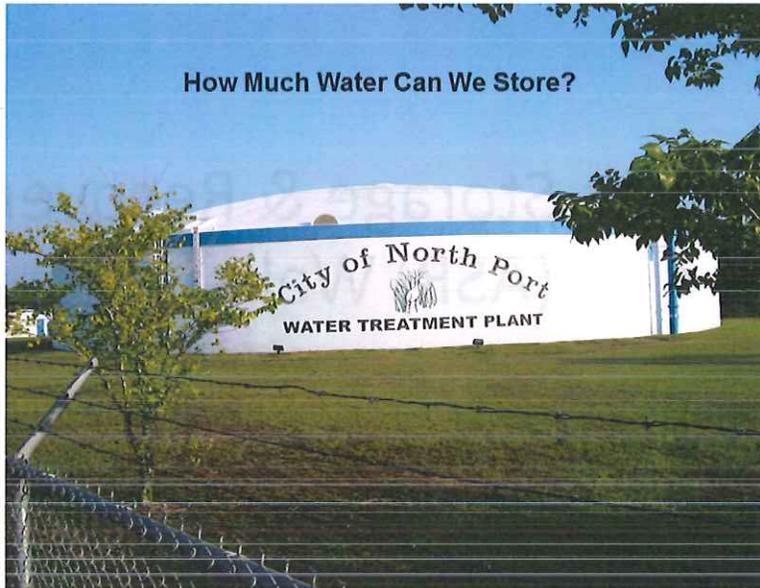


Aquifer, Storage & Recovery (ASR) Wells

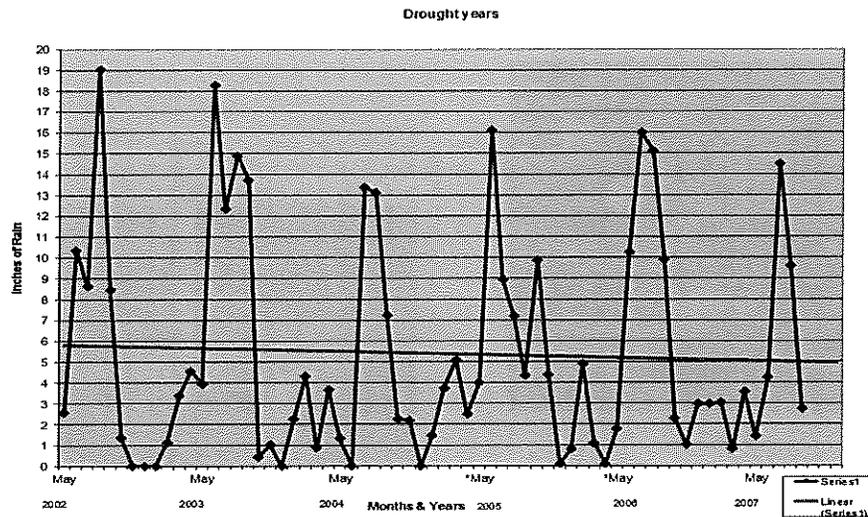
(A little insight on what an ASR Well is.)

How Much Water Can We Store?



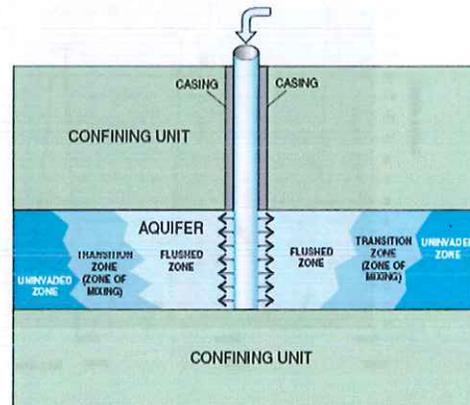
You have probably seen large tanks while driving throughout the City. These tanks are above ground storage tanks which store potable water for our citizens and to ensure adequate fire protection.

- Why is storing water important?



The City of North Port relies heavily on surface waters produced by the normally plentiful rains that we receive in Florida. However, at times, such as during the mid-2000s ongoing drought affects the amount of surface water available and also can affect the groundwater levels in the aquifer. The best solution for a water supplier is to have diversified sources with plenty of storage capabilities. The previous slide shows a 2 MG tank at the water treatment plant site. The City has a total of 7.5 MG of storage throughout the system to be able to provide continuous water service to our almost 20K customers on a day to day basis. But during times of drought, this may not be enough. Some possible solutions include a reservoir or an ASR well. ASR (Aquifer Storage and Recovery) is defined as the storage of water in a well during times when water is available, and recovery of the water from the same well during times when it is needed. So you can think of ASR as an underground reservoir.

What is an Aquifer, Storage and Recovery (ASR) Well?



The City's ASR well is currently capable of storing up to 60 MG of water, up to eight times the capacity of all of our ground storage tanks combined. This will help the City be prepared for drought conditions or other emergency situations such as the incident when the tanker truck spilled contaminants on the highway, potentially entering the Myakkahatchee Creek.

The permanent construction of the intake facilities is the final step in making our system operational. Cardno Inc. has been the engineer since the inception back in 1998 and as you can imagine, Cardno has all those years of historical knowledge on this particular project. We hope to have our ASR permitted for operation by 2018 and know we can make it happen within this timeframe if this waiver/exemption is approved which will allow us to move forward in a timely manner.