COASTAL PROTECTION AND RESTORATION AUTHORITY BOARD

U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT UPDATE

COL Cullen Jones, P.E., PMP Commander 21 August 2024

US Army Corps of Engineers®





WEST SHORE LAKE PONTCHARTRAIN







Complete Work

- Levee Test Section (WSLP-101)
- Sand Placement 1 & 2
- Clay and Sand Stockpile
- Access Road Construction
- Pile Load Testing

Ongoing

- Awarded nine contracts totaling over \$360M in levee construction representing 14.5 of 18.5 total miles of levee and floodwall
- WSLP-110 final inspection scheduled for August.

Upcoming

- Consolidated Appropriations Act of 2024 has freed up \$450MM of DRSAA -17 funding, specifically Resiliency construction funds.
- WSLP contracts 109 and 114a expected to being awarded in FY2024, 114 being awarded in FY25 and 103a & 110a are expected to be awarded in FY26
- WSLP-115 St James EDR scheduled to be completed in Aug 2024

St James Resiliency Study

VTAM Memo is at HQ for review.

US Army Corps of Engineers. NOV – WILKINSON CANAL PUMP STATION



Pump Station Design Capacity and Status

Design capacity: 1,000 cfs (4 pumps @ 250 cfs each)

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- Current capacity: 500 cfs (Pumps 1 & 2 @ 250 cfs each)
- Hurricane Season 2024: 2 pumps operational (Pumps 1 & 2), PS @ 50% capacity. Pump #3 available at reduced capacity (1500 rpm).
- Hurricane Season 2025: Pumps 1-4 operational, PS @ 100% capacity
- Simulations show that reduced pump capacity has no impact on water levels at HWY 23, assuming road is at elevation 0 to 2 ft NAVD
- The 25-year event is not expected to threaten HWY 23

Pump Operation and Repair Tracker





Project Timeline

May 2021 – Wilkinson PS Technical Services contract awarded *Feb 2022* – Pumps #3 & #4 removed for repairs, PS operates at 50% capacity

Apr 2023 – Pumps #3 & #4 returned for reinstallation. Pump #4 shutdown during trial run on 04/28. Pump #3 operated successfully.

May 2023 -Dec 2023 Pump #4 removed, returned to the shop, disassembled, and inspected. Ctr determined replacement of keel coolers was required for Pumps #3 & #4.

Jan 2024 - NOV-NF-W-05b.1b contract expired.

Jan 2024 thru Jul 2024 – PDT determined path forward, developed Performance Work Scope (PWS) for new contract and requirements for T4C of previous contract.

Aug 2024 – Awaiting SBA approval of JV.

Q1FY25 - New Contract Award (NOV-NF-W-05b.2b)



Pumps 1 & 2: Currently operational; to be removed for service/maintenance.

Est. Final Return to Service: TBD. Dependent on NOV-NF-W-05b.2b contract award

Pump 3: Wet test complete; operational at reduced capacity (1500 rpm)

Est. Final Return to Service: TBD. Dependent on new contract award (NOV-NF-W-05b.2b)..

Pump 4: Repairs on hold until new contract awarded; Est. Final Return to Service: TBD. Dependent on new contract award (NOV-NF-W-05b.2b)..



The study area is located between Bayou Lafourche and the Mississippi River, from Crown Point to the Lower Lafitte Basin

Lafitte Study Area



CHALLENGES / SUCCESSES

- First Milestone (Alternative Management Milestone) was completed on 18 December 2023
- At this milestone the team identified 11 alternatives including both structural and non-structural features to move forward into the final array of alternatives.
- The scope of these alternatives resulted in estimated cost of \$6.8 Million to complete the study, exceeding the \$3 Million cost to complete studies.
- The team revisited the array of alternatives and using data from a previous study, Donaldsonville to the Gulf, was able to screened out structural alternatives.
- This brought the estimate cost to complete to \$3.8Million.

STATUS

- The team is moving forward with analysis of non-structural alternatives
 - Alternative 1: No Action Alternative
 - Alternative 2: Comprehensive plan to minimize impacts to community through community resiliency and nonstructural features
 - Alternative 5: Community resiliency alternative
 - Alternative 6: Nonstructural plan
- Future Without Project is under development.
- Revised Vertical Team Alignment Memo which lays out the scope schedule and budget is currently with MVD under review.

PATH FORWARD

- Continue the Development of Future Without Project.
 - Run new required G2CRM economic Models to verify the PDT's decision to screen out structural alternatives
- Project Schedule:
 - Tentatively Selected Plan Milestone: 15 March 2025
 - Public Review of Draft Report: 15 May 2025
 - Signed Chief's Report: 15 June 2027



UPPER BARATARIA BASIN

Overview

- Chiefs Report signed in January 2022
- Record of Decision Signed by ASA(CW) in May 2023
- 30-mile levee and floodwall system
 - Pre-construction Engineering & Design (PED) Underway
 - 100% Federally Funded
 - \$8M Funded via DRSAA
 - Draft P&S for Reach G East
- Agreements
 - 24 May 2022: Work In-Kind MOU with CPRA
 - 26 Sept 2022: Design Agreement with CPRA

Current Status

- Value Engineering Study Complete May 2024
- Field Investigations and Hydraulic Modeling Nearly Complete
- Initiating 35% Design





Reach G East





BELOW THE LINE



AMITE RIVER & TRIBUTARIES FEASIBILITY STUDY

Overview

- Chiefs Report by February 2025
- -100% Federally Funded
 - Feasibility Study Currently Underway
 - \$4.91M funded
 - 03 APR 2024: ADM Milestone
 - 11 October 2024: Final Report Milestone
 - 20 February 2025: Chief's Report Milestone

Current Status

- -Nonstructural course of action approved as TSP
- Final Report draft complete and is currently under ATR review
- LaDOTD has expressed confidence in MVN's selected design alternative and continues to collaborate closely at the PDT level to generate all necessary components of the Final Report





TANGIPAHOA PARISH FRM STUDY

Overview

- Chiefs Report by May 2026
- -100% Federally Funded
 - Feasibility Study Underway
 - 100% Federally Funded
 - \$3.48M Funded via DRSAA
 - 20 May 2024: TSP Milestone
 - 07 August 2024: Public Review Begins
 - 27 January 2025: Agency Decision Milestone
- Agreements
 - 08 Nov 2022: FCSA with CPRA

Current Status

- Plan 3b (Total Net Benefits Plan) approved as TSP
- Proceed with review processes, Feasibility Level Design of TSP, and expand outreach efforts
 - Use lessons learned from Southwest Coastal, Amite, and St. Tammany on nonstructural and outreach





WSLP FWOP VS FWP: STPFS FOCUS

- BLUF: negligible impacts of WSLP on STPFS
- One, 500 Year Event modeled
 - 0.09 Feet of WSE change
- Regression analysis completed.
 - 0.07 WSE change for 100 year event.



POINT CELESTE PUMP STATION

Pump Station Design Capacity and Status

- Non-Federal pump station
- Design capacity: 520 cfs
- Current capacity: ~275 cfs (as reported by PPG)
- USACE completed 50-year level of risk reduction for fronting protection and turned over to NFS in 2022
- Temporary pumps provided following Hurricane Ida as part of USACE Unwatering Mission
- Non-Federal sponsors requested to utilize a portion of DRSAA 2022 funding to expedite rehab/replacement of Point Celeste PS under the authority of Sec. 8152 of WRDA 2022.
- Program Guidance for Sec.133, WRDA 2020, Rehabilitation of Corps of Engineers Constructed Pump Stations as amended by Sec. 8152, WRDA 2022, Rehabilitation of Pump Stations was received on 28 May 2024. The Rehabilitation of Pumps program has not yet been funded.
- PPG, as the non-Federal interest with O&M responsibility for the pump station, submitted Letter of Intent (LOI) 2 to ASA(CW), 28 Jun 2024.

