



# DAMMON

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October 26, 2015

Mr. Marcus N. Redford, P.E.  
Office of Public Health  
71128 HWY 59, Suite 102-B  
Abita Springs, LA 70402

RE: Southern Comfort Lounge Water Supply  
2209 Gause Blvd. East  
Slidell, LA 70461  
St. Tammany Parish

Water Supply Update/Modernization  
Water supply disinfection facility, Stenner Model 45 MHP-10 Chemical injection Unit  
12 Gallon Chemical Storage Tank (12 ½% Sodium Hypochlorite Solution) with Dual  
Containment Tank  
120 Gallon Hydropneumatic Storage Tank  
½ HP Everbilt Well Jet Pump with associated SDR 26 PVC Piping  
1 Existing well w/distribution Piping & Appurtenances

Mr. Redford,

In reference to the above captioned, the following information is presented for your review.

The Southern Comfort Lounge Water Supply is a system that was installed approximately 30 years ago. The system has been in operation since that time up until recently. Much of the information detailing the design of the existing system has been culled from well drillers, the current owner, and persons associated with this project. Details may not truly reflect every exact parameters on the current installation of the presented system. Items in the Design Summary Package for this current submittal have been addressed to the best of my knowledge, although not all questions have been answered as information may not be readily available. Surveys of the system were conducted on August 24, 2015 and October 19, 2015. This submittal lists the current parameters of the water system in an as-built water supply condition and the proposed reconfiguration of the water supply.

The current water well furnishes water to three businesses. Each business has its own demand pump located adjacent to the business structure.

- 1) A Used Tire business that on its own would not normally meet the requirements to be placed on the Safe Drinking Water inventory.
- 2) A Tattoo parlor.
- 3) A bar, the Southern Comfort Lounge, which has the potential of meeting the drinking water threshold requirements. As previously mentioned, the water supply for this bar has been in operation for approximately 30 years.

All three businesses together, as a group, require registration on the drinking water inventory. The proposal in this submittal is to modernize the water system for the 3 customers. This shall be done by:

- 1) Removing the water pump, controls, disinfection facility, and storage tank from the Southern Comfort Pump House.
- 2) Removing the demand pumps, controls, and storage facilities from the Used Tire Store and Tattoo Parlor.
- 3) Constructing a well house at the well head site.
- 4) Installing a water pump, disinfection facility, a 120 Gallon hydropneumatic storage tank (to meet the 30 minute contact time requirement) controls and associated water system appurtenances at the well site.
- 5) Replacing all 4" sewer piping within a 50' radius of the well with schedule 40 PVC in accord with LSSC 327 – A - 2 – Footnote 1 .
- 6) Install backflow preventors at each business.  
In essence, the water system shall be centralized at the well head and the distribution shall supply water to the three businesses. Each business shall be outfitted with approved sampling taps and backflow prevention devices.

The attached submittal contains:

- 1) A complete application package is submitted for your review.
- 2) A diagram indicating the current layout including possible sources of contamination.
- 3) A diagram indicating the proposed reconfiguration and modernization plan
- 4) A product sheet for the Flowtec Model FP720 Hydropneumatic Tank is provided. The specifications sheet does not specifically designate ASME code requirement construction; however, this type of tank is designed for potable water systems and used in many systems.
- 5) Bypass piping for the Hydropneumatic Tank shall be installed. (see system diagram)
- 6) As this is an extremely small water supply, the Hydropneumatic Tank will not have automatic controls to maintain water-to-air ratio. The air shall be manually injected using an access valve to be installed on the air tank.
- 7) See attached calculation sheet for chlorine contact time.
- 8) The MSDA sheets for AquaChlor 12.5% are provided in the submittal.
- 9) Sodium Hypochlorite shall be stored in the pump house.
- 10) Secondary containment for the chlorine supply tank shall be provided.

- 11) The certified operator shall take the chlorine residuals.
- 12) The water system shall be disinfected in accord with LAC 51, Part XII, 351 and tested in accord with LAC 51, Part XII, 353.

*Brian A. Mistich*



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