

**WRRDA 7001 Submissions Package**  
**U.S. Army Corps of Engineers**

Proposal Name: Belair North Detention Pond

Submission Date: 09/19/2016

Proposal ID Number: b64f45a8-37fd-4f2d-86f8-78949815f7aa

Purpose of Proposal: Belair North and Belair South—two regional detention projects aimed at reducing the RL and SRL flooding along Bayou Liberty below I-12. As noted in Burk-Klienpeter Inc.'s (BKI) Bayou Liberty watershed management plan these two ponds, each over 100 acres in size, can provide in excess of 1400 acre-ft of storage. As identified by BKI, these two projects along with the “Raising Tammany Trace Bridge Improvements” could provide as much as 2.0 feet of reduction in the water surface elevation during a 100 year storm.

*1. Administrative Details*

**Proposal Name: Belair North Detention Pond**

**by Agency: St. Tammany Parish Government**

**Locations: LA**

**Date Submitted: 09/19/2016**

**Confirmation Number: b64f45a8-37fd-4f2d-86f8-78949815f7aa**

*Supporting Documents*

<b>File Name</b>	<b>Date Uploaded</b>
Belair North Detention Pond Cost.pdf	09/19/2016
Belair North South Support Letter.pdf	09/19/2016
Belair North Detention Pond Map.pdf	09/19/2016

*2. Provide the name of the primary sponsor and all non-Federal interests that have contributed or are expected to contribute toward the non-Federal share of the proposed feasibility study or modification.*

Sponsor	Letter of Support
St. Tammany Parish Government(Primary)	The St. Tammany Parish Administration is in full support of this project and will provide all necessary resources to ensure that it is completed.

*3. State if this proposal is for a feasibility study, a modification to an authorized USACE feasibility study or a modification to an authorized USACE project. If it is a proposal for a modification, provide the authorized water resources development feasibility study or project name.*

Feasibility Study

***4. Clearly articulate the specific project purpose(s) of the proposed study or modification. Demonstrate that the proposal is related to USACE mission and authorities and specifically address why additional or new authorization is needed.***

Belair North and Belair South—two regional detention projects aimed at reducing the RL and SRL flooding along Bayou Liberty below I-12. As noted in Burk-Klienpeter Inc.'s (BKI) Bayou Liberty watershed management plan these two ponds, each over 100 acres in size, can provide in excess of 1400 acre-ft of storage. As identified by BKI, these two projects along with the “Raising Tammany Trace Bridge Improvements” could provide as much as 2.0 feet of reduction in the water surface elevation during a 100 year storm.

5. To the extent practicable, provide an estimate of the total cost, and the Federal and non-Federal share of those costs, of the proposed study and, separately, an estimate of the cost of construction or modification.

	Federal	Non-Federal	Total
<b>Study</b>	\$1,963,699	\$0	\$1,963,699
<b>Construction</b>	\$19,636,991	\$0	\$19,636,991

**Explanation (if necessary)**

The project construction cost will be \$19,636,991. The soft cost (engineering, permitting, etc.) is \$10,467,809. The total cost is \$30,104,800. The estimated Federal study cost is 10% of the total construction cost for a total of \$1,963,699.

***6. To the extent practicable, describe the anticipated monetary and nonmonetary benefits of the proposal including benefits to the protection of human life and property; improvement to transportation; the national economy; the environment; or the national security interests of the United States.***

The construction of the Belair North and Belair South Regional Detention Ponds will benefit a total of 2,498 structures. The pond will increase the resiliency of the area and enhance the resident's quality of life. It will also reduce the amount of work days that are missed due to storm related clean-up.

**7. Does local support exist? If 'Yes', describe the local support for the proposal.**

Yes

### **Local Support Description**

The St. Tammany Parish Administration is in full support of this project and will provide all necessary resources to ensure that it is completed.

**8. Does the primary sponsor named in (2.) above have the financial ability to provide for the required cost share?**

Yes

# Additional Proposal Information

(This is as uploaded, a blank page will show if nothing was submitted)

**Belair North Detention Pond Cost.pdf**

Project: Belair North Detention Pond

Waterway: Bayou Liberty  
 Project Type: Storm Water Pond

<b>Construction Funding</b>				
Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization	LS	1	\$755,000	\$755,000
Land Clearing	AC	119	\$5,000	\$595,000
Excavation	CY	1,535,893	\$10	\$15,358,933
Inlet Structure & Outlet Structure	EA	3	\$20,000	\$60,000
Erosion Control	LS	1	\$50,000	\$50,000
Sod Side Slopes	SF	242,281	\$0.75	\$181,711
Piping	LF	250	\$300	\$75,000
			Subtotal	\$17,075,644
			15% Contingency	\$2,561,347
			Subtotal	\$19,636,991

<b>Soft Cost</b>				
Item	Unit	Quantity	Unit Cost	Total Cost
Engineering Design and Survey	LS	1	\$1,963,699	\$1,963,699
Permitting/Misc. Expense/Reimbursement	LS	1	\$30,000	\$30,000
Drainage Study & Surveying for Study	LS	1	\$150,000	\$150,000
Construction Inspection	LS	1	\$589,110	\$589,110
Land Acquisition	AC	119	\$40,000	\$4,760,000
Mitigation	AC	85	\$35,000	\$2,975,000
			Subtotal	\$10,467,809
			Grand Total	\$30,104,800

# Primary Sponsor Letter of Support

(As uploaded)

**Belair North South Support Letter.pdf**



## ST. TAMMANY PARISH

PATRICIA P. BRISTER  
PARISH PRESIDENT

September 9, 2016

### **Re: Belair Subdivision North and Belair Subdivision South Detention Ponds**

Dear Sir/Madam:

On behalf of St. Tammany Parish, I am pleased to submit the Belair Subdivision North and Belair Subdivision South Detention Ponds project for consideration under WRRDA and hereby request funding assistance from United States Army Corps of Engineers.

Belair North and Belair South are two regional detention projects aimed at reducing the Repetitive Loss and Severe Repetitive Loss flooding along Bayou Liberty below I-12.

Both ponds, each over 100 acres in size, can provide in excess of 1400 acre-ft of storage these two projects along with the "Raising Tammany Trace Bridge Improvements" could provide as much as 2.0 feet of reduction in the water surface elevation during a 100 year storm.

Sincerely,

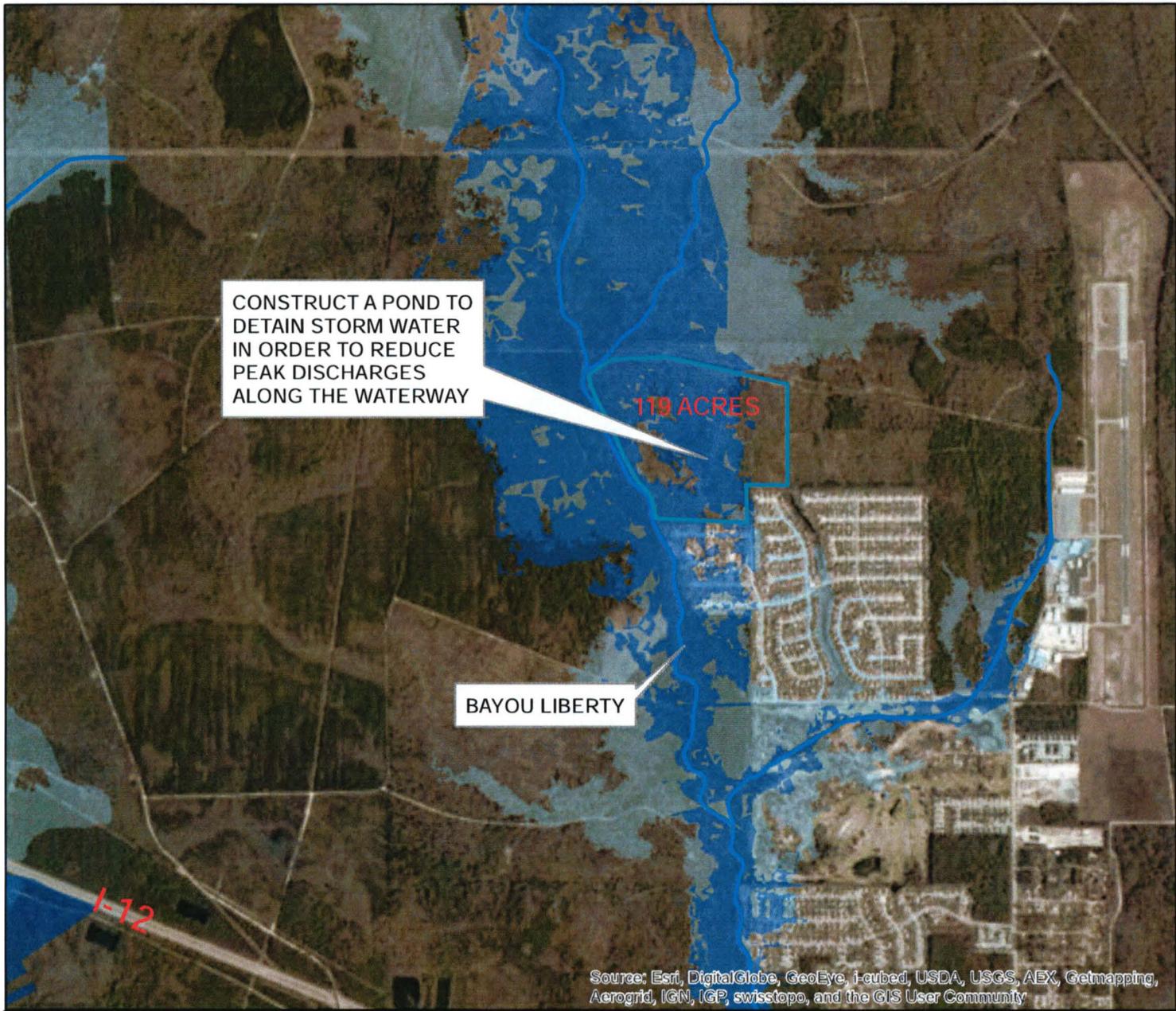
A handwritten signature in blue ink that reads "Patricia P. Brister".

Patricia P. Brister  
Parish President

# Map Document

(This is as uploaded, a blank page will show if nothing was submitted)

**Belair North Detention Pond Map.pdf**



**Legend**

-  St. Tammany Parish Waterways
-  Storm Water Ponds
-  Critical\_Drainage\_Areas
-  Floodzones\_AE

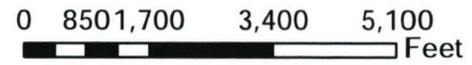
CONSTRUCT A POND TO  
DETAIN STORM WATER  
IN ORDER TO REDUCE  
PEAK DISCHARGES  
ALONG THE WATERWAY

BAYOU LIBERTY

119 ACRES

I-12

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



# STORM WATER POND NEAR BAYOU LIBERTY BELAIR NORTH

ST. TAMMANY PARISH  
WATERSHED STUDY



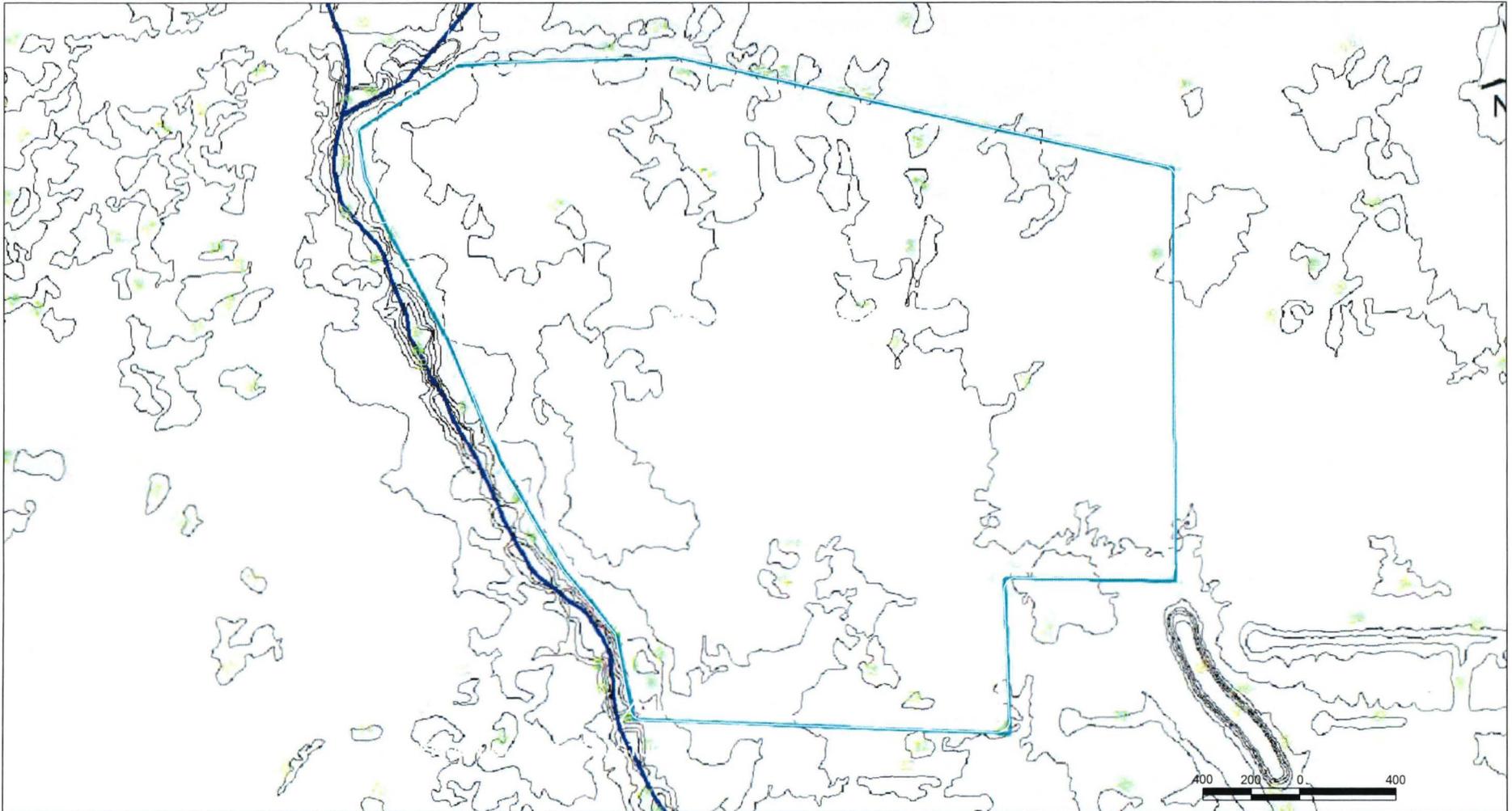
TYPICAL WASTEWATER INFRASTRUCTURE CONCEPTUAL PLAN

ST. TAMMANY PARISH WATER QUALITY MANAGEMENT STUDY  
 COASTAL PROTECTION AND RESTORATION AUTHORITY

ST. TAMMANY PARISH, LOUISIANA



DATE:  
12-1-2014  
St. Tammany Parish Watershed  
Study  
FIGURE:



TYPICAL WASTEWATER INFRASTRUCTURE CONCEPTUAL PLAN

ST. TAMMANY PARISH WATER QUALITY MANAGEMENT STUDY  
 COASTAL PROTECTION AND RESTORATION AUTHORITY

ST. TAMMANY PARISH, LOUISIANA



DATE:  
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 St. Tammany Parish Watershed  
 Study  
 FIGURE: