

FACT SHEET: HSDRRS Armoring

Program Overview

Armoring will increase resiliency against severe wave overtopping caused by hurricane storm surges greater than a 100-year storm event. The structural features of armoring can be in the form of natural or artificial material that is placed on or around a levee or floodwall. Armoring will help reduce scour and protect the integrity of the flood defense structure when confronted with severe wave overtopping from greater than 100-year storm surges.

Critical Areas Requiring Armoring

- Levee Protected Side Slopes - particularly the inflection point at the toe.
- Transition Points between levees and structures.
- Solutions will vary with location and will be determined by the overtopping flow rates and velocities.

Document Approval

- Levee Armoring Research and Documentation Report (LARDR) approved January 2014.
- Engineering Alternative Report (EAR) approved June 2014.
- Project Description Document (PDD) approved July 2014.

HSDRRS Armoring System Information

Approximately 77 miles awarded (WBV/LPV), ~\$145M

Total Armoring Budget: \$250M

77 miles total (35 miles Straight to Armoring, 42 miles Lift prior to Armoring); ~500,000 square yards of High Performance Turf Reinforcement Mat (HPTRM) & sod

Approved HPTRM manufactures: Propex, ICS-Nett, and Western Excelsior

Approved Construction Contractors: Circle, Shavers-Whittle, and BIS

Armoring Pilots – 5 manufacturers' HPTRM, ½ seed & ½ sod, ~5,000 ft

- Lake Pontchartrain and Vicinity (LPV) pilot (St. Charles) – Phase I installation and Phase II maintenance completed.
- West Bank and Vicinity (WBV) pilot (Westwego to Harvey) – Phase I installation and Phase II Maintenance completed.

LPV System Armoring

- 39 miles to be armored on East Bank; 39 miles awarded; **26 miles completed.**
- Awarded contracts (Total: approximately \$80M)

WBV System Armoring

- 38 miles to be armored on West Bank; 38 miles awarded; **21 miles completed.**
- Awarded contracts (Total: approximately \$65M)

Levee Lift Information

- Non-Federal sponsor has identified approximately 42 miles of the system to add lift prior to armoring (23 miles LPV; 19 miles WBV)

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