WATER EDUCATION AND CONSERVATION CAMPAIGN

MINNETRISTA'S WATER SUPPLY, TREATMENT AND STORAGE

JANUARY 2022

WELL
INTAKE

The number of wells needed for a city is based on the maximum day water demands and how much water each well can produce.

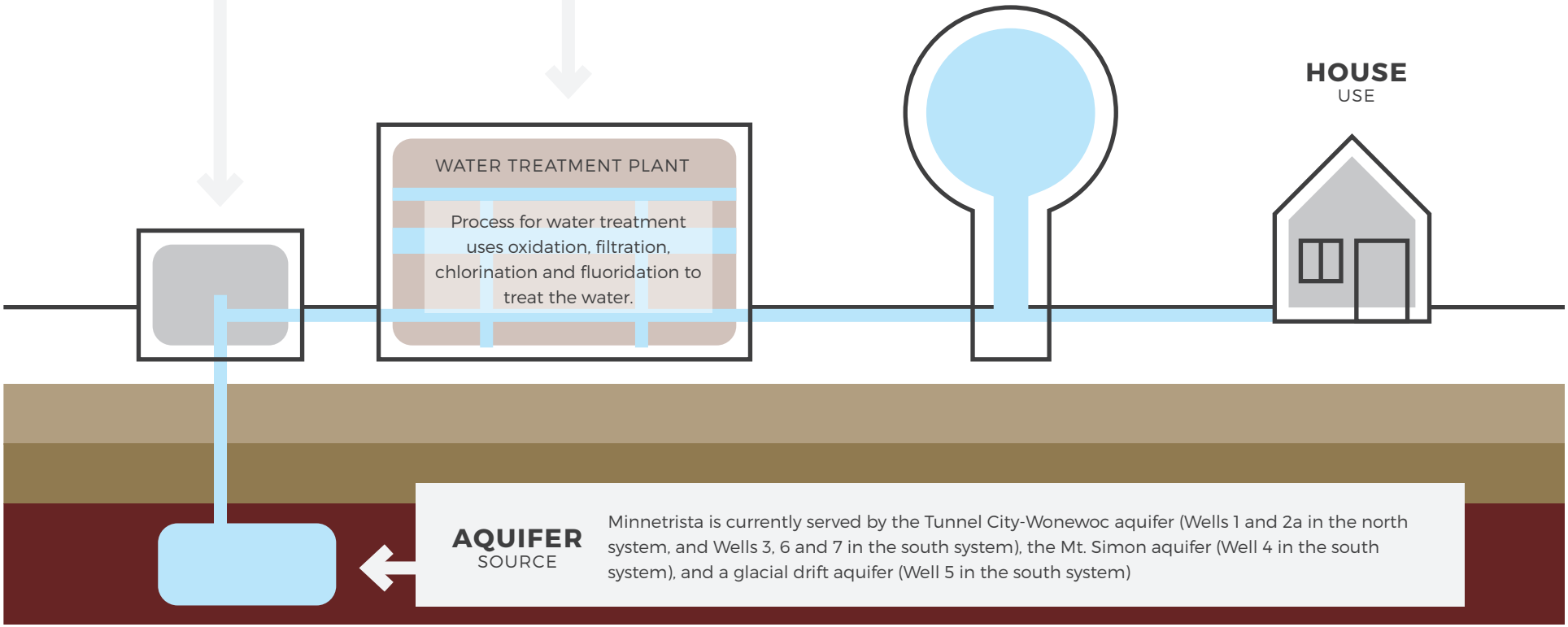
WATER TREATMENT
PROCESS

Water treatment capacity is based on the maximum day water demands and how much water each well can produce.

WATER TOWER
STORAGE

The size, number and location of the water towers is determined by:

1. The maximum hourly and maximum daily water demands.
2. How much water can be pumped if the largest city well is out of service.
3. The water needed to fight a fire, and an allowance for equalization storage.



AQUIFER
SOURCE

Minnetrista is currently served by the Tunnel City-Wonewoc aquifer (Wells 1 and 2a in the north system, and Wells 3, 6 and 7 in the south system), the Mt. Simon aquifer (Well 4 in the south system), and a glacial drift aquifer (Well 5 in the south system)

CITY WATER INFRASTRUCTURE PROJECT UPDATE

To increase the City's water supply the Council is seeking to add two new wells to the city's system. The first step is to drill test wells, which are temporary holes drilled into the ground to determine if groundwater is present and with sufficient capacity to build a permanent municipal well. Well sites are identified based on public or semi-public ownership and interpolated data from the Hennepin County Hydrogeologic Atlas. The Atlas is provided by the Minnesota Department of Natural Resources (DNR) indicates the approximate location and elevation of aquifer formations. Based on this information the Mt Simon, Hinckley, Tunnel City-Wonewoc, and glacial drift aquifers lie underneath Minnetrista. Due to water quality and capacity concerns, new municipal wells are not proposed in glacial drift aquifers.

On October 25, 2021 the City Council awarded a contract to Traut Companies to drills two test wells. The first test well was drilled into the Tunnel City-Wonewoc aquifer just east of city hall in November, 2021. The test well did not yield the capacity required for a municipal well. The second test well was not drilled.

At a special meeting on December 20, 2021 the City Council authorized preparation of a construction quote package to drill a test well on the city-owned property southwest of the Westonka Regional Athletics (WRA) fields off of CR 110W, and one on a property owned by Three Rivers Park District. Detailed review of information on existing wells in the area indicate that these locations are not ideal for a municipal well therefore quotes were not pursued. Staff will meet with the DNR to discuss options.

The City's next Water Treatment Plant will be discussed once the new well sites can be determined.

For more information visit:

WWW.CITYOFMINNETRISTA.COM

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