

April 21, 2021

Water Supply Questions for City of Wauwatosa

1. Pressures and Flows: **Need more definition for future connections.**
 - a. What hydraulic grade and available flow would be provided by Wauwatosa at the intersection of 118th Street and Watertown Plank Road?
 - i. At time of initial connection? **Hydraulic grade initially 900.9 elevation is 726.**
 - ii. The hydraulic grade will vary based on water elevations in the elevated storage tanks. What is the anticipated range and pattern of fluctuation?
 - iii. Are there any changes contemplated to Wauwatosa's system that would impact the hydraulic grade line in the future? **No change in the future.**
 - b. What should we use for a ground elevation at the intersection of 118th Street and Watertown Plank Road? **726**
 - c. Have there been any recent hydrant flow tests taken at the intersection of 118th Street and Watertown Plank Road? If so, can the test reports be provided to the Village? **No Hydrant Flow test have been done recently.**
 - d. How much flow can be provided to the Village of Elm Grove before additional improvements are needed to Wauwatosa's water system? **24-inch supply line so they did not look at it.**
 - e. Are there any limitations to future expansions east of the RR tracks in Elm Grove or maximum build out rates that Wauwatosa may have? **North Avenue would be northern most connection, Bluemound to the south. There would need to be an additional connection to the Wauwatosa system on Bluemound and on North Ave to insure proper reliability.**
2. Connection Point(s):
 - a. The initial water supply connection to the Village is proposed to be located at the intersection of 118th Street and Watertown Plank Road. The water supply study prepared in 2000 assumed two connection points would be made to the City of Wauwatosa's water system. Is the additional connection point near the intersection of North Avenue and 124th Street still available? **Yes** Are there any alternative or additional connections points that Wauwatosa would like to consider providing? **Bluemound Road**
 - b. What is the hydraulic information (available flow and hydraulic grade) at the future anticipated connection points? **Not directly available yet.**
3. Agreement:
 - a. Is Wauwatosa willing to operate and maintain public water facilities located in Elm Grove? **Yes**
 - b. Is Wauwatosa willing to sell water on a retail basis directly to customers in Elm Grove? **Yes**
 - c. There are a few existing private community water systems operating in Elm Grove that use groundwater wells.
 - i. In some cases, it might make sense to include users of a private water system as retail customers. Is Wauwatosa willing to interconnect with, operate and maintain the existing private water system facilities in these cases? **No direct wholesale but potentially take over system after review. May be willing to take over older systems with some type of recapture agreement for replacements.**
 - ii. In other cases, it might make sense to keep the existing private community water system separate from the public water system. Is Wauwatosa willing to connect to these systems and sell water to the community system on a wholesale basis? **No**
4. Irrigation:
 - a. Is Wauwatosa willing to allow Elm Grove users to maintain their private wells for external yard use if tested regularly? **Wauwatosa ordinance does allow.**

Mr. Thomas Harrigan

Re: 15300 Watertown Plank Road – Revised Demolition Plan Review

April 5, 2021

Page 2

- b. Cross connection inspection may be performed with Elm Grove staff and shared with Wauwatosa, if on similar schedule.
- 5. Pipe material is more of an engineering judgement-allow DR18 and Class 55 DI. Anything over 16 inch would be Ductile Iron. HDPE for services to single family and duplex.
- 6. Road reconstruction plan for 2024 or 25 on Watertown Plank. Slurry backfill and potential asphalt patch on any roads in Wauwatosa, which is the same as in Elm Grove. PVC more than likely would be ok for phase 1.