

Table 4C. Potentially Feasible Flood Mitigation Projects Identified by RFPG

Table 4B. Potentially Feasible Flood Mitigation Projects Identified by RFPG

FMP ID	FMP Name	Description	Associated Goals (ID)	Associated FME, FMS, or FMP	Associated FME, FMS, or FMP Description	Counties	HUC12s	Watershed Name	Project Type	Project Area (sqmi)	Flood Risk Type (Riverine, Coastal, Urban, Playa, Other)	Sponsor	Entities with Oversight	Emergency Need (Y/N)	Estimated Project Cost (\$)	Potential Funding Sources and Amount
14300003	Small pond at San Elizario	Construct a new 0.34 ac-ft pond to relieve roadway flooding. Described as Alternative 3 from City of San Elizario "Drainage Feasibility Study" (2018).	14009001, 14009003	N/A	N/A	El Paso	130401000307		Detention Pond	0.001	Urban/Local	San Elizario city	San Elizario city	No	\$224,000	General Revenue
14300005	SH20 Drainage Improvements from Doniphan Drive to Texas Avenue	Improvements to inlet and culvert capacities at 8 crossings, with cost estimates and prioritizations available.	14010001, 14010002	N/A	N/A	El Paso	130401000107		Storm Drain	0.1	Urban/Local	TXDOT, El Paso Water	TXDOT, El Paso Water	No	\$3,745,000	Revenue bonds, Cash Revenues, Credit
14300007	Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17	Add flood gates to roadways at 4 LWCs on Alamito Creek, and a monitoring gage/early detection on North Alamito Creek at Hwy 17 Bridge upstream of Marfa. This provides early warning for Emergency Management to deploy before imminent road flooding.	14005001, 14006001	FMS ID: 142000025	FMS ID: 142000025 also improves early warning in Marfa, but is not required before or after this FMS.	Presidio County	130402020105		Preparedness	0.02	Riverine	Marfa city	Marfa city, Presidio County	Yes	\$358,000	General Funds
14300009	Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County	Coordinate with Hudspeth County Commissioners, Road & Bridge Departments, Safety & Inspection Departments, & County Attorney to draft a floodplain ordinance (or modify existing subdivision ordinance) to regulate development standards in Hudspeth County	14001001, 14002001	N/A	N/A	Hudspeth County			Other	4552.1	Riverine, Playa, Urban/Local	Hudspeth County	Hudspeth County	No	\$50,000	General Revenue
14300011	SSA4	Detention Basin SSA4	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000204		Detention Pond	0.1	Riverine	El Paso County	El Paso County	No	\$14,744,000	General Funds, Bonds, Tax Notes
14300021	SOC4	Sediment/Detention Basin at "Mankato Arroyo"	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000307		Detention Pond	0.04	Riverine	El Paso County, EPCWID1	El Paso County, EPCWID1, Socorro city	No	\$2,383,000	Taxes, water use fees
14300024	MON3	Sediment/Retention Basin	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000203		Detention Pond	1.3	Playa	El Paso County	El Paso County	No	\$27,033,000	General Funds, Bonds, Tax Notes
14300025	HAC3	Sediment/Retention Basin	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000307		Detention Pond	0.1	Riverine	El Paso County	El Paso County	No	\$4,619,000	General Funds, Bonds, Tax Notes
14300097	NW16	Expand channel from Village Ct to Doniphan Dr	14009003, 14009001	N/A	N/A	El Paso	130301020906		Channel	0.0	Urban/Local	El Paso Water	El Paso Water	No	\$1,570,000	Revenue bonds, Cash Revenues, Credit
14300100	NE3B	Alcan Pond: new catch basin to capture FP15 upstream	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000103		Detention Pond	0.1	Urban/Local	El Paso Water	El Paso Water	No	\$21,234,000	Revenue bonds, Cash Revenues, Credit
14300105	EA10A	Build sediment/detention basin upstream of Paseo del Este Drive	14009003, 14009001, 1401101	N/A	N/A	El Paso	130401000204		Detention Pond	0.02	Riverine	El Paso Water	El Paso Water, El Paso County	No	\$9,647,000	Revenue bonds, Cash Revenues, Credit
14300111	NW3	Construction of new larger capacity Doniphan Pump Station to replace PS1, with new force main directly to the Rio Grande. Install new catch basin with mechanical bar screen upstream of PS2.	14009003, 14009001	N/A	N/A	El Paso	130401000107		Detention Pond	0.3	Urban/Local	El Paso Water	El Paso Water	No	\$16,132,000	Revenue bonds, Cash Revenues, Credit
14300113	NW26	Acquire land, construct a permanent wetland, install a storm drain system to Doniphan Drive, construct pipeline to Doniphan Pump Station and build new pump station to control flood levels.	14009003, 14009001	N/A	N/A	El Paso	130401000107		Detention Pond	0.2	Urban/Local	El Paso Water	El Paso Water	No	\$35,568,000	Revenue bonds, Cash Revenues, Credit
14300116	EA9A	Build sediment/detention basin upstream of Paseo del Este Drive	14009003, 14009001, 14011001	N/A	N/A	El Paso	130401000204		Detention Pond	0.0	Riverine	El Paso Water	El Paso Water	No	\$11,897,000	Revenue bonds, Cash Revenues, Credit
14300123	WC4	Construct a new 37.59 ac-ft pond to relieve roadway flooding on Mesa Street.	14009003, 14009001, 14011001	141000034	Develop all required datasets and models for 52 projects from the City of El Paso/El Paso Water Stormwater Master Plan to be recommended as FMPs in the Regional Flood Plan.	El Paso	130301020906	Doniphan Corridor 2018, Courchesne 2013, FPN21_2	Detention Pond	0.0	Urban/Local, Riverine	El Paso Water	El Paso Water	No	\$10,198,412	State, Local
14300118	VIN1	Construction of a diversion channel and two combination of sediment/detention basins.	14009003, 14009001, 14011001	141000035	Develop all required datasets and models for 21 projects from the El Paso County Stormwater Master Plan to be considered as FMPs in the Regional Flood Plan.	El Paso	130301020804	FPN45_4, FPN45_5	Detention Pond/Channel	0.1	Riverine	El Paso County	El Paso County	No	\$59,386,497	State, Local

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143000117	Gateway Ponds	Acquire land, expand the existing detention basin north of I-10. Construction of new larger capacity Pump Station with capacity of 350 cfs in the north pond, with new force main directly to the Rio Grande.	14009003, 14009001, 14011001	141000035	Develop all required datasets and models for 21 projects from the El Paso County Stormwater Master Plan to be considered as FMPs in the Regional Flood Plan.	El Paso	130401000103, 130401000107	Cebada_Reservoir	Detention Pond & Pump Station	0.0	Urban/Local, Riverine	El Paso Water	El Paso Water	No	\$108,224,885	State, Local
143000121	Dallas Ponds	Acquire land, build new detention basin north of IH-10. Construction of new larger capacity Pump Station with capacity of 250 cfs in the basin with new force main directly to the Rio Grande.	14009003, 14009001, 14011001	141000034	Develop all required datasets and models for 52 projects from the City of El Paso/El Paso Water Stormwater Master Plan to be recommended as FMPs in the Regional Flood Plan.	El Paso	130401000103, 130401000107	Cotton_Dallas_US	Detention Pond & Pump Station	0.0	Urban/Local, Riverine	El Paso Water	El Paso Water	No	\$160,532,311	State, Local
143000120	Presidio	Retention & Detention Basin	14004002, 14009004, 14009002	142000005, 142000002	Develop H&H Models for Cibolo Creek and arroyos through the City of Presidio, and develop an FMP for flooding reduction of buildings and emergency access roadways	Presidio	130402011406	Arroyo Tortola-Rio Grande	Detention Pond	0.0	Urban/Local	RGCOG, Presidio County, TXDOT, USIBWC, USACE	Presidio County, TXDOT, USIBWC, USACE	N	\$4,620,933	Federal, State, Local
143000122	WC1	Sediment Retention Basin	14004001, 14009003, 14009001	141000034	Develop all required datasets and models for 52 projects from the City of El Paso/El Paso Water Stormwater Master Plan to be recommended as FMPs in the regional floodplain	El Paso	130301020906	City of Cottonado Hills - Rio Grande	Sediment Detention Pond	0.0	Urban/Local	El Paso Water, El Paso County	El Paso Water, El Paso County	N	\$4,461,518	State, Local
143000119	City of Pecos	Retention Basin	14004002	141000010, 141000007	Develop city-wide drainage study and stormwater master plan for Pecos, Study to plan the management of saltcedar growth and debris in channel in/adjacent to City of Pecos	Reeves	13070010903	Salt Draw	Detention Pond	0.05	Urban/Local, Playa, Riverine	Pecos City, Lindsay CDP, Reeves	Pecos City, Lindsay CDP, Reeves County, TXDOT	N	\$11,161,000	Federal, State, Local

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Table 4B. Potentially Feasible Flood Mitig:

FMP ID	FMP Name	Flood Risk										Reduction in Flood Risk										
		Area in 100yr (1% annual chance) Floodplain in square miles	Area in 500yr (0.2% annual chance) Floodplain in square miles	Estimated number of structures at 100yr flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (Miles)	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100yr (1% annual chance) flood risk	Number of structures removed from 100yr (1% annual chance) flood risk	Number of structures removed from 500yr (0.2% annual chance) flood risk	Residential structures removed from 100yr (1% annual chance) flood risk	Estimated Population removed from 100yr (1% annual chance) flood risk	Critical facilities removed from 100yr (1% annual chance) flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)
143000003	Small pond at San Elizario	0.0	0	0	0	0	0	0	2	0.2	0	0	0	0	0	0	0	2	0.2	0		
143000005	SH20 Drainage Improvements from Doniphan Drive to Texas Avenue	0.005	0.004	2	0	30	0	8	16	0.21	0	0	0	0	0	0	8	0	0	0		
143000007	Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17	0.022	0	0	0	0	0	4	4	0.32	0.001	0	0	0	0	0	0	0	0	0	0	1
143000009	Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County	937	1155	823	44	1629	2	70	489	288	246	0	0	0	0	0	0	0	0	0	0	
143000011	SSA4	0.77	2.8	185	139	564	1	0	32	3.7	314.6	185	99	184	74	299	0	0	0	0.02	4.0	
143000021	SOC4	0.21	0.6	10	2	26	0	0	4	0.3	99.9	10	10	65	2	26	0	0	4	0.3	19.2	
143000024	MON3	8.69	13.4	756	557	1977	2	23	267	64.1	0.0	660	327	609	248	820	0	0	11	14.9	0	
143000025	HAC3	0.42	0.7	10	6	23	0	0	1	0.2	96.7	10	10	11	6	23	0	0	1	0.1	43.2	
143000097	NW16	0.01	0.02	3	0	12	0	0	0	0.01	0.0	3	3	0	0	12	0	0	0	0.01	0	
143000100	NE3B	0.11	0.3	136	107	615	1	0	34	3.9	0.0	98	54	0	104	167	0	0	8	1.1	0	
143000105	EA10A	0.79	1.7	17	6	287	0	10	23	4.3	331.5	8	1	30	1	3	0	0	0	0.1	29.2	
143000111	NW3	0.03	0.3	6	1	37	1	0	7	0.7	0.0	6	6	0	1	37	1	0	7	0.7	0	
143000113	NW26	0.03	0.3	6	1	37	1	0	7	0.7	0.0	6	0	0	0	0	0	1	0.1	0		
143000116	EA9A	0.79	1.7	17	6	287	0	10	23	4.3	331.5	17	13	37	2	282	0	1	9	1.4	89.23	
143000123	WC4	0.01	0.0	15	11	109	1	0	2	0.1	0.0	15	15	17	11	109	1	0	2	0.1	0	N/A
143000118	VIN1	1.00	1.2	431	328	918	0	12	45	9.6	1.3	431	392	386	302	879	0	0	34	8.3	0.08	N/A

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		Area in 100yr (1% annual chance) Floodplain in square miles	Area in 500yr (0.2% annual chance) Floodplain in square miles	Estimated number of structures at 100yr flood risk	Residential structures at 100-year flood risk	Estimated Population at 100-year flood risk	Critical facilities at 100-year flood risk (#)	Number of low water crossings at flood risk (#)	Estimated number of road closures (#)	Estimated length of roads at 100-year flood risk (Miles)	Estimated farm & ranch land at 100-year flood risk (acres)	Number of structures with reduced 100yr (1% annual chance) flood risk	Number of structures removed from 100yr (1% annual chance) flood risk	Number of structures removed from 500yr (0.2% annual chance) flood risk	Residential structures removed from 100yr (1% annual chance) flood risk	Estimated Population removed from 100yr (1% annual chance) flood risk	Critical facilities removed from 100yr (1% annual chance) flood risk (#)	Number of low water crossings removed from 100yr (1% annual chance) flood risk (#)	Estimated reduction in road closure occurrences	Estimated length of roads removed from 100yr flood risk (Miles)	Estimated farm & ranch land removed from 100yr flood risk (acres)	Estimated reduction in fatalities (if available)
143000117	Gateway Ponds	0.16	0.6	206	135	899	0	0	34	4.5	0.0	206	206	255	142	899	0	0	34	3.6	0	N/A
143000121	Dallas Ponds	0.67	0.9	169	94	3226	3	0	107	20.3	0.0	169	169	316	111	3226	3	0	107	19.5	0	N/A
143000120	Presidio	0.10	0.1	10	6	16	0	0	3	2.1	0.0	10	9	2	6	16	0	0	3	1.1	0	0
143000122	WC1	0.11	0.1	110	94	384	0	0	54	1.9	0.0	110	102	74	90	349	0	0	46	1.9	0	0
143000119	City of Pecos	10.08	10.3	993	479	2310	7	16	122	53.7	362.4	120	51	16	0	144	0	0	0	2.4	8.1	0

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Table 4B. Potentially Feasible Flood Mitigation										
FMP ID	FMP Name	Pre-Project Level-of-Service	Post-Project Level-of-Service	Cost/ Structure removed	Percent Nature-based Solution (by cost)	Negative Impact (Y/N)	Negative Impact Mitigation (Y/N)	Social Vulnerability Index (SVI)	Water Supply Benefit (Y/N)	Benefit-Cost Ratio
143000003	Small pond at San Elizario	Unknown	10% annual chance	N/A	0	No	No	0	No	0
143000005	SH20 Drainage Improvements from Doniphan Drive to Texas Avenue	<20% annual chance	10% annual chance	N/A	0	No	No	0.29	No	0
143000007	Install Flood Gates in Marfa and Monitoring Gage on North Alamito Creek and Highway 17	<20% annual chance	<20% annual chance	N/A	0	No	No	0.00	No	0
143000009	Develop and Implement Floodplain Ordinance to Regulate Development at Hudspeth County	Unknown	Unknown	N/A	0	No	No	0.56	No	0
143000011	SSA4	<1% annual chance	1% annual chance	\$148,929	0	No	No	0.90	No	0.1
143000021	SOC4	<1% annual chance	1% annual chance	\$238,300	0	No	No	0.94	No	0.1
143000024	MON3	<1% annual chance	1% annual chance	\$82,670	0	No	No	0.74	No	0.2
143000025	HAC3	<1% annual chance	1% annual chance	\$461,900	0	No	No	0.99	No	0
143000097	NW16	<1% annual chance	1% annual chance	\$523,333	0	No	No	0.89	No	0
143000100	NE3B	<1% annual chance	1% annual chance	\$393,222	0	No	No	0.78	No	0.1
143000105	EA10A	<1% annual chance	0.2% annual chance	\$9,647,000	0	No	No	0.64	No	0
143000111	NW3	<1% annual chance	1% annual chance	\$2,688,667	0	No	No	0.79	No	0
143000113	NW26	<1% annual chance	1% annual chance	N/A	1	No	No	0.00	No	0
143000116	EA9A	<1% annual chance	0.2% annual chance	\$915,154	0	No	No	0.64	No	0
143000123	WC4	<1% Annual Chance	1% Annual Chance	\$679,894	0	N	N	0.77	N	0.042833542
143000118	VIN1	N/A	0.2% Annual Chance	\$151,496	0	N	N	0.84	N	0.123002003

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143000117	Gateway Ponds	<1% Annual Chance	1% Annual Chance	\$525,364	0	N	N	0.93	N	0.077447525
143000121	Dallas Ponds	N/A	1% Annual Chance	\$949,895	0	N	N	0.98	N	0.035646086
143000120	Presidio	<1% Annual Chance	1% Annual Chance	\$513,437	0	N	N	0.95	N	0.015
143000122	WC1	<1% Annual Chance	1% Annual Chance	\$43,740	0	N	N	0.59	N	0.366824331
143000119	City of Pecos	<50% Annual Chance	50% Annual Chance	\$218,843	0	N	N	0.51	N	0.173