

Table 11 - Event Damage (Avenida de la Playa)
Appendix 7-2

Hydrologic Event	Event Probability	Damage if Flood Structures Fail	Probability Structural Failure		Event Damage		Event Benefit (Million \$)
			Without Project	With Project	Without Project	With Project	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
					(c) x (d)	(c) x (e)	(f) – (g)
1-Year	1	\$225,285	0.5	0	\$112,643	\$0.00	\$112,643
5-Year	0.2	\$286,866	0.75	0	\$215,150	\$0.00	\$215,150
10-Year	0.1	\$429,415	1	0	\$429,415	\$0.00	\$429,415

Damage if Flood Structure Fails	structure	main	Business Losses	Public Assets Degradation	TOTAL
1-Year	\$159,785	\$47,000	\$8,000	10,500	\$225,285
5-Year	\$217,366	\$47,000	\$12,000	10,500	\$286,866
10-Year	\$359,915	\$47,000	\$12,000	10,500	\$429,415

No of small - Med Businesses	Est. Business net profit losses	Avg Annual no of days of loss	Net Avg Business loss
8	\$500	2	\$8,000
8	\$500	3	\$12,000
8	\$500	3	\$12,000

Business losses for 8 small to medium size business if AdIP.
 These are a net profit of no less than \$500/day per business

**Table 12 - Present Value of Expected Annual Damage Benefits
Appendix 7-3**

Project: Avenida de la Playa Storm Drain & Low Flow Diversions

(a)	Expected Annual Damage Without Project (1)		\$112,643
(b)	Expected Annual Damage With Project (1)		\$0
(c)	Expected Annual Damage Benefit	(a) – (b)	\$112,643
(d)	Present Value Coefficient (2)		\$14.50
(e)	Present Value of Future Benefits Transfer to Table 20, column (e), Exhibit F: Proposal Costs and Benefits Summaries.	(c) x (d)	\$1,633,119

(1) This program assumes no population growth thus EAD will be constant over analysis period.

(2) 6% discount rate; 35-year analysis period

