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May 4, 2009

Terry Riedel
City Hall
PO Box 87
Victoria, Kansas 67671

Dear Terry;

I appreciate the opportunity to meet with you on April 30, 2009 to discuss several issues regarding operation of the city's public water supply. This letter is a follow-up summary of those issues. We also briefly discussed operation of the city's three-cell lagoon. I agree that it is somewhat surprising that your 27-acre lagoon would fill so quickly and need to discharge, but each system is unique in that regard. Seepage rates vary, as do rainfall and evaporation. Should you need to discharge again in the future, you should again follow the accepted procedure of sampling your effluent and obtaining KDHE approval prior to any discharge. Based on our discussions, it sounds to me like Julius Windholz and you provide excellent operation and maintenance of the sewer system.

The city should be receiving a brochure shortly announcing several Ground Water Rule Workshops to be held in western Kansas in early June. This new Federal rule goes into effect on December 1, 2009 and will affect your water system. Attendance at one of the sessions should prove helpful. The Hays workshop will be held on June 5 at the city's water treatment plant (1000 Vine). Workshops start at 8 a.m. and conclude around 4:30 p.m. All workshops are free, but registration is recommended. You can register on-line at www.krwa.net.

One of the goals of this rule is to provide 4-log (99.99%) inactivation of viruses if possible. If 4-log inactivation can be provided, the city would not be required to conduct raw well water sampling should you have a total coliform positive result in future distribution system samples. 4-log inactivation is only required if raw water sampling indicates fecal contamination and the source of the contamination cannot be eliminated.

We suggest you bring information needed to calculate your chlorine contact time (CT) in order to determine if your system can meet 4-log inactivation. Information needed includes the diameter or each size pipe between the point of chlorination and your first customer, the length of pipe between these same two points, the maximum flow rate in gallons per minute of all three high-service pumps and the lowest free chlorine residual measured at or before the first customer. Since you add chlorine to the well water entering your clearwell, the city should also be able to use the capacity of your clearwell when calculating your CT. Consequently, I suggest bringing the dimensions of your clearwell.

If I can ever be of assistance, please feel free to call me at 913-850-8822. Funding for the above assistance was provided through a contractual arrangement between the Kansas Department of Health and Environment (State Revolving Loan Program set-aside) and the Kansas Rural Water Association (KRWA). Please visit the KRWA website at www.krwa.net for news and information concerning water and wastewater utilities, training opportunities, and other KRWA programs.

Sincerely,

Jeff Lamfers
Consultant

c: Curtis Unrein, Mayor
Julius Windholz, Water Superintendent
Norb Windholz, KDHE-Hays