

# Geography

## Lessons in Treating Tampa's Water



When the **David L. Tippin Water facility** was first built, there were only **51,000** people in the **City of Tampa**. As the population grew, so did the demand AND the need to expand.



The **David L. Tippin Water Treatment facility** is the largest surface water treatment plant in Florida. Water is treated and stored in underground tanks, called clearwells. The treated drinking water travels through 2,300 miles of pipe to Tampa households and businesses.

### QUICK FACT:



On average the city uses **[ 77 million gallons ]** of drinking water per day!



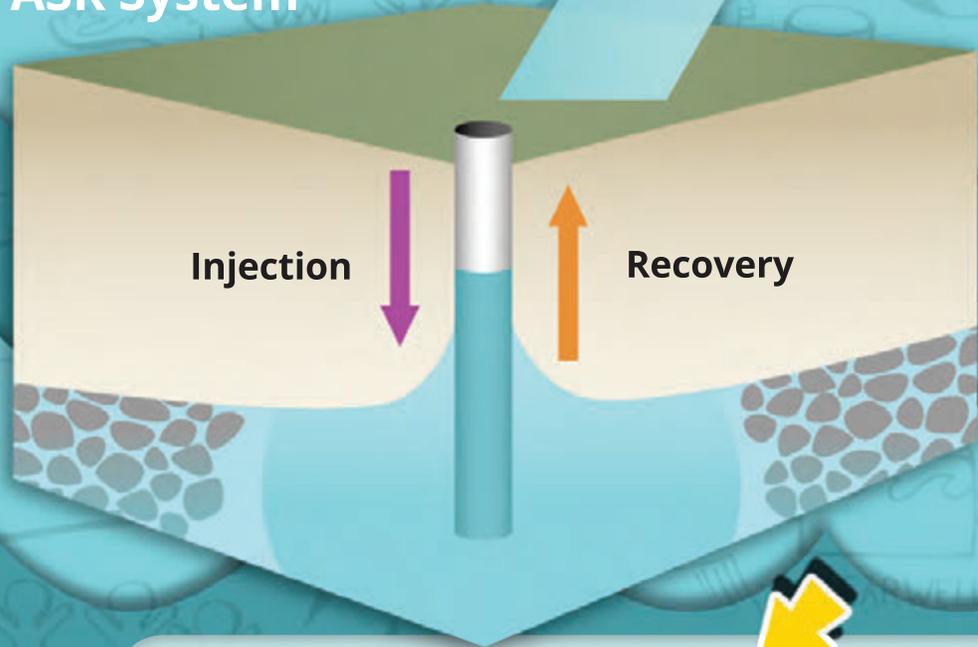
When water demands increase, alternative sources are used to supplement our water supply. This most likely happens in the Spring, before the summer rains begin. To offset the demand, Tampa uses an **Aquifer Storage Recovery System (ASR)**.

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The ASR system uses a series of eight wells that reach down into the top layer of the Floridian aquifer. When it rains, the aquifer system collects the rainwater and stores it. When demand is high, the water is pumped from the ground and sent for treatment. This process has minimal impact on the environment, as the only water pulled out of an ASR well is water previously placed there so there is no loss of water.

### ASR System



At full capacity, our current ASR system can store up to **1 billion gallons** of water underground! If aboveground tanks were built to hold this much water, three tanks the size of Raymond James Stadium would be needed!

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Match the terms with the right definition:

**clearwell**

**distribution system**

**drinking water**

**reservoir**

**water production**

**water quality**

Water that has been treated and is safe to drink.

\_\_\_\_\_

The process of treating raw water and making it drinkable.

\_\_\_\_\_

Large, underground water storage tank used to hold a reserve of water.

\_\_\_\_\_

The chemical, physical and biological characteristics of water.

\_\_\_\_\_

The large system of pipes that carries water throughout the city.

\_\_\_\_\_

A natural or artificially created place where water is collected and stored for use.

\_\_\_\_\_

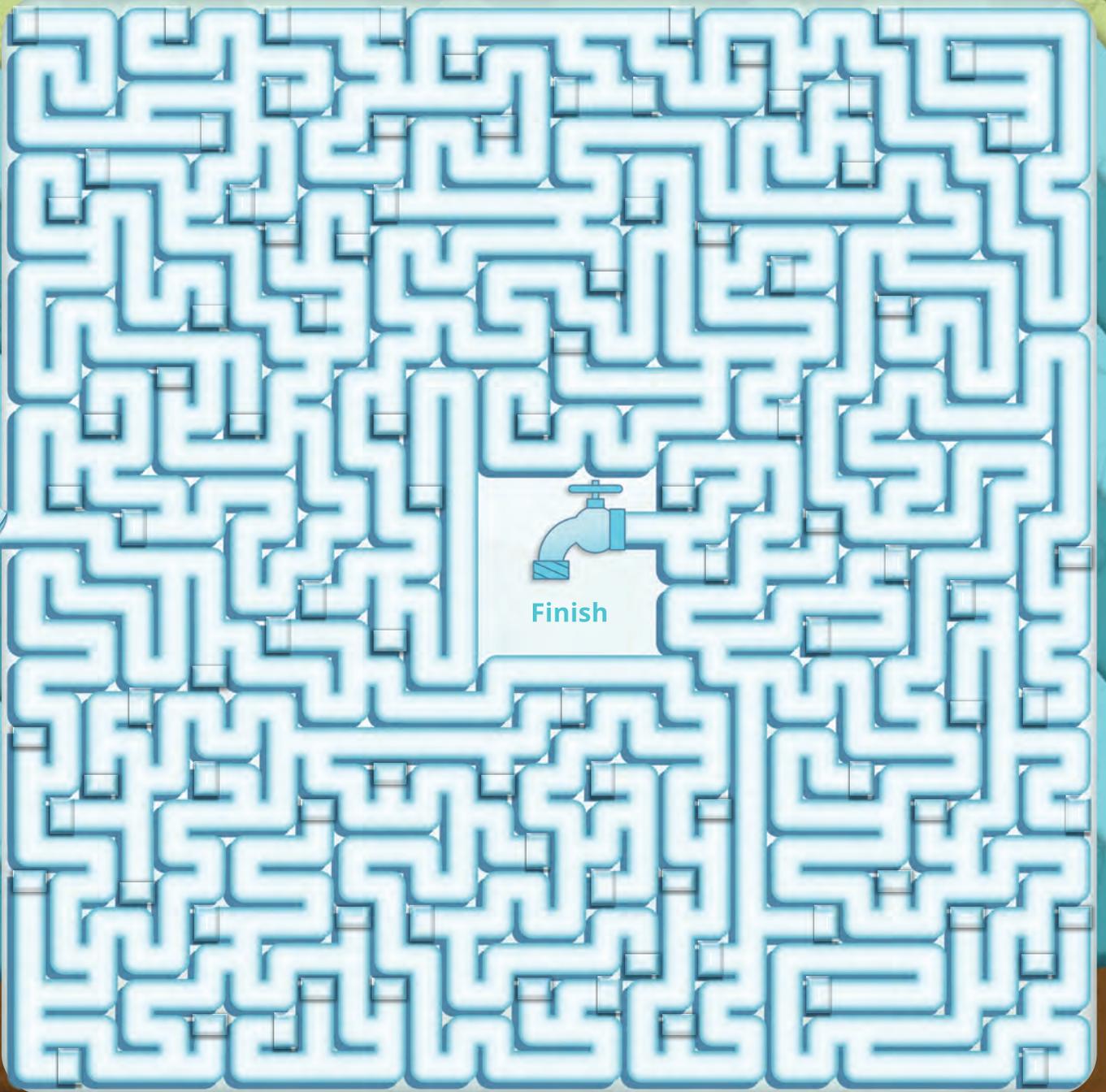


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Help distribute the water through the water pipes!



Start

Finish

Answer  
(backwards)

