



WBV-18.2 Levee Lift Prior to Armoring

Avondale, LA

PROJECT START

October 2017

PROJECT FINISH

March 2019

KEY PERSONNEL INVOLVED

Andrew Woodroof, P.E.
Frank Liang, P.E., PTOE
Victoria Malley, EI
Norman Bordes
CJ Boynes

PROJECT OWNER

SE LA Flood Protection Authority West
7001 River Road
Marrero, LA 70072

OWNER REFERENCE

John Monzon, P.E., Regional Director
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DE FEE

\$149,395

CONSTRUCTION

\$2,947,000

DE, as prime consultant, provided construction administration and resident inspection services for this project.

The WBV-18.2 Levee Lift Prior to Armoring Project was designed to lift approximately 14,000 linear feet to of hurricane protection levee on the west bank of Jefferson Parish extending westward from Lake Cataouatche Pump Stations 1 and 2. Following completion of the levee lift, the US Army Corps of Engineers will begin armoring of the protected side of the levee to protect against scour from overtopping during storm surge events. The levee will be lifted approximately 2.5 feet over the length of the project.

Inclement weather proved to be a significant challenge throughout the project. Eight months into construction there have been over 60 rain days which caused significant delays, making it difficult for the contractor to complete the job on time. In terms of Construction Administration and Resident Inspection, this put strain on Digital Engineering's contract as a limited budget was available for inspection for a project that stretched much longer than anticipated.

Another challenge on the WBV-18.2 project was ongoing coordination and verification of results between the Quality Control Testing Laboratory for the contractor and Quality Assurance Testing Laboratory for DE. Upon obtaining the initial set of reference Proctor results, DE immediately found discrepancies between the QC and QA laboratory results. As the project progressed, detailed reviews by DE continued to unveil errors in the QC testing results. By thoroughly examining the results with SLFPA-W and the contractor, DE identified the sources of errors in the QC testing process. The contractor was then able to correct these issues with the Quality Control Laboratory, resulting in consistent results for the remainder of the project.