



Agenda Item Executive Summary

Title:

Stormwater Monthly Summary Report

Presenter:

Blaise Gravois, Director of Operations/St. James Parish

Agenda Date: 10/3/2018

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:

The St. James Parish Council at its August 8, 2018 meeting voted unanimously to adopt a resolution ordering and calling an election to be held within the Parish on December 8, 2018 to authorize the levy of a 7-mil ad valorem tax. A tentative "Schedule of Events" for the election is shown in Attachment 1 and details for the proposed millage are included in Attachment 2.

As a result of the recent approval of the West Shore Lake Pontchartrain Project, it seems prudent to delay the tax millage election to a later date. At the September 27th West Shore Lake Pontchartrain Partnering Meeting, it was announced that the Corps will be taking a closer look at parish cost-sharing and Operations and Maintenance costs for the St. James portion of the project.

Another reason to delay the vote is the fact that the Hydraulic Branch of the Corps will be preparing a model to look at the St. James no-build option and the USACE flap gate plan. This, along with the potential of receiving additional funding which is being made available to the State, could result in a change in the amount of funding needed through a tax millage.

Attachments:

1. Agenda Report

ATTACHMENT 1

**TENTATIVE
SCHEDULE OF EVENTS
FOR
DECEMBER 8, 2018 ELECTION
PARISH OF ST. JAMES, STATE OF LOUISIANA**

06/27/18	6:30 p.m.	Parish Council announces and notifies State Senators and Representatives of intent to call election
07/05/18		Publish notice in official journal of intent to call election <i>(Deadline to submit publication to the official journal - Fri. 06/29 by Noon)</i>
08/08/18	6:30 p.m.	Parish Council calls election
08/21/18		Foley & Judell file application with the State Bond Commission and notify election officials
09/20/18		State Bond Commission approves election
10/15/18		Secretary of State deadline
09/20/18		Publish Notice of Special Election in official journal
09/27/18		Publish Notice of Special Election in official journal
10/04/18		Publish Notice of Special Election in official journal
10/11/18		Publish Notice of Special Election in official journal <i>(Deadline to submit publication to the official journal - Fri. 09/14 by Noon)</i>
12/08/18		Election
12/27/18	6:30 p.m.	Parish Council canvasses returns of election and promulgate results with Post-Election filings being made by Foley & Judell

FOLEY & JUDELL, LLP
Attorneys & Counsellors at Law
One Canal Place, Suite 2600
New Orleans, Louisiana 70130-1138
Tel: (504) 568-1249 * Fax: (504) 565-3900

ATTACHMENT 2

The St. James Parish Council has proposed a millage for the purpose as follows:

Shall the Parish of St. James, State of Louisiana (the "Parish") levy a special tax of seven (7) mills (the "Tax") on all property subject to taxation in the Parish (an estimated \$3,750,000 reasonably expected at this time to be collected from the levy of the Tax for an entire year), For a period of thirty (30) years, beginning with the year 2019 and ending with the year 2048, for the purpose of constructing and improving levee, drainage and flood protection, identified projects within the East and West banks of the Parish, including acquisition of equipment therefore and paying other cost incidental thereto, and providing for the maintenance and operation of the foregoing.

EXAMPLE of a 7 mill Tax for St. James Parish

7 mills would generate an estimated \$ 3,750,000.00 per year

Who pays the Tax?

Agricultural - Vacant Land		3.60%	=	\$	135,000.00
Commercial		3.60%	=	\$	135,000.00
Residential		8.00%	=	\$	300,000.00
Public Service - Pipelines		10.70%	=	\$	405,000.00
Industry		74.10%	=	\$	2,775,000.00
TOTAL		100%		\$	3,750,000.00

Average Residential Home @ 7 mills per year

Home Appraised Value	\$ 150,000.00	\$ 200,000.00	\$ 250,000.00	\$ 300,000.00	\$ 350,000.00	\$ 400,000.00	\$ 500,000.00
Assessment Value (10%)	\$ 15,000.00	\$ 20,000.00	\$ 25,000.00	\$ 30,000.00	\$ 35,000.00	\$ 40,000.00	\$ 50,000.00
Less Homestead Exemption	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00
Property Tax Value	\$ 7,500.00	\$ 12,500.00	\$ 17,500.00	\$ 22,500.00	\$ 27,500.00	\$ 32,500.00	\$ 42,500.00
7 mills = per year	\$ 52.50	\$ 87.50	\$ 122.50	\$ 157.50	\$ 192.50	\$ 227.50	\$ 297.50

Intentions of the St. James Parish Administration and Parish Council

It is the intention of the St. James Parish Council to call for two public hearings on this matter. The first to be held at 6:00 pm on July 11, 2018 at the Council Chambers in the Convent Courthouse. The second to be held at 6:00 pm on July 25, 2018, at the Council Chambers in the Vacherie Annex. These meetings will allow for public input on this issue. After the August 8, 2018 meeting, the Parish Council will then hold a series of Public information meetings to explain all details associated to the identified projects. These meeting dates will be announced at the August 8, 2018 Parish Council Meeting.

All questions can be sent to the Parish Council at 225-562-2400 or email council@stjamesla.com

District 2 Major Ditch/Canal Summary

Ditch/Canal Name	Length, ft	Width @ Origin	Depth @ Origin	Width @ Outfall	Depth @ Outfall	Priority	No. of Culverts	Culvert Size	Culvert Location	Cleaned Ft	Culverts Cleaned
School Side Ditch	11,000	2'	1'	30'	6'		3	5' Round	LA 3125		
Woods Canal	11,200	2'	1'	20'	4'		3	5' Round	LA 3125		
Lutcher-Moore Canal	11,300	1'	1'	20'	3'		3	5' Arch	LA 3125		
Tramonte Canal	11,000	1'	1'	15'	3'		2	4' Arch	LA 3125		
Reynaud Canal	11,000	4'	3'	8'	5'		3	4' Round	LA 3125		
Weil Ditch	12,200	1'	1'	12'	3'		2	42" Arch	LA 3125		
Total District 2	45,500	---	---	---	---		16	---	---		
Miles	9	---	---	---	---		---	---	---		---

District 3 Major Ditch/Canal Summary

Ditch/Canal Name	Length, ft	Width @ Origin	Depth @ Origin	Width @ Outfall	Depth @ Outfall	Priority	No. of Culverts	Culvert Size	Culvert Location	Cleaned Ft	Culverts Cleaned
Paulina Ditch	12,000	1'	1'	18'	4'		3	5' Round	LA 3125		
Bourgeois Ditch	10,000	1'	1'	15'	3.5'		3	42" Arch	LA 3125		
R. Roussel Ditch	9,000	1'	1'	15'	3'		2	42" Arch	LA 3125		
Admiral's Landing Ditch	9,200	1'	1'	20'	4'		2	54" Arch	LA 3125		
Section 61 Ditch	7,500	1'	1'	8'	2'		1	42" Arch	LA 3125		
E. Roussel Ditch	11,500	1'	1'	15'	3.5'		2	3' Round	LA 3125		
St. Joseph Ditch	11,500	1'	1'	7'	3'		1	4' Round	LA 3125		
Deroche Ditch	11,000	1'	1'	12'	5'		1	5' Round	LA 3125		
Section 66 Ditch	8,000	1'	1'	12'	5'		1	6' Round	LA 3125		
Laiche Ditch	11,000	2'	1'	15'	4'		1	6' Round	LA 3125		
Brignac Ditch	11,000	2'	1'	18'	5'		2	54" Arch	LA 3125		
T-Cailou Ditch	11,800	2'	1'	20'	5'		2	4' Round	LA 3125		
Martin Ditch	8,800	2'	1'	22'	6'		3	54" Arch	LA 3125		
Old Bourbon Canal	15,500	2'	1'	18'	4'		2	54" Arch	LA 3125		
Bourbon Canal	15,500	2'	1'	25'	5'		2	6' Round	LA 3125		
E St James M2 Canal	35,200	40'	3'	60'	6'		0	---	---		
Total District 3	196,300	---	---	---	---		28	---	---		
Miles	37	---	---	---	---		---	---	---		---

District 4 Major Ditch/Canal Summary

Ditch/Canal Name	Length, ft	Width @ Origin	Depth @ Origin	Width @ Outfall	Depth @ Outfall	Priority	No. of Culverts	Culvert Size	Culvert Location	Cleaned Ft	Culverts Cleaned
W Grand Point Canal	10,300	2'	1'	12'	3'		1	3' Round	LA 3125		
Hester Canal	13,500	2'	1'	18'	4'		3	6' Round	LA 3125		
Hydrocarbon Canal	13,000	2'	1'	21'	5'		2	6' Round	LA 3125		
Kahn Canal	11,600	2'	2'	18'	4'		2	6' Round	LA 3125		
Glenn Louque Ditch	410	1'	1'	2'	2'		1	18" Round	Belmont Ave		
Starlone Canal	13,600	2'	1'	24'	3.5'		2	5' Round	LA 3125		
Rizzuto Canal	12,500	2'	1'	22'	4'		2	36" Arch	LA 3125		
Welham Canal	14,300	2'	1'	34'	6'		3	78" Arch	LA 3125		
Bayou Des Acadiens	20,000	3'	2'	55'	6'		0	60' Bridge	LA 3125		
Romeville Canal	12,000	2'	1'	20'	6'		2	5' Round	LA 3125		
Malarcher Canal	14,500	2'	1'	18'	4'		3	5' Round	LA 3125		
Hymel Canal	16,500	2'	1'	20'	4'		3	5' Round	LA 3125		
Colomb Ditch	16,500	2'	1'	20'	4'		2	5' Round	LA 3125		
Wilton Canal	16,000	2'	1'	25'	6'		2	5' Round	LA 3125		
Transco Canal	11,900	1'	1'	12'	4'		2	5' Round	LA 3125		
Helvetia Canal	15,000	2'	1'	28'	6'		2	4' Arch	LA 3125		
Central Project Ditch	650	2'	1'	3'	2'		0	---	---		---
Rapidan Canal	16,500	2'	1'	28'	3'		3	72" Arch	LA 3125		
Fox Canal	10,500	2'	2'	31'	3'		3	5' Round	LA 3125		
Weber Canal	16,200	2'	1'	25'	5'		3	5' Round	LA 3125		
Peytavin Canal	11,500	2'	1'	28'	4'		3	5' Round	LA 3125		
Stein Canal	14,500	2'	1'	20'	4'		3	4' Round	LA 3125		
East St. James Canal	42,500	40'	6'	50'	6'		0	---	---		---
Total District 4	323,960	-	-	-	-		47	-	-		-
Miles	61	-	-	-	-		-	-	-		-

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. (Revision: 7 culverts and detailed cost estimate now at \$0.9MM)

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

Highway 3125 Lateral Culvert Replacement Summary

Lateral Culvert Replacement – East Side	
Lateral at	Replaced
Ferrero Canal	
David Canal	
School Side Canal	
Woods Canal	

Lateral Culvert Replacement – West Side	
Lateral at	Replaced
Humble	
Grand Point	
Longview	

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. (Note: Number revised upward to 1184 and includes 233 culverts that were marked as “NO DATA” in the Master Drainage Plan.)

Recommendation: It had been recommended that the parish seek taxpayer approval for the sale of bonds to cover the cost to be repaid by millage assessments. However, it is now recommended that the election be deferred. The current recommendation is for the parish to continue its work to obtain funding from sources other than the tax millage.

Status: The parish drainage crew has initiated this effort beginning in the flood-prone areas of District 3. Work will continue as funding becomes available. Progress will be tracked via the table below.

The Master Drainage Plan prepared by BKI also included the condition of all remaining culverts that were either sized correctly or oversized. It is recommended that the Parish clean the culverts whose condition is shown as silted in. Culvert cleaning progress will be tracked using the following table.

EAST ST. JAMES PARISH CULVERT REPLACEMENT SUMMARY

DISTRICT 1 CULVERT REPLACEMENT STATUS												
STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	
PECAN LN	2	0	FIR	2	0	N-S 2nd	2	0	MAGNOLIA	1	0	
CHERRY ST	3	0	MULBERRY	1	0	GOLDEN GROVE	2	0	PINE	11	0	
PLUM AVE	7	0	AIRLINE	100	0	ROSE LN	5	0	BRANDY	1	0	
MILLET	6	0	DAVID DR	10	0	TULIP	3	0	N AIRLINE	75	0	
HICKORY	7	0	LAWRENCE ST	2	0	COLONIAL	21	0	MAGNOLIA (N3125)	12	0	
RAILROAD	3	0	E-W 2nd	13	0	E-W 6th	1	0	MANHATTAN	10	0	
DISTRICT 1 CULVERTS TO BE REPLACED			300	CULVERTS REPLACED			0	DISTRICT 1 PERCENTAGE COMPLETION				0%

DISTRICT 2 CULVERT REPLACEMENT STATUS												
STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	
LUTCHER AVE	2	0	NICHOLAS LN	1	0	N-S 3rd	1	0	W LEBRAY	19	0	
ALBERT ST	4	0	LEVY GAUDET ST	19	0	LOUISIANA	2	0	DEY SAY	20	0	
KING AVE	2	0	COURESAULT LN	35	0	TEXAS	6	0				
EXCHANGE/INEZ	4	0	ALEXANDER ST	2	0	ST. LOUIS	1	0				
CENTRAL ST	11	0	E-W 5th	2	0	E LEBRAY	2	0				
DISTRICT 2 CULVERTS TO BE REPLACED			133	CULVERTS REPLACED			0	DISTRICT 2 PERCENTAGE COMPLETION				0%

DISTRICT 3 CULVERT REPLACEMENT STATUS												
STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	
ROME ST	9	0	GEISMAR	17	0	SUGAR HOUSE	4	0	ST. JAMES	9	0	
MORGAN ST	10	0	TUPELO	7	1	MAURA	9	0	LONGVIEW	38	1	
NOBILE ST	18	0	CYPRESS	15	0	WENDY	14	0	CARLY	5	0	
LE BOUKIN ST	8	0	PLANTATION	13	0	AMY	7	0	CAROLYN	14	0	
T POCHE ST	7	0	ELMWOOD	2	0	RILEY	13	0	HUMBLE	7	2	
BELLEVUE ST	10	0	KENMORE	6	0	LENA	12	1	INDUSTRIAL	7	0	
MARTIN	6	0	BELLE ROSE	2	0	NICOLE	31	0	642 (N3125)	10	0	
ANTIOCH	29	0	REDWOOD	12	1	S ANGELLE	10	10	A LOUQUE	2	0	
642	58	0	OAK GROVE	3	0	ANGELLE	2	2	GRAVOIS	22	0	
ST. JOSEPH	19	0	PERIQUE	6	0	N ANGELLE	12	12	WINSLEY	9	0	
DISTRICT 3 CULVERTS TO BE REPLACED			494	CULVERTS REPLACED			30	DISTRICT 3 PERCENTAGE COMPLETION				6%

DISTRICT 4 CULVERT REPLACEMENT STATUS												
STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	STREET	To Be Replaced*	Replaced	
HWY 44	45	0	LOUQUE	2	0	ESTER	1	0	SNYDER	2	0	
BELMONT	21	0	HONEYSUCKLE	1	0	SUGAR HILL	29	0	STELLA	7	0	
DENISE	19	0	ELMO	6	0	SCHEXNAYDRE	47	0	A&G	1	0	
EFFIE	7	0	SHARON	2	0	CARROT	9	0				
ROSEANN	9	0	TRUDEAU	21	0	RICKY	5	0				
HESTER	21	0	HOTARD	1	0	ELAINE	1	0				
DISTRICT 4 CULVERTS TO BE REPLACED			257	CULVERTS REPLACED			0	DISTRICT 4 PERCENTAGE COMPLETION				0%

ST. JAMES PARISH EAST BANK CULVERT REPLACEMENT PROJECT STATUS												
EAST BANK CULVERTS TO BE REPLACED			1184	CULVERTS REPLACED			30	EAST BANK PERCENTAGE COMPLETION				3%

* Includes 233 culverts identified as "NO DATA"; should any culvert prove to be adequate after inspection, the "To Be Replaced" number will be adjusted downward.

EAST ST. JAMES PARISH CULVERT CLEANING SUMMARY

DISTRICT 1 CULVERT CLEANING STATUS												
STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	
PECAN LN	6	0	AIRLINE	103	0	ROSE LN	24	0	PINE	11	0	
PLUM AVE	4	0	DAVID DR	10	0	TULIP	20	0	BRANDY	8	0	
MILLET	2	0	LAWRENCE ST	3	0	COLONIAL	10	0	MICHELLE	9	0	
HICKORY	5	0	E-W 2nd	9	0	E-W 4th	3	0	N AIRLINE	2	0	
RAILROAD	15	0	N-S 2nd	16	0	E-W 6th	10	0	MAGNOLIA (N3125)	25	0	
FIR	7	0	GOLDEN GROVE	10	0	E-W 8th	1	0	MANHATTAN	5	0	
MULBERRY	6	0	E-W 1st	1	0	MAGNOLIA	2	0				
DISTRICT 1 CULVERTS TO BE CLEANED			327	CULVERTS CLEANED			0	DISTRICT 1 PERCENTAGE COMPLETION				0%

DISTRICT 2 CULVERT CLEANING STATUS												
STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	
LUTCHER AVE	5	0	CENTRAL ST	7	0	E-W 5th	12	0	ST. LOUIS	7	0	
ALBERT ST	14	0	NICHOLAS LN	2	0	N-S 3rd	9	0	E LEBRAY	3	0	
KING AVE	10	0	LEVY GAUDET ST	5	0	E-W 10th	4	0	W LEBRAY	9	0	
EXCHANGE	4	0	COURESALT LN	16	0	E-W 7th	3	0	DEY SAY	42	0	
INEZ ST	11	0	ALEXANDER ST	6	0	LOUISIANA	5	0				
DISTRICT 2 CULVERTS TO BE CLEANED			174	CULVERTS CLEANED			0	DISTRICT 2 PERCENTAGE COMPLETION				0%

DISTRICT 3 CULVERT CLEANING STATUS												
STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	
ROME ST	12	0	TUPELO	19	0	WENDY	40	0	LONGVIEW	51	0	
MORGAN ST	6	0	CYPRESS	26	0	AMY	38	0	CARLY	6	0	
NOBILE ST	66	0	PLANTATION	18	0	RILEY	32	0	CAROLYN	22	0	
LE BOUKIN ST	14	0	ELMWOOD	22	0	IRENE	9	0	HUMBLE	5	0	
T POCHE ST	26	0	KENMORE	21	0	BETH	11	0	INDUSTRIAL	5	0	
BELLEVUE ST	12	0	BELLE ROSE	15	0	LENA	36	0	642 (N3125)	40	3	
MARTIN	10	0	REDWOOD	31	1	NICOLE	48	0	A LOUQUE	10	0	
ANTIOCH	11	0	OAK GROVE	7	0	S ANGELLE	28	0	GRAVOIS	14	0	
642	46	0	PERIQUE	3	3	ANGELLE	8	0	WINSLEY	1	0	
ST. JOSEPH	10	0	SUGAR HOUSE	10	0	N ANGELLE	24	0				
GEISMAR	19	0	MAURA	43	0	ST. JAMES	11	0				
DISTRICT 3 CULVERTS TO BE CLEANED			886	CULVERTS CLEANED			7	DISTRICT 3 PERCENTAGE COMPLETION				1%

DISTRICT 4 CULVERT CLEANING STATUS												
STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	STREET	To Be Cleaned	Cleaned	
HWY 44	21	0	KHAN	3	0	SUGAR HILL	79	0	STELLA	2	0	
BELMONT	6	0	HONEYSUCKLE	1	0	SCHEXNAYDRE	1	0	A&G	1	0	
DENISE	47	0	ELMO	3	0	CARROT	2	0				
EFFIE	2	0	SHARON	2	0	RICKY	28	0				
HESTER	9	0	TRUDEAU	2	0	ELAINE	1	0				
LOUQUE	0	0	HOTARD	3	0	SNYDER	3	0				
DISTRICT 4 CULVERTS TO BE CLEANED			216	CULVERTS CLEANED			0	DISTRICT 4 PERCENTAGE COMPLETION				0%

ST. JAMES PARISH EAST BANK CULVERT CLEANING PROJECT STATUS												
EAST BANK CULVERTS TO BE CLEANED			1603	CULVERTS CLEANED			7	EAST BANK PERCENTAGE COMPLETION				0%

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. Revision: 50 culverts identified.

Status: In 4th quarter 2017 a second culvert (48") 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.

CN Railroad Culvert Installation Summary

Mile Marker	Culvert Installed								
397.30		400.28		403.96		406.46		413.05	
397.65		401.01		404.60		406.67		413.19	
397.73		401.28		404.95		407.94		413.89	
397.88		402.13		405.09		410.48		413.97	
398.65		402.40		405.28		411.03		415.01	
398.96		402.99		405.61		411.20		415.17	
399.69		403.04		409.67		411.29		416.33	
399.73		403.28		405.83		411.30		416.77	
400.13		403.71		406.08		411.40		417.08	
400.24		403.78		406.27		412.90		417.42	

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: BKI has completed the East Bank Hydrology Model and a detailed report has been issued. The report describes a more cost-effective solution at an estimated cost of roughly \$24.4MM which includes a 25% contingency (\$4.4MM). Recommended facilities, identified as Phase 1, would include gates and a pump station at Blind River and gates only at Bayou la Trainasse and East St. James M2 Canal. A pump station at M2 Canal, identified as Phase 2, is estimated \$3.0MM including a 25% contingency (\$0.6MM). A similar pump station at Bayou la Trainasse, identified as Phase 3, would also cost \$3.0MM including a 25% contingency. The purchase of an Aquadam is not warranted at this time.

This Airline Highway Surge Protection project has the added benefit of protecting the East Bank from flooding during a 10-year storm. This protection is provided by the pump station included at Blind River Structure. Similar pump stations can be added at M2 Canal (Phase 2) and Bayou la Trainasse (Phase 3) at a later date to provide additional flood protection. Voter approval of the proposed tax millage would allow installation of all 3 phases to provide the greatest protection.

TABLE 1

Phase 1: Airline Highway Surge Protection Project Cost

Description	Estimated Quantity (Q)	Units	Unit Cost (UC)	Cost (Q*UC)	Contingency (25%)	Total Cost
<u>East St. James M2 Canal Structure</u>						
Concrete T-Wall including Cofferdam	88	L. F.	\$12,000	\$1,056,000	\$264,000	\$1,320,000
Flood Gate (18' Height)	40	L. F.	\$29,000	\$1,160,000	\$290,000	\$1,450,000
Pump Station (160 cfs)	0	C.F.S.	\$15,000	\$0	\$0	\$0
Engineering/Permits	1	EACH	\$277,000	\$277,000	\$0	\$277,000
Survey	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Geotechnical Report	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Testing	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Construction Administration	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Resident Inspection	1	EACH	\$20,000	\$20,000	\$0	\$20,000
				\$2,533,000	\$554,000	\$3,087,000
<u>Bayou la Trainasse Structure</u>						
Concrete T-Wall including Cofferdam	106	L. F.	\$12,000	\$1,272,000	\$318,000	\$1,590,000
Flood Gate (18' Height)	40	L. F.	\$29,000	\$1,160,000	\$290,000	\$1,450,000
Pump Station (160 cfs)	0	C.F.S.	\$15,000	\$0	\$0	\$0
Engineering/Permits	1	EACH	\$304,000	\$304,000	\$0	\$304,000
Survey	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Geotechnical Report	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Testing	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Construction Administration	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Resident Inspection	1	EACH	\$20,000	\$20,000	\$0	\$20,000
				\$2,776,000	\$608,000	\$3,384,000
<u>Blind River Structure</u>						
Concrete T-Wall including Cofferdam	310	L. F.	\$12,000	\$3,720,000	\$930,000	\$4,650,000
Flood Gate (25'-29' Height)	100	L. F.	\$45,000	\$4,500,000	\$1,125,000	\$5,625,000
Pump Station (320 cfs)	320	C.F.S.	\$15,000	\$4,800,000	\$1,200,000	\$6,000,000
Engineering/Permits	1	EACH	\$1,627,500	\$1,627,500	\$0	\$1,627,500
Survey	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Geotechnical Report	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Testing	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Construction Administration	1	EACH	\$5,000	\$5,000	\$0	\$5,000
Resident Inspection	1	EACH	\$20,000	\$20,000	\$0	\$20,000
				\$14,687,500	\$3,255,000	\$17,942,500
				w Contingency	Total Summary	\$24,413,500
				w/o Contingency	Total Summary	\$19,996,500

TABLE 2

Phase 2: East St. James M2 Canal Structure Pump Station Project Cost

Description	Estimated Quantity (Q)	Units	Unit Cost (UC)	Cost (Q*UC)	Contingency (25%)	Total Cost
Pump Station (160 cfs)	160	C.F.S.	\$15,000	\$2,400,000	\$600,000	\$3,000,000
				w Contingency	Total Summary	\$3,000,000
				w/o Contingency	Total Summary	\$2,400,000

TABLE 3

Phase 3: Bayou la Trainasse Structure Pump Station Project Cost

Description	Estimated Quantity (Q)	Units	Unit Cost (UC)	Cost (Q*UC)	Contingency (25%)	Total Cost
Pump Station (160 cfs)	160	C.F.S.	\$15,000	\$2,400,000	\$600,000	\$3,000,000
				w Contingency	Total Summary	\$3,000,000
				w/o Contingency	Total Summary	\$2,400,000

West Shore Lake Pontchartrain Project

The Federal Government has approved funding for the West Shore Lake Pontchartrain Project (WSP) for flood protection in St. Charles, St. John and St. James Parishes. Localized risk reduction features for St. James Parish include:

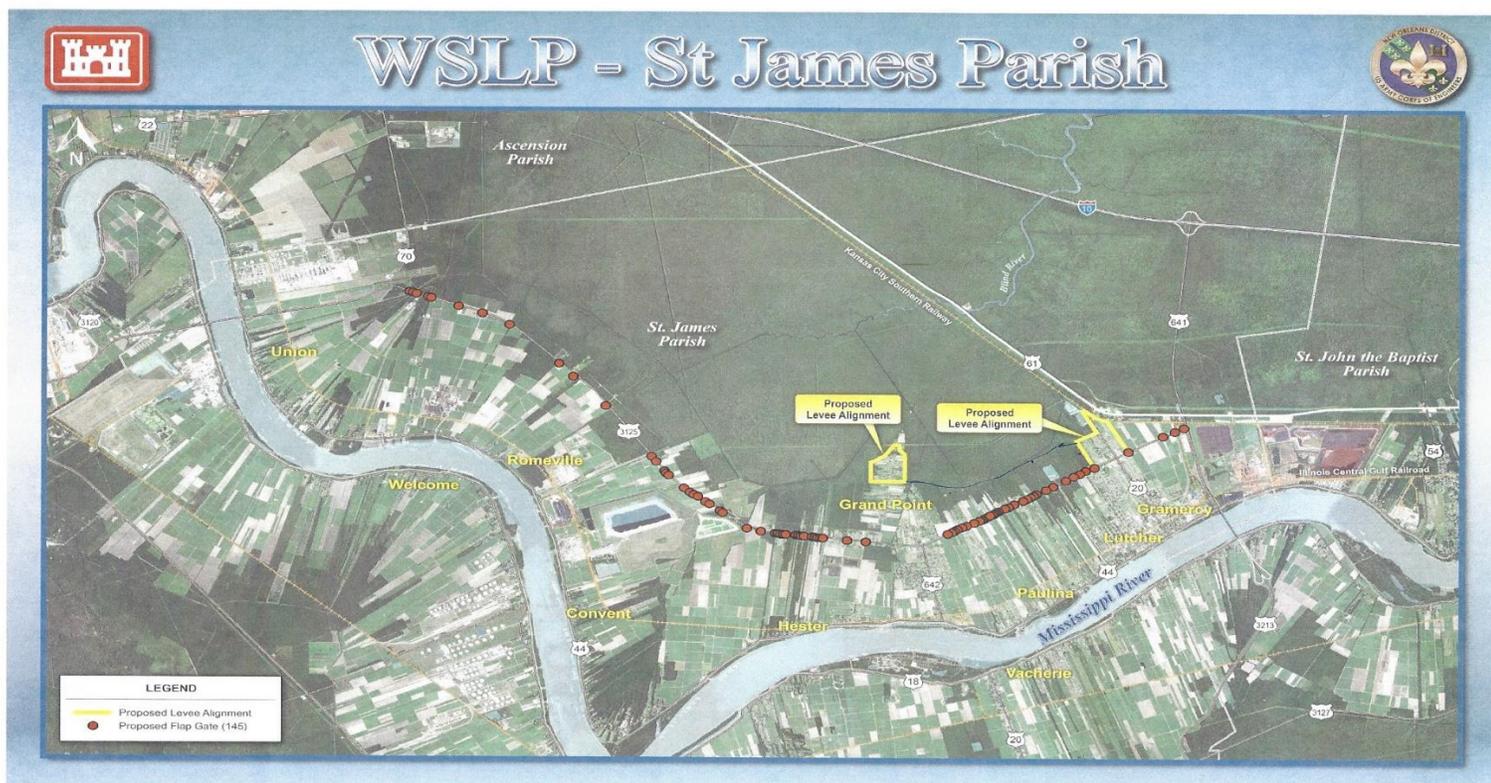
- Lutcher/Gramercy Area – Approximately 10,000 linear feet of ring levee
- Grand Point Area – Approximately 10,000 linear feet of ring levee
- Hwy 3125 – 145 flap gates to be installed at culverts on the north side of the highway

The target for award of the 1st construction contract is October 2020 with all construction completed by January 2024. Cost for the entire WSP is \$716MM with a St. James portion of \$51MM. St. James Parish share will be an estimated \$3.7MM and ongoing operations and maintenance.

The St. James Parish portion of the WSP project is shown in Figure 2 below. Efforts are underway to review this project with the Corps of Engineers to determine if changes can be made to better protect the residents of the East Bank.

Figure 2

St. James Portion of the West Shore Lake Pontchartrain Project



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. In late September, the Council and Administration were notified by CPRA that the project has been reviewed and found not to be feasible due to an estimated cost of \$154MM and CPRA will not be providing GOMESA funding.

Parish officials and councilmen have been attending a monthly West Shore Lake Pontchartrain Partnering Meeting for updates on the project. It was brought to the Corps attention that the flap gates pose an issue to residents living south of Hwy 3125. During a storm surge event, water from Blind River will flow towards the flap gates and close them to prevent water from flowing further south, protecting those south of Hwy 3125. However, should a heavy rain occur during the storm surge event, water south of Hwy 3125 will have no where to go and could lead to major flooding. The Hydraulics Branch of the Corps will be preparing a model to look at the St. James no-build option and the USACE flap gate plan. We await the results of that study.

Parish officials and councilmen will be meeting with Congressman Garret Graves to review possible funding for flood prevention as an add-on to the ring levees proposed by the West Shore Project for protecting more areas against flooding.

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. Work Order 1469-2017 was issued to place a staff gauge on Woods Canal.

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.

Action Plan 4: Require preparation of quarterly reports for publication. – Monthly status reports will be prepared until most Stormwater Master Plan action plans are completed.

Action Plan 5: Post progress reports on parish website. – Monthly status reports will be posted on the website.

OPERATIONS and MAINTENANCE

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

Goal 1: To maintain drainage systems on a priority basis so that they remain in good condition.

Action Plan 5: Post quarterly reports on the parish website. – Monthly status reports will be posted.

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 by BKI's Master Drainage Plan.

Action Plan 5: Post updated quarterly reports on the parish website each January, April July and October. – Monthly status reports will be posted.

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 roughly \$30MM.

- Develop a model of the area to determine the benefits of implementing the project in phases as funding becomes available. – Funding for the model was approved in March 2018 and the model completed by BKI.

Action Plan 3: Prepare quarterly progress reports. – Monthly status reports are being prepared.

Action Plan 4: Post updated quarterly reports on the parish website each January, April, July and October. – Monthly status reports are being posted.

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.

Goal 1: To provide level monitoring at strategic locations to develop historical data to enhance response plan actions by mid-year 2018.

Action Plan 1: Purchase and install level gauges at strategic locations. – Three ruler-type level gauges have been purchased.

Action Plan 5: Prepare quarterly progress reports when new information is available. – New information will be included in the Monthly Status Reports.

Action Plan 6: Post quarterly progress reports on the parish website. – Monthly Status Reports will be posted.

FLOODPLAIN MANAGEMENT

Objective F: Maintain participation and good standing in the National Flood Insurance Program (NFIP) and improve floodplain management practices to minimize flood damages and reduce flood insurance premiums for property owners.

Goal 1: Identify actions needed to improve the Community Rating System (CRS) score to reduce flood insurance premiums and work to implement cost-effective actions.

Action Plan 4: Post quarterly progress reports, if any, on the parish website. – Progress will be included in the Monthly Status Reports posted on the parish website.

Objective G: Reduce flood losses and better protect the natural resources, improving the function of the parish's floodplains.

Goal 1: To implement projects that will restore a significant area of forested wetlands along the Maurepas Basin.

Action Plan 3: Post updated quarterly reports, if any, on the parish website. – Any progress will be included in the Monthly Status Reports posted on the parish website.

STORMWATER BEST MANAGEMENT PRACTICES

Objective H: Encourage the use of stormwater Best Management Practices (BMPs) throughout the parish to reduce stormwater runoff volume.

Goal 1: To establish development regulations for the parish that are state-of-the-art with regard to stormwater management.

Action Plan 4: Advise the public via the parish website. – Progress will be included in the Monthly Status Reports posted on the parish website.

FINANCIAL PLAN

Objective I: Fund stormwater management initiatives through sustainable and equitable sources of revenue.

Goal 1: To search for all potential funding sources and work to solicit those funds on an on-going basis.

Action Plan 1: Estimate the cost of all system improvements to identify funding needs. – Preliminary estimates are available for all identified system improvements.

Action Plan 2: Identify potential funding sources. – The following funding sources have been identified:

Tax millage, PLD (Pontchartrain Levee District), State Capital Outlay, GOHSEP (Governor’s Office of Homeland Security and Emergency Preparedness), CPRA (Coastal Protection and Restoration Authority), FEMA (Federal Emergency Management Agency) and GOMESA (Gulf of Mexico Energy Security Act).

Action Plan 4: Prepare quarterly progress reports. – Progress will be included in the Monthly Status Reports.

Action Plan 5: Post quarterly progress reports, if any, of the parish website. – Progress will be included in the Monthly Status Reports being posted on the parish website.

IMPLEMENTATION PLAN

Objective J: Develop an aggressive implementation plan and project tracking system to promote community awareness of progress.

Goal 1: To prioritize project implementation basis greatest impact on reducing flooding and develop a timeline for informing the public, noting that availability of funding will be the greatest obstacle to implementation.

Action Plan 2: Present Implementation Timeline to the Parish Council for approval – Individual project timelines will be prepared when funding becomes available.

Action Plan 3: Prepare quarterly updates on progress. – Progress will be included in the Monthly Status Reports.

Action Plan 5: Post quarterly updates, if any, on the parish website. – Progress will be included in the Monthly Status Reports being posted on the parish website.