



DRAFT FOCUS SHEET WATER SYSTEM

President Billy Nungesser

PURPOSE STATEMENT: *The purpose of this component is to identify opportunities for improving the delivery of safe drinking water within the parish and to coordinate the expansion of programs and facilities with the community's changing needs and settlement patterns.*

EXISTING CONDITIONS

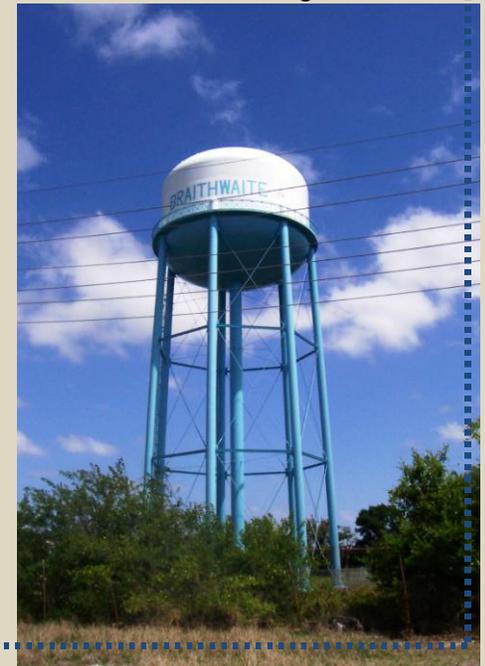
- The Plaquemines Parish water system is operated by Severn Trent Services, an environmental services company who has served the Parish since the mid-1990's.
- Potable water is provided to all of Plaquemines Parish by treatment of raw water from the Mississippi River.
- 5 Water Treatment Plants provide treated water:
 - Belle Chasse WTP (7.5 MGD)
 - Port Sulphur WTP (4.0 MGD)
 - Boothville WTP (2 MGD)
 - Dalcour WTP (Braithwaite) (1.0 MGD)
 - Pointe a la Hache WTP (0.5 MGD)
- For periods of saltwater intrusion, raw water reservoirs are maintained at Boothville, Pointe a la Hache and Davant. The Davant Reservoir is currently closed due to salt-water intrusion from recent hurricanes.
- Elevated Storage (Water Tanks) are located throughout the Parish, including:
 - Engineer's Road (Belle Chasse, 500,000 gallons)
 - Cedar Grove (500,000 gallons)
 - Home Place (500,000 gallons)
 - Buras (300,000 gallons)
 - Boothville (500,000 gallons)
 - Pointe a la Hache (100,000 gallons)
 - Braithwaite (500,000 gallons)
- Booster Stations are located at Cedar Grove, Diamond, and Empire.
- Plaquemines Parish operates a total of 8,719 water meters (7,523 residential, 1,100 commercial, and 96 other public). Through split/shared meters, the Parish serves a total of 9,682 customers.
- Many areas of the parish are still served by aging cast-iron water pipes. Water lines on the east bank were being upgraded as funds became available prior to Hurricane Katrina in 2005.
- Plaquemines Parish operates 1,989 fire hydrants.
- Two interconnects with the west bank of Jefferson Parish provide potable water to Belle Chasse in times of shortage, but this is not an adequate solution for fire protection.

KEEPING OUR WATER HEALTHY

- *The Parish Water System is operated by Severn Trent, a private company.*
- *Many areas of the parish are still served by old cast-iron water pipes.*

(below)

Braithwaite Elevated Storage Tank



PLANNED INVESTMENTS

- Plaquemines Parish has currently planned the following investments:
 - Expansion of the Pointe à la Hache Water Treatment Plant
 - Improvements to the Dalcour Water Treatment Plant
 - Davant Raw Water Siphon System
 - Waterline Extension/Hydrants on Espy Lane
 - Waterline Replacement-Braithwaite to Phoenix
 - Port Sulphur Water Treatment Plant
 - Boothville Water Intake Structure
 - Boothville Water Treatment Plant
- Plaquemines Parish has completed the following investments:
 - Lake Hermitage Water Line
 - Water line at Naomi (Pelican Place)
 - Water line at St. Thomas
 - Buras Water Tower & Waterline
 - Boothville Water Booster Pumps
 - Fire Hydrant Assembly and Waterline Repairs
- A new prison facility in the Phoenix area will increase population and place more fire protection and potable water demands on the system.

DRAFT FOCUS SHEET

For more information, please contact Charlotte Weber,
Public Involvement Coordinator
charlotte.weber@jacobs.com
Master Plan Hotline: 504-849-2153

What water system needs exist in Plaquemines Parish, and how will related decisions impact fellow community members and me?

Big Ideas

- Establish or maintain hazard mitigation programs for storm and flood-proofing of Parish water facilities to keep pace with the evolving hurricane hazards facing the Parish as the coast line continues to degrade.
- Update water distribution infrastructure for adequate fire protection in all populated areas of the parish to avoid line breakages.
- Update water distribution infrastructure for downriver distribution of fresh water during periods of salt water intrusion or pollution in the Mississippi River.
- Continue replacement of aging cast-iron water pipes to reduce loss of services due to breakages.
- Provide dual feeds in areas of the parish with single feeds to reduce loss of services.
- Interconnects with St. Bernard Parish and Sewerage & Water Board of New Orleans (Woodlawn Area)
- Replace outdated variable frequency drives (VFD's) at Belle Chasse WTP and Cedar Grove Booster Station.

Big Decisions & Questions

- How will the Parish provide adequate fire protection and potable water service to all areas of the Parish, particularly during times of salt-water migration or pollution in the Mississippi River?
- How long will aging infrastructure, such as the cast-iron pipes on the east bank, hold up?

Related Big Issues

- ❖ What water quality impact will building another port facility on the Mississippi River have on the Parish's water supply?
- ❖ How safe is the water system from future storms and salt-water intrusion?
- ❖ Improvements to the Parish's water distribution infrastructure to enhance fire protection capabilities and lower insurance costs.

(below) The Mississippi River at dawn

