

LAKE BORGNE BASIN LEVEE DISTRICT  
MONTHLY STATUS REPORT  
Operations Committee Meeting November 3, 2011

**Levees:**

- Maintenance Crews:
  - Have completed 8th cutting of the season on the MRL and completed the 8<sup>th</sup> cutting of the season on the Non-Federal Levee.
  - Have noted sporadic minor to moderate hog damage (see below 2 pictures) to the flood side of the Non-Federal Levee between PS #3 & PS #5. Since the high water event of “Tropical Storm Lee” more extensive hog damage has been noticed on the levee between PS #7 & PS #5.



- Have continued the process of clearing beaver dams on the MRL in order to drain problematic areas on the batture. This effort is ongoing.
- Have continued with efforts to push debris off the ROW on the batture. The batture has now been cleared from Caernarvon to the Kaiser Landfill, just short of the beginning of the flood wall.

**USACE LPV Projects:**

LPV 144 (Bayou Dupre Control Structure):

Overall, the Work is approximately 97% complete. The contractor is currently replacing rip rap, installing jib cranes, continuing the installation of handrails and establishing turf. Sub-Contractors are demobilizing crane mats, and continuing driving pile for the fender system.

LPV 145 (Bayou Bienvenue to Bayou Dupre):

The project is 99% Complete. The USACE has instructed the Contractor to use uncoated steel sheet piles and H-piles on this project in order to meet schedule demands. Construction is complete. The final inspection was held on August 23, 2011. The stabilization slab saw cutting modification has been completed. The bridge to island has been removed. Turf establishment is ongoing. The Project will be inspected week of 11-14-11.

LPV 146 (Bayou Dupre to Verret):

The USACE has instructed the Contractor to use uncoated steel sheet piles and H-piles on this project in order to meet schedule demands. The work is 99% complete. All wall monoliths are in place. The emergency by-pass ramp for LA HWY 46 has been completed and paved. Interim inspections of the T-Wall monoliths are complete. The final inspection was held on August 23, 2011. The stabilization slab saw cutting has been completed. As-Built and O&M Manual are under review by USACE.

LPV 147 (LA Hwy 46 Flood Gate):

The work is 99% complete. Both Trolley Gates are in place and exercised. The USACE has eliminated the emergency stand-by beams for all Trolley Gate projects in the St. Bernard Polder. The LA Hwy 300 Flood Gate has been constructed under the LPV 148.02 Project. The final inspection was held on August 5, 2011. Grass is growing well.

LPV 148.02 (Verret to Caernarvon):

The USACE has instructed the Contractor to use uncoated steel sheet piles and H-piles on this project in order to meet schedule demands. Construction is now 98% complete as of this date. Floodwalls are completed and interim inspection has been completed. Turf on the flood side is growing well. Contrary to St. Bernard Parish's wishes, the USACE has determined that the Creedmore Drainage Structure is no longer needed and it has been removed from the Project without replacing the structure's drainage capacity. Work on walkways and knives valve at St. Mary's Pump Station is complete. A modification to contract to slope paves under discharge pipes and on protected sides of levee at Pump Station is underway.

LPV 149 (Caernarvon Floodwall – Lake Borgne Basin Levee District):

The Work is approximately 99% complete. All 90 day breaks (lifts one and two) exceed the minimum requirements for compressive strength. CPRA has contracted with AECOM to provide technical assistance regarding the concrete issues on this structure. AECOM inspected the structure. Several areas of concern were identified in the sections that contain the 90 day (slow setting) concrete. AECOM recommended additional testing. Core sampling was completed on 10-26-11. All repairs have been completed and the sector gates are operational. The structure has been flooded. Fender system is being installed. Pre-final inspection was completed on October 21, 2011.

**PUMP STATIONS:**

- Damaged Pump #3 at Pump Station #7. After the determination was made that this project would be a service rather than a construction project, a purchase order was issued to Conhagen to remove/transport and troubleshoot the pump. Investigations were performed in-house by Conhagen and also requested from Stress Engineering Services Inc. of Metairie Louisiana. Both reports have been received by LBBLD and are being reviewed in order to determine the appropriate course of action for repair. More radii in the keyway, harder shaft steel and a one piece coupling seem to be the answer at this time.



- Engine Replacement for Pump Station #4. BKI provided 95% submittal to LBBLD on 08-21-11. Response to this submittal was provided to BKI. BKI is to provide to LBBLD final documents for advertising and bidding by November 21, 2011.

- Emergency Repairs to Pump Station #3 (PW# 19658). A final inspection was completed at the project site on 08-10-11. A contract modification for purchase of sheetpile (instead of removal) has been signed by both the contractor (Sopena Corporation) and the LBBLD. This increased the total project amount to \$149,723.50 from \$136,623.50. This results in a net change of +\$13,000. The FEMA PW for this project is obligated. Project costs are being compiled and will be provided to FEMA for Scope Alignment.
- Seepage at Pump Stations #2 and #3. FEMA PWs (PW 19658 and 19659) were approved and signed by the LBBLD on 05-24-11. The exploratory geotechnical phase (phase 1) of the project has been completed. An updated construction cost estimate of \$2,942,418 for Pump Station #2 and \$2,422,302 for Pump Station #3 were provided to the LBBLD by WS Nelson. Fees for the Preliminary Engineering Phase, Design Phase, and Construction Phase (for basic construction services) were also provided to the LBBLD on 08-05-11. Per Board Resolution adopted on 09-15-11, SLFPA-E authorized LBBLD to execute an amendment to the existing contract to increase the scope of work to include the preliminary engineering, design and basic construction phases for phase two of the project with a lump sum amount not to exceed \$264,260. Contract documents are in agreement and were signed and submitted to WS Nelson on October 28, 2011. A 30% Submittal is due to the LBBLD in the first week of January, 2012. The FEMA PW for this project is obligated.
- Repairs to Pumps 1, 2, and 3 at Pump Station # 6. LBBLD has provided 95% comments to Atkins Global. Atkins Global provided 100% Submittal on 09-07-11. An updated cost estimate was provided by Atkins Global on 10-04-11 for approximately \$674,000. Advertising and bidding documents were provided by Atkins Global on October 24, 2011. These documents are under review by LBBLD staff and attorney. The FEMA PW for this project is obligated
- Remote Control/Telemetry for PS #2 and #3. An updated cost estimate was provided to LBBLD on 10-12-11. The estimate is considerably lower than that previously provided. LBBLD is in the process of determining and substantiating these cost differences.
- Fronting Protection PS #6. Meeting was held on October 13, 2011 with Tom Roberts, EMS Green (Erosion Control), and LBBLD. A site visit was conducted. Constructability methods and costs were discussed. Tom Roberts is to furnish cost estimate by first week of November. The FEMA PW for this project is obligated.
- Corrosion on Discharge Pipes at PS #6 and PS #7. A Version request for PS#6 and #7 was submitted for this PW on 10-13-11 with an updated cost estimate of \$212,422. The FEMA PW is currently not obligated.
- Pump Station #8 Fronting. The Fronting Project at Pump Station #8 is nearing completion (see picture below). The access stairs to the top of the gate valves have been installed. Wiring for the actuators to raise and lower the valves has been completed and the proper controls installed. A pre acceptance meeting was held to demonstrate the gates in action and set the limit switches. All seemed to work well and Cajun Construction has ordered the indicator cover tubes for the valve stems.



**Canals:**

- Maintenance Crews:
  - Have completed a 2<sup>nd</sup> round of cutting on all accessible canal flats within our system. Several areas are not accessible due to contractor material and debris associated with the SBPG canal crossings projects as well as SBPG road repair projects.
  - Have completed the 1<sup>st</sup> round of cutting on all canal slopes system wide.
  - Have initiated the 2<sup>nd</sup> round of slope cutting and completed cutting all canal slopes from the Rail Road Ditches in Arabi, west to the Oak Ridge Sub-Division.
  - Have cleared and sprayed all culverts and strategic areas along ROWs on Green Avenue Canal, South Lake Ditch, all areas necessary on both sides of Violet Canal, East & West R/R Ditches, Eickes Canal, Eickes Canal Extension, and Guerenger Canal.
  - Have temporarily blocked access to the Greene Avenue Canal ROW between Farmsite Road and the end of Green Avenue with fallen trees. Ultimately LBBLD crews will build gates to control access to the ROW.



- Have cleared various canals of fallen trees and other debris that could potentially obstruct flow.
- The owner of the Sudsy Sam's Car Wash @ Eickes Canal & Judge Perez rectified the issue of the water discharging from the rear of his building onto LBBLD's ROW on 10-12-11. LBBLD crews have redressed the area.



- Erosion – Guichard Canal – LBBLD is coordinating with John Gordon of Erosion & Environmental Systems, L.L.C. regarding a test project employing the Deltalok Bank Stabilization system. We have met with Mr. Gordon and are encouraged by the possibility of discovering a low cost solution to stabilize this bank as well as other similar situations throughout our canal system.



- Received a complaint from a resident located at 20 Arpent Canal & Campagna Drive in regard to sloughing off of the bank material directly adjacent to her house. The sloughing on this bank has escalated as a direct result of rainfall associated with Tropical Storm Lee. LBBLD has identified this location as an excellent test project for the DeltaLok bank repair system. EMS Green representatives have met with us and we are working to formulate a plan of action and execute immediately.



- Have filled holes and graded the ROWs on access to the Violet Ditch from the south side of the Judge Perez Bridge and also the Green Avenue Canal between St Bernard Hwy and the S-turn just before Flamingo Drive.



- **Violet Siphon.** Both tubes have ceased to flow due to low river stages. Noted 9/12/2011.
- On 10-11-11 LBBLD held a public meeting in the St. Bernard Parish Council Chambers to discuss its application to FEMA for funding to construct a safe room near drainage pump stations #1 and #6.