



Homeowner Hurricane Preparation Guidelines MUD 18 (updated 7/08/2017)



Before, during and after a storm event, Bentwater residents can take specific action that will help MUD continue basic services. If a hurricane is heading our way, the National Hurricane Center, local news media and other agencies will provide information for residents in the upper Gulf Coast. Issues within Bentwater will be addressed by the POA and MUD 18. During a storm event the POA will serve as the Command Center. MUD's role focuses on potential problems related to water supply, sewage treatment, garbage pickup and drainage of storm water. The following may be helpful in dealing with potential problems in hurricanes.

Background: Operation of MUD facilities depends heavily on electrical power: to pump water, to pump sewage out of lift stations within Bentwater and to treat waste water. During an extended electrical outage, MUD 18 uses natural gas and some diesel generators to provide power for keeping critical facilities operating. Natural gas generators have been installed on all our lift stations. The District has a portable diesel generator that can be used as backup if needed. We have increased our diesel fuel storage within Bentwater and we have access to certain supplies outside Bentwater. Even with systems and procedures for emergency operation, event specific challenges (such as street blockages and fuel shortages) make it impossible to guarantee normal operations during an extended electrical outage.

Residents should understand the importance of minimizing use of water, minimizing the production of waste water and other helpful actions during a large storm event with an extended electrical power outage.

Some Guidelines for Advance Preparations: The following procedures are useful for minimizing overload of MUD facilities, extending their successful operation and providing extra protection:

1. Water Usage. Accumulate gallon jugs of drinking water early in hurricane season. Don't wait until a hurricane is about to strike, since bottled water will be sold out very quickly. Unfortunately, MUD cannot guarantee an unfailing supply of safe drinking water in all possible circumstances. Water may always be available but might not always be drinkable. News reports that water is unsafe in other areas do not imply the same is true for Bentwater. If there is any doubt, MUD will post signs around Bentwater, saying "Water Is Safe" or "Boil All Water."

Once there are hurricane warnings, disable all automatic sprinkler systems; do this at least a day before landfall is expected. If you choose to leave the area, turn your sprinkler system off. This will allow us to enter into an emergency with a bigger reserve supply of water.

2. Sewage backups. Even with the natural gas generators on lift stations and a portable diesel generator to provide additional backup, extreme circumstances may make it impossible to keep a lift station operating. Houses in low areas can be vulnerable to backups and owners need to be aware of this. Some homeowners have spring-loaded relief valves installed outside the home in place of the screwed-in plug of the sewer cleanout pipe. These should be mounted lower than the slab level of the house and should be kept clear of debris or other obstructions. Some homeowners have flapper valves for backup prevention; usually these are installed during home construction, so the status of this protection may be unknown. A reputable plumber can assure proper installation and operability of these devices.

3. Drainage of storm water. An intense storm can potentially overwhelm our drainage facilities. Drainage problems in Bentwater arise because of blockage of the drainage path which should be preserved between all homes. While the deed restrictions deal with this issue, some homeowners end up with raised elevations between homes, creating dams which interfere with a path for excess water. Some landscaping is installed in a way that restricts water flow between homes. Moreover, broken branches and other storm trash usually floats into these drainage areas, creating flow obstructions; assess your situation for open drainage in this regard. Neighbors should take care not to create problems for neighbors. Storage of large items next to homes can potentially cause storm water drainage issues. Homeowners need to think through all these issues because homeowner situations differ greatly. Those in low lying areas need to be

much more cautious than those living at the very peak of a hill. **Deal with these issues as soon as they are observed to avoid any headaches connected with home flooding.**

If there is a lull in the storm, check for any debris in drainage paths and attend to it as soon as possible.

Dealing with the Aftermath of the Storm

- 1. Water** If electricity has been lost, do not start filling bathtubs, do not operate irrigation systems, etc. This will overtax our facilities and accelerate the potential loss of our capacity due to drawdown.
- 2. Sewage** In an electrical outage, minimize the production of waste water. Minimize water used for bathing; wash clothes only when there is a full load; flush toilets only when there is a significant incentive to do so. We have the capacity to operate our waste treatment plant at full capacity with dedicated natural gas generators, diesel-driven generators and storage tanks for fuel. However, to cover all contingencies, we need to minimize waste water production. In addition, these practices will reduce consumption of water.
- 3. Garbage** Collection of garbage may be delayed for a week or more, depending on the number of obstacles to traffic, and depending on area-wide availability of fuel for trucks. Do not let garbage cans sit out on the street for days in anticipation of return of garbage service; secondary storms can scatter garbage into the neighborhood and contribute to storm drainage issues. If possible, keep garbage cans inside the garage, or at least keep true garbage (food waste) in the garage; double-bagging or triple-bagging may be desirable for the most problematic garbage. When MUD gets word about resumption of garbage service, we will get the message out.

Getting Information

After Hurricane Ike, it seemed that erroneous “information” circulated better than useful information. MUD has set up procedures to provide access to the most reliable information. Some of these may not work perfectly during a full-scale emergency; adaptations will be made as necessary.

- 1. Sources of information.** The best source of the most recent information about what to expect and what to do will be a Board member (Linda Pierce: 597-5463, Lou Tichacek: 597-7010, Rex Cambern: 449-5761, Susan McFarland: 597-7503 and Gary Montgomery: 597-9256).

The following websites will provide updated information if conditions allow:

www.mcmud18.com; www.bentwaterpoa.com; and www.bentwaterclub.com.

Information notices will be posted at several high traffic places around Bentwater – especially at the POA office, Country Club entrance, and the entrance gates.

To report water, sewage or garbage problems, call Hays Utility North (936-588-1166) or Waste Management (713-686-6666 or 800-592-1102). If those channels fail, contact a Board member.

- 2. Access to information** Phone lines may work occasionally but not always. Repeated attempts to use land lines sometimes produce results. Cell phones may work for some service providers, but not others. Text messaging may be more successful than voice during high traffic cell phone usage. Internet access will likely require repeated attempts to find useful circuits.

When all else fails, the only method of communication may be by word of mouth from one resident to another. In Hurricane Ike, this proved to be only slightly useful, at best. The major problem seems to have been that well-intentioned people thought they had useful information and then spread it as quickly as possible. In too many cases this information was wrong and displaced some really useful information. It is important not to spread “information” which is not known to be really authoritative. Do not assume that information about issues in other MUD districts will apply directly to MUD 18.

Take action early. Be considerate of neighbors. Stay informed. Be safe.