

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

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

		<b>FMP</b>	<b>033000007</b>	<b>033000008</b>	<b>033000016</b>	<b>033000030</b>	<b>033000031</b>	<b>033000033</b>	<b>033000036</b>
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
		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
<b>TOTAL PROJECT COSTS</b>			<b>\$ 1,854,333.70</b>	<b>\$ 104,193,210.54</b>	<b>\$ 2,561,698.04</b>	<b>\$ 11,081,818.13</b>	<b>\$ 47,566,160.78</b>	<b>\$ 4,386,765.00</b>	<b>\$ 5,483,850.64</b>
<b>TOTAL PROJECT COST ADJUSTED TO SEPTEMBER 2020</b>			<b>\$ 1,868,000.00</b>	<b>\$ 98,746,000.00</b>	<b>\$ 2,601,000.00</b>	<b>\$ 11,771,000.00</b>	<b>\$ 50,523,000.00</b>	<b>\$ 4,560,000.00</b>	<b>\$ 5,701,000.00</b>
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	\$ 1,854.33	\$ 104,193.21	\$ 2,561.70	\$ 11,081.82	\$ 47,566.16	\$ 4,386.76	\$ 5,483.85	
	Other (i.e., public awareness campaign)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>TOTAL ANNUAL RECURRING COSTS</b>			<b>\$ 95,655.99</b>	<b>\$ 5,374,817.37</b>	<b>\$ 132,145.45</b>	<b>\$ 571,656.72</b>	<b>\$ 2,453,705.24</b>	<b>\$ 226,291.72</b>	<b>\$ 282,884.99</b>