

# Baton Rouge SSO Program

*Progress Report*



*October 2011*



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

Prepared by  
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In association with  
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BATON ROUGE   
Program

# Program Management

The City of Baton Rouge/East Baton Rouge Parish (City-Parish) Department of Public Works is implementing the Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program to address existing sewer overflows, wastewater treatment challenges, and plans for future growth. These SSO program upgrades are mandated by state and federal regulatory agencies and will benefit the citizens of Baton Rouge.

Main components to the SSO Program are:

- Capacity improvement projects: replace inadequately sized pipes and pump stations.
- Wastewater treatment and facility projects: include storage projects and additional capacity at the treatment processes.
- Sewer rehabilitation projects: repair and/or replace defective components to excessive groundwater infiltration and stormwater inflow into the system.
- Master Plan projects: include parishwide projects such as the Supervisory Control and Data Acquisition (SCADA) system project and emergency generator installations at all pump stations within the City-Parish.

## Working to Improve Efficiencies

To continue to streamline processes and improve operations, the City-Parish approved decommissioning the Central Wastewater Treatment Plant and consolidating wastewater flow to the South Wastewater Treatment Plant. Closing this facility will save residents of the City-Parish approximately \$20 million in operations and improve efficiency and operation at the South Wastewater Treatment Plant.

## Status Today

The SSO Program entered into the 4<sup>th</sup> quarter of 2011 with 98 projects complete, in design, or under construction.

Status	Status	Construction Value
Projects Completed	18	\$ 115 Million
Projects under Construction	44	\$ 598 Million
Projects in Design	36	\$ 359 Million
		<b>\$ 1.072 Billion</b>



## Technology Focus

Microtunneling: minimizes disruptions to residents



The microtunneling boring machine is lowered into the tunnel shaft at the Industriplex Area project.

Microtunneling is a drilling process that allows for the installation of underground pipes in a single drilling pass while minimizing above ground disturbances. A remote controlled Microtunnel Boring Machine (MTBM) uses a hydraulic jack hammering process to create tunnels. Although the word micro would seem to imply that the MTBM would be small, these machines have the ability to install up to 12 feet in diameter pipes.

Advantages of microtunneling include:

- Limits open cut construction
- Reduces surface disruption
- Allows deep installation under existing utilities
- Avoids interruption of high-cost fiber optic lines and high pressure gas lines
- Drills through high ground-water tables without dewatering

Microtunneling allows the SSO Program to more efficiently lay pipes with less disruption to City-Parish residents. Through technologies such as this, the Program is working toward a cleaner Baton Rouge.



The microtunneling bore machine pushes through a 12 foot diameter heavy-wall clay pipe.



Keeping you informed during construction is important to us

Project Information				Project Components					Consultant/Contractor Information		Cost Info	Schedule		
#	Project Name	Project Type	DPW Project #	Upgraded Pump Stations	Replaced/Rehabilitated Manholes*	Linear Feet of Forcemain Improvements	Linear Feet of Gravity Main Improvements	Design Consultant	Construction Contractor	Construction Contract Amount	Project Start	Advertise for Construction Bid	Project End	
1	Emergency Generators Installation	Other	***	09-PS-BD-0037	-	-	-	-	N/A	Grady Crawford	\$7,113,634	2010	3/28/2008	5/21/2014
2	Group Project 2 - Small Pump Stations	Capacity	PDP	08-PS-IF-0046	7	-	-	-	ABMB Eng.	Grady Crawford	\$3,475,914	3/10/2008	3/26/2010	1/31/2012
3	SWWTP Wet Weather Improvements: Phase I	Treatment/Facilities	PDP	08-TP-BD-0033	-	-	-	-	CDM	Brasfield & Gorrie	\$108,443,892	6/23/2008	3/26/2010	4/9/2013
4	Sharp Road - Florida Blvd	Rehab	PDP	09-AR-BD-0013	-	1,154	-	274,475	CSRS, Inc.	Reynolds, Inc.	\$17,492,855	1/15/2009	4/16/2010	7/6/2012
5	S. Blvd - St. Joseph St /25th St - S.Acadian Thruway	Capacity	PDP	08-GS-ST-0018	-	-	18,360	3,000	Evans-Graves/Hartman Eng.	Reynolds, Inc.	\$17,965,049	3/27/2008	4/16/2010	6/8/2012
1	Highland Road - Buchanan Street	Capacity	PDP	08-GS-ST-0021	-	-	4,465	8,390	Burk-Kleinpeter/Justice & Huang (a JV)	Gilmore & Sons Construction	\$4,505,700	3/14/2008	4/23/2010	11/28/2011
2	Capitol Lake Dr - Gayosa St / 25th St - N.Acadian Thruway	Capacity	PDP	07-PS-BD-0048	-	-	19,320	19,150	Hartman Eng/Shread-Kuyrkendall	Morgan Contracting of Florida	\$10,497,568	1/14/2008	6/18/2010	6/25/2012
3	Emergency Generators Purchasing	Other	***	09-PS-BD-0037	-	-	-	-	N/A	ARCCO	\$19,100,000	2009	6/18/2010	12/31/2014
4	Foster Drive - Government Street (Phase A)	Rehab	PDP	09-AR-BD-0015A	-	629	-	80,600	CSRS, Inc.	Grady Crawford	\$4,819,752	5/25/2009	6/25/2010	3/1/2012
5	Foster Drive - Government Street (Phase B)	Rehab	**	09-AR-BD-0015B	-	-	-	78,700	CSRS, Inc.	Insituform Technologies	\$2,863,100	5/25/2009	6/25/2010	2/22/2012
6	Staring Lane FM - Phase II: Highland to Perkins	Capacity	PDP	-	-	-	12,363	-	Monroe & Corie	JB James Construction	\$9,892,090	4/4/2008	8/6/2010	7/19/2013
7	Citiplace/Essen Area - PS 119 & Forcemain Improvements	Capacity	PDP	08-FM-UF-0024	1	-	8,100	-	GSA Consulting Engineers	BRH Garver	\$2,801,503	2/25/2008	8/20/2010	3/15/2012
8	Zachary Area Transmission Network - Phase I	Capacity	PDP	10-FM-IF-0002	3	-	-	-	SJB/Owen & White	Max Foote Construction	\$18,486,500	3/24/2008	8/20/2010	12/13/2012
9	Zachary Area Transmission Network - Phase IV	Capacity	PDP	10-FM-IF-0005	-	-	42,500	-	SJB/Owen & White	Wicker Construction	\$7,091,115	3/24/2008	8/27/2010	2/8/2013
10	Downtown Area - Pump Station Improvements	Capacity	PDP	08-PS-ST-0056/57	3	-	-	-	Shaw Env & Infrastructure, Inc.	Guy Hopkins Construction	\$4,841,000	3/24/2008	9/3/2010	5/24/2012
11	Kenilworth Blvd - Boone Drive	Rehab	PDP	09-AR-BD-0014	-	1,159	-	72,000	CSRS, Inc.	Allen & LeBlanc	\$5,168,129	3/26/2009	10/8/2010	4/4/2012
12	Brookstown Road - Evangeline Street (Phase I)	Rehab	PDP	10-AR-BD-0039	-	1,150	-	161,000	CSRS, Inc.	Grady Crawford	\$10,309,180	7/10/2009	10/15/2010	11/7/2012
13	Zachary Area Transmission Network - Phase III	Capacity	PDP	10-FM-IF-0004	-	-	27,000	-	SJB/Owen & White	Hemphill Construction	\$8,947,920	3/24/2008	10/15/2010	4/26/2013
14	Choctaw Storage and Pump Station Facility	Treatment/Facilities	PDP	09-PS-UF-0009	3	-	25,000	-	CDM	Brasfield & Gorrie	\$43,237,000	4/14/2008	10/22/2010	9/5/2013
15	Nicholson Dr - Highland Rd - Perkins Rd (Phase A)	Capacity	PDP	09-FM-MS-047A	-	20	8,400	3,400	Buchart - Horn	Grady Crawford	\$2,591,613	6/29/2009	10/29/2010	1/15/2012
16	Group Project 1A: Veterans Pkwy - Gravity Mains	Capacity	PDP	08-GS-UF-0053	-	-	-	46,000	URS Corp.	Texas Sterling Construction	\$19,581,108	3/10/2008	10/29/2010	12/6/2012
17	Highland Road - Burbank Drive	Capacity	PDP	08-FM-ST-0023	-	-	39,400	-	GOTECH, Inc.	RACON, Inc.	\$20,591,067	3/31/2008	10/29/2010	2/19/2013
18	Brookstown Road - Evangeline Street (Phase II)	Rehab	PDP	10-AR-BD-0040	-	1,075	-	84,000	CSRS, Inc.	John Plott Company	\$5,467,640	10/8/2009	11/12/2010	8/13/2012
19	Silverleaf Road - Ford Street	Rehab	PDP	10-AR-BD-0041	-	1,388	-	115,200	CSRS, Inc.	John Plott Company	\$8,024,946	10/26/2009	1/28/2011	8/30/2012
20	Bluebonnet Blvd - Jefferson Hwy (Phase I)	Rehab	PDP	10-AR-MS-0042	-	822	-	54,200	CSRS, Inc.	Allen & LeBlanc	\$3,848,872	2/8/2010	3/18/2011	7/26/2012
21	Multiple Pump Stations: Jefferson Hwy-Park Forest Dr	Capacity	PDP	09-PS-MS-0046	6	-	-	-	CSRS, Inc.	Grady Crawford	\$2,922,472	6/8/2009	3/25/2011	8/6/2012
22	Perkins/Old Perkins Area -BPS 514 Improvements	Capacity	PDP	09-PS-MS-0034	-	-	-	-	GEC	Wharton-Smith, Inc.	\$8,387,000	4/24/2009	4/8/2011	3/18/2013
23	Bluebonnet Blvd - Jefferson Hwy (Phase II)	Rehab	PDP	10-AR-MS-0043	-	1,325	-	63,100	CSRS, Inc.	Reynolds, Inc.	\$4,482,869	3/23/2010	4/29/2011	9/13/2012
24	Central Consolidated PS 42 FM - Phase I	Capacity	PDP	09-FM-BD-036A	1	-	32,000	-	SJB/Owen & White	Morgan Contracting of Florida	\$15,176,285	11/7/2008	4/29/2011	2/1/2013
25	EPA SCADA	SCADA	***	03-GMP-0001	-	-	-	-	N/A	Prime Controls, L.P.	\$699,685	3/2/2010	5/13/2011	6/27/2012
26	Staring Lane FM - Phase III: Perkins to PSS8	Capacity	PDP	06-WC-CP-0036	-	-	10,200	-	Monroe & Corie	Reynolds, Inc.	\$7,175,654	4/30/2009	5/27/2011	11/22/2013
27	Bayou Duplantier Area Sewer Upgrades	Capacity	PDP	09-GS-MS-0042	-	-	12,600	600	Neel-Schaffer	S.J. Louis Construction	\$4,835,682	8/31/2009	7/1/2011	6/25/2013
28	Stanford Avenue - Morning Glory Road	Rehab	PDP	10-AR-BD-0045	-	704	-	57,600	CSRS, Inc.	Grady Crawford	\$4,991,345	6/25/2010	7/8/2011	10/11/2012
29	Annual Parish Wide Physical Inspection Contract	Other	***	08-PI-UF-0051	-	-	-	-	VIS	Video Industrial Services	\$2,672,437	2008	7/8/2011	12/30/2011
30	Central Consolidated PS (2,3,4,5,6,7,10, 91)	Capacity	PDP	09-PS-MS-0035	9	-	-	-	Burk Kleinpeter/JJG	Reynolds, Inc.	\$20,497,632	11/7/2008	8/12/2011	3/28/2014
31	SWWTP Wet Weather Improvements: Phase II	Treatment/Facilities	PDP	08-TP-BD-0055	-	-	-	-	MWH	Brasfield & Gorrie	\$11,251,000	10/14/2008	8/19/2011	12/31/2014
32	Acadian Thruway - Perkins Road	Rehab	PDP	10-AR-BD-0044	-	517	-	36,900	CSRS, Inc.	Grady Crawford	\$3,454,867	5/31/2010	8/26/2011	11/27/2012
33	Acadian Thruway - Claycut Road	Rehab	PDP	10-AR-BD-0046	-	712	-	76,000	CSRS, Inc.	Allen & LeBlanc	\$6,297,278	8/2/2010	8/26/2011	12/7/2012
34	Highland Road - Washington Street	Rehab	PDP	10-AR-MS-0022	-	975	-	123,800	CSRS, Inc.	Wharton-Smith, Inc.	\$11,483,138	10/13/2010	9/9/2011	2/6/2013
35	Central Consolidated FM (2,3,5,7,10): Phase I	Capacity	PDP	09-FM-MS-033A	-	-	22,000	-	Shread-Kuyrkendall & Assoc, Inc.	Wharton-Smith, Inc.	\$11,154,538	11/7/2008	9/16/2011	11/7/2013
41	Annual Parish Wide Manhole Rehab Contract	Other	***	11-MH-UF-0006	-	-	-	-	N/A	Grady Crawford	\$1,146,458	2011	9/16/2011	2012
42	Annual Parish Wide CIPP Contract	Other	***	11-CP-UF-0007	-	-	-	-	N/A	Boh Brothers	\$1,856,634	2011	9/16/2011	2012
43	Annual Parish Wide Sewer Repair and Replacement	Other	***	11-PN-UF-0043	-	-	-	-	N/A	Grady Crawford	\$1,163,049	2011	9/30/2011	2012
44	Central Pump Station - PS 42	Capacity	PDP	09-PS-UF-0003	-	-	-	-	MWH	Reynolds, Inc.	\$10,527,000	10/21/2008	10/14/2011	1/2/2014
				34	11,630	281,708	1,358,115			\$597,332,170				

\* All manholes are inspected in the project area. Only some are rehabilitated or replaced.

\*\* These projects are included in the Program Delivery Plan (PDP), however are not shown as phases A/1 and B/2. During design, it was determined that these projects should be split into phases for better constructability.

\*\*\* These projects are not included in the PDP, however are either Remedial Measures Action Plan 1 projects (RMAP1) or are projects identified in the Wastewater Master Plan (not part of the EPA Consent Decree)

Project Information				Design Consultant	Cost Information	Schedule			
#	Project Name	Project Type		DPW Project #	Design Consultant	Estimated PDP Construction Value	Project Start	Advertise for Construction Bid	Project End
1	Group Project 1B (Veterans Parkway - PS and FM)	Capacity	PDP	08-PS-UF-0054	Evans-Graves /Burk Kleinpeter	\$19,309,000	3/10/2008	1/27/2012	5/21/2014
2	Zachary Area Transmission Network - General Design	Capacity	PDP	N/A	SJB/Owen & White	\$0 (design only)	3/24/2008	(N/A)	1/13/2012
3	Zachary Area Transmission Network - Phase II	Capacity	PDP	10-FM-IF-0003	SJB/Owen & White	\$14,584,000	3/24/2008	12/16/2011	12/5/2013
4	Central Consolidated PS 42 FM (Phase II)	Capacity	**	09-FM-MS-036B	SJB/Owen & White	\$11,610,000	11/7/2008	12/2/111	9/10/2013
5	Central Consolidated FM (2,3,5,7,10) (Phase II)	Capacity	**	09-FM-MS-033B	Shread-Kuyrkendall & Associates, Inc.	\$8,300,000	11/7/2008	1/13/2012	2/18/2014
6	PS 58 Overflow Pump Station	Capacity	PDP	09-PS-UF-0001	GEC	\$15,750,000	1/5/2009	1/20/2012	3/31/2014
7	Hooper Storage	Treatment/ Facilities	PDP	09-PS-UF-0007	TRC Engineers	\$19,115,000	1/19/2009	2/24/2012	3/26/2014
8	Airline Highway Pipeline Projects	Capacity	PDP	10-GS-MS-0007	ABMB Eng.	\$35,240,000	1/30/2009	6/15/2012	12/31/2014
9	Plank Road - Kleinpeter Road	Capacity	PDP	09-GS-UF-0028	Forte & Tablada	\$8,000,000	3/23/2009	2/10/2012	4/21/2014
10	Nicholson Dr - Highland Rd - Perkins Rd (Phase B)	Capacity	**	09-FM-MS-047B	Buchart - Horn	\$9,480,000	6/29/2009	3/16/2012	3/11/2014
11	Government Street - South Acadian Thruway	Capacity	PDP	09-GS-MS-0043	GSA Consulting Engineers	\$4,680,000	8/28/2009	3/30/2012	9/20/2013
12	Multiple Pump Stations: Nicholson Drive - Brightside Drive	Capacity	PDP	09-PS-MS-0048	Arcadis U.S., Inc.	\$5,950,000	9/14/2009	1/27/2012	5/28/2014
13	O'Neal Lane Pipeline Projects - A	Capacity	PDP	10-FM-MS-008A	URS Corp.	\$12,157,000	9/29/2009	5/18/2012	8/15/2013
14	O'Neal Lane Pipeline Projects - B	Capacity	**	10-FM-MS-008B	URS Corp.	\$5,300,000	9/29/2009	5/18/2012	8/15/2013
15	Multiple Pump Stations: Highland Road - Kenilworth Parkway	Capacity	PDP	10-PS-MS-0009	AECOM	\$8,926,760	2/8/2010	10/5/2012	12/31/2014
16	SCADA - Master Plan	SCADA	***	TBA	TBA	\$-	3/2/2010	1/20/2012	12/31/2014
17	Lovett Road - Greenwell Springs - A	Capacity	PDP	10-FM-MS-0049A	SJB/Owen & White	\$13,364,000	5/3/2010	6/15/2012	12/9/2013
18	Lovett Road - Greenwell Springs - B	Capacity	**	10-FM-MS-0049B	SJB/Owen & White	\$8,780,000	5/3/2010	6/15/2012	12/17/2013
19	Hooper Road Pump Station	Capacity	PDP	10-PS-MS-0048	Stanley	\$11,935,000	5/3/2010	7/6/2012	12/31/2014
20	O'Neal Lane Pump Stations Improvements - A	Capacity	PDP	10-PS-MS-0050	MWH	\$12,226,000	5/25/2010	7/13/2012	12/31/2014
21	O'Neal Lane Pump Stations Improvements - B	Capacity	PDP	10-PS-MS-0051	URS Corp.	\$9,800,000	5/25/2010	7/13/2012	12/31/2014
22	Sherwood Forest & Goodwood Blvds Pipeline Improvements	Capacity	PDP	11-FM-MS-0005	Forte & Tablada	\$10,200,000	1/3/2011	6/7/2013	11/26/2014
23	Highland Road Pipeline Improvements - A	Capacity	PDP	11-FM-MS-0004	Evans Graves	\$9,741,000	1/5/2011	9/21/2012	3/14/2014
24	Highland Road Pipeline Improvements - B	Capacity	**	11-FM-MS-0004	Evans Graves	\$8,118,000	1/5/2011	9/21/2012	3/14/2014
25	Florida Blvd Pump Station Improvements	Capacity	PDP	11-PS-MS-0003	Brown & Caldwell	\$15,000,000	1/28/2011	9/21/2012	11/18/2014
26	Airline Highway - Goodwood Blvd (Phase I)	Rehab	PDP	11-AR-MS-0027	CSRS, Inc.	\$11,900,000	2/8/2011	6/15/2012	3/24/2014
27	Airline Highway - Goodwood Blvd (Phase II)	Rehab	PDP	11-AR-MS-0028	CSRS, Inc.	\$11,900,000	2/8/2011	4/6/2012	3/10/2011
28	Plank Road Pump Station Improvements	Capacity	PDP	11-PM-MS-0024	Arcadis U.S., Inc.	\$9,300,000	4/13/2011	2/4/2013	12/31/2014
29	Multiple Pump Stations: Burbank Drive - Siegen Lane	Capacity	PDP	11-PS-MS-0026	Hartman Engineering	\$4,100,000	4/18/2011	2/15/2013	11/6/2014
30	Oak Villa Blvd - Monterey Blvd	Capacity	PDP	11-FM-MS-0025	Professional Engineering Consultants	\$9,000,000	4/18/2011	5/7/2013	10/27/2014
31	Joor Road - Greenwell Springs Road	Capacity	PDP	11-FM-MS-0023	TRC Engineers/Digital Engineering & Imaging	\$6,900,000	4/18/2011	4/19/2013	12/30/2014
32	Jones Creek Road - Tiger Bend Road	Rehab	PDP	TBA	CSRS, Inc.	\$5,200,000	5/3/2011	10/12/2012	7/11/2013
33	Antioch Road - Chadsford Drive	Rehab	PDP	TBA	CSRS, Inc.	\$7,700,000	7/14/2011	8/10/2012	4/8/2014
34	Plank Road - Port Hudson Pride Road	Capacity	PDP	11-FM-MS-0036	Buchart - Horn	\$4,800,000	8/5/2011	5/10/2013	12/31/2014
35	Multiple Pump Stations: Prescott Rd - Greenwell Springs Road	Capacity	PDP	11-PS-MS-0034	MWH	\$4,800,000	9/19/2011	3/6/2013	10/28/2014
36	Multiple Pump Stations: Highway 61 - Plank Road	Capacity	PDP	11-PS-MS-0035	GEC	\$6,000,000	9/26/2011	6/19/2013	12/31/2014
						<b>\$359,165,760</b>			

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 \*\*\* These projects are not included in the PDP, however are either Remedial Measures Action Plan 1 projects (RMAP1) or are projects identified in the Wastewater Master Plan (not part of the EPA Consent Decree)

As of October 2011, 18 SSO projects are completed with an estimated construction value of \$115M.

## *Projects Recently Advertised for Design Consultants (RFQs)*

**Parishwide Sanitary Sewer Cleaning and Physical Inspection Services General Retainer Contract.** RFQ advertised on 12/16/11. Selection will be made on 1/19/12 at 4:00PM.

## *Projects Recently Advertised for Construction Bids*

**Central Consolidation – PS42, Phase II:** Project includes approximately 26,000 linear feet (lf) of 20", 30", and 48" forcemain improvements; 1,200 lf of 36" and 68" jacked and bored steel casing. Bid advertised on 12/2/11. Bids will be opened on 1/10/12 at 2:00PM.

**Zachary Area Transmission Network, Phase 2:** Project includes installation of 24,000 lf of 30" ductile iron forcemain; 5,000 lf of 36" HDPE force main; 500 lf of 42" jacked and bored casing and pipe; and 4,000 lf of 36" horizontal directional drilling sewer forcemain. Bid advertised on 12/16/11. Bids will be opened on 1/24/12 at 2:00PM.

## *Projects to be Advertised for Construction Bids*

- Group 1B Capacity Improvement Projects. Expected to advertise for construction bid on 1/6/12.
- Central Consolidation Forcemain – Phase II Capacity Improvement Project. Expected to advertise for construction bid on 1/20/12.
- SCADA Master System. Expected to advertise for construction bid on 1/27/12.
- Multiple Pump Stations – Nicholson Drive – Brightside Drive Capacity Improvement Project. Expected to advertise for construction bid on 1/27/12.
- Pump Station 58 Capacity Improvement Project. Expected to advertise for construction bid on 1/27/12.

# BATON ROUGE SSO

## PROGRAM PROGRESS REPORT

OCTOBER 2011

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