

**APPENDIX G: Opinion of Probable
Construction Costs for Recommended Flood
Mitigation Projects**

DRAFT

Detailed Opinion of Probable Construction Costs (OPCC) for Recommended FMPs

		FMP	033000007	033000008	033000016	033000030	033000031	033000033	033000036
Non-recurring	Study costs and other (non-capital costs)	Non-engineering studies:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Engineering/technical/feasibility studies:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Surveying; geotechnical; testing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total study costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Construction-related (capital costs)	Design and Permitting	\$ 228,150.00	\$ 6,658,730.00	\$ 310,984.00	\$ 865,000.00	\$ 449,631.92	\$ 653,500.00	\$ 739,350.00
		Construction-related (capital costs)	Environmental; archaeological & historical resources	\$ 10,000.00	\$ -	\$ -	\$ -	\$ -	\$ -
		Temporary and/or permanent easements; land acquisition	\$ 80,000.00	\$ 765,099.00	\$ 462,600.00	\$ -	\$ -	\$ -	\$ -
		Mitigation; utility relocation	\$ -	\$ 8,991,584.00	\$ -	\$ -	\$ 325,000.00	\$ 110,000.00	\$ 660,500.00
		Legal assistance; fiscal services & costs (bond counsel); outreach	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Direct construction costs of components/facilities	\$ 1,103,371.00	\$ 44,336,619.00	\$ 1,180,640.00	\$ 6,059,009.43	\$ 22,812,087.63	\$ 2,619,393.00	\$ 2,811,829.00
		Buyouts; property elevations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		Interest during construction	\$ 94,706.70	\$ 30,732,082.54	\$ 130,834.04	\$ 675,663.15	\$ 7,626,241.23	\$ 224,046.00	\$ 280,077.64
		Project management (by engineer)	\$ -	\$ -	\$ -	\$ 1,741,000.00	\$ 9,344,700.00	\$ -	\$ -
		Inspection; pilot testing; warranty; manuals	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		other special services or relevant costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Contingency(s)	\$ 338,106.00	\$ 12,709,096.00	\$ 476,640.00	\$ 1,741,145.55	\$ 7,008,500.00	\$ 779,826.00	\$ 992,094.00	
Total construction costs		\$ 1,854,333.70	\$ 104,193,210.54	\$ 2,561,698.04	\$ 11,081,818.13	\$ 47,566,160.78	\$ 4,386,765.00	\$ 5,483,850.64	
TOTAL PROJECT COSTS		\$ 1,854,333.70	\$ 104,193,210.54	\$ 2,561,698.04	\$ 11,081,818.13	\$ 47,566,160.78	\$ 4,386,765.00	\$ 5,483,850.64	
TOTAL PROJECT COST ADJUSTED TO SEPTEMBER 2020		\$ 1,868,000.00	\$ 98,746,000.00	\$ 2,601,000.00	\$ 11,771,000.00	\$ 50,523,000.00	\$ 4,560,000.00	\$ 5,701,000.00	
Recurring	Debt service [interest rate & term (years)]		\$ 93,801.66	\$ 5,270,624.16	\$ 129,583.76	\$ 560,574.90	\$ 2,406,139.08	\$ 221,904.95	\$ 277,401.14
	Operation & Maintenance		\$ 37,086.67	\$ 2,083,864.21	\$ 51,233.96	\$ 221,636.36	\$ 951,323.22	\$ 87,735.30	\$ 109,677.01
	Other (i.e., public awareness campaign)		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL ANNUAL RECURRING COSTS		\$ 130,888.33	\$ 7,354,488.37	\$ 180,817.72	\$ 782,211.26	\$ 3,357,462.30	\$ 309,640.25	\$ 387,078.16	