



## Agenda Item Executive Summary

**Title:**

### Stormwater Monthly Summary Report

**Presenter:**

Blaise Gravois, Director of Operations/St. James Parish

**Agenda Date:** 03/07/2018

Ordinance  Resolution  Bid Authorization/Award  Policy Direction  Informational Only

**Consent:**  YES  NO

#### Item History:

Monthly Report

#### Executive Summary:

The St. James Parish Council has placed a standing agenda item in its regular meeting agenda for updates on the parish's progress toward implementation of the East Bank Stormwater Master Plan. This monthly report brings together status, cost and schedule information for the various goals and action plans in one place.

The report includes a summary Agenda Report, which provides a brief outline and summary of progress on all active action plans within the Master Plan.

#### Recommendation:

Approve funding to award a contract to Burk-Kleinpeter, Inc. (BKI) to develop a hydrology model of the east bank at a cost of \$20,000 to determine the benefits of implementing short-term Aquadam project in phases as funds become available.

#### Attachments:

1. Agenda Report

## Agenda Report

**Subject:** East Bank Stormwater Master Plan Update – March 2018  
**Presented By:** Blaise Gravois, Director of Operations/St. James Parish  
**Date:** March 8, 2018

### East Bank Stormwater Master Plan

#### Background

In the fall of 2014, the parish created an East St. James Parish Flood and Drainage Task Force. The group worked for a period of roughly three years and prepared an East Bank Stormwater Master Plan. The plan was unanimously approved by the Parish Council on February 7, 2018 at their regular meeting. The East Bank Stormwater Master Plan is intended to serve as a guide to parish policy and decision making over the next five to ten years and should be updated periodically as objectives are accomplished and goals are met.

#### Budget Summary

The East Bank Stormwater Master Plan was prepared at no cost to the parish. However, much of the information relied upon for plan development was taken from the Master Drainage Plan prepared by Burk-Kleinpeter, Inc. (BKI) at a cost of approximately \$389,000 of which 50% was funded by the Pontchartrain Levee District (PLD).

#### Active Action Plans

##### OPERATIONS AND MAINTENANCE

##### **Objective B: Schedule and fund regular maintenance of all drainage systems.**

The parish is actively engaged in obtaining “rights of way” permits for all drainage systems.

##### STORMWATER SYSTEM IMPROVEMENTS

##### **Objective C: Greatly improve stormwater drainage on the East Bank of St. James Parish so there is no flooding during a 10-year storm.**

**Goal 1:** To replace all damaged/crushed and/or undersized culverts as recommended in BKI’s Master Drainage Report.

**Action Plan 1:** Replace the 6 undersized Hwy 3125 culverts as identified by BKI within the next 3 years at an estimated cost of \$1.5MM.

**Status:** The Parish is working to solicit funding from the Department of Transportation.

**Action Plan 2:** Replace the roughly 1178 damaged/crushed or undersized culverts identified by BKI within the next 10 years at an estimated cost of roughly \$4.6MM.

**Status:** The parish drainage crew has initiated this effort beginning at Humble Street, North and South Angelle Streets, and Kenmore Street. Prioritization efforts will be completed when funding to complete this project becomes available.

**Action Plan 3:** Replace the 37 undersized Railroad culverts as identified by BKI within the next 5-10 years at a cost of \$1.1MM.

**Status:** In 4<sup>th</sup> quarter 2017 a second culvert was added in Belle Rue Subdivision in Lutcher at a cost of \$89,000. The parish is actively pursuing additional funding for the remaining culverts. In most, if not all cases, a second culvert will be added rather than replacing the existing undersized culvert.

## **STORM SURGE PROTECTION**

### **Objective D: Improve storm surge protection on the East Bank**

**Goal 1:** To implement a short-term solution for storm surge protection and continue efforts to identify a feasible and cost-effective long-term solution.

**Action Plan 1:** Implement the short-term solution (Aquadam with sheet pile structures with gates/pumping stations to block backflow from Blind River) at an estimated cost of \$30MM.

**Status:** The parish is actively working to identify opportunities to reduce the cost of this solution.

**Recommendation:** Approve funding to develop a hydrology model of the east bank at a cost of \$20,000 to determine the benefits of implementing this project in phases as funds become available.

**Action Plan 2:** Continue efforts to identify a long-term solution to storm surge protection.

**Status:** In January 2018, the parish received word that GOMESA funding in the amount of \$500,000 has been approved for 2018 and again in 2019 to be used to fund the 30% Design Phases 1-3 of the Inner Levee Alignment proposal defined in the Master Plan.

## **FLOOD WARNING AND RESPONSE PLAN**

### **Objective E: Enhance the early warning and response systems needed in the event of potential flooding whether from stormwater or storm surge.**

**Action Plan 1:** Purchase and install level gauges at strategic locations.

**Status:** The Department of Emergency Preparedness has purchased 3 ruler-type level gauges and will be installing them in the near future.

### **Completed Action Plans**

## **PARISH GOVERNMENT**

### **Objective A: Make drainage and flood protection a parish priority**

**Goal 1:** To review and promote progress on the East Bank Stormwater Master Plan monthly.

**Action Plan 1:** Approve the East Bank Stormwater Master Plan as presented by the East Bank Drainage and Flood Protection Task Force. - Approved on February 7, 2018.

**Action Plan 2:** Once approved, add East Bank Stormwater Master Plan Review as a standing agenda item at one of the regularly scheduled council monthly meetings. – Initiated beginning March 2018.