

Rio Guayanilla Flood Risk Management Supplemental Study

Guayanilla, Puerto Rico



US Army Corps
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Residual Risk



Expected Average Annual Damages	Future Without Project (\$000)	Residual Damages-Recommended Plan (\$000)
Total Damages	\$ 19,844	\$ 579
0.1 AEP (10 year)	\$ 36,161	\$ 39
0.02 AEP (50 year)	\$121,167	\$ 383
0.01 AEP (100 year)	\$174,135	\$ 833
0.002 AEP (500 year)	\$277,834	\$76,641
Expected Life Loss 0.01 AEP (100 year)	8	0
Expected Life Loss 0.002 AEP (500 year)	29	1

FY2020 Price Levels; 50 year period of analysis;
2035 base year. 2.75% FDR



Flood damaged grocery store from Hurricane Maria



Flooding along PR-127
Hurricane Maria

Public Input & Our Team



- Over 200 people attended both the scoping and draft report public meetings.
- Overwhelming support for the proposed plan.



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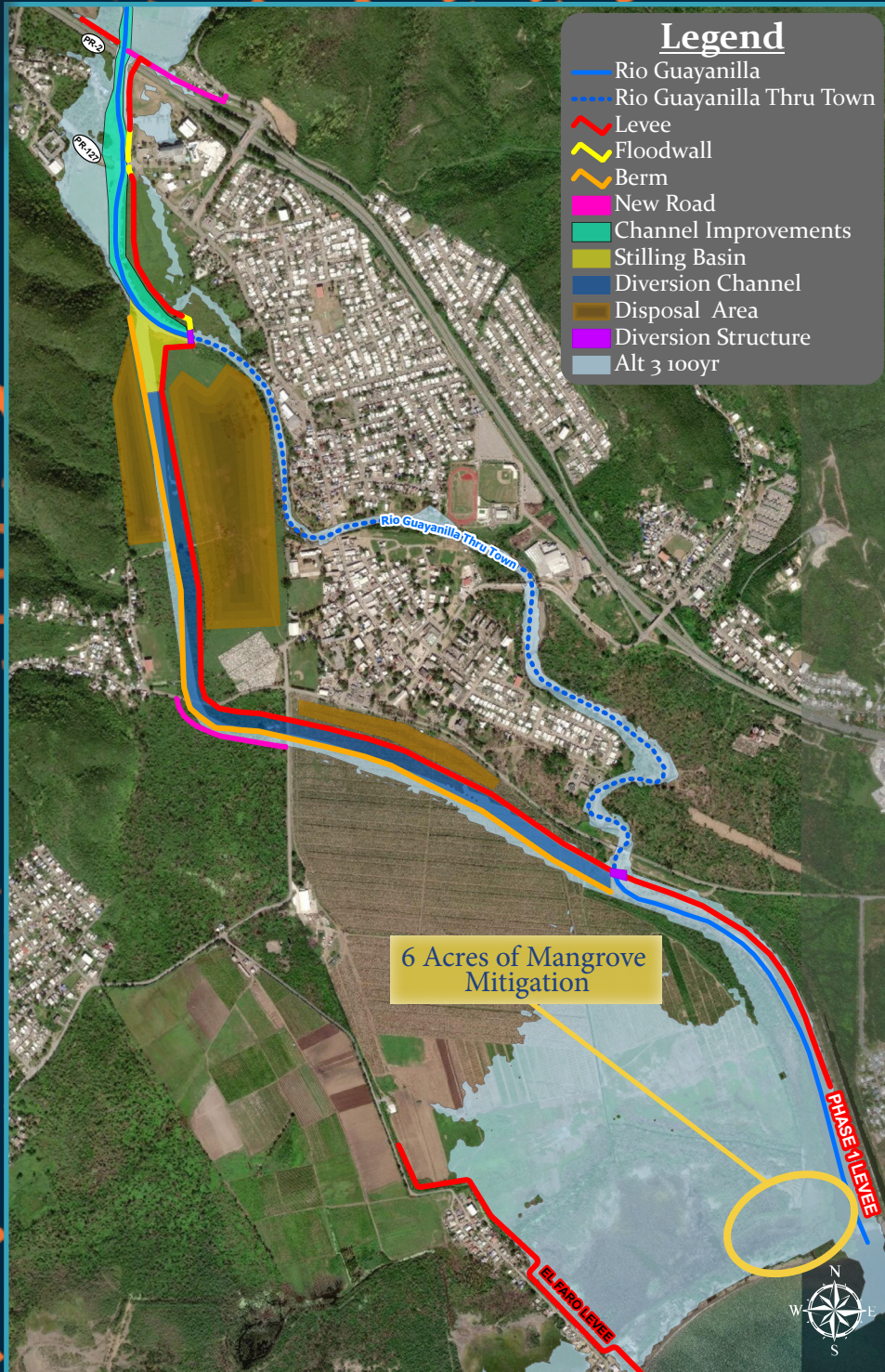
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Recommended Plan



Project Costs & Benefits

Total First Cost	\$154,341,000
Federal Contribution	\$100,806,000
Non-Federal Contribution	\$53,535,000
Average Cost	\$6,071,000
Average Annual Benefits	\$20,022,000
Net Benefits	\$13,951,000
BCR @ 2.75%	3.3
BCR @ 7%	1.6

Conservation for T&E Species



Puerto Rican
Boa



Puerto Rican
Nightjar

Recommended Plan Features

3,900 LF of Conveyance Improvements
15,545 LF of Levee/Floodwall
9,000 LF of Diversion Channel
8,555 LF of Berm
2 Diversion Structures
3 Roads relocated (2,522 LF)
6 Acres of Mitigation
Flood Warning & Response Plan

With Project - 0.01 AEP
Estimated Life Loss = 0