

**MINUTES**  
**PIQUA CITY COMMISSION WORK SESSION**  
**March 8, 2012**  
**7:30 P.M.**  
**201 WEST WATER STREET**  
**PIQUA, OHIO 45356**

Piqua City Commission met in a Work Session at 7:30 P.M. in the Commission Chambers in the Municipal Government Complex, 201 W. Water Street. Mayor Fess called the meeting to order at 7:30 P.M. Also present were Commissioners Vogt, Wilson, Martin, and Terry. Absent: None. Also present Directors and Managers, Dave Burtner, Don Freisthler, Amy Havenar, Cynthia Holtzapple, Bill Murphy, Stacy Wall, and City Manager Gary Huff.. Bob Yoxthimer, Dick Schlemmer, and Subhashini Chadraekar of CDM Smith Engineering. Numerous citizens were also in attendance.

**Work Session Discussion**

**Water Treatment Plant**

City Manager Gary Huff stated the meeting is an informational meeting only; no decisions will be made at this time. The City is facing an issue on building a new Water Treatment Plant or joining with the City of Troy to provide water to the citizens.

Water Superintendent Dave Burtner stated a lot of time and effort has been put forth to come up with a plan that will meet the water needs of the City of Piqua now and in the future. Mr. Burtner introduced Bob Yoxthimer, consultant for CDM Smith the engineering and construction firm hired by the City of Piqua to do the water plant study analysis.

Mr. Yoxthimer explained CDM Smith was hired to put together a planning and preliminary design concept for a new water treatment facility. Time is of the essence as the city must meet Environmental Protection Agency (EPA) regulations for a change in the water standards or receive various violations and substantial fines.

A Preliminary Engineering Report (PER) Summary was presented to the Commissioners beginning with the background of the project. The current water treatment plant was constructed in 1925 located in a flood-prone area, and currently does not meet Ohio EPA's approved capacity requirements. Major rehabilitation would be required to extend structural and mechanical integrity at the current plant. The chemical storage and handling practices are obsolete, labor intensive and unsafe, with the treated water flow metering being inaccurate at this time.

Mr. Yoxthimer explained the Regulatory Summary issues, showed a drawing of the area for source water, further explained the key water quality issues with current regulations and future regulations. Water quality goals were explained along with the water capacity with a new plant being built. With the new water treatment plant the maximum day production would be 6.75 MGD, an average day production is 4.35 MGD, peak hour treatment is 7.2 MGD, and peak hour production (pumping) is 9 MGD. Treatment Process Train selection was discussed and explained along with a site plan for selected alternatives and offsite improvements, and optional facilities costs.

A Surface Water Assessment & Protection Plan (SWAP) was explained with SWAP completing Piqua's three water supply sources, evaluated threat and prioritized contaminant sources,

evaluated protective strategy options for implementation, submitted to the Ohio EPA on December 21, 2011 with the Ohio EPA endorsing the Plan on February 23, 2012. Piqua' Surface Water Assessment & Protection Plan (SWAP) will be posted on Ohio EPA's website as an example and guidance to other communities as they were quite impressed with the study.

A Groundwater Surface Investigation was conducted with two piezometers being installed, water samples that were taken satisfied the OHIO EPA "New Well" parameters. Computer modeling indicated that each property could support a well with a potential capacity of 1,500 gpm (2.16 MGD) with further testing needing to be done to verify long-term sustainability capacity of each of the new wells, which could be 700 gpm (1.0 MGD).

Funding and Financing Options were explained as the State of Ohio has funding options available, which the city would qualify for, and conventional revenue bonds are to be considered.

Permits and Approvals were explained which would take approximately 4-6 months and they include: Ohio EPA plan approval for plant and off-site improvements, PTI for sanitary pump station and force main. SWAPP/NOI for construction-related activities, Nationwide Permit #12 for the crossing of Swift Run and the Great Miami River, Ohio EPA/DEFA funding with OHPO review, Fish & Wildlife review, and a Davis-Bacon wage rate set.

Next Steps include the project schedule:

- Design in 4/2012-4-2013
- Ohio EPA approval 1-2013-4/2013
- Advertisement for bids 5/2013-6/2013
- Awarding of the Construction Contract 7/2013
- Begin construction 8/2013
- Begin Stage 2 DBP compliance monitoring 10/2013
- Complete construction (18-months) 2/2015

Will need to obtain PER approval from Ohio EPA, complete carbon column studies, assess funding options and submit application, assess impact on the water rates and begin design.

Discussion and various questions were raised concerning the size and water capacity of the new plant versus the current plant, the type of chemicals that would be used and how they would be separated, explanation of the location chosen for the new plant, off site improvements that would be made, use of the old clear wells in the future, consideration of the decimal level in the area in regards to the neighbors, ultraviolet light usage and the cost to use the ultraviolet light with the chemicals now and in the future.

Source water protection was discussed and how the water was going to be protected in the future, as it was noted very few communities use surface water, along with possible turbidity problems, there were also concerns voiced about the proposed development around Swift Run in the future. It was noted that citizens should restrict the use of chemicals on their yards by using organic garden chemicals.

City Manager Huff stated this has been a very informative meeting, and more information will be presented in future meetings.

Moved by Commissioner Martin, seconded by Commissioner Terry, to adjourn from the City Commission Work Session at 9:00 P.M. Voice vote, Aye: Terry, Wilson, Martin, and Vogt. Nay, None.

\_\_\_\_\_  
LUCINDA L. FESS, MAYOR

PASSED: \_\_\_\_\_

ATTEST: \_\_\_\_\_  
REBECCA J. COOL  
CLERK OF COMMISSION