

BTR SSO PROGRESS REPORT

Prepared for
City of Baton Rouge/East Baton Rouge Parish
Department of Public Works

Prepared by
CH2MHILL

In Association with
Sigma Consulting Group, Inc.



JULY 2008
(for month ending June, 2008)



Contents

Project	Page
PROGRAM MANAGEMENT	
Program Management.....	2
MASTER PLANNING	
Master Planning	4
SANITARY SEWER OVERFLOW PLANNING	
SSO Planning	5
COLLECTION SYSTEM REHABILITATION	
Jefferson Highway/Hoo Shoo Too Road.....	6
Gardere Lane – Burbank Road	8
Staring Lane – Boone Drive	10
Oak Villa Blvd. – Choctaw Street	12
SCADA MASTER PLAN	
SCADA Master Plan	14
PROJECTS UNDER DESIGN	
RMAP1 – Industriplex Area Upgrades	16
RMAP1 – Kleinpeter Area Upgrades	18
RMAP1 – PS136 Area Upgrades	20
Red Mud Lakes	22
IAP – South WWTP Primary Treatment Improvements	24
IAP – South WWTP Screening Improvements	26
IAP – South WWTP Sludge Handling Improvements	28
IAP – South WWTP Trickling Filter Improvements	30
SSO Odor Control NWWTP	32
Capitol Lake Drive – Gayosa Drive	34
Gurney Road – Joor Road	36
Multiple Pump Stations – Lovett Road Area	38
Comite Road – Foster Road	40
Foster Road – Hooper Road	42
Staring Lane Forcemain – PS58 Improvements	44
Citiplace/Essen Area – PS119 Forcemain Improvements	46
Highland Road – Burbank Drive	48
South Boulevard – St. Joseph Street	50
North Capacity Group Project 1A	52
North Capacity Group Project 1B	54
Downtown Area – PS15, PS19 and PS60 Improvements	56
South Capacity Group 2 Project	58
Downtown Area – PS10 and PS59 Improvements	60
Choctaw Storage and Pump Station Facility	62
Highland Road - Buchanan Street	64
PROJECTS ON HOLD	
Roosevelt Street Area – Pump Station 1	66
Central Storage / Equalization	67

Program Management

News

- 28 active projects
- Program staffing at 100% of authorized level
- Submitted Wastewater Master Plan to DPW
- Submitted SCADA Master Plan
- Combined four South Wastewater Treatment Immediate Action Projects into one construction project
- Land acquisition at the South Wastewater Treatment Plan continued, including abstracting and appraisals

Planned Activities

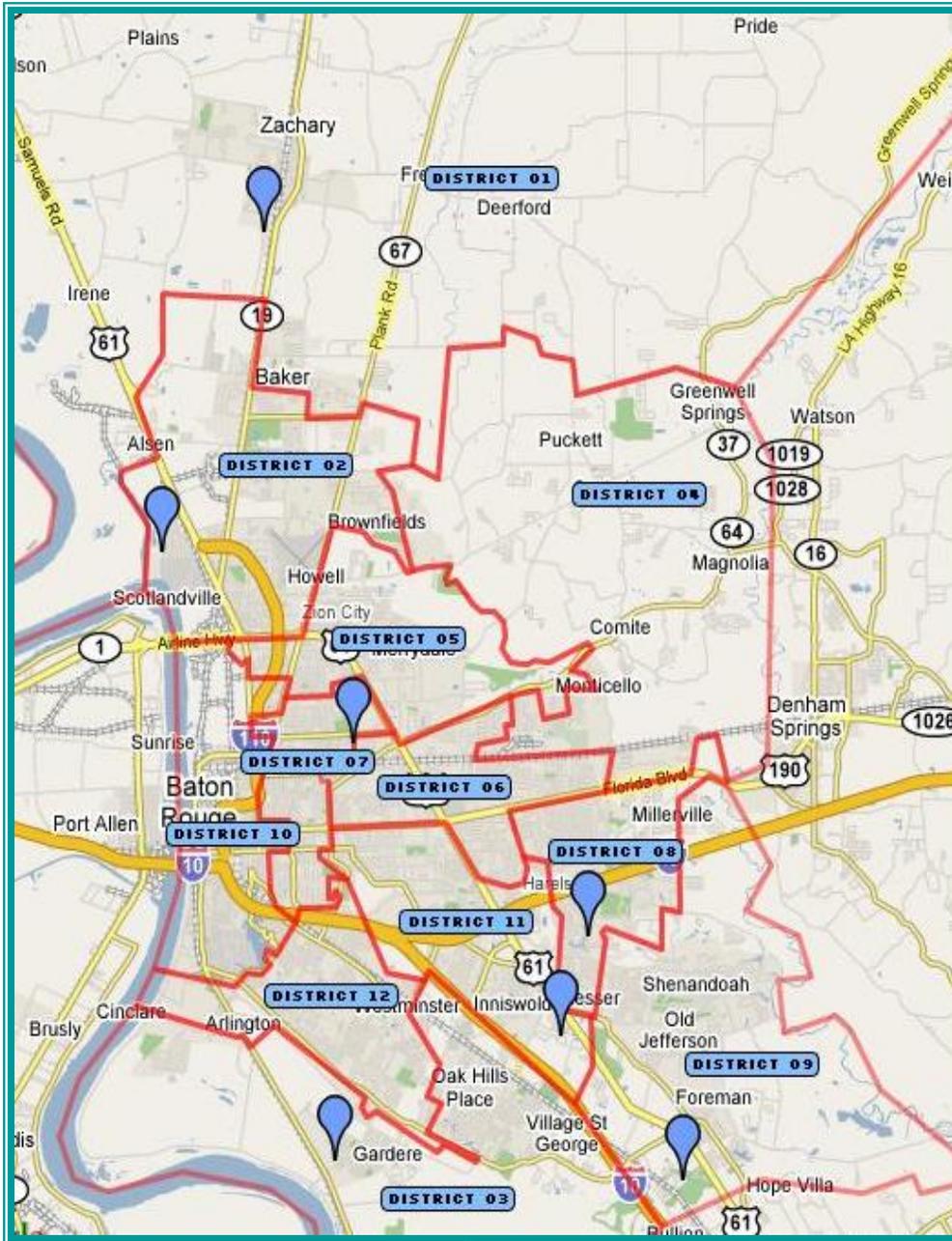
- Bid on the following projects (in July):
 - SSO Odor Control NWWTP
 - Pump Station SCADA
 - Jefferson Highway/Hoo Shoo Too Road Rehabilitation project
 - South WWTP Immediate Action Projects
- Start up the South Wastewater Treatment Plant design in July
- Consultant selection for South Wastewater Treatment Plan in August
- Start design of Red Mud Lakes Project

Project Information

Project Name:	Program Mangement
Program Project Manager:	Jim Hawley, P.E.
Program Contact Information:	CH2M HILL 700 Main Street, Suite 400 Baton Rouge, LA 70802 225-381-8454

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Baton Rouge Dept of Public Works Sanitary Sewer Overflow Project	1 st Qtr '08	4 th Qtr '08
Phase 3 – Planning projects – Program Management	1 st Qtr '08	4 th Qtr '08



City of Baton Rouge /
East Baton Rouge
Parish
DISTRICT AREAS

Downtown Baton
Rouge



Master Planning

News

- Master Plan document was presented to DPW for review and endorsement
- Financial planning is ongoing

Planned Activities

- No activities currently planned

Project Name:	Master Plan
Program Description:	Develop the wastewater collection, conveyance, and treatment Master Plan for the City of Baton Rouge/ East Baton Rouge Parish Department of Public Works, Baton Rouge, Louisiana.
Program Project Manager:	Jim Hawley, P.E.
Design Consultant:	N/A
Project Start Date:	March 2008
Estimated Project End Date:	July 2008

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Baton Rouge Dept of Public Works Sanitary Sewer Overflow Project	1 st Qtr '08	3 rd Qtr '08
Phase 3 – Planning projects – Master Planning	1 st Qtr '08	3 rd Qtr '08



Master Planning includes Extensive Site Visits

Sanitary Sewer Overflow (SSO) Planning

News

- Completed refinement and quality control review of the hydraulic model of the sewer system
- Coordinated project definitions and designs with the hydraulic model, specifically piping, pump station, and configuration changes

Planned Activities

- Continually update the hydraulic model as new projects begin project definition
- Issue the first revision of the Program Delivery Plan (PDP) in September 2008

Project Information

Project Name:	Sanitary Sewer Overflow Planning
Project Description:	SSO program delivery plan (PDP) outlines the projects to be completed to eliminate sewer overflows throughout the Parish. The PDP contains a description of each project, along with its completion schedule and budget. The PDP will be updated annually to incorporate project-specific information and hydraulic model updates.
Program Project Manager:	Desiree Dies
Project Start Date:	December 2007
Estimated Project End Date:	September 2008

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Baton Rouge Dept of Public Works Sanitary Sewer Overflow Project	4 th Qtr '07	3 rd Qtr '08
Sanitary Sewer Overflow Planning	4 th Qtr '07	3 rd Qtr '08

Collection System Rehabilitation

Jefferson Highway – Hoo Shoo Too Road

News

- USEPA granted DPW approval to advertise for construction
- Project was advertised for construction on June 27, 2008

Planned Activities

- Mandatory Pre-Bid Meeting will be held on July 16, 2008
- Bid opening will be held on July 29, 2008

Project Information

City-Parish Project Number:	07-AR-US-0049
Project Name	Sewer Rehabilitation – Jefferson Highway – Hoo Shoo Too Road
Project Description:	The project involves the rehabilitation of the gravity collection system in the Jefferson Highway/Hoo Shoo Too area, and includes pipe repair and replacement. The project area consists of approximately 117,110 linear feet of pipe and 553 manholes.
Program Project Manager:	Jason Crain, P.E. Amy Schulze, P.E., DPW
Project Start Date:	May 2007
Estimated Project End Date:	November 2009

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Jefferson Hwy – Hoo Shoo Too Road		2 nd Qtr '07	4 th Qtr '09
Design		2 nd Qtr '07	2 nd Qtr '08
Bid Phase		2 nd Qtr '08	4 th Qtr '08
Construction		4 th Qtr '08	4 th Qtr '09

Collection System Rehabilitation

Gardere Lane – Burbank Road

News

- Completed DPW and internal Quality Control review of basin characterization report
- Incorporated review comments into Basin Characterization Report

Planned Activities

- Issue final Basin Characterization Report
- Issue Notice to Proceed to CSRS for design
- CSRS begin survey and design

Project Information

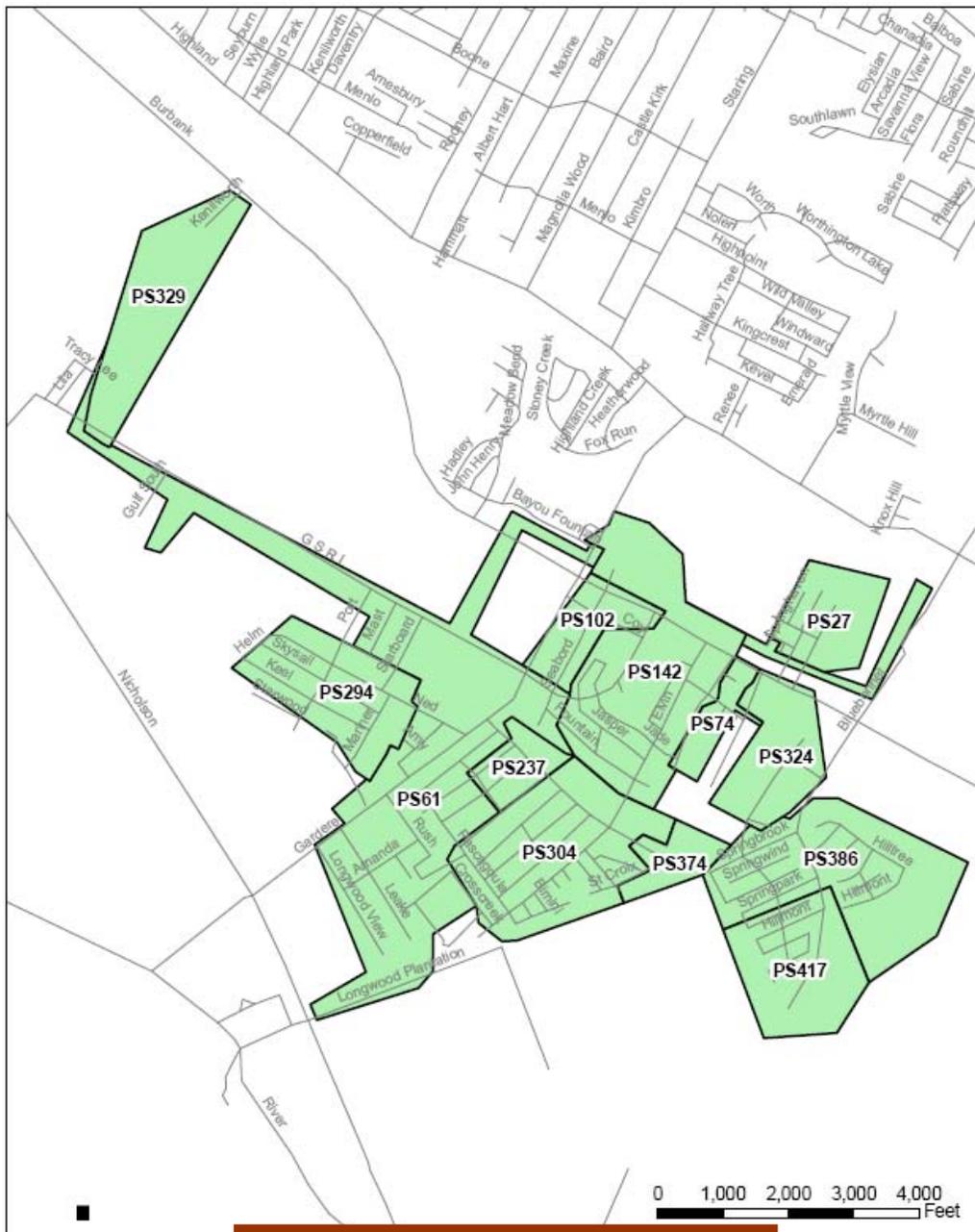
City-Parish Project Number:	08-AR-UF-0003
Project Name	Sewer Rehabilitation – Gardere Lane – Burbank Road
Project Description:	The project involves the rehabilitation of the gravity collection system in the Gardere Lane – Burbank Road area in south Baton Rouge, and includes pipe repair and replacement. The project area consists of approximately 200,500 linear feet of pipe and 743 manholes.
Program Project Manager:	Jason Crain, P.E.
Design Consultant:	Ron Rodi, P.E., CSRS
Project Start Date:	May 2007
Estimated Project End Date:	May 2010

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Gardere Lane - Burbank Road		2 nd Qtr '07	2 nd Qtr '10
Design		2 nd Qtr '07	4 th Qtr '08
Bid Phase		4 th Qtr '08	1 st Qtr '09
Land Acquisition		3 rd Qtr '08	2 nd Qtr '09
Construction		1 st Qtr '09	2 nd Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,100,000	\$0	\$0	\$5,100,000	\$6,300,000
Engineering	\$758,000	\$0	\$0	\$758,000	
Inspection	\$460,000	\$0	\$0	\$460,000	
Total	\$6,318,000	\$ 0	\$ 0	\$6,318,000	



Gardere Lane – Burbank Road
Project Map
Baton Rouge Sewer Program

Collection System Rehabilitation

Staring Lane – Boone Drive

News

- Completed physical inspection of area sewers
- Inspection contractor made partial submittal of physical inspection data
- Began data analysis and basin characterization

Planned Activities

- Contractor to submit remainder of physical inspection data for project area
- Begin using new RDSS software (CapPlan) to assist with data analysis and basin characterization

Project Information

City-Parish Project Number:	08-AR-UF-0004
Project Name	Sewer Rehabilitation – Staring Lane – Boone Drive
Project Description:	This project involves rehabilitation of the gravity collection system, specifically repair and/or replacement of some pipe and manholes, in the Staring/Boone area in south Baton Rouge. The project area consists of approximately 148,000 linear feet of pipe and 657 manholes.
Program Project Manager:	Jason Crain, P.E.
Design Consultant:	Ron Rodi, P.E., CSRS
Project Start Date:	November 2007
Estimated Project End Date:	September 2010

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Staring Lane – Boone Drive	4 th Qtr '07	3 rd Qtr '10
Consultant Selection	4 th Qtr '07	1 st Qtr '08
Consultant Negotiations	1 st Qtr '08	2 nd Qtr '08
Consultant Contract Approval	2 nd Qtr '08	3 rd Qtr '08
Design	1 st Qtr '08	1 st Qtr '09
Land Acquisition	4 th Qtr '08	3 rd Qtr '09
Bid Phase	1 st Qtr '09	2 nd Qtr '09
Construction	2 nd Qtr '09	3 rd Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,600,000	\$0	\$0	\$5,600,000	\$7,000,000
Engineering	\$828,000	\$0	\$0	\$828,000	
Inspection	\$500,000	\$0	\$0	\$500,000	
Total	\$6,928,000	\$ 0	\$ 0	\$6,928,000	

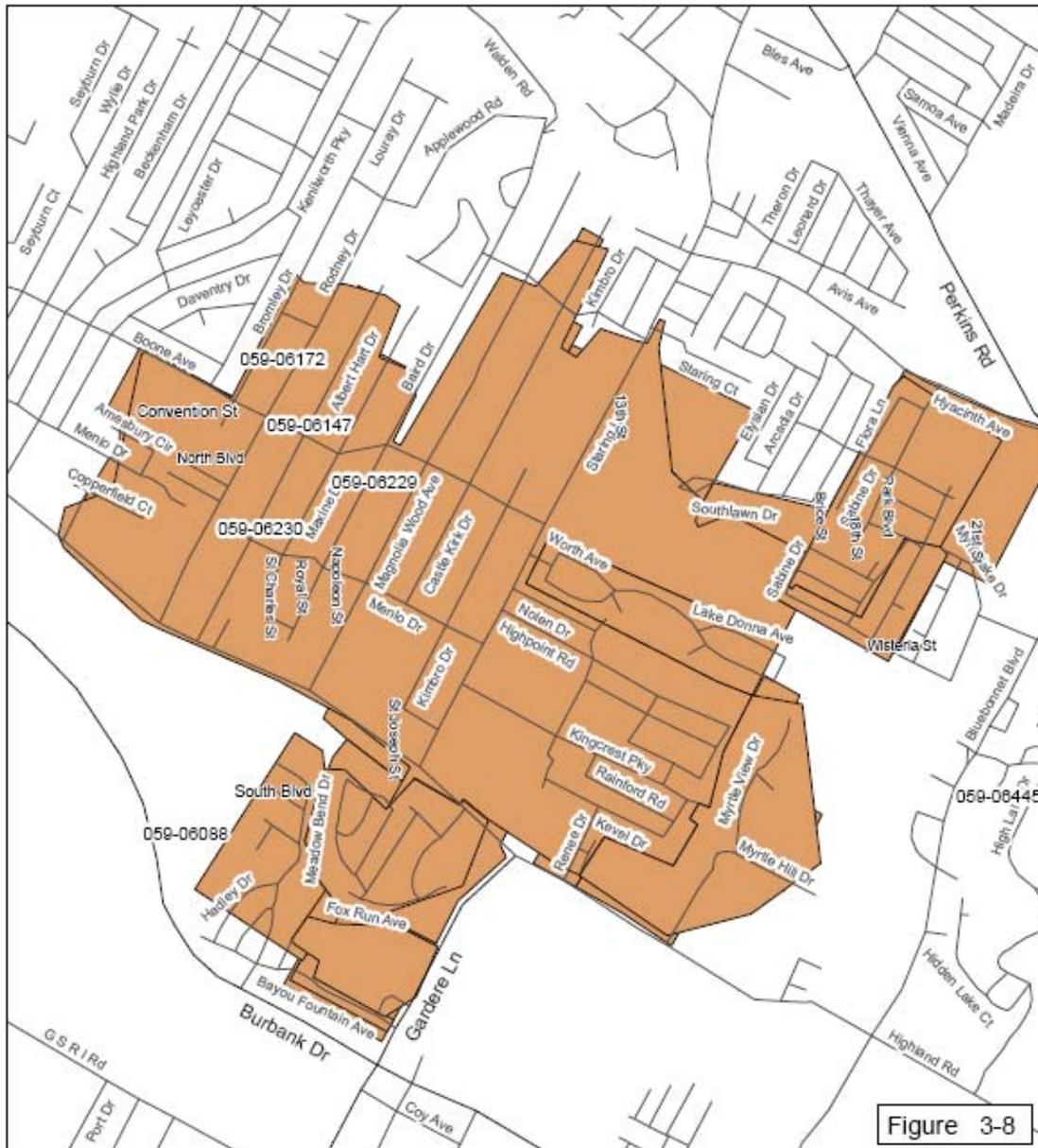


Figure 3-8

East Baton Rouge Parish

Legend

Area Designated for Physical Inspection

0 1,000 2,000 Feet

Staring Lane – Boone Road

Project Vicinity Map

Baton Rouge Sewer Program

Collection System Rehabilitation

Oak Villa Blvd. – Choctaw Street

News

- Contractor performed cleaning, inspection and smoke testing of project area sewers

Planned Activities

- Ongoing progress meetings and technical oversight of physical inspection
- Basin observations and field reconnaissance
- Begin data analysis and basin characterization in August 2008

Project Information

City-Parish Project Number:	08-AR-UF-0005
Project Name	Sewer Rehabilitation – Oak Villa Blvd. – Choctaw Street
Project Description:	The project involves the rehabilitation of the gravity collection system in the Oak Villa Blvd. – Choctaw Street area in south Baton Rouge.
Program Project Manager:	Jason Crain, P.E.
Design Consultant:	Ron Rodi, P.E., CSRS
Project Start Date:	April 2008
Estimated Project End Date:	November 2010

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Oak Villa Blvd. – Choctaw Street	2 nd Qtr '08	4 th Qtr '10
Design	2 nd Qtr '08	1 st Qtr '09
Bid Phase	1 st Qtr '09	4 th Qtr '09
Land Acquisition	1 st Qtr '09	3 rd Qtr '09
Construction	4 th Qtr '09	4 th Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,600,000	\$0	\$0	\$5,600,000	\$6,900,000
Engineering	\$818,000	\$0	\$0	\$818,000	
Inspection	\$500,000	\$0	\$0	\$500,000	
Total	\$6,918,000	\$ 0	\$ 0	\$6,918,000	

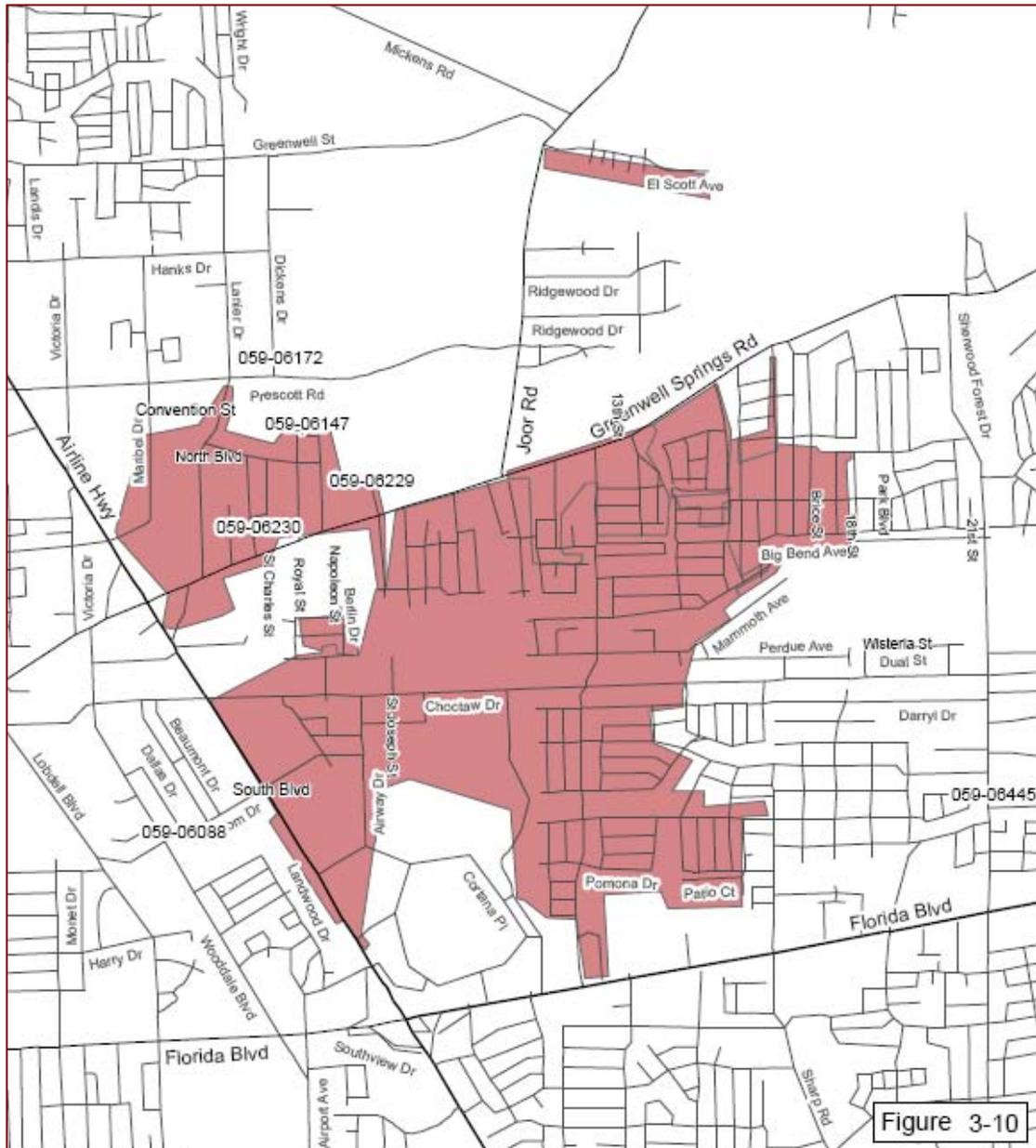


Figure 3-10

East Baton Rouge Parish

Legend

Area Designated for Physical Inspection

0 1,000 2,000 Feet

Oak Villa Blvd – Choctaw Street

Project Vicinity Map

Baton Rouge Sewer Program

SCADA Master Plan

Supervisory Control and Data Acquisition

News

- SCADA Master Plan delivered to DPW
- Prepared draft bid documents for existing pump station SCADA projects

Planned Activities

- SCADA Master Plan will be posted to the web-site in July 2008
- Advertise for design, installation, and maintenance of control system for existing pump stations

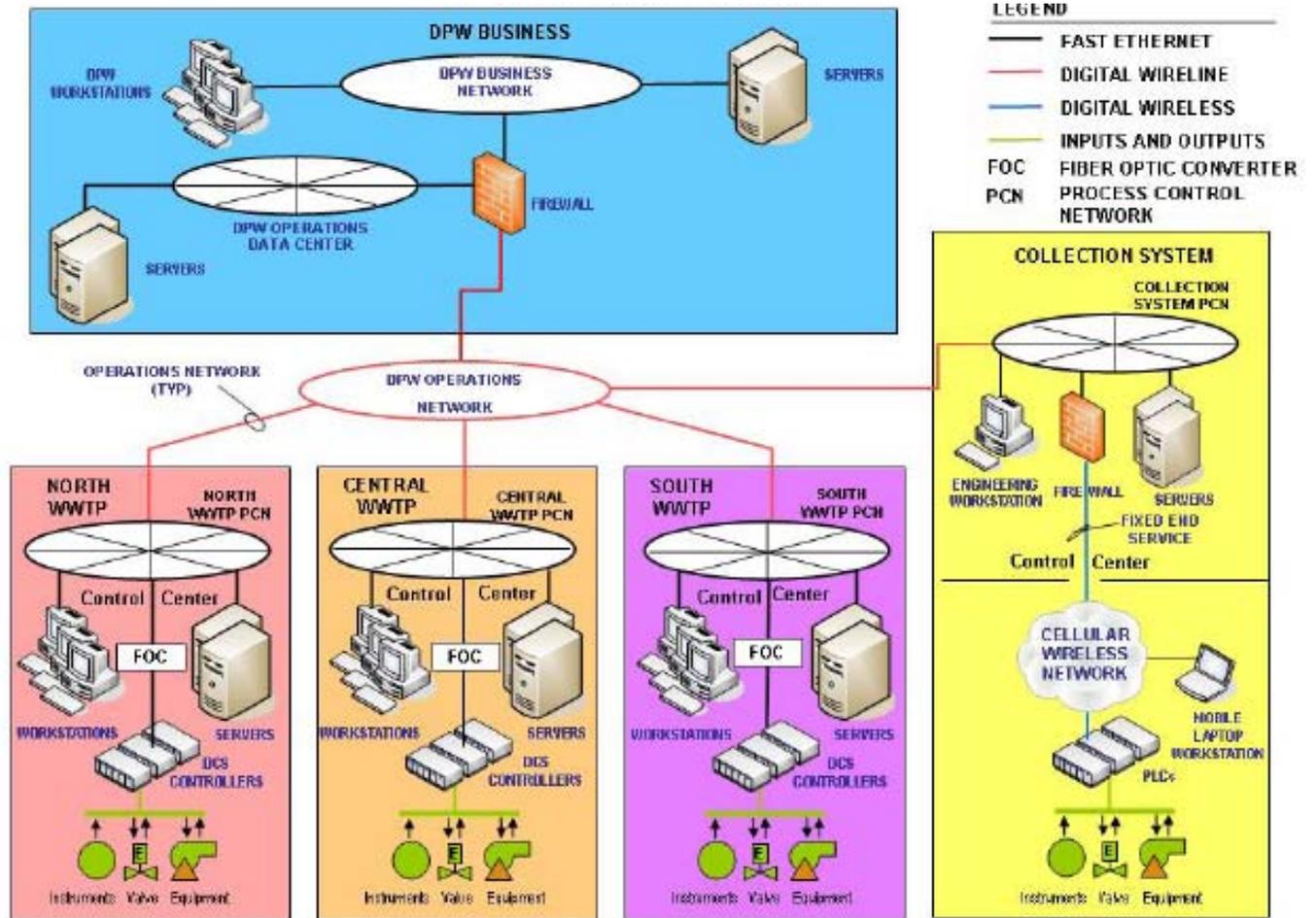
Project Information

Project Name	Supervisory Control and Data Acquisition (SCADA) Master Plan
Project Description:	The SCADA Master Plan will provide DPW with recommendations for implementation of SCADA systems at the WWTPs and in the collection system, with provisions for centralized control of the WWTPs and of the collection system.
Program Project Manager:	Jennifer Baldwin, Ph.D., P.E.
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	December 2008

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
SCADA (Supervisory Control and Data Acquisition)	1 st Qtr '08	4 th Qtr '08
SCADA Group 1	1 st Qtr '08	2 nd Qtr '08
Bid Phase	3 rd Qtr '08	4 th Qtr '08
Construction	4 th Qtr '08	4 th Qtr '08
SCADA Group 2	1 st Qtr '08	2 nd Qtr '08

Proposed DPW SCADA



Projects Under Design

RMAP1 – Industriplex Area Upgrades

News

- Final plans and specifications submitted to DPW
- DPW prepared conformed documents

Planned Activities

- Continue work on permit for gas company pipeline crossing
- DPW to advertise project in August 2008
- Complete land acquisition

Project Information

City-Parish Project Number:	99-RMP-S08
Project Name	RMAP1 – Industriplex Area Upgrades
Project Description:	The Industriplex Area Upgrade Project is located in the Siegen Lane/ Industriplex Boulevard area. The project plan includes demolition of six pump stations: PS252, PS287, PS331, PS332, PS355, and PS389 and replace them with one new pump station near PS332, on Exchequer Drive between Little Cayman and Merchant Drive. A new 16-inch forcemain will discharge from the new station to an existing 42-inch forcemain east of Pecue Lane. This project will reduce pump station operation and maintenance costs and reduce any possible odor issues associated with the existing pump stations.
Program Project Manager:	Fernando (Fred) Estevez, P.E.
Design Consultant:	Chad Bacas, P.E., Forte & Tablada
Project Start Date:	1999 (Under previous consultant)
Estimated Project End Date:	November 2009

Project Schedule

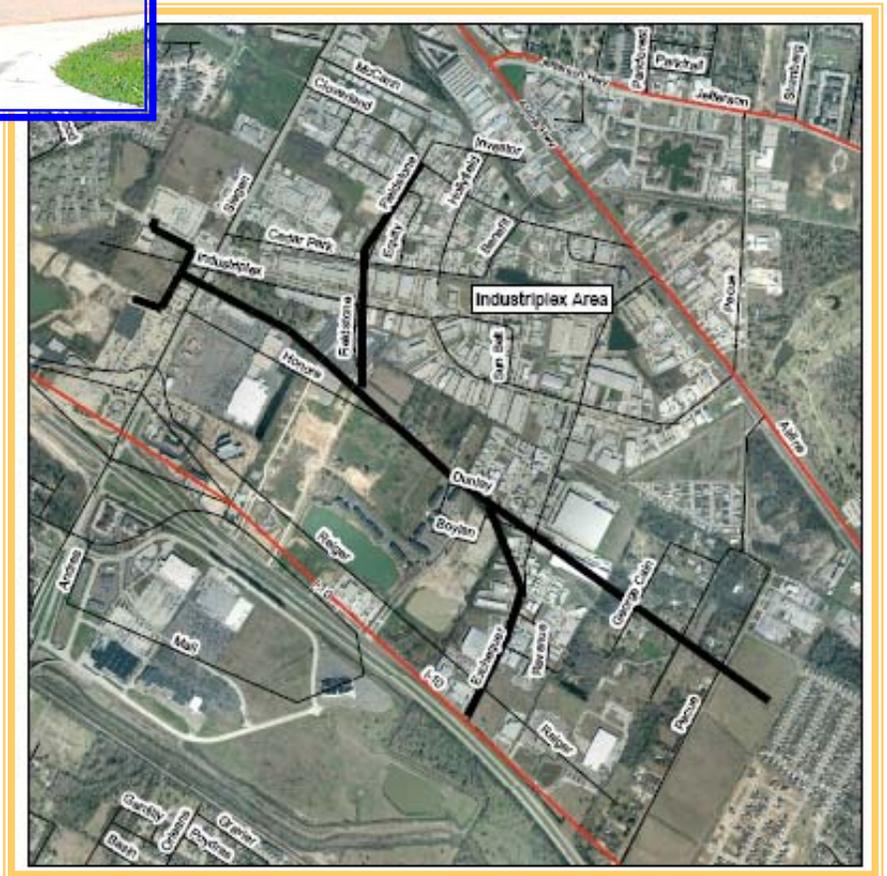
PROJECT SCHEDULE	Start Date	End Date
RMAP1 Industriplex Area Upgrades	1 st Qtr '08	4 th Qtr '09
Design	1 st Qtr '08	3 rd Qtr '08
Land Acquisition	1 st Qtr '08	3 rd Qtr '08
Permitting	1 st Qtr '08	3 rd Qtr '08
Bid Phase	3 rd Qtr '08	1 st Qtr '09
Construction	1 st Qtr '09	4 th Qtr '09

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008				
Account	Budget To-Date	Encumbrances	Expenses	Balance
Construction	\$7,944,724	\$0	\$0	\$7,944,724
Engineering	\$550,738	\$4,147	\$546,591	\$0
Inspection	\$89,999	\$0	\$4,140	\$85,858
Right-of-Way Acqu.	\$248,545	\$16,295	\$213,796	\$18,454
Contingencies	\$305,469	\$0	\$0	\$305,468
Miscellaneous	\$5,000	\$0	\$4,039	\$962
Total	\$9,144,475	\$20,442	\$768,566	\$8,355,466



The project area is located at Siegen Lane/Industriplex Boulevard Area



Projects Under Design

RMAP1 – Kleinpeter Area Upgrades

News

- Final plans and specifications submitted to DPW

Planned Activities

- Advertise for bids in July 2008
- Pre Bid Meeting scheduled for July 30, 2008
- Bid opening in August 2008

Project Information

City-Parish Project Number:	03-RMP-S14
Project Name	RMAP1 – Kleinpeter Area Upgrades
Project Description:	The Kleinpeter Area Upgrade Project is located in the Santa Maria/Country Club of Louisiana area near Interstate 10 and Highland Road. The project consists of conducting capacity upgrades to pump stations PS343 and PS382. The project also includes the construction of approximately 1,000 linear feet of new 4-inch forcemain associated with the PS382 upgrade.
Program Project Manager:	Ruhan Isim
Design Consultant:	Bill Monroe, P.E., Monroe & Corie, Inc.
Project Start Date:	2003 (Under previous consultant)
Estimated Project End Date:	April 2010

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
RMAP1 Kleinpeter Area Upgrades	1 st Qtr '08	2 nd Qtr '10
Design	1 st Qtr '08	3 rd Qtr '08
Land Acquisition	1 st Qtr '08	2 nd Qtr '08
Permitting	2 nd Qtr '08	3 rd Qtr '08
Bid Phase	3 rd Qtr '08	4 th Qtr '08
Construction	1 st Qtr '09	2 nd Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008				
Account	Budget To-Date	Encumbrances	Expenses	Balance
Construction	\$1,590,139	\$831,000	\$0	\$759,139
Engineering	\$158,865	\$36,506	\$122,359	\$0
Inspection	\$52,891	\$6,402	\$0	\$46,489
Miscellaneous	\$2,000	\$0	\$58	\$1,942
Total	\$1,803,895	\$873,908	\$122,417	\$807,570

Kleinpeter Area



Projects Under Design

RMAP1 – PS136 Area Upgrades

News

- Final plans and specifications submitted to DPW

Planned Activities

- Complete land acquisition
- DPW to advertise project in September 2008
- Open project bids in October 2008

Project Information

City-Parish Project Number:	99-RMP-S16
Project Name	RMAP1 – PS136 Area Upgrades
Project Description:	The PS136 Area Upgrade project is located in the Lake Sherwood Acres area and consists of the demolition of nine existing pump stations, specifically PS143, PS216, PS270, PS136, PS168, PS328, PS217, PS134, and PS135 and 27,000 linear feet of associated 4 to 24 inch forcemains. A new gravity system will be constructed routing sewer flow from the nine demolished pump stations to one new centralized 4.5 million gallon per day pump station located in the Gulf States Utility (GSU) right-of-way at Tollway Drive. The new gravity system includes the construction of approximately 10,300 linear feet of 10 to 12 inch gravity sewer, approximately 6,000 linear feet of 15 to 18 inch gravity sewer, and approximately 4,400 linear feet of 24 to 36 inch gravity sewer.
Program Project Manager:	Fernando (Fred) Estevez, P.E.
Design Consultant:	Greg Sepeda, P.E., Sigma Consulting Group
Project Start Date:	1999 (Under previous consultant)
Estimated Project End Date:	April 2010

Project Schedule

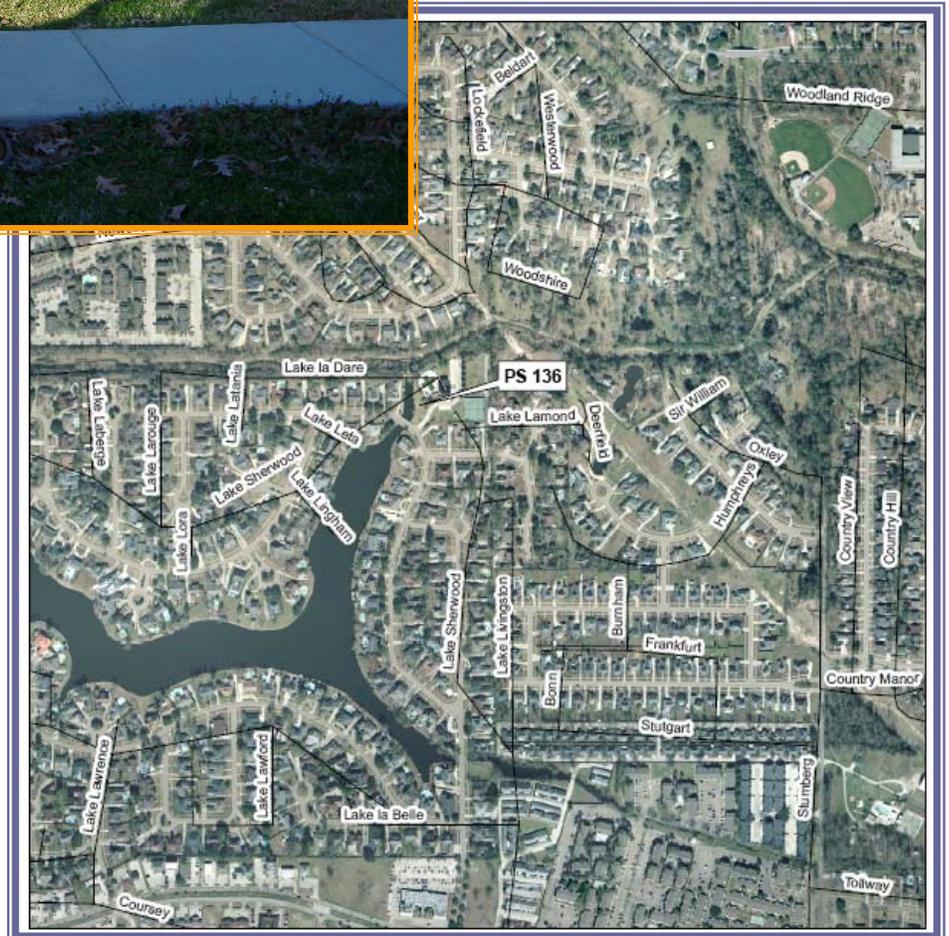
PROJECT SCHEDULE		Start Date	End Date
RMAP1 Pump Station 136		1 st Qtr '08	2 nd Qtr '10
Design		1 st Qtr '08	3 rd Qtr '08
Land Acquisition		1 st Qtr '08	3 rd Qtr '08
Permitting		2 nd Qtr '08	3 rd Qtr '08
Bid Phase		3 rd Qtr '08	1 st Qtr '09
Construction		1 st Qtr '09	2 nd Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008				
Account	Budget To-Date	Encumbrances	Expenses	Balance
Construction	\$7,372,799	\$0	\$0	\$7,372,799
Engineering	\$628,346	\$102,639	\$525,676	\$31
Inspection	\$244,815	\$48,470	\$30,967	\$165,378
Right-of-Way Acqu.	\$147,000	\$8,381	\$117,111	\$21,508
Contingencies	\$159,556	\$0	\$30	\$159,526
Miscellaneous	\$4,500	\$0	\$4,500	\$0
Total	\$8,557,016	\$159,490	\$678,284	\$7,719,242



Under the RMAP1 – PS136 Area Upgrades Project, Pump Station 216 will be demolished



Projects Under Design

Red Mud Lakes

News

- Submitted project definition to DPW

Planned Activities

- Begin Consultant approval process in August
- Negotiate fee with Design Consultant

Project Information

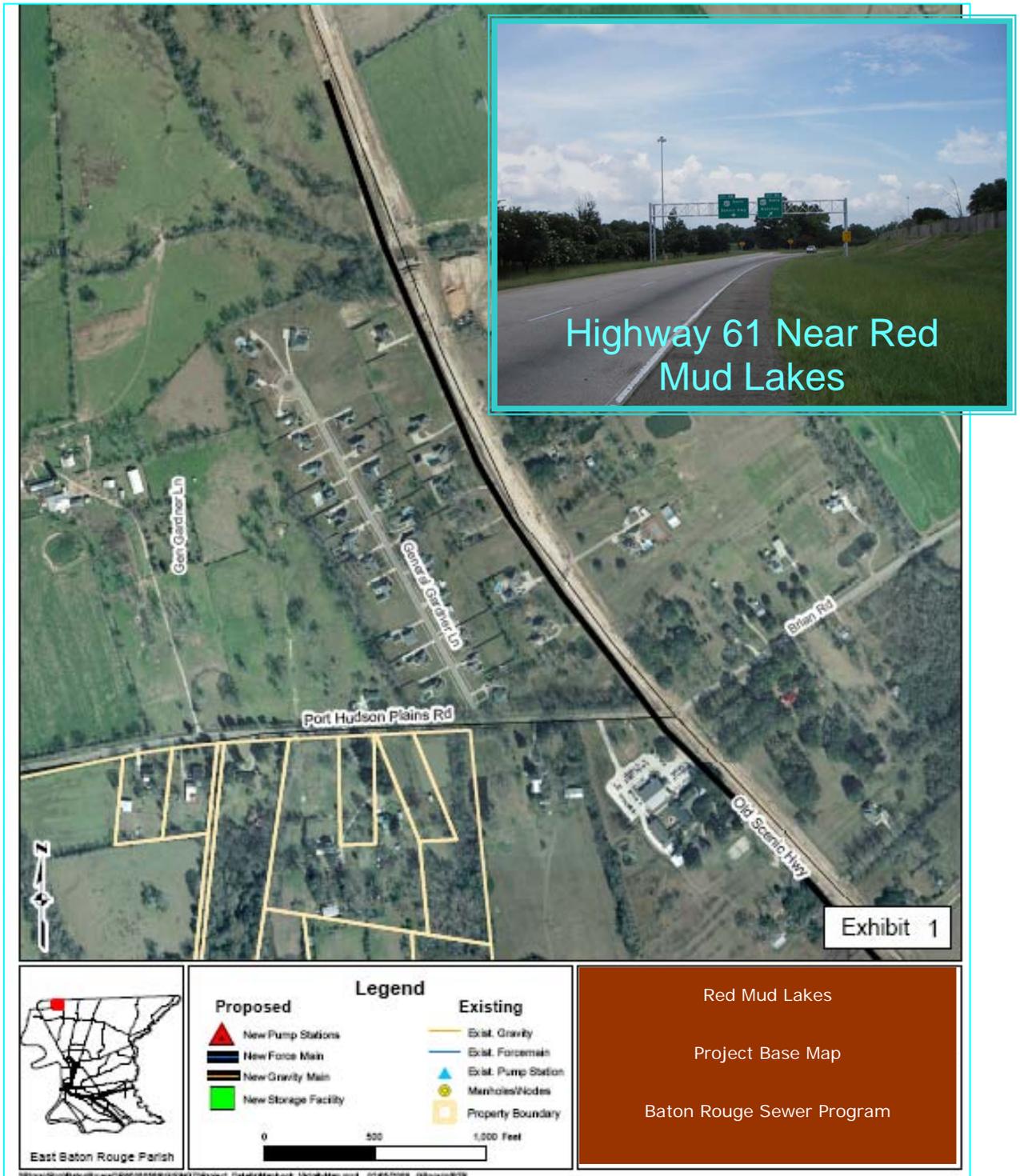
City-Parish Project Number:	06-WC-IF-0014
Project Name	Red Mud Lakes
Project Description:	The project involves the design and construction of upgrades to the collection system in the North service area to alleviate chronic SSOs in the gravity basins and accommodate for future growth. This project includes upgrading portions of the forcemain system and the gravity collection system and the design and construction of a wastewater storage/equalization facility at the Red Mud Lakes area in the northwest part of the parish. The storage/equalization facility will attenuate flow to the North WWTP, allowing the sum of flows to remain within the current capacity of the treatment plant.
Program Project Manager:	Obie Watts, P.E.
Design Consultant:	Randy Hollis, P.E., SJB Group, LLC/Owen & White, Inc.
Project Start Date:	March 2008
Estimated Project End Date:	February 2012

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Red Mud Lakes		1 st Qtr '08	1 st Qtr '12
	Project Definition	1 st Qtr '08	2 nd Qtr '08
	Consultant Negotiations	3 rd Qtr '08	3 rd Qtr '08
	Consultant Contract Approval	3 rd Qtr '08	3 rd Qtr '08
	Bid Phase	3 rd Qtr '10	1 st Qtr '11
	Permitting	4 th Qtr '08	1 st Qtr '10
	Construction	1 st Qtr '11	1 st Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Engineering	\$2,860,000	\$0	\$0	\$2,860,000	\$2,900,000
Right-of-Way Acq.	\$40,000	\$0	\$0	\$40,000	
Total	\$2,900,000	\$ 0	\$ 0	\$2,900,000	



Projects Under Design

South WWTP Primary Treatment Improvements Immediate Action Project (IAP) #2

News

- CDM submitted the final contact documents in June 2008
- Program Management Team prepared the final standard specifications in June 2008
- Combined project as one bid and construction package with other IAP projects and begin advertisement for bids in June 2008 (new City-Parish project number is: 08-TP-BD-0031)

Planned Activities

- Bid opening to be conducted in August 2008
- Contract award to occur in September 2008

Project Information

City-Parish Project Number:	06-WT-TP-0060
Project Name	South Wastewater Treatment Plant (WWTP) Primary Treatment Improvements, IAP #2
Project Description:	The South WWTP Primary Treatment Improvement Project, IAP #2 consists of the rehabilitation of primary clarifiers and primary sludge pump stations, the addition of ferric chloride and polymer chemical feed systems for chemically enhanced primary treatment, and improvements for flow control and measurement at multiple flow splitter boxes.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Justin Haydel, P.E., Camp, Dresser, and McKee (CDM)
Project Start Date:	November 2006
Estimated Project End Date:	August 2009

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
South WWTP Primary Treatment Improvements, Immediate Action Project (IAP) #2	4th Qtr '06	3 rd Qtr '09
Consultant Selection	4 th Qtr '06	2 nd Qtr '07
Consultant Negotiations	2 nd Qtr '07	1 st Qtr '08
Design	3 rd Qtr '07	2 nd Qtr '08
Permits	2 nd Qtr '08	3 rd Qtr '08
Bid Phase	2 nd Qtr '08	3 rd Qtr '08
Construction	3 rd Qtr '08	3 rd Qtr '09

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$1,230,000	\$0	\$0	\$1,230,000	\$5,304,000
Engineering	\$420,000	\$85,368	\$323,381	\$11,251	
Contingencies	\$140,000	\$0	\$0	\$140,000	
Miscellaneous	\$10,000	\$0	\$85	\$9,915	
Total	\$1,800,000	\$85,368	\$323,466	\$1,391,166	



**IAP #2 - South WWTP
Primary Treatment Improvements**



Projects Under Design

South WWTP Screening Improvements Immediate Action Project (IAP) #1

News

- AFJM submitted final contract documents in June 2008
- Program Management Team prepared the final standard specifications in June 2008
- Combined project as one bid and construction package with other IAP projects and begin advertisement for bids in June 2008 (new City-Parish project number is: 08-TP-BD-0031)

Planned Activities

- Bid opening to be conducted in August 2008
- Contract award to occur in September 2008

Project Information

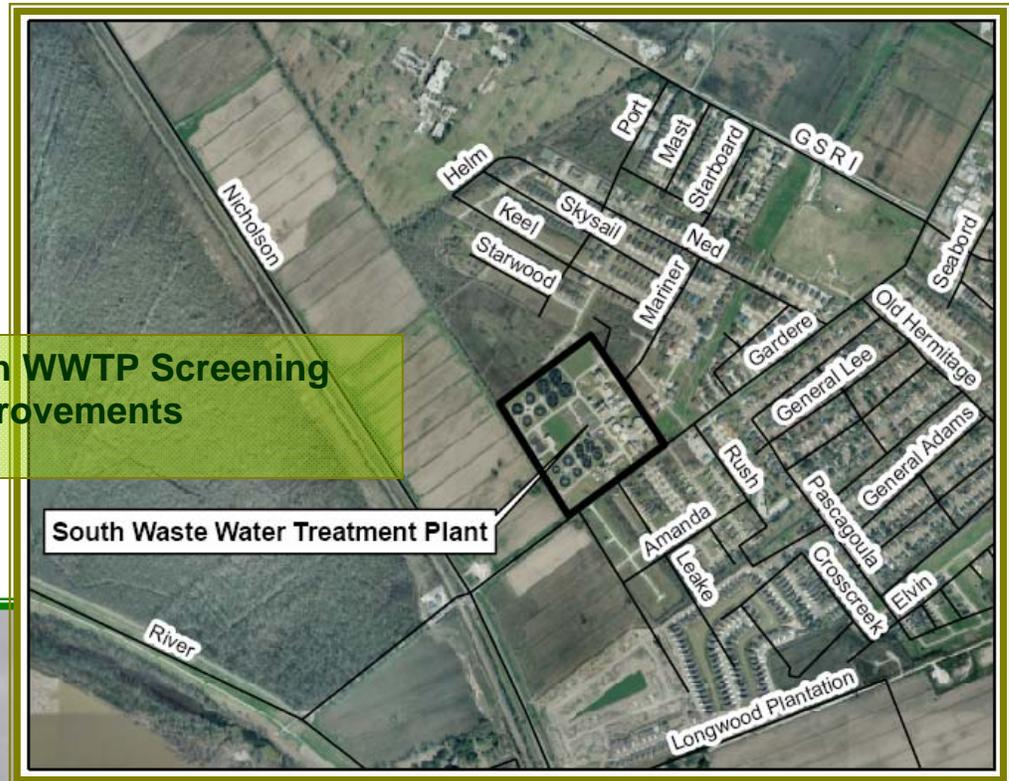
City-Parish Project Number:	06-WT-TP-0059
Project Name	South Wastewater Treatment Plant (WWTP) Screening Improvements, IAP #1
Project Description:	The South WWTP Screenings Improvement Project, IAP #1, consists of the addition of two new bar screens to the existing facility and improvements to the existing conveyor system, sluice gates, and associated electrical and control systems.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Robert Isemann, P.E., Aillet, Fenner, Jolly & McClelland (AFJM)
Project Start Date:	November 2006
Estimated Project End Date:	September 2009

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
South WWTP Screening Improvements, Immediate Action Project (IAP) #1	4 th Qtr '06	3 rd Qtr '09
Consultant Selection	4 th Qtr '06	2 nd Qtr '07
Consultant Negotiations	2 nd Qtr '07	3 rd Qtr '07
Design	3 rd Qtr '07	3 rd Qtr '08
Permits	2 nd Qtr '08	3 rd Qtr '08
Bid Phase	2 nd Qtr '08	3 rd Qtr '08
Construction	3 rd Qtr '08	3 rd Qtr '09

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$800,000	\$0	\$0	\$800,000	\$1,072,000
Engineering	\$80,000	\$10,610	\$50,390	\$19,000	
Contingencies	\$70,000	\$0	\$0	\$70,000	
Miscellaneous	\$10,000	\$0	\$72	\$9,928	
Total	\$960,000	\$10,610	\$50,462	\$898,928	



Projects Under Design

South WWTP Sludge Handling Improvements Immediate Action Project (IAP) #5

News

- URS submitted final contract documents in June 2008
- Program Management Team prepared the final standard specifications in June 2008
- Combined project as one bid and construction package with other IAP projects and begin advertisement for bids in June 2008 (new City-Parish project number is: 08-TP-BD-0031)

Planned Activities

- Bid opening to be conducted in August 2008
- Contract award to begin in September 2008

Project Information

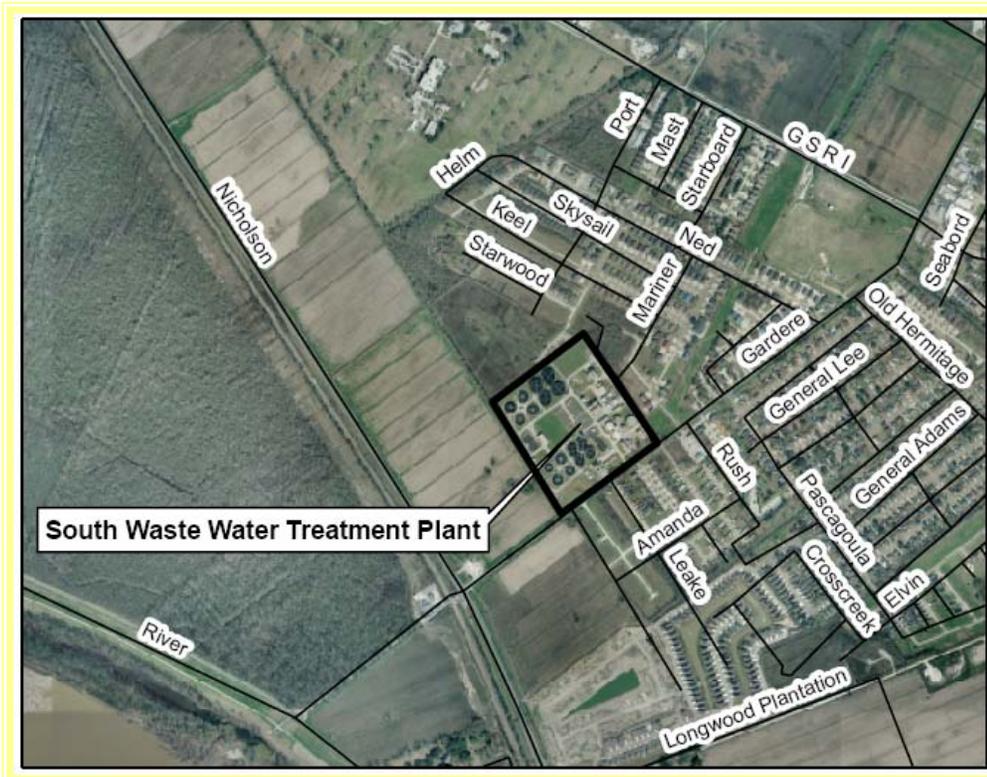
City-Parish Project Number:	06-WT-TP-0063
Project Name	South Wastewater Treatment Plant (WWTP) Sludge Handling Improvements, IAP #5
Project Description:	The South WWTP Sludge Handling Improvements Project, IAP #5 consists of the rehabilitation of the gravity thickeners, thickened sludge pump station, and gravity belt thickeners, and improvements to site grading, thickener overflow piping, belt filter press filtrate line, snail shell screens, and site piping.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Ken Thomas, P.E., URS Corporation
Project Start Date:	November 2006
Estimated Project End Date:	September 2009

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
South WWTP Sludge Handling Improvements, Immediate Action Project (IAP) #5	4 th Qtr '06	3 rd Qtr '09
Consultant Selection	4 th Qtr '06	2 nd Qtr '07
Consultant Negotiations	2 nd Qtr '07	1 st Qtr '08
Design	3 rd Qtr '07	2 nd Qtr '08
Permits	2 nd Qtr '08	3 rd Qtr '08
Bid Phase	2 nd Qtr '08	3 rd Qtr '08
Construction	4 th Qtr '08	3 rd Qtr '09

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$1,721,200	\$0	\$0	\$1,720,200	\$5,072,000
Engineering	\$428,800	\$308,800	\$120,000	\$0	
Miscellaneous	\$10,000	\$0	\$86	\$9,914	
Total	\$2,160,000	\$308,800	\$120,086	\$1,730,114	



**IAP #5
South WWTP
Sludge Handling
Improvements**



Projects Under Design

South WWTP Trickling Filter Improvements Immediate Action Project (IAP) #3

News

- MWH submitted the final contract documents in June 2008
- Program Management Team prepared the final standard specifications in June 2008
- Advertised for bids in June 2008
- Combined project as one bid and construction package with other IAP projects and begin advertisement for bids in June 2008 (new City-Parish project number is: 08-TP-BD-0031)

Planned Activities

- Bid opening to be conducted in August 2008
- Contract award to occur in September 2008

Project Information

City-Parish Project Number:	06-WT-TP-0061
Project Name	South Wastewater Treatment Plant (WWTP) Trickling Filter Improvements, IAP #3
Project Description:	The South WWTP Trickling Filter Improvements Project, IAP #3 consists of the addition of a trickling filter recirculation pumping station. Also included are associated piping, electrical, and instrumentation improvements.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Ray Rials, P.E., Montgomery Watson Harza (MWH)
Project Start Date:	November 2006
Estimated Project End Date:	August 2009

Project Schedule

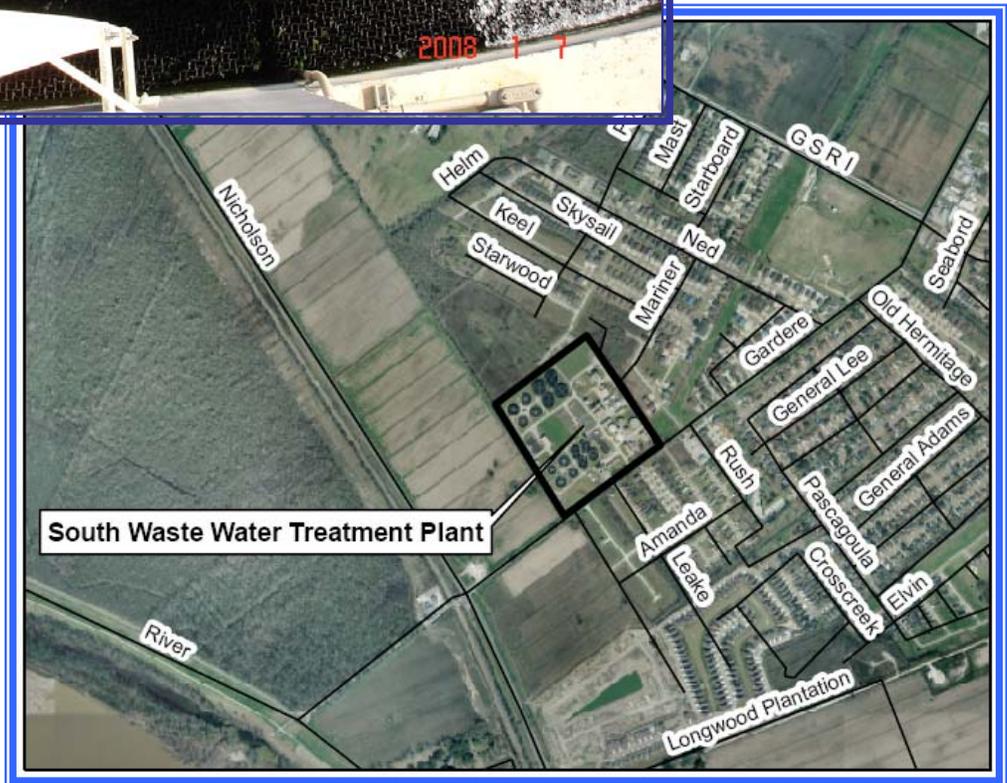
PROJECT SCHEDULE	Start Date	End Date
South WWTP Trickling Filter Improvements, Immediate Action Project (IAP) #3	4 th Qtr '06	3 rd Qtr '09
Consultant Selection	4 th Qtr '06	2 nd Qtr '07
Consultant Negotiations	2 nd Qtr '07	3 rd Qtr '07
Design	3 rd Qtr '07	2 nd Qtr '08
Permits	2 nd Qtr '08	3 rd Qtr '08
Bid Phase	2 nd Qtr '08	3 rd Qtr '08
Construction	3 rd Qtr '08	3 rd Qtr '09

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$4,500,000	\$0	\$0	\$4,500,000	\$14,830,000
Engineering	\$600,000	\$121,490	\$478,510	\$0	
Contingencies	\$280,000	\$0	\$0	\$280,000	
Miscellaneous	\$20,000	\$0	\$86	\$19,914	
Total	\$5,400,000	\$121,490	\$478,596	\$4,799,914	



**IAP #3
South WWTP
Trickling Filter
Improvements**



Projects Under Design

SSO Odor Control North Wastewater Treatment Plant (NWWTP)

News

- Finalized and submitted equipment procurement packages for advertisement

Planned Activities

- Equipment procurement packages will be advertised for bids
- Bid opening for equipment and procurement packages is scheduled for the week of July 21st

Project Information

City-Parish Project Number:	07-WT-TP-0058
Project Name	SSO Odor Control NWWTP
Project Description:	The North Plant Odor Control project will reduce odor problems at the North Plant. The project will include odor control improvements at the North Plant and five pump stations (PS43, PS52, PS371, PS430 and PS509). This system will address odor problems in the collection system and will result in a reduction in odor at the receiving treatment plant.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Oscar Boudreaux, P.E., Environmental Engineering Services, Inc.
Project Start Date:	June 2007
Estimated Project End Date:	January 2010

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
SSO Odor Control NWWTP	2 nd Qtr '07	1 st Qtr '10
Equipment Procurement	2 nd Qtr '07	3 rd Qtr '08
Consultant Selection	3 rd Qtr '07	4 th Qtr '07
Consultant Approval	4 th Qtr '07	4 th Qtr '07
Manufacture Equipment	3 rd Qtr '08	1 st Qtr '09
Design	4 th Qtr '08	1 st Qtr '09
Permitting	4 th Qtr '08	1 st Qtr '09
Bid Phase	1 st Qtr '09	2 nd Qtr '09
Construction	2 nd Qtr '09	1 st Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$2,331,110	\$2,037,845	\$0	\$293,265	\$2,856,730
Engineering	\$49,500	\$49,500	\$0	\$0	
Miscellaneous	\$10,000	\$0	\$0	\$10,000	
Contingencies	\$466,120	\$0	\$0	\$466,120	
Total	\$2,856,730	\$2,087,345	\$ 0	\$769,385	



Ductwork in the Gravity Main Headworks at the North Wastewater Treatment Plant



Projects Under Design

Capitol Lake Drive – Gayosa Drive Collection System Improvements

News

- Recommended approval of the Design Engineer’s Fee Proposal
- Received approval of the Fee Proposal from the CIC and Metro Council

Planned Activities

- Begin preliminary design phase in August 2008 after the contracting is complete

Project Information

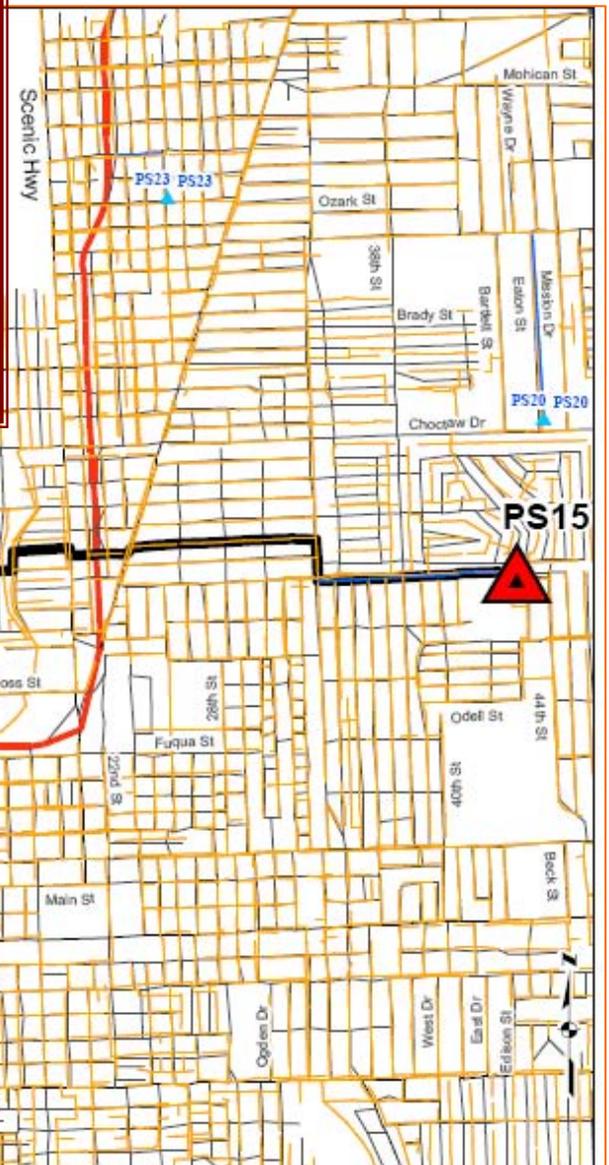
City-Parish Project Number:	07-PS-BD-0048
Project Name	Capitol Lake Drive – Gayosa Drive
Project Description:	This project involves pipe replacement in the Capitol Lake Drive – Gayosa Drive areas. From PS 60, in an easterly direction along Capital Lake Drive, the sewer is currently a 36-inch line. This portion, approximately 4,400 feet, will be replaced with a 48-inch line. This replacement begins west of interstate 110 and north of Spanish Town Road and continues east of interstate 110 to the northern end of North 10 th Street. The remaining 4,800 feet of line will be replaced with 4,700 feet of 30-inch line and 100 feet of 24-inch line along Spanish Town Road, north 16 th Street and Gayosa Street. Approximately 860 feet of existing 8-inch forcemain exiting PS19 along Eiland Drive will be upgraded to a 12-inch forcemain.
Program Project Manager:	Jeremy Fontenot
Design Consultant:	R. Gary McClure, P.E., Shread-Kuyrkendall and Associates
Project Start Date:	January 2008
Estimated Project End Date:	January 2011

Project Schedule

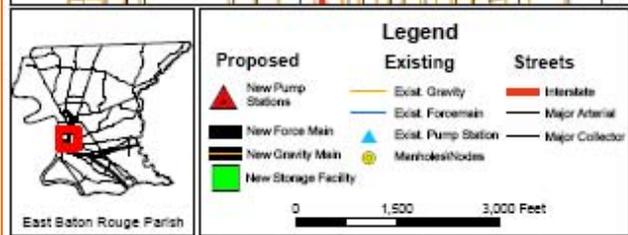
PROJECT SCHEDULE		Start Date	End Date
Capitol Lake Drive – Gayosa Street		1 st Qtr '08	1 st Qtr '11
Consultant Selection		1 st Qtr '08	2 nd Qtr '08
Consultant Negotiations		1 st Qtr '08	2 nd Qtr '08
Consultant Contract Approval		2 nd Qtr '08	3 rd Qtr '08
Design		3 rd Qtr '08	1 st Qtr '09
Land Acquisition		3 rd Qtr '08	3 rd Qtr '09
Wetlands		3 rd Qtr '08	1 st Qtr '09
Bid Phase		3 rd Qtr '09	1 st Qtr '10
Permitting		3 rd Qtr '08	1 st Qtr '09
Construction		1 st Qtr '10	1 st Qtr '11

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$12,000,000	\$0	\$0	\$12,000,000	\$7,460,000
Engineering	\$800,000	\$0	\$0	\$800,000	
Inspection	\$700,000	\$0	\$0	\$700,000	
Total	\$13,500,000	\$ 0	\$ 0	\$13,500,000	



Approximately 860 feet of existing 8" forcemain exiting PS19 along Eiland Drive will be upgraded to a 12" forcemain



Capitol Lake Drive – Gayosa Drive
Project Vicinity Map
Baton Rouge Sewer Program

Projects Under Design

Gurney Road – Joor Road Pump Station and Forcemain Replacement

News

- Neel-Schaffer, Inc. submitted the 60% design package which was reviewed by the Program Management Team
- The Program Management Team conducted a field Plan-In-Hand, and then met with Neel-Schaffer, Inc. to review the 60% design package
- Neel-Schaffer, Inc. began working on the 90% design phase

Planned Activities

- Neel-Schaffer will finalize and submit the 90% design phase of the project in July 2008

Project Information

City-Parish Project Number:	07-PS-BD-0017
Project Name	Gurney Road – Joor Road
Project Description:	<p>The Gurney Road – Joor Road project involves replacing PS176 to alleviate SSOs at and near the pump station and forcemains exiting PS176 and PS284. PS176 will be sized to meet future peak wet weather flow.</p> <p>PS176 is located on the south side of Tallowood Avenue between the intersections of Pheasantwood Drive and Partridgewood Drive. The majority of the area contributing to the pump station is residential. Forcemain segment PS176 to NS6157 runs from Partridgewood Drive to Gurney Road and terminates at Sullivan Road for approximately 11,000 feet. Forcemain segment PS284 to NS6156 runs from Arrowood Avenue to Joor Road and terminates at Gurney Road for approximately 6,700 feet.</p>
Program Project Manager:	Jeff Duplantis, P.E.
Design Consultant:	Jerry Trumps, Neel-Schaffer, Inc.
Project Start Date:	January 2008
Estimated Project End Date:	June 2010

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Gurney Road – Joor Road		1 st Qtr '08	2 nd Qtr '10
Design		1 st Qtr '08	3 rd Qtr '08
Permits		3 rd Qtr '08	3 rd Qtr '08
Bid Phase		4 th Qtr '08	1 st Qtr '09
Construction		2 nd Qtr '09	2 nd Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$4,200,000	\$0	\$0	\$4,200,000	\$7,460,000
Engineering	\$360,000	\$205,095	\$154,905	\$0	
Right-of-Way Acq.	\$50,000	\$0	\$0	\$50,000	
Inspection	\$190,000	\$0	\$0	\$190,000	
Total	\$4,800,000	\$205,095	\$154,905	\$4,440,000	



Projects Under Design

Multiple Pump Stations – Lovett Road Area

News

- Hartman Engineering submitted the 60% design package which was reviewed by the Program Management Team
- The Program Management Team conducted a field Plan-In-Hand review, and then met with Hartman Engineering to review the 60% design package
- Hartman Engineering began working on the 90% design phase

Planned Activities

- Submit the 90% design in July 2008

Project Information

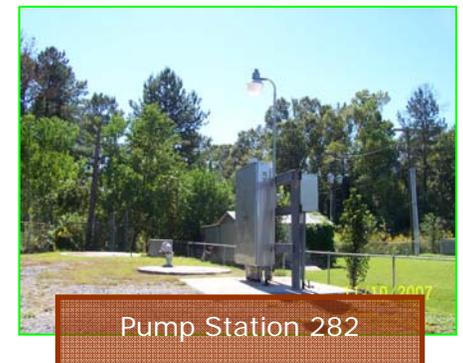
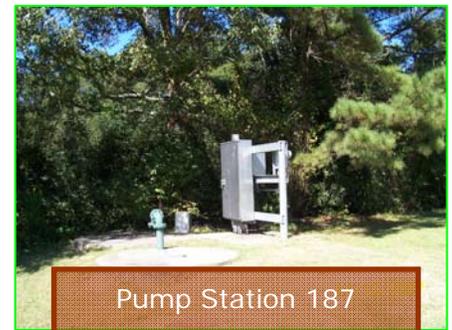
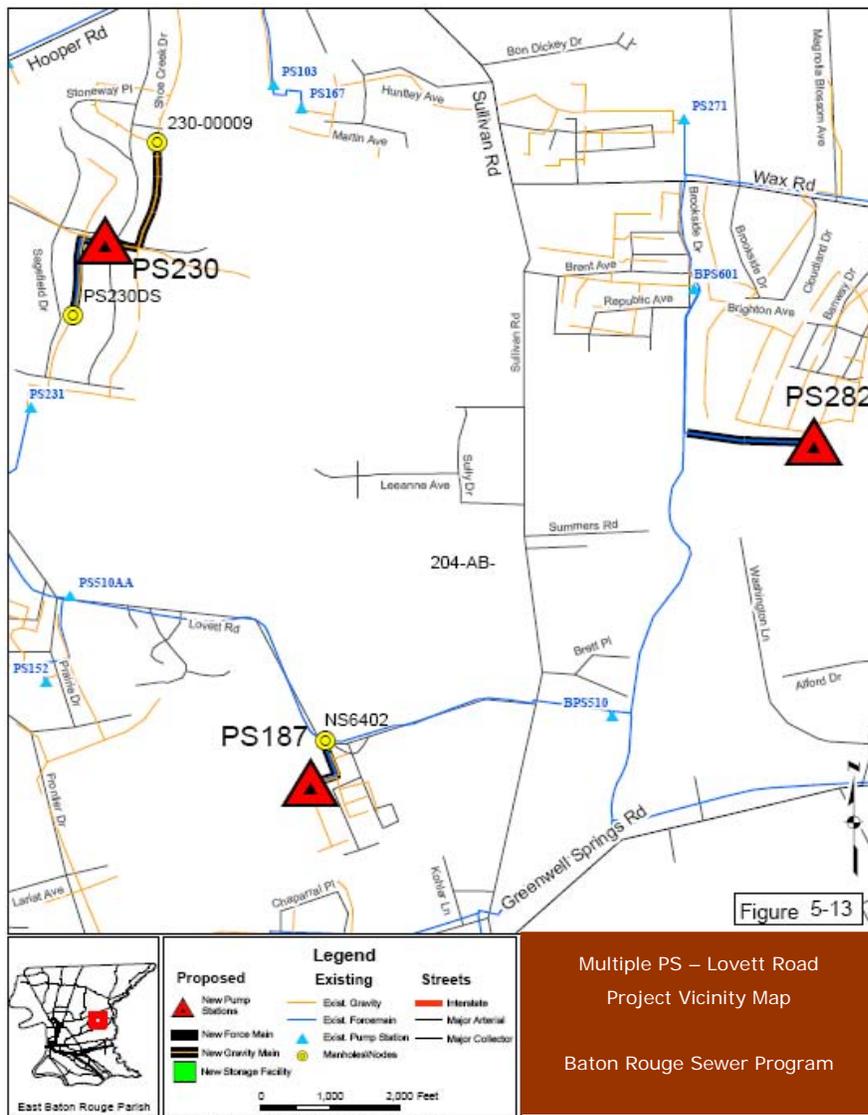
City-Parish Project Number:	07-PS-BD-0018
Project Name	Multiple Pump Stations – Lovett Road Area
Project Description:	<p>PS230 is located along Morgan Meadow Avenue, east of the intersection of Morgan Meadow Avenue and Shoe Creek Drive. Forcemain segment PS230 to PS230DS goes down Morgan Meadow Avenue for approximately 1,200 feet. Gravity segment PS230 to 230-00009 runs from Morgan Meadow Avenue then turns on Sagefield Drive and terminates for approximately 2,100 feet.</p> <p>PS282 is located at the end of Regent Avenue, east of the intersection of Regent Avenue and Trendale Drive. The majority of the area contributing to the pump station is residential. Forcemain segment PS282 to PS601FM goes through a wooded area crossing an unnamed channel, then manifolds into forcemain from PS601.</p> <p>PS187 is located at the end of Clear Oak Avenue, just east of the intersection of Clear Oak Avenue and Oak Meadow Drive. The majority of the area contributing to the pump station is residential. Forcemain segment PS187 to NS6402 goes down Clear Oak Avenue then turns on Woods Edge Drive and terminates at Lovett Road for approximately 1,100 feet.</p> <p>The project is to replace PS230, PS282, PS187 to alleviate SSOs at the pump stations as well as the forcemain existing at PS230, PS282, PS187. Replacement of a portion of the gravity main upstream of PS230 is also included. The Program model predicts a pump station capacity exceedance for the future peak wet weather flow at PS320, PS282 and PS187; therefore, the pump stations shall be sized for the future peak wet weather flows.</p>
Program Project Manager:	Jeff Duplantis, P.E.
Design Consultant:	Justin Bottger, P.E., Hartman Engineering
Project Start Date:	January 2008
Estimated Project End Date:	January 2010

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Multiple Pump Stations – Lovett Road Area		1 st Qtr '08	1 st Qtr '10
Design		1 st Qtr '08	3 rd Qtr '08
Bid Phase		1 st Qtr '09	2 nd Qtr '09
Permitting		3 rd Qtr '08	3 rd Qtr '08
Construction		2 nd Qtr '09	1 st Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$4,500,000	\$0	\$0	\$4,500,000	\$5,090,000
Engineering	\$450,000	\$214,297	\$235,703	\$0	
Right-of-Way Acq.	\$100,000	\$0	\$0	\$100,000	
Inspection	\$150,000	\$0	\$0	\$150,000	
Total	\$5,200,000	\$214,297	\$235,703	\$4,750,000	



Projects Under Design

Comite Road – Foster Road Pump Station and Forcemain Replacement

News

- Metro Council approved Monroe & Corie’s supplemental proposal for work along Comite Drive
- Monroe & Corie began working on the 30% preliminary engineering phase

Planned Activities

- Submit 30% preliminary design report in July 2008

Project Information

City-Parish Project Number:	07-PS-BD-0019
Project Name	Comite Road – Foster Road
Project Description:	<p>The Comite Road – Foster Road project involves replacing PS291, PS94 and PS246 to alleviate SSOs at and near the pump stations and nearby forcemains. In addition, the new pump stations will meet future peak wet weather flow, avoiding exceedances predicted on recent models.</p> <p>The project was amended to include the collection and transmission system along Comite Drive from Plant Road.</p> <p>Approximately 2000 feet along Comite Drive from Plan road will be served by a gravity system that will flow to the west and connect to the existing ravity network at the intersection of Comite Drive and Plank Road.</p> <p>From the point above along Comite Drive it is approximately 3000 feet to Whites Bayou. This area will be served by a gravity system that will flow to a new pump station located near intersection of Comite Drive and Foster Road. The forcemain segment from this new pump station will run along Comite Drive to the east, cross under White Bayou and connect to the new gravity system east of Whites Bayou, approximate length of 2000 feet.</p> <p>Comite Drive between Whites Bayou and Cline Drive will be served by a gravity system that will flow to a new pump station located near the intersection of Comite Drive and Whispering Oaks Avenue. The forcemain segment from this new pump station will run along Whispering Oaks Avenue to Misty Oaks Avenue and then will proceed to connect to PS291.</p>
Program Project Manager:	Jeff Duplantis, P.E.
Design Consultant:	Bill Monroe, P.E., Monroe & Corie, Inc.
Project Start Date:	March 2008
Estimated Project End Date:	November 2010

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Comite Road – Foster Road	1 st Qtr '08	4 th Qtr '10
Consultant Negotiations	1 st Qtr '08	1 st Qtr '08
Consultant Contract Approval	1 st Qtr '08	2 nd Qtr '08
Design	2 nd Qtr '08	4 th Qtr '08
Land Acquisition	2 nd Qtr '08	2 nd Qtr '09

Wetlands	2 nd Qtr '08	4 th Qtr '09
Bid Phase	2 nd Qtr '09	4 th Qtr '09
Permitting	3 rd Qtr '08	4 th Qtr '08
Construction	4 th Qtr '09	4 th Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$2,600,402	\$0	\$0	\$2,600,402	\$3,170,000
Engineering	\$465,000	\$386,407	\$78,593	\$0	
Right-of-Way Acq.	\$50,000	\$0	\$0	\$50,000	
Inspection	\$84,598	\$0	\$0	\$84,598	
Total	\$3,200,000	\$386,407	\$78,593	\$2,735,000	

Pump Station 291 is located along Misty Oaks Avenue



Projects Under Design

Foster Road – Hooper Road Sewer System Study

News

- PEC submitted the sewer study and 30% preliminary design report which was reviewed by the Program Management Team
- The Program Management Team met with PEC to review the 30% preliminary design report
- PEC started working on the 60% design phase

Planned Activities

- PEC will finalize the 60% design phase in July 2008

Project Information

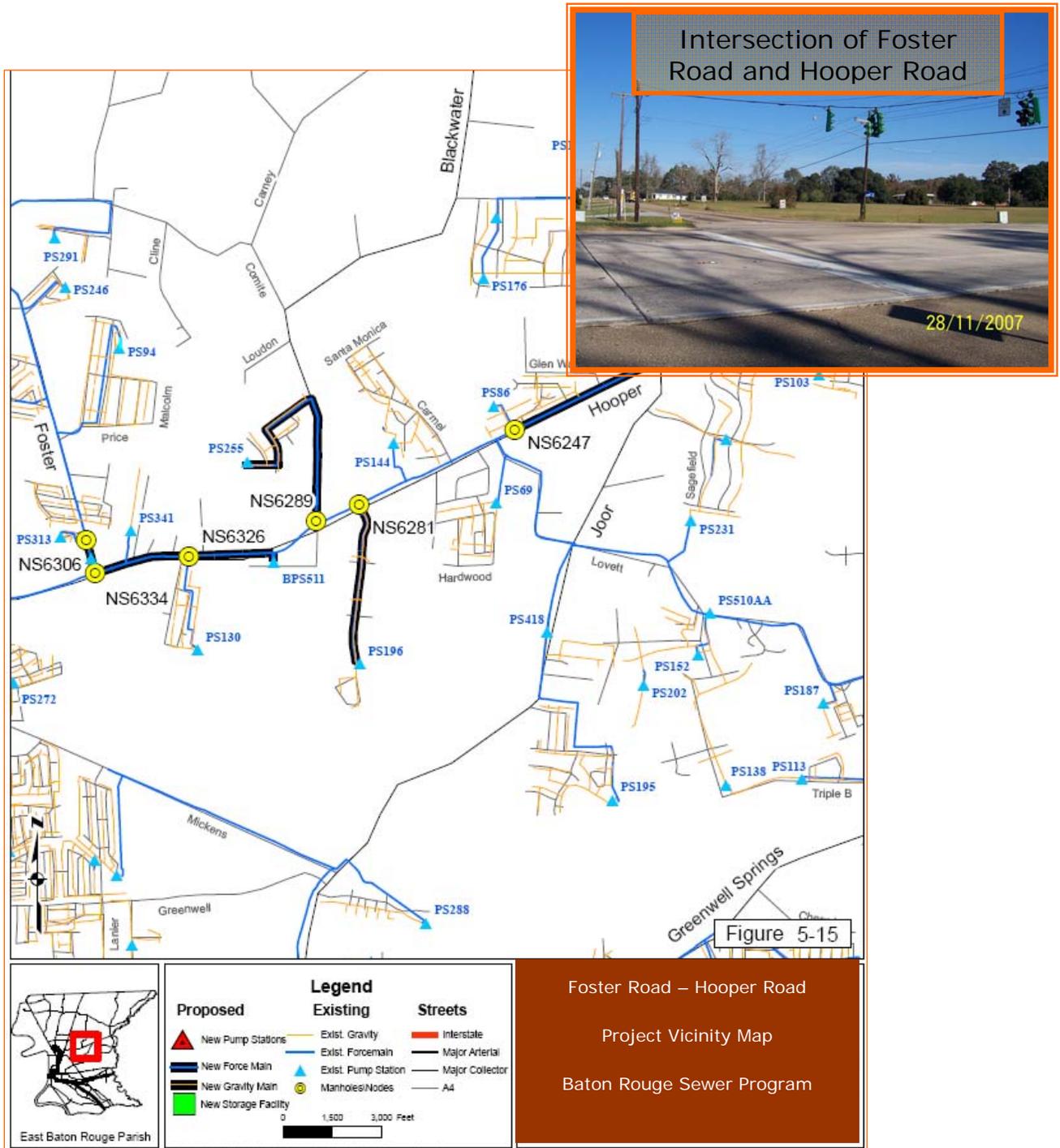
City-Parish Project Number:	06-WT-TP-0058
Project Name	Foster Road – Hooper Road
Project Description:	The Foster Road – Hooper Road project includes a sewer system study. The purpose of this task will be to perform a sanitary sewer collection system study along Hopper Road and Sullivan Road. The sewer study will evaluate the existing independent sanitary sewers which will be affected by the widening of these roadways.
Program Project Manager:	Jeff Duplantis, P.E.
Design Consultant:	Tony Arikol, P.E., Professional Engineering Consultants, Inc. (PEC)
Project Start Date:	February 2008
Estimated Project End Date:	November 2010

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Foster Road – Hooper Road		1 st Qtr '08	4 th Qtr '10
Consultant Negotiations		1 st Qtr '08	2 nd Qtr '08
Consultant Contract Approval		1 st Qtr '08	2 nd Qtr '08
Design		2 nd Qtr '08	4 th Qtr '08
Land Acquisition		2 nd Qtr '08	2 nd Qtr '09
Wetlands		2 nd Qtr '08	4 th Qtr '08
Bid Phase		2 nd Qtr '09	4 th Qtr '09
Permitting		3 rd Qtr '08	4 th Qtr '08
Construction		4 th Qtr '09	4 th Qtr '10

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$8,300,000	\$0	\$0	\$8,300,000	\$5,990,000
Engineering	\$600,000	\$258,867	\$107,382	\$233,751	
Inspection	\$500,000	\$21,419	\$0	\$478,581	
Total	\$9,400,000	\$280,286	\$107,382	\$9,012,332	



Projects Under Design

Staring Lane Forcemain – Pump Station 58 Improvements

News

- Received and reviewed the 60% design submittal from Monroe & Corie, Inc.

Planned Activities

- Receive 90% design submittal in July 2008

Project Information

City-Parish Project Number:	06-WC-CP-0036
Project Name	Staring Lane Forcemain – PS58 Improvements
Project Description:	This project involves installing a new forcemain from PS58 to PS61 at the South WWTP that starts at the intersection of Essen Lane and Essen Park and runs in a southerly direction along Essen Lane continuing on Staring Lane. The forcemain will continue beyond the end of Staring Lane to PS61. PS58 is located at the intersection of Essen Lane and Essen Park.
Program Project Manager:	Jeremy Fontenot
Design Consultant:	Bill Monroe, P.E., Monroe & Corie, Inc.
Project Start Date:	April 2008
Estimated Project End Date:	July 2011

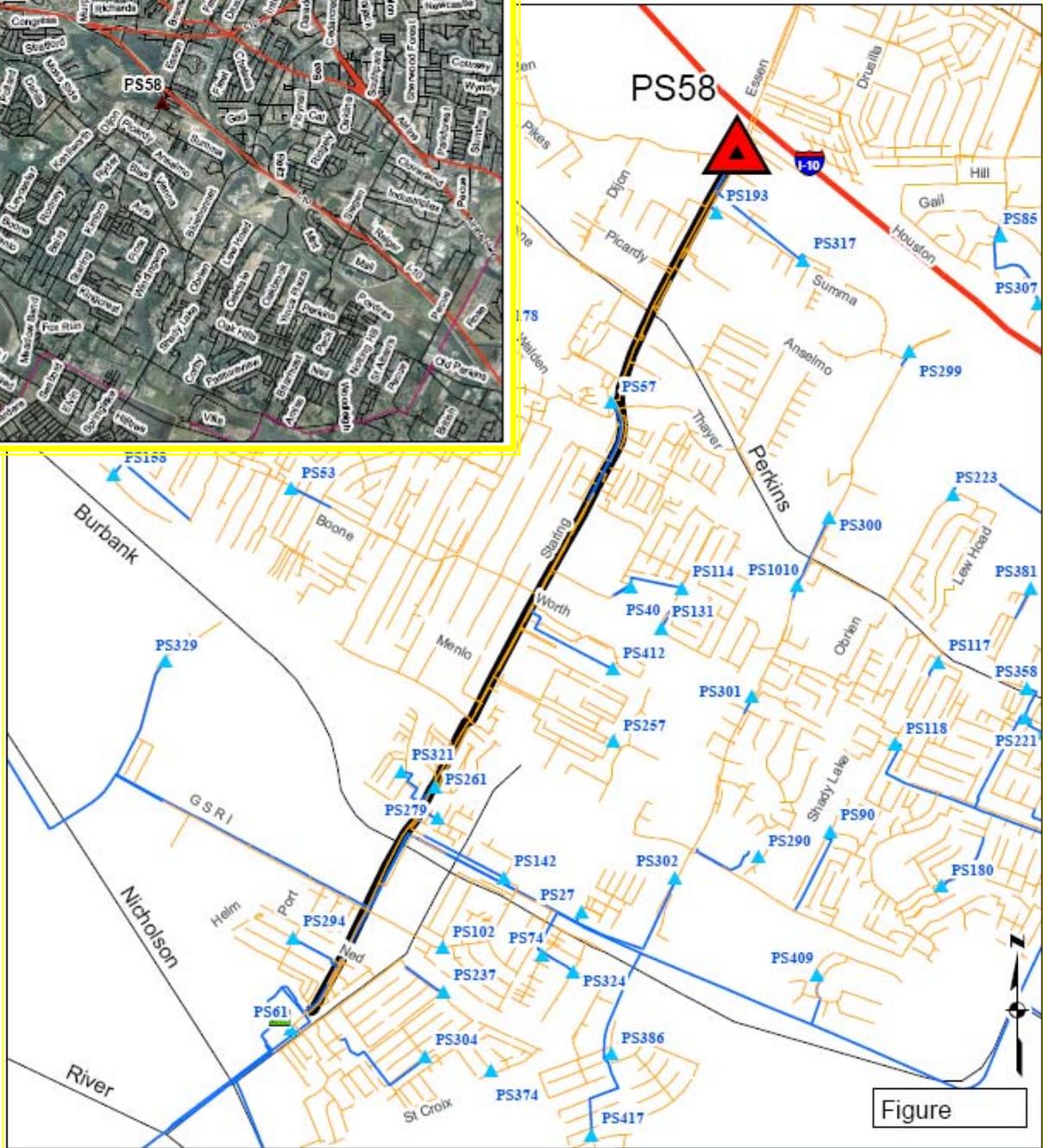
Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Staring Lane Forcemain – PS58 Improvements		2 nd Qtr '08	3 rd Qtr '11
Design		2 nd Qtr '08	4 th Qtr '08
Construction		4 th Qtr '08	3 rd Qtr '11

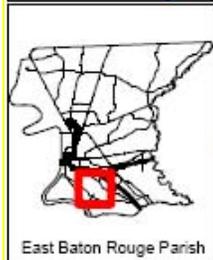
Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Engineering	\$1,288,447	\$966,657	\$312,790	\$9,000	\$2,200,000
Total	\$1,288,447	\$966,657	\$312,790	\$9,000	

A new forcemain will be installed from PS58 to PS61



Figure



East Baton Rouge Parish

Legend		
Proposed	Existing	Streets
New Pump Stations	Exist. Gravity	Interstate
New Force Main	Exist. Forcemain	Major Arterial
New Gravity Main	Exist. Pump Station	Major Collector
New Storage Facility	Manholes/Nodes	

0 2,500 5,000 Feet

Staring Lane Forcemain – PS58 Improvements

Project Vicinity Map

Baton Rouge Sewer Program

Projects Under Design

Citiplace/Essen Lane Area – Pump Station 119 Forcemain Improvements

News

- Consultant submitted Fee Proposal on June 26, 2008 and negotiations are proceeding

Planned Activities

- Finalize Consultant contract in July 2008

Project Information

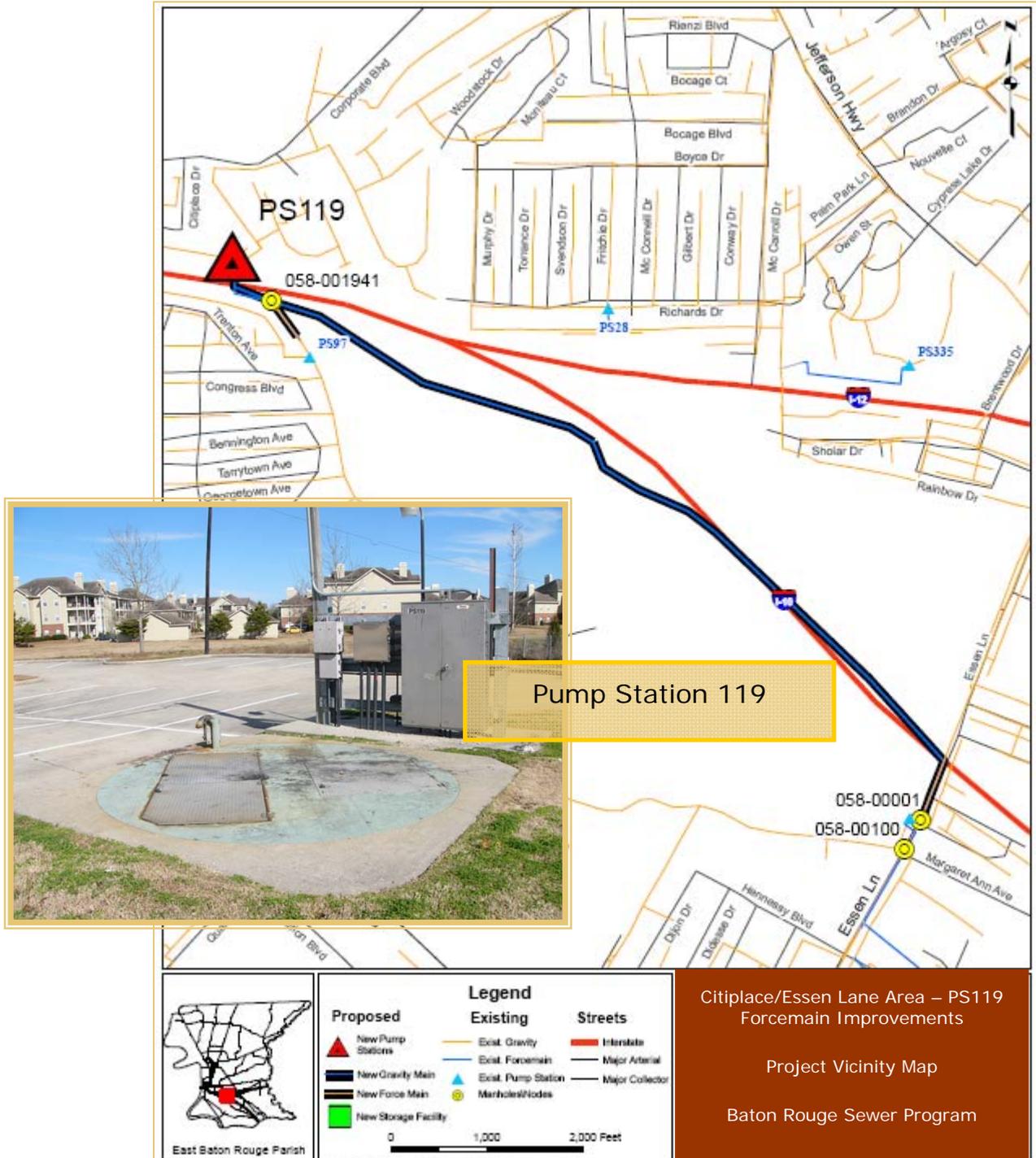
City-Parish Project Number:	08-GS-ST-0021
Project Name	Citiplace/Essen Lane Area – PS119 Forcemain Improvements
Project Description:	The project involves implementing forcemain improvements beginning at PS 119 in the Citiplace Shopping Center near the United Artists Citiplace Theatre on Corporate Drive. As much as 10,500 linear feet of 12-inch forcemain will be designed to connect to the existing forcemain on the west side of I-10 bypassing MH 058-00194T and cross the creek toward the convergence of I-10 and I-12. Then the new forcemain proceeds south following the western right-of-way line of I-10 to the intersection of Essen Lane. At Essen Lane, the forcemain will proceed west along the northern Essen Lane right-of-way to terminate at PS58. PS58 is located at the entrance to the Louisiana Department of Agriculture Rural Life Museum a few hundred feet from I-10.
Program Project Manager:	Floyd Younger
Design Consultant:	Glenn G. Shaheen, P.E., GSA Consulting, Inc.
Project Start Date:	February 2008
Estimated Project End Date:	January 2011

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Citiplace/Essen Area PS119 Forcemain Improvements	1 st Qtr '08	1 st Qtr '11
Consultant Selection	1 st Qtr '08	2 nd Qtr '08
Consultant Negotiations	2 nd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	3 rd Qtr '08
Design	3 rd Qtr '08	1 st Qtr '09
Land Acquisition	3 rd Qtr '08	1 st Qtr '09
Wetlands	4 th Qtr '08	3 rd Qtr '09
Permits	4 th Qtr '08	3 rd Qtr '09
Bid Phase	3 rd Qtr '09	4 th Qtr '09
Construction	4 th Qtr '09	1 st Qtr '11

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,061,553	\$0	\$0	\$5,061,553	\$3,170,000
Engineering	\$750,000	\$0	\$0	\$750,000	
Total	\$5,811,553	\$ 0	\$ 0	\$5,811,553	



Projects Under Design

Highland Road – Burbank Drive Forcemain Replacement

News

- Consultant selection negotiations in process
- Consultant submitted fee proposal

Planned Activities

- Finalize Consultant negotiations

Project Information

City-Parish Project Number:	08-FM-ST-0023
Project Name	Highland Road – Burbank Drive
Project Description:	This project consists of implementing forcemain replacement to the South Forced Lower Basin and includes upsizing of approximately 50,000 feet forcemain in an area that extends north to the intersection of Jefferson Highway and Tiger Bend Road and continues south to the South WWTP on Gardere Lane.
Program Project Manager:	Ruhan Isim
Design Consultant:	Carl, J. Robichaux, P.E., GOTECH, Inc.
Project Start Date:	March 2008
Estimated Project End Date:	February 2011

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Highland Road – Burbank Drive	1 st Qtr '08	1 st Qtr '11
Consultant Selection	1 st Qtr '08	2 nd Qtr '08
Consultant Negotiations	2 nd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	3 rd Qtr '08
Design	3 rd Qtr '08	2 nd Qtr '09
Land Acquisition	4 th Qtr '08	4 th Qtr '09
Wetlands	4 th Qtr '08	2 nd Qtr '09
Bid Phase	3 rd Qtr '09	1 st Qtr '10
Permitting	4 th Qtr '08	2 nd Qtr '09
Construction	1 st Qtr '10	1 st Qtr '11

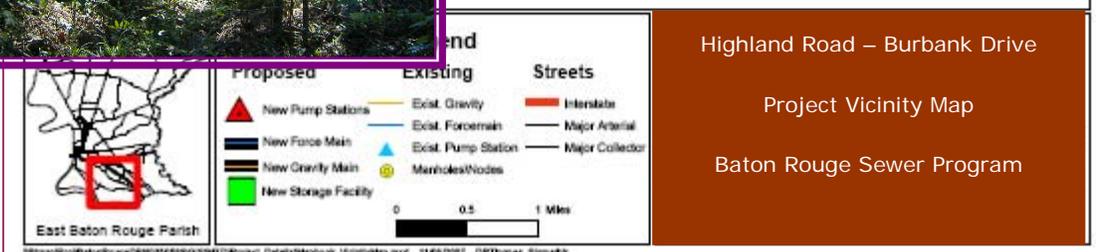
Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Engineering	\$900,000	\$0	\$0	\$900,000	\$900,000
Total	\$900,000	\$ 0	\$ 0	\$900,000	



South Gravity Lower Area

Figure 3-36



Projects Under Design

South Boulevard – St. Joseph Street Pump Station and Forcemain Replacement

News

- Discussed the Project Definition Package with the Design Engineer and DPW at the Pre-Proposal meeting
- Revised project definition package
- Selected the Design Consultant
- Began Consultant negotiation process

Planned Activities

- Complete the Consultant negotiation process in July 2008
- Begin the Consultant contract approval process in August 2008

Project Information

City-Parish Project Number:	08-GS-ST-0018
Project Name	South Boulevard – St. Joseph Street
Project Description:	This project involves implementing forcemain improvements to PS59 and PS10. PS59 is located beneath the Interstate 10 bridge. Upstream of PS59, the existing sewer ranges in size from 36 inches to 10 inches. This sewer will be replaced with lines ranging in size from 42 inches to 15 inches. PS10 is located on East Lakeshore Drive at the Southeasterly corner of City Park. The existing 4,500 feet of 8-inch forcemain and existing PS10 is scheduled for upgrade to 12-inch forcemain.
Program Project Manager:	Jeremy Fontenot
Design Consultant:	L.R. "Eric" Erikson, P.E., Evans-Graves Engineers, Inc.
Project Start Date:	March 2008
Estimated Project End Date:	April 2011

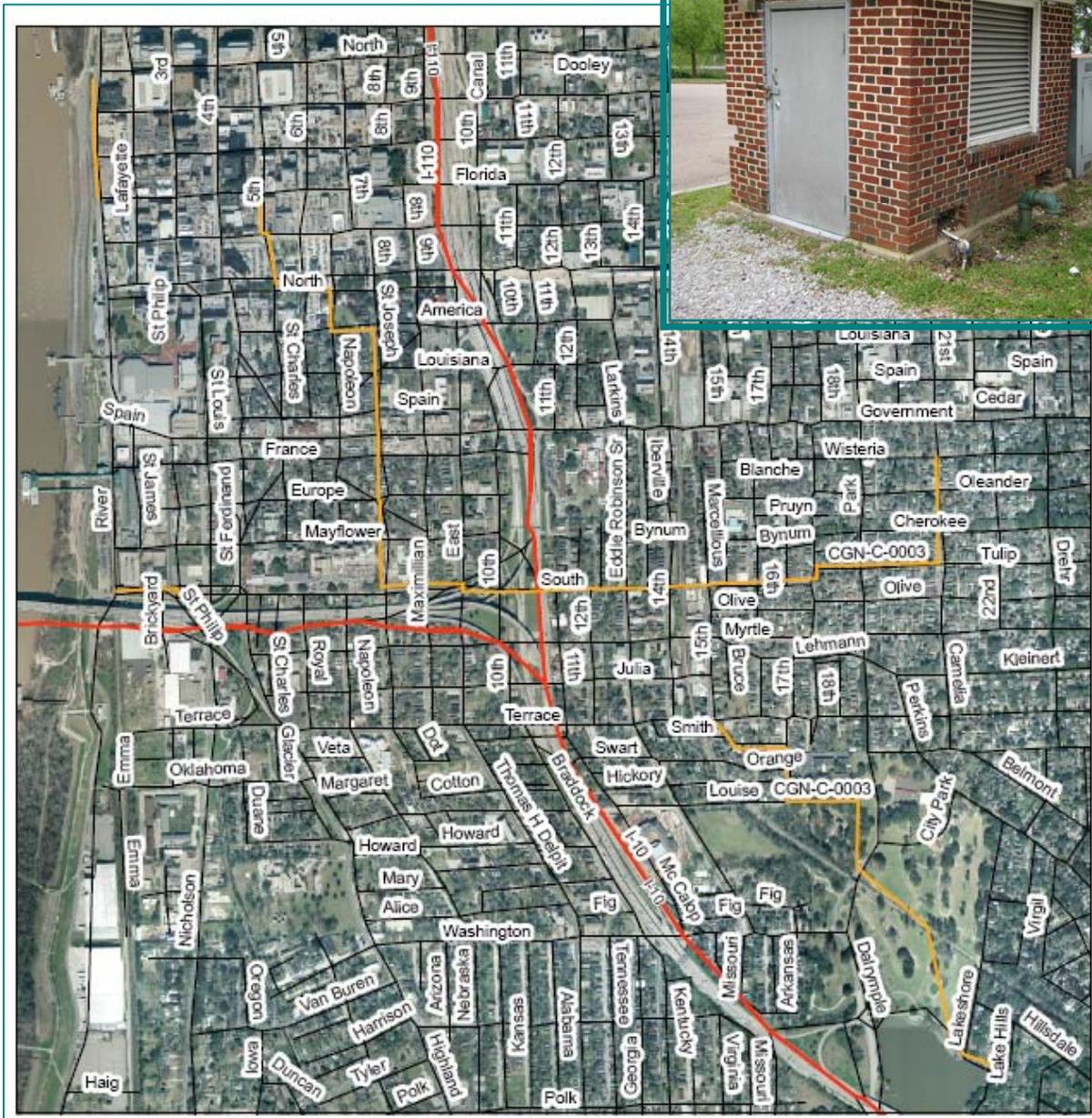
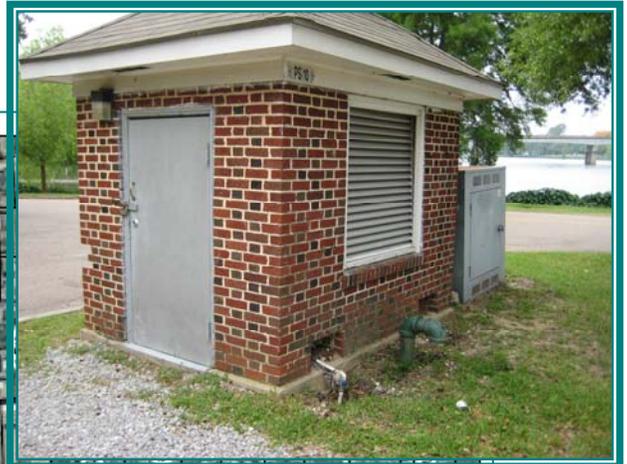
Project Schedule

PROJECT SCHEDULE		Start Date	End Date
South Boulevard – St. Joseph Street		1 st Qtr '08	2 nd Qtr '11
Consultant Selection		1 st Qtr '08	3 rd Qtr '08
Consultant Negotiations		3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval		3 rd Qtr '08	3 rd Qtr '08
Design		3 rd Qtr '08	1 st Qtr '09
Land Acquisition		4 th Qtr '08	4 th Qtr '09
Wetlands		4 th Qtr '08	2 nd Qtr '09
Bid Phase		4 th Qtr '09	1 st Qtr '10
Permitting		4 th Qtr '08	2 nd Qtr '09
Construction		1 st Qtr '10	2 nd Qtr '11

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,800,000	\$0	\$0	\$5,800,000	\$6,560,000
Engineering	\$410,000	\$0	\$0	\$410,000	
Inspection	\$350,000	\$0	\$0	\$350,000	
Total	\$6,560,000	\$ 0	\$ 0	\$6,560,000	

Pump Station 10



South Boulevard – St. Joseph Street

Projects Under Design

North Capacity Group Project 1A Collection System Improvements

News

- Developed draft project definition package

Planned Activities

- Finalize project definition package

Project Information

City-Parish Project Number:	To be determined
Project Name	North Capacity Group Project 1A
Project Description:	Group Project 1A is a combination of three individual projects identified in the Program Delivery Plan, dated January 2008. Progress Road – Baton Rouge Metro Airport, portions of Airline Highway – Victoria Drive, and McClelland Drive – Glen Oaks Drive involve the upgrades of gravity collection system segments in the North Gravity and North Forced West Basins. The project consists of approximately 74,000 linear feet of gravity sanitary sewer pipeline replacement with diameters ranging from 12-inches to 66-inches.
Program Project Manager:	Obie Watts, P.E.
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	March 2012

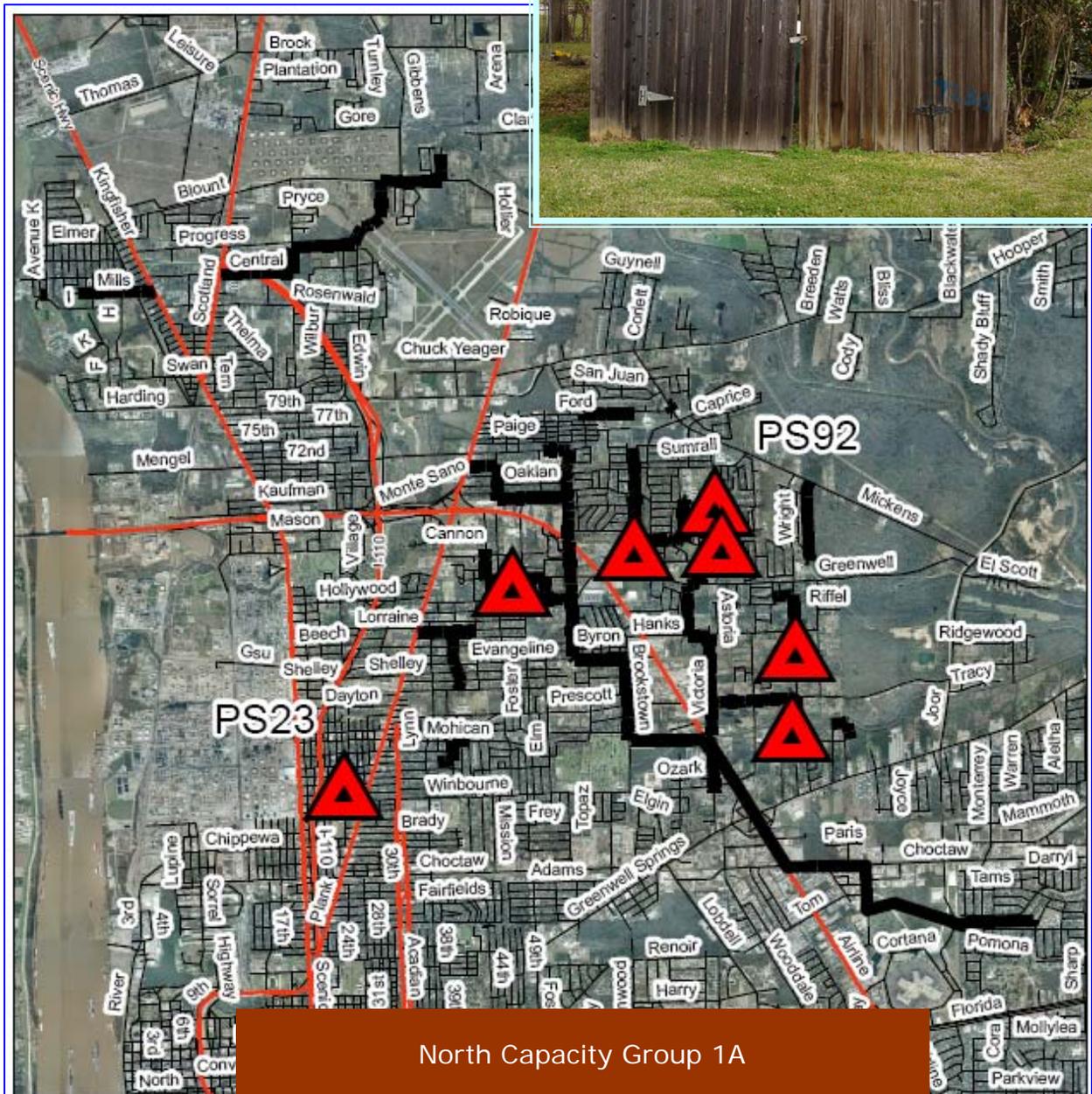
Project Schedule

PROJECT SCHEDULE		Start Date	End Date
North Capacity Group Project 1A		1 st Qtr '08	1 st Qtr '12
Consultant Selection		1 st Qtr '08	3 rd Qtr '08
Consultant Negotiations		3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval		3 rd Qtr '08	4 th Qtr '08
Permitting		4 th Qtr '08	4 th Qtr '09
Bid Phase		3 rd Qtr '10	1 st Qtr '11
Construction		1 st Qtr '11	1 st Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$34,900,000	\$0	\$0	\$34,900,000	\$38,390,000
Engineering	\$2,402,387	\$0	\$0	\$2,402,387	
Inspection	\$2,051,321	\$0	\$0	\$2,051,321	
Total	\$39,353,708	\$ 0	\$ 0	\$39,353,708	

Pump Station 92



North Capacity Group 1A

Projects Under Design

North Capacity Group Project 1B Collection System Improvements

News

- Developed draft project definition package

Planned Activities

- Finalize project definition package

Project Information

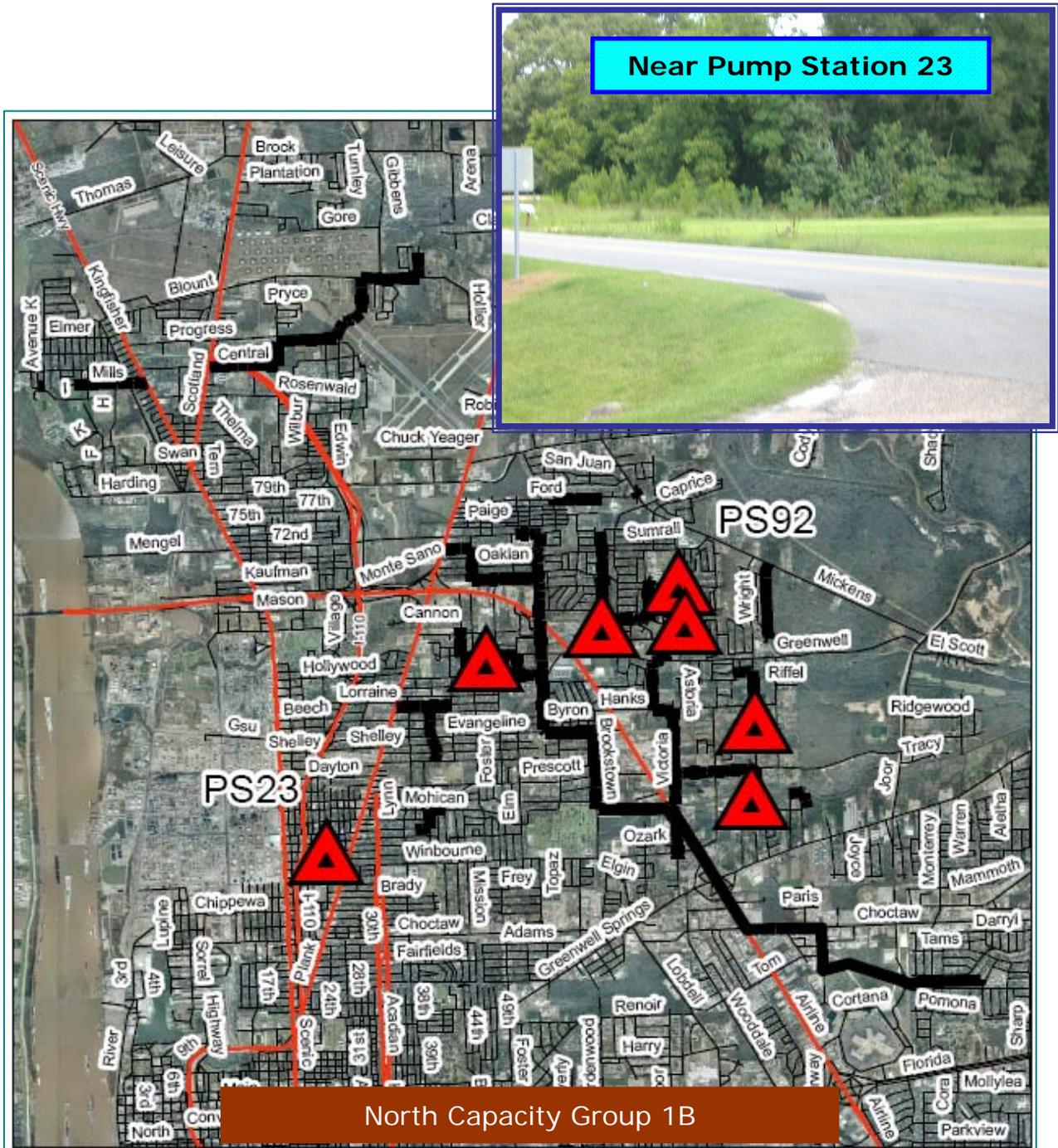
City-Parish Project Number:	To be determined
Project Name	North Capacity Group Project 1B
Project Description:	Group Project 1B is a combination of two individual projects identified in the Program Delivery Plan, dated January 2008. Portions of Airline Highway – Victoria Drive and Multiple PSs – Airline Highway – Greenwell Street involve the upgrades of forcemain segments and pumps stations in the North Gravity and North Forced West Basins. In addition, a new forcemain will be constructed to connect PS52 to the proposed Choctaw Storage PS (by others). The project consists of 8 new pump stations, 4,000 linear feet of 8 to 10-inch sanitary sewer forcemain pipeline replacement, and 23,000 linear feet of new 30 and 36-inch sanitary sewer forcemain.
Program Project Manager:	Obie Watts, P.E.
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	March 2012

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
North Capacity Group Project 1B	1 st Qtr '08	1 st Qtr '12
Consultant Selection	1 st Qtr '08	3 rd Qtr '08
Consultant Negotiations	3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	4 th Qtr '08
Permitting	4 th Qtr '08	4 th Qtr '09
Bid Phase	3 rd Qtr '10	1 st Qtr '11
Construction	1 st Qtr '11	1 st Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$15,800,000	\$0	\$0	\$15,800,000	\$17,380,000
Engineering	\$1,087,613	\$0	\$0	\$1,087,613	
Inspection	\$928,678	\$0	\$0	\$928,678	
Total	\$17,816,291	\$ 0	\$ 0	\$17,816,291	



Projects Under Design

Downtown Area – Pump Stations 15, 19, and 60 Improvements

News

- Met with DPW and project manager to finalize RFQ

Planned Activities

- Finalize project definition

Project Information

City-Parish Project Number:	To be determined
Project Name	Downtown Area – PS15, PS19, and PS60 Improvements
Project Description:	This project involves upgrading three pump stations to alleviate SSOs at and near PS15, PS19, and PS60. PS15 is located along Washington Street, south of the intersection of Washington Street and West Belfair Drive. The majority of the area contributing to this pump station is residential and commercial. PS19 pump station is located on Eiland Drive near the intersection of 4th Street. The majority of the area contributing to the pump station is residential. PS60 is located along River Road North, north of State Capitol Drive. The majority of the area contributing to the pump station is residential and commercial.
Program Project Manager:	Fernando (Fred) Estevez, P.E.
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	October 2012

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Downtown Area – PS15, PS19 and PS60 Improvements	1 st Qtr '08	4 th Qtr '12
Consultant Selection	1 st Qtr '08	3 rd Qtr '08
Consultant Negotiations	3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	4 th Qtr '08
Design	4 th Qtr '08	3 rd Qtr '09
Land Acquisition	4 th Qtr '08	1 st Qtr '10
Wetlands	1 st Qtr '09	4 th Qtr '09
Permits	2 nd Qtr '09	3 rd Qtr '09
Bid Phase	1 st Qtr '10	2 nd Qtr '10
Construction	2 nd Qtr '10	4 th Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,600,000	\$0	\$0	\$5,600,000	\$6,330,000
Engineering	\$390,000	\$0	\$0	\$390,000	
Inspection	\$340,000	\$0	\$0	\$340,000	
Total	\$6,330,000	\$ 0	\$ 0	\$6,330,000	



Projects Under Design

South Capacity Group 2 Project Pump Station and Forcemain Replacement & Improvements

News

- Prepared project definition

Planned Activities

- Complete additional re-analysis of Booster Pump Station 514 to the Jefferson Highway/Highland road Area Pump Station Improvements portion of the project
- Draft project definition for the Jefferson Highway/Highland road Area Pump Station Improvements portion of the project in July 2008
- Consultant selection for the Jefferson Highway/Highland road Area Pump Station Improvements portion of the project to occur in August 2008

Project Information

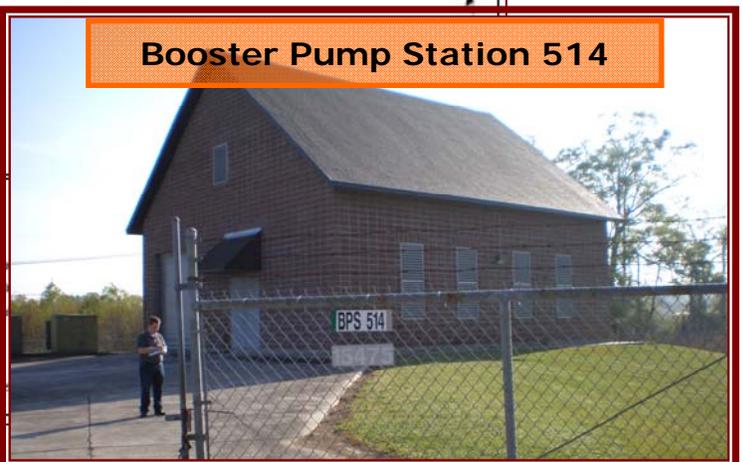
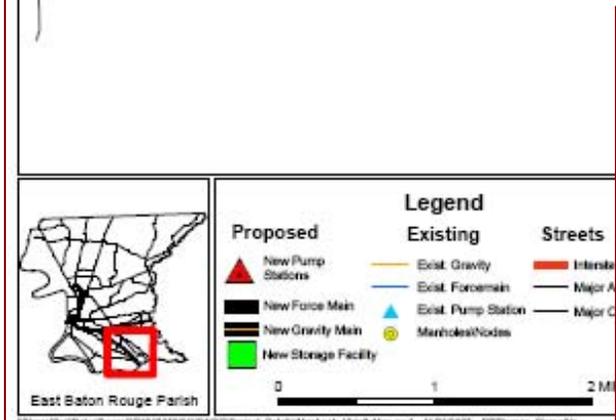
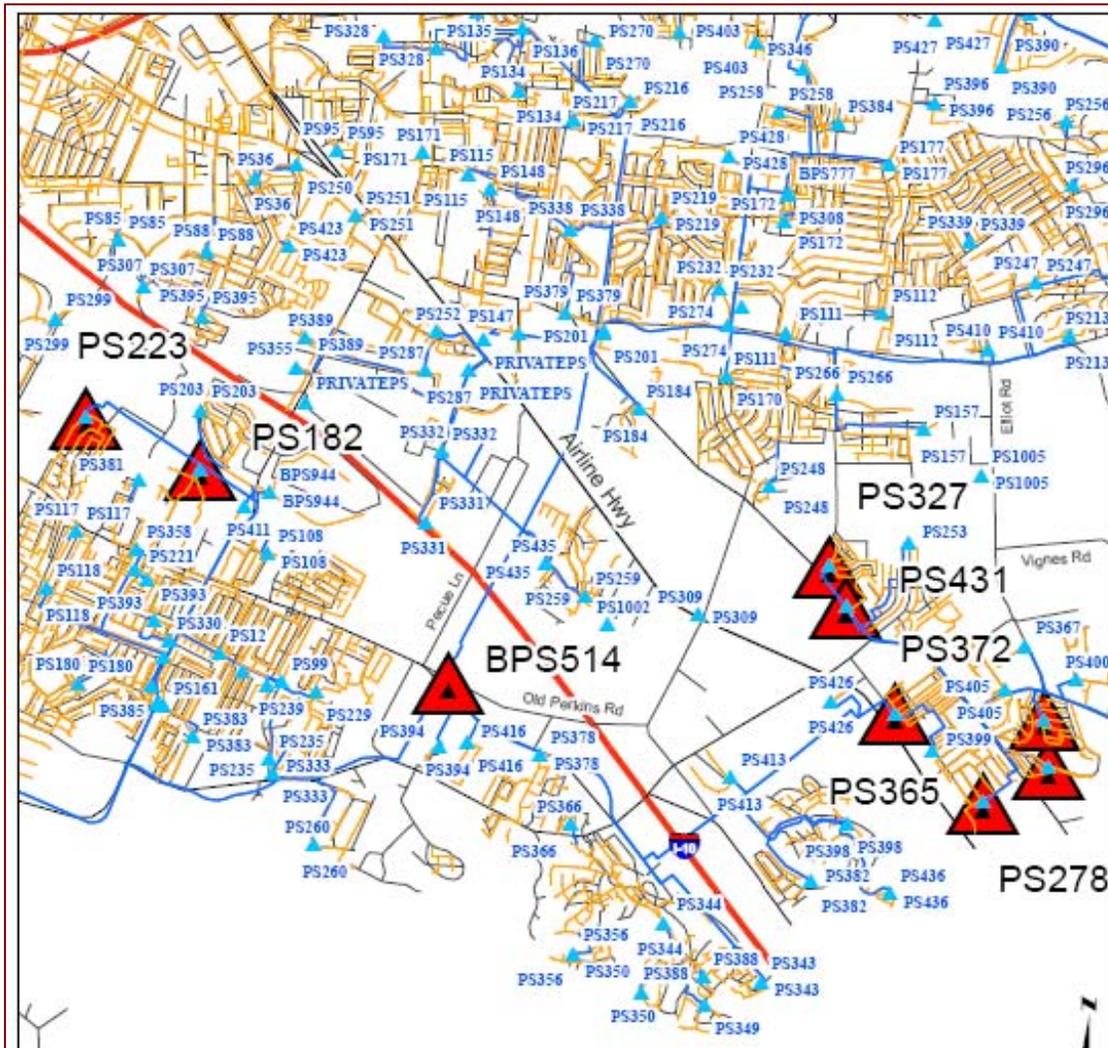
City-Parish Project Number:	To be determined
Project Name	South Capacity Group 2 Project
Project Description:	The Booster Pump Station 514 Project is located along Old Perkins Road near the intersection with Pecue Road. The project consists of capacity upgrades to Booster Pump Station 514. The Jefferson Highway/Highland Road Area Pump Station Improvements consists of various locations near Jefferson Highway, Highland Road, and Siegen Road. The project consists of capacity upgrades to Pump Stations 182, 223, 431, 327, 353, 278, 372, and 365.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	November 2012

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
South Capacity Group 2 Project	1 st Qtr '08	4 th Qtr '12
Consultant Selection	1 st Qtr '08	3 rd Qtr '08
Consultant Negotiations	2 nd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	3 rd Qtr '08
Design	4 th Qtr '08	2 nd Qtr '09
Land Acquisition	3 rd Qtr '08	4 th Qtr '09
Wetlands	4 th Qtr '08	4 th Qtr '09
Permits	1 st Qtr '09	1 st Qtr '10
Bid Phase	1 st Qtr '10	1 st Qtr '10
Construction	1 st Qtr '10	4 th Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Engineering	\$820,000	\$0	\$0	\$820,000	\$820,000
Total	\$820,000	\$ 0	\$ 0	\$820,000	



Projects Under Design

Downtown Area – Pump Stations 10 and 59 Improvements

News

- Completed draft project definition

Planned Activities

- Finalize project definition and submit to DPW for approval

Project Information

City-Parish Project Number:	To be determined
Project Name	Downtown Area – PS10 and PS59 Improvements
Project Description:	<p>This project involves the upgrade of PS10 and PS59 to alleviate SSOs at and near the pump stations and in their respective upstream basins. The pump station upgrades will work in conjunction with the forcemain and gravity sewer upgrades in the Central Gravity Basin.</p> <p>PS10 is located on East Lakeshore Drive at the southeastern corner of City Park. The majority of the area contributing to the pump station is residential. PS59 is located south of the intersection of River Road and South Boulevard, beneath the I-10 Mississippi River Bridge. The majority of the area contributing to the pump station is residential and commercial. This pump station pumps flows from the Central Gravity North Basin to the Central WWTP.</p>
Program Project Manager:	Ruhan Isim
Design Consultant:	To be determined
Project Start Date:	March 2008
Estimated Project End Date:	October 2012

Project Schedule

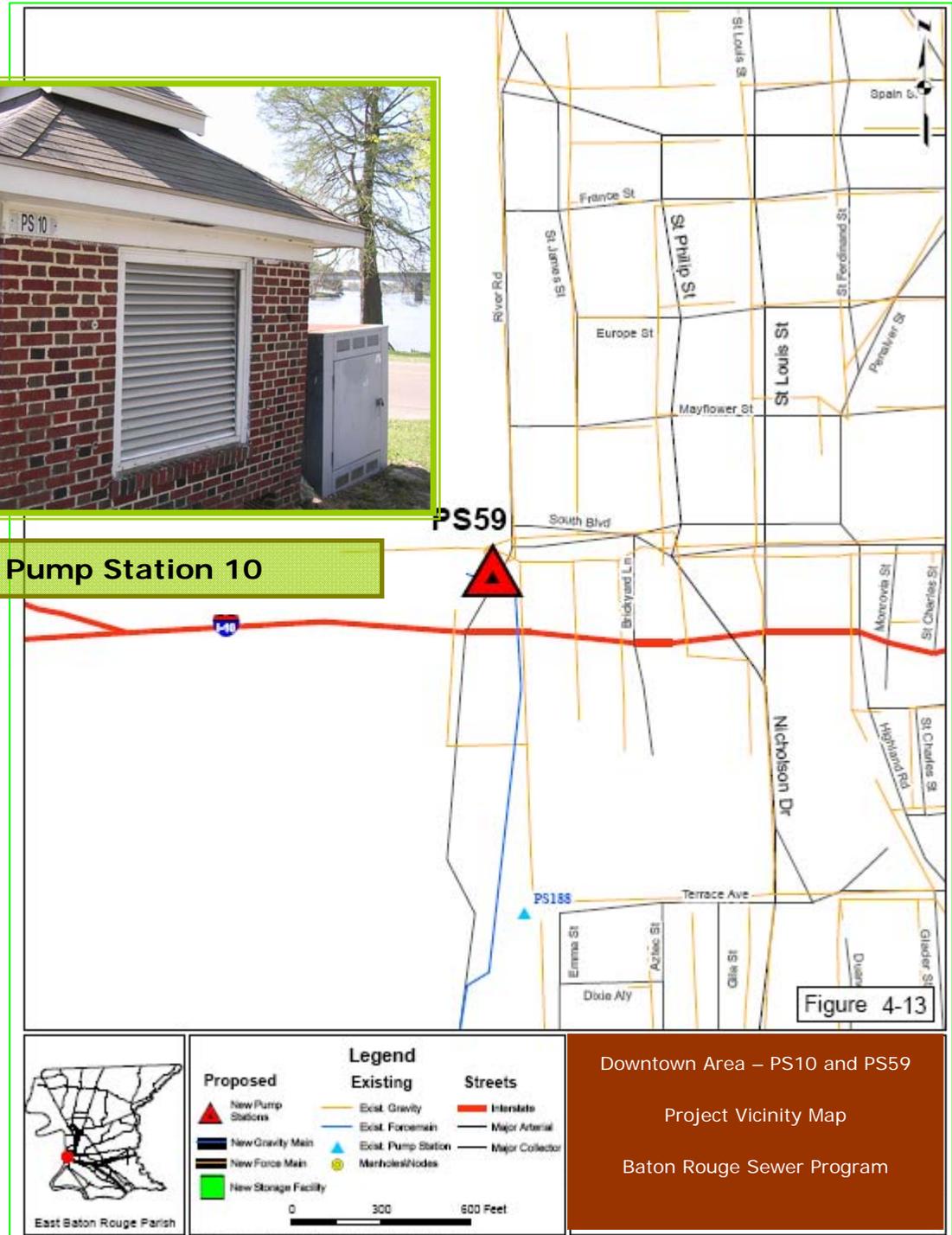
PROJECT SCHEDULE		Start Date	End Date
Downtown Area – PS10 and PS59 Improvements		1 st Qtr '08	4 th Qtr '12
Consultant Selection		3 rd Qtr '08	3 rd Qtr '08
Consultant Negotiations		3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval		3 rd Qtr '08	3 rd Qtr '08
Design		3 rd Qtr '08	3 rd Qtr '09
Land Acquisition		4 th Qtr '08	1 st Qtr '10
Wetlands		1 st Qtr '09	4 th Qtr '10
Permits		1 st Qtr '09	2 nd Qtr '09
Bid Phase		4 th Qtr '09	1 st Qtr '10
Construction		1 st Qtr '10	4 th Qtr '12

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$6,200,000	\$0	\$0	\$6,200,000	\$7,000,000
Engineering	\$230,000	\$0	\$0	\$230,000	
Inspection	\$370,000	\$0	\$0	\$370,000	
Total	\$6,800,000	\$ 0	\$ 0	\$6,800,000	



Pump Station 10



Projects Under Design

Choctaw Storage and Pump Station Facility

News

- Conducted dynamic model runs
- Prepared draft project definition

Planned Activities

- Submit project definition to DPW for approval

Project Information

City-Parish Project Number:	To be determined
Project Name	Choctaw Storage and Pump Station Facility
Project Description:	This project is to design three eight million gallon (MG) pre-stressed concrete storage tanks and one 5,500 gpm (8MGD) return pump station. The tanks will be used to detain peak wet weather flows during a storm event, and release them back into the collection system when demand is lower.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	To be determined
Project Start Date:	April 2008
Estimated Project End Date:	April 2011

Project Schedule

PROJECT SCHEDULE		Start Date	End Date
Choctaw Storage and Pump Station Facility		2 nd Qtr '08	2 nd Qtr '11
Consultant Selection		2 nd Qtr '08	3 rd Qtr '08
Consultant Negotiations		3 rd Qtr '08	3 rd Qtr '08
Consultant Contract Approval		3 rd Qtr '08	4 th Qtr '08
Design		4 th Qtr '08	2 nd Qtr '09
Permits		2 nd Qtr '09	3 rd Qtr '09
Bid Phase		2 nd Qtr '09	3 rd Qtr '09
Construction		3 rd Qtr '09	2 nd Qtr '11

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$5,285,247	\$0	\$0	\$5,285,247	\$46,400,000
Engineering	\$2,900,111	\$0	\$111	\$2,900,000	
Land	\$1,218,720	\$0	\$1,218,720	\$0	
Inspection	\$300,000	\$0	\$0	\$300,000	
Miscellaneous	\$21	\$0	\$21	\$0	
Total	\$9,704,099	\$ 0	\$1,218,852	\$8,485,247	

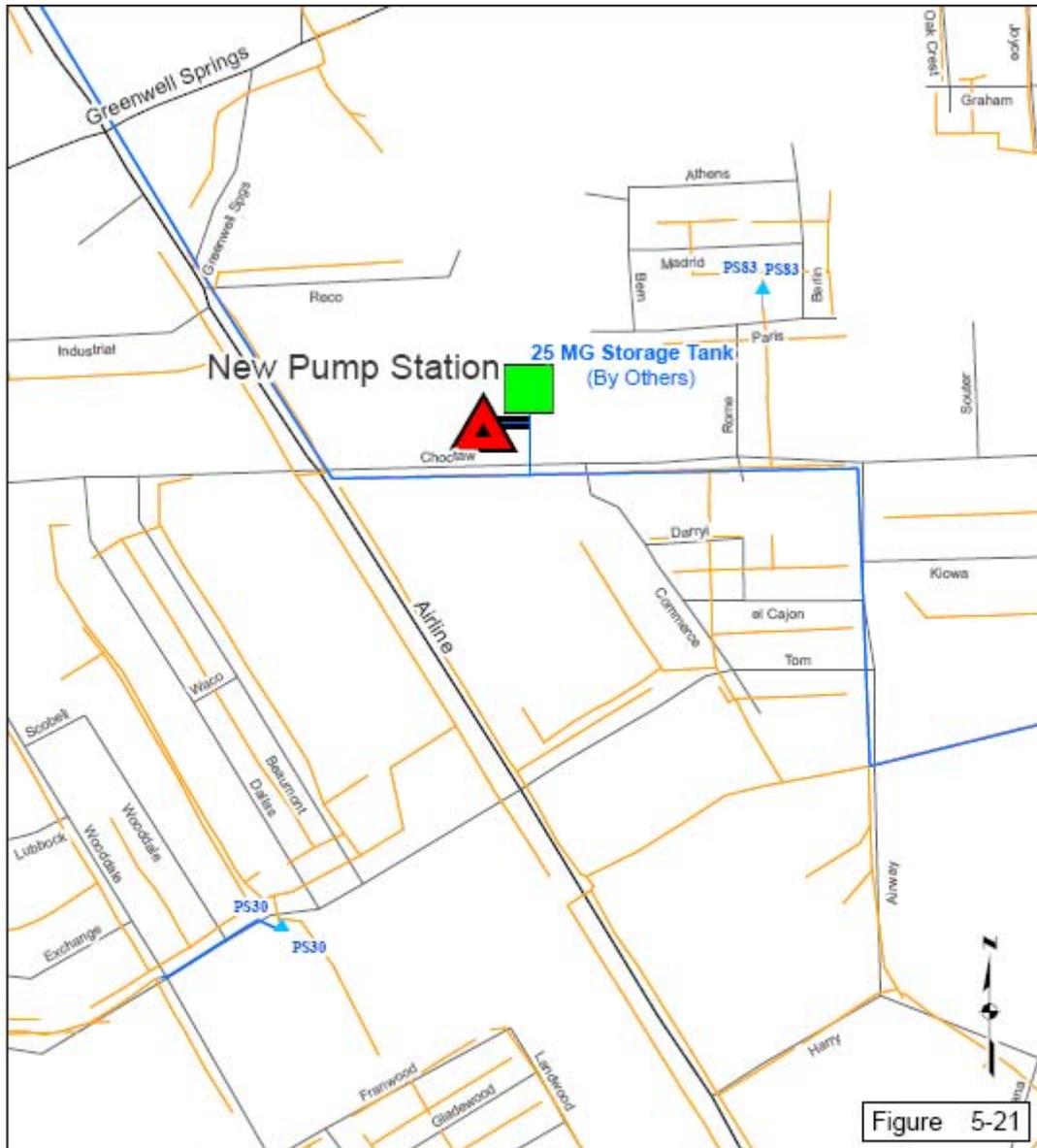
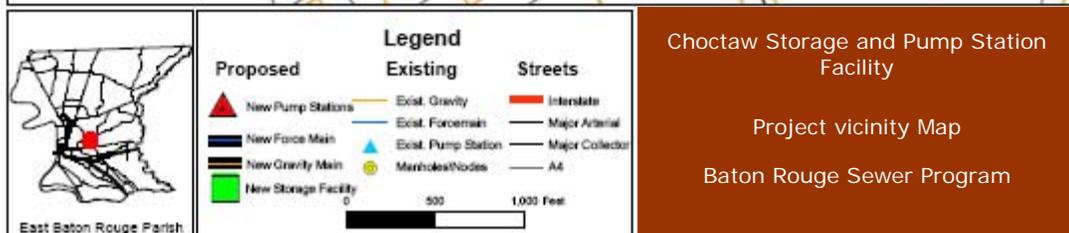


Figure 5-21



Projects Under Design

Highland Road – Buchanan Street

News

- Pre-proposal meeting with Design Consultant

Planned Activities

- Consultant negotiations to be complete in July 2008
- Begin Consultant contract approval process

Project Information

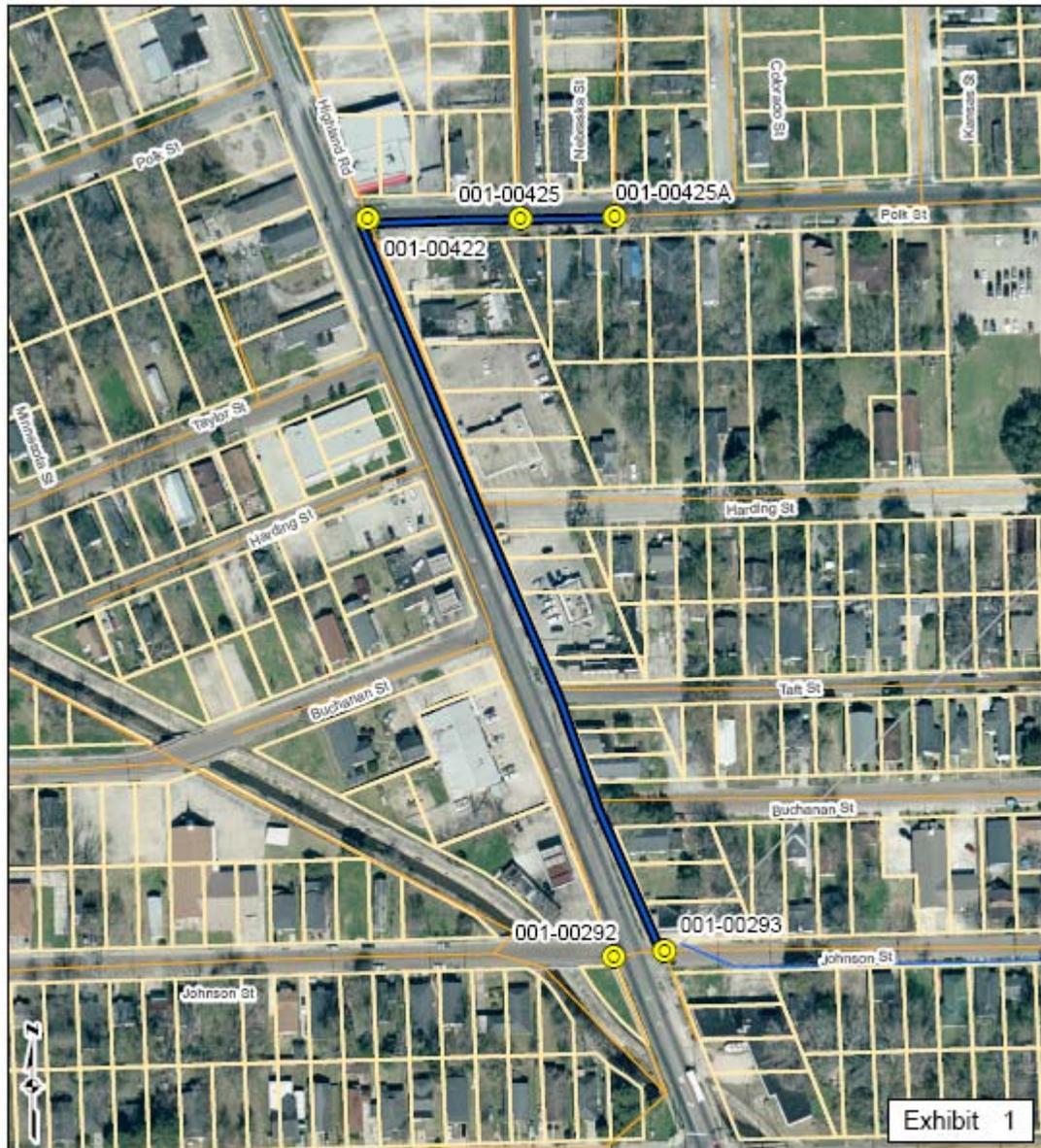
City-Parish Project Number:	08-FM-UF-0024
Project Name	Highland Road – Buchanan Street
Project Description:	This project is composed of gravity sewer pipe upgrades up to 54" in diameter. The pipes to be upsized are located in a region bounded by Carolina Street and Arkansas Street on the east side, E. Washington Street on the north, Alaska Street on the west and Aster Street on the south.
Program Project Manager:	Floyd Younger
Design Consultant:	James E. "Jim" DeLaune, Jr., P.E., Burk - Kleinpeter, Inc.
Project Start Date:	March 2008
Estimated Project End Date:	April 2011

Project Schedule

PROJECT SCHEDULE	Start Date	End Date
Highland Road – Buchanan Street	1 st Qtr '08	2 nd Qtr '11
Consultant Selection	1 st Qtr '08	2 nd Qtr '08
Consultant Negotiations	2 nd Qtr '08	3 rd Qtr '08
Consultant Contract Approval	3 rd Qtr '08	4 th Qtr '08
Design	3 rd Qtr '08	1 st Qtr '09
Land Acquisition	4 th Qtr '08	4 th Qtr '09
Wetlands	4 th Qtr '08	2 nd Qtr '09
Bid Phase	4 th Qtr '09	1 st Qtr '10
Permitting	4 th Qtr '08	2 nd Qtr '09
Construction	1 st Qtr '10	2 nd Qtr '11

Project Budget

ALLOCATED CITY-PARISH APPROPRIATIONS THROUGH JUNE 30, 2008					PROGRAM
Account	Budget To-Date	Encumbrances	Expenses	Balance	Program Delivery Plan
Construction	\$2,900,000	\$0	\$0	\$2,900,000	\$3,270,000
Engineering	\$200,00	\$0	\$0	\$200,000	
Inspection	\$170,000	\$0	\$0	\$170,000	
Total	\$3,070,200	\$ 0	\$ 0	\$3,270,000	



Projects On Hold

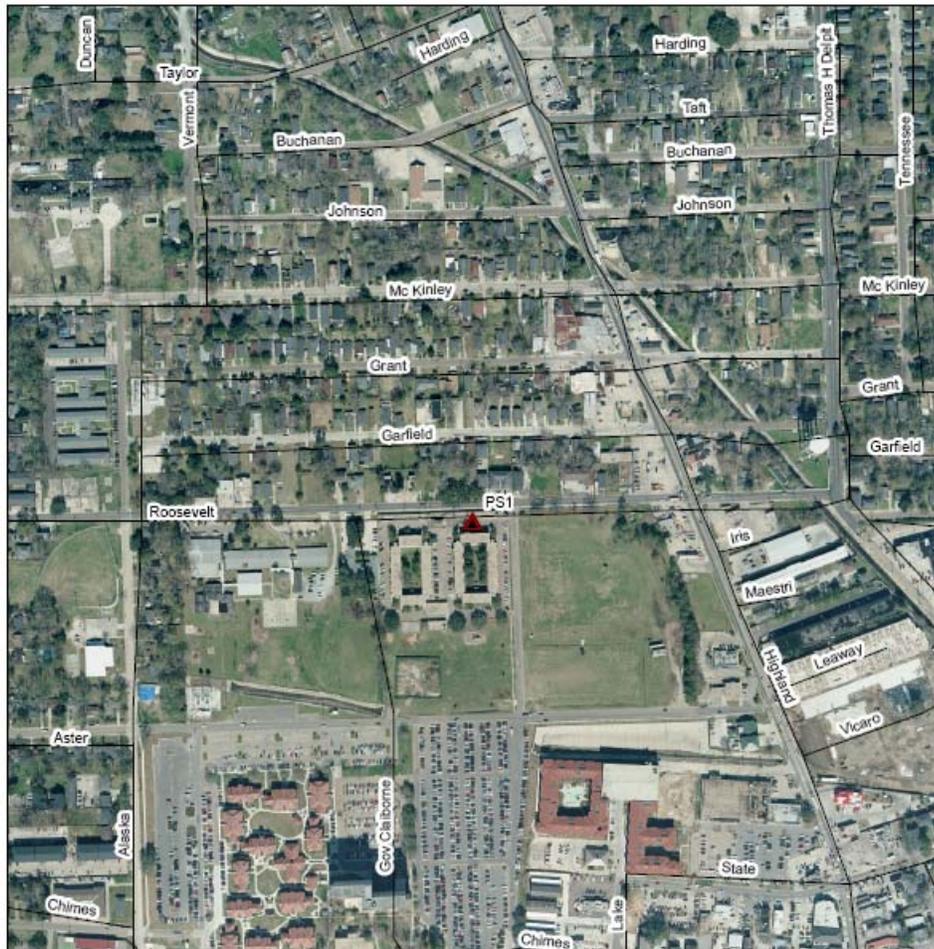
Roosevelt Street Area – Pump Station 1 Improvements

News

- Project was revised

Project Information

City-Parish Project Number:	07-PS-BD-0047
Project Name	Roosevelt Street Area – Pump Station 1 Improvements
Project Description:	The Roosevelt Street Area - PS1 Improvements project, located along Roosevelt Street near the intersection with Governor Claiborne Drive, consists of capacity upgrades to PS1. The project also includes constructing approximately 3,700 liner feet of new 36-inch sanitary sewer forcemain associated with the PS1 upgrade.
Program Project Manager:	Kenny Ferachi, P.E.
Design Consultant:	Ray Rials, P.E., Montgomery Watson Harza (MWH)



Projects on Hold

Central Storage / Equalization

News

- Project was revised

Project Information

City-Parish Project Number:	Project on hold
Project Name	Central Storage / Equalization
Project Description:	<p>The project involves the design of two 8-million gallon (MG) pre-stressed concrete storage tanks and one 5,500 gmp (8 mgd) inflow pump station. The 15-MG storage facility is to be located either on the property of the Central WWTP or on an unused parking lot next to the plant.</p> <p>The storage facility will be located downstream of the transition of the PS59 forcemain to a gravity interceptor, just upstream of the Central WWTP. Pumps will be built with the new facility in order to convey the flow from the facility back to the collection system.</p>
Program Project Manager:	Robert Cullwell, P.E.
Design Consultant:	Project on hold



