lower Brazos	080000000048	Briar Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	081001035, 081000646, 08100706, 081000657
8	Lower Brazos	080000000049	Burton Creek - Bryan	Hydraulic	1-Aug-22	Draft Plan	081001021, 081000663, 081000678, 081000690, 081000669, 081001036
8	Lower Brazos	080000000050	Carters Creek	Hydraulic	1-Aug-22	Draft Plan	081000712, 081000719, 081001276, 081001037
8	Lower Brazos	080000000051	Carters Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	081000712, 081000719, 081001276, 081001037
8	Lower Brazos	080000000052	Turkey Creek	Hydraulic	1-Aug-22	Draft Plan	081001040, 081001015
8	Lower Brazos	080000000053	Turkey Creek Hydrology	Hydrologic	1-Aug-22	Draft Plan	081001040, 081001015
8	Lower Brazos	080000000054	Cottonwood and Still Creeks	Hydraulic	1-Aug-22	Draft Plan	081001039

Appendix 5.10

Appendix 5.10 TWDB No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning Level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
8	83000784	Bessie's & Brookshire Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000002, 080000000007	Bessies_Creek_, BessiesCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000786	Bee Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000001, 080000000006	CowTurkeyBee, Cow_Turkey_Bee	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000797	Big Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000800	Coon Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000801	Cow Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000001, 080000000006	CowTurkeyBee, Cow_Turkey_Bee	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000805	Cottonwood Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000809	Diversion Channel Ditch and Drop Structure	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000811	Dry Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000814	Dutch John Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000817	Fairchild Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000818	Flewellen Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000003, 080000000008	Jones_Flewellen_And, Jones_Baseline_Atlas14	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000820	Gapps Slough Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000821	Jones Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000003, 080000000008	Jones_Flewellen_And, Jones_Baseline_Atlas14	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000823	Lateral IIB-7 & IIB-9 Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000827	Lower Dry Creek Channel Improvement	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000828	Seabourne Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000005, 080000000010	BigCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000829	Turkey Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000001, 080000000006	CowTurkeyBee, Cow_Turkey_Bee	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000834	Oyster Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000838	Lower Oyster Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000841	Red Gully Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000843	Bullhead Bayou Channels and Detention	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000847	Stafford Run Channels and Detentions	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000853	Long Point Creek Channel Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000004, 080000000009	OysterCreek	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000855	Rabb's Bayou Detention	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000033, 080000000034	RabbsBayou, RabbsBayou_4.3	Yes	Master Drainage Plan for Fort Bend County, Texas		Not applicable
8	83000709	826 and 827 Vine Street Property Flooding	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	Yes	City of Bryan Master Drainage Plan		Not applicable
8	83000712	Bryan Boonville and Briarcrest Bridges	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000096	Carters Creek 2D Hydraulics	Yes	Carters Creek FME to FMP		Not applicable

Appendix 5.10 TWDB No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning Level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
8	83001062	Hazelwood Crossing	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	80000000055	Hazelwood Crossing	Yes	Flood Study, Hazelwood Avenue/Tributary to White Rock Creek, McLennan County		Not applicable
8	83001290	Benching along Sulphur Creek Tributary	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000071, 080000000073	Lampasas Sulphur Creek Hydrology, Lampasas Sulphur Creek Alternative 1	Yes	Lampasas Sulphur Creek Regional Watershed Study		Not applicable
8	83001291	Cemetery Creek Improvements	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000071, 080000000072	Lampasas Sulphur Creek Hydrology, Lampasas Sulphur Creek Alternative 2	Yes	Lampasas Sulphur Creek Regional Watershed Study		Not applicable
8	83001292	Comanche Detention	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000079, 080000000080	Comanche-Indian Creek Hydrology, Comanche-Indian Creek Hydraulics	Yes	Comanche-Indian Creek Regional Watershed Study		Not applicable
8	83001298	Prairie Wind Alternative 2	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000089, 080000000090, 080000000091	North Bosque Prairie Wind, North Bosque Existing Conditions, North Bosque Hydrology	Yes	North Bosque River Watershed FIF, Erath County		Not applicable
8	83001299	Lingleville Alternative 2	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000086, 080000000090, 080000000091	North Bosque Lingleville, North Bosque Existing Conditions, North Bosque Hydrology	Yes	North Bosque River Watershed FIF, Erath County		Not applicable
8	83001300	County Road 256 Alternative 1	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000085, 080000000090, 080000000091	North Bosque CR 256, North Bosque Existing Conditions, North Bosque Hydrology	Yes	North Bosque River Watershed FIF, Erath County		Not applicable
8	83001301	Morgan Mill Alternative 1	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000088, 080000000090, 080000000091	North Bosque Morgan Mill, North Bosque Existing Conditions, North Bosque Hydrology	Yes	North Bosque River Watershed FIF, Erath County		Not applicable
8	83001302	Long St Alternative 1	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Model	080000000087, 080000000090, 080000000091	North Bosque Long Street, North Bosque Existing Conditions, North Bosque Hydrology	Yes	North Bosque River Watershed FIF, Erath County		Not applicable
8	83001303	Weaver Creek and Main Street Culvert Improvements	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	Leon River Watershed Study FIF, Eastland County		Not applicable
8	83001304	Tributary 3 and UPRR Culvert Improvements	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	Leon River Watershed Study FIF, Eastland County		Not applicable
8	83001305	Lake Eastland CIP 3.5	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	Leon River Watershed Study FIF, Eastland County		Not applicable
8	83001306	Mallard	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000094	Bull Branch	Yes	City of Taylor Drainage Master Plan		Not applicable
8	83001307	TH Johnson Area	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000094	Bull Branch	Yes	City of Taylor Drainage Master Plan		Not applicable
8	83001308	Davis Project Area	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000095	Mustang Creek	Yes	City of Taylor Drainage Master Plan		Not applicable
8	83001309	Bel-Air	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000094	Bull Branch	Yes	City of Taylor Drainage Master Plan		Not applicable
8	83001310	Annie Project Area	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000095	Mustang Creek	Yes	City of Taylor Drainage Master Plan		Not applicable
8	83001311	Sun Valley Neighborhood Levee	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000092	Stillhouse Branch	Yes	City of Gatesville MDP FIF		Not applicable
8	83001312	Straws Mill Road LWC	Yes	Not Applicable	No	Any necessary mitigation included in model	Yes	Study	080000000093	Stream CG-2	Yes	City of Gatesville MDP FIF		Not applicable

Appendix 5.10 TWDB No Negative Impact Determination Table

Region Number	FMP ID	FMP Name	FMP Meets ALL No Negative Impacts Requirements from Exhibit C Section 3.6.A (Yes/ No)	Negative Impact Description	Planning Level Mitigation Plan (Yes/ No)	Mitigation Plan Description	No Negative Impact Determination (Yes/No)	Basis of No Negative Impact Determination (Model, Study, Engineering Judgement)	Model ID	Model Name	Model Submitted	Study Name and Location	Engineer of Record (Optional)	Engineering Judgement Description
8	83001313	Leon WWTP Parapet Wall	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	City of Gatesville MDP FIF		Not applicable
8	83001314	Arrowood Lane Culvert	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	City of Gatesville MDP FIF		Not applicable
8	83001315	SH 36 Culverts	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	City of Gatesville MDP FIF		Not applicable
8	83001316	FM 929 Culverts	Yes	Not Applicable	No	Not Applicable	Yes	Study	N/A	N/A	No	City of Gatesville MDP FIF		Not applicable