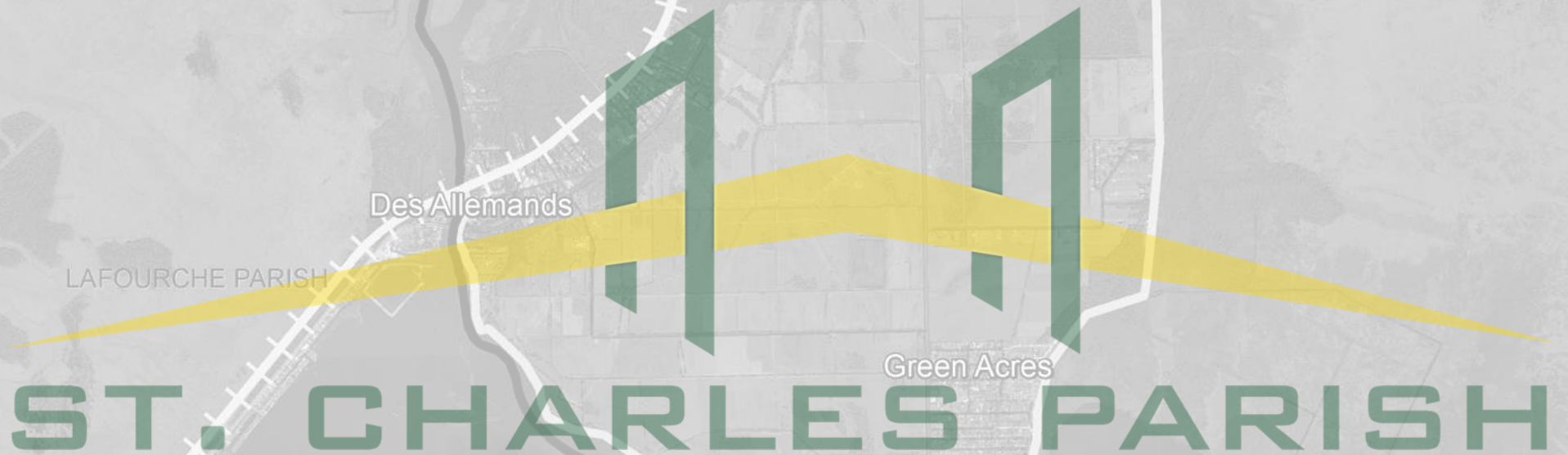


# Sunset Drainage District Status Report St. Charles Parish Council June 16, 2014





# Cooperative Endeavor Agreement

- In May 2014, St. Charles Parish and the Lafourche Basin Levee District (LBLD) entered into a Cooperative Endeavor Agreement for Operation and Maintenance (O&M) of the West Bank Hurricane Protection Levee including the Sunset Drainage District.
- The LBLD assumed O&M of the earthen levee portions of Sunset on June 2, 2014.
- Parish retains the responsibility of O&M of any pumping stations and flood control structures that fall within Sunset.



# Sunset Pump Station



- Installed a temporary 24" hydraulic pump to offset some of the capacity lost while completing engine and pump maintenance.



# Engine Maintenance

- Service and tune-up work to 3 natural gas engines (oil, filters, gaskets, spark plugs, thermostats and anti-freeze).
- Purchased and installed new radiator on Engine #1. Rebuilt radiator from Engine #1 and installed it on Engine #2. Radiator for Engine #2 is being rebuilt for installation on Engine #3.
- Purchased and installed new power take off (PTO) clutches on Engine #1 and Engine # 2.



# Pump Station Generators

- Purchased a new generator to replace the existing generator for the pump station. New generator will be installed by the end of June.



- Purchased and installed an auto transfer switch, poured concrete pad, and installed hardwires to mount the portable generator in permanent location.



# Sunset Building Maintenance



- Constructed a bathroom in the shop building.
- Purchased 40' storage container to store tools, spare parts, and mowing equipment.
- Completed engineering plans for asbestos removal with plan to advertise for bids in the near future.



Bayou Gauche



# Levee Encroachments





# Levee Right-of-Way

- Clear, unobstructed, and certifiable right-of-way is required by FEMA under 44CFR65.10, therefore removal of fences and gates on the levee is required.
- Prepared letters to property owners notifying them that any obstructions in/on the levee must be removed as to not impede maintenance



# Canal Cleaning and Maintenance

- Removed three large trees from Grand Bayou between Hwy. 90 and the wooden bridge with assistance from other parish workers.
- Installed telemetry activated high canal water level alarm that will sound and at an inlet canal level of -7' telemetry alerting on call personnel to pump down at Sunset.

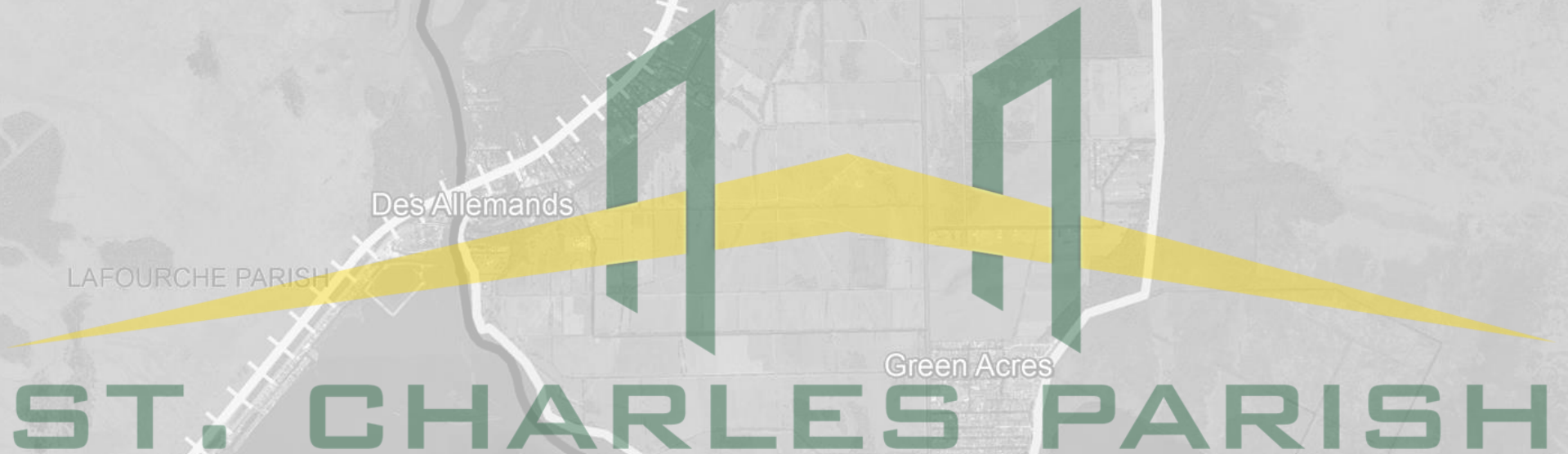
# Equipment Maintenance

- Purchased a new spray unit to replace nonfunctioning spray unit. The unit is truck mounted and will allow for spraying areas that are not sprayed by boat.
- Purchased 18' Aluminum boat to replace the privately owned boat that was being utilized.
- Service, inspect and certify overhead crane.





# 6/2/14 UPDATE TO LEVEE DISTRICT BOARD FROM CB&I



## ☐ Hurricane Protection Project

### ■ RECAP March 2014:

- Final Draft Report and Analysis Completed for the UBB Project.

LBLD, CB&I & CPRA on March 21<sup>st</sup> to discuss results.

- CPRA suggested doing additional analysis (including rainfall) and re-evaluate the cost effectiveness prior to making any recommendations
- April - May 2014:
  - CB&I has begun to evaluate previous studies completed by USACE on H&H analysis for Donaldsonville to the Gulf
    - Submitted a list of questions and follow-up information to CPRA on the final draft report and upcoming rainfall analysis
  - CPRA responded and has given LBLD the option of leading the rainfall modeling effort. Prior to moving forward, CB&I has recommended that LBLD contact Corps and attempt to obtain the H&H models completed by the Corps for D2G for us in the on-going analysis.
  - With approval, CB&I could provide a proposal to coordinate with the Corps on behalf of LBLD and attempt to acquire and review the available information.





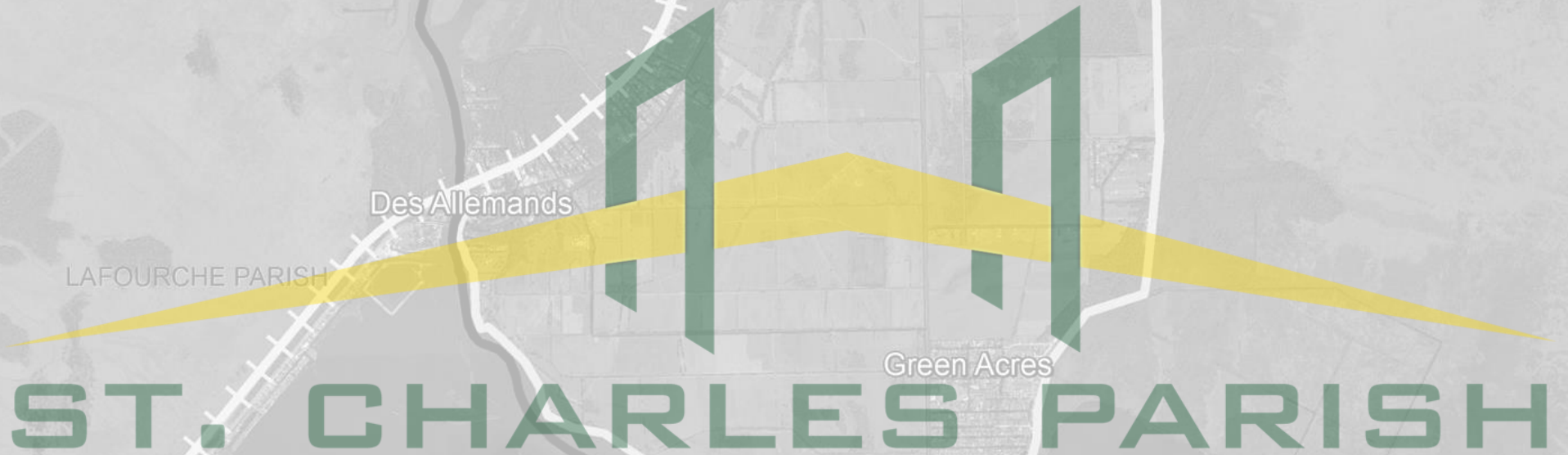
- Sunset Drainage District Levee Survey
  - Final Topographic Survey submitted to LBLD on March 31<sup>st</sup>
  - Started the Hydrographic Survey of Bayou Des Allemands and Paradis Canal
    - Field Work Completed
    - Processing Currently Being Conducted
    - Additional Hydro Survey will be utilized in the geotechnical analysis to evaluate the existing levees.



- Recap of Geotechnical Work (Feb. – May 2014)
  - All Preliminary Borings/CPT completed
    - Six (6) 5” Borings
    - Thirty Seven (37) CPT Borings
    - 42 of 210 Borings/CPT Completed (20%)
  - Engineering, Testing and Lab Work Ongoing
  
- Current and Upcoming Geotechnical Work (June 2014)
  - Preliminary results to be reported once Hydrographic Surveys are completed
    - Information from preliminary results will be used to develop preliminary typical section and a final boring layout plan
  - After approval from LBLD, CB&I and PSI will meet with CPRA to review the final boring layout plan



# FEMA LAMP PROCESS



# Remapping & LiDAR Data

- Parish is scheduled to receive LiDAR data for the entire Parish on June 20<sup>th</sup> that will provide updated/current elevation data for use in modeling efforts.
- This new data will allow the model to account for natural ridges and elevations not currently in FEMA's model.
- Anticipate next meeting with FEMA Region 6 in mid-August.



**THANK YOU.  
QUESTIONS?**

Paradis

Vallier

ST CHARLES PARISH

Des Allemands

LAFOURCHE PARISH

Green Acres

**ST. CHARLES PARISH**

Bayou Gauche