



P.O. Box 226 • Seneca, KS 66538 • 785/336-3760  
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June 3, 2010

Rick Sailer  
Superintendent  
City of Bonner Springs  
205 E. 2nd St.  
Bonner Springs, Kansas, 66012

Rick;

This is a follow up letter for the meter testing conducted for the City of Bonner Springs. The results are shown below.

<b>Meter: Neptune 6-inch HPT; SN: 70110000; Dated: Nov 2002; Location: Sales to PWWSD 9</b>						
Test Number	Test Flow rate gallons per min.	Meter Volume (entity's meter)	Tester Volume (KRWA's tester)	Entity's meter accuracy (compared to KRWA)	(flow curve adjustment) on test meter	Adjusted Accuracy
1	500	2000	2061	97.0%	98.7%	95.8%
2	500	4000	4120	97.1%	98.7%	95.8%

The industry standards for the Neptune 6-inch type of meter used to register water sales to PWWSD 9 is to operate within a range of 98.5% to 101.5% at the tested flow rates. Under the listed flow rates, the meter failed the tests by operating under the required standards by 4.2%. It was noted that there was a significant amount of small rocks in the screen of the KRWA test meter after the tests were completed. The size of these rocks can be the cause of damage to the inside of your meters. I am concerned about this as this meter does have a screen attached to the meter and these rocks should not have been able to pass through.

I will be back to disassemble, clean and retest this meter on Tuesday, June 8.

As was discussed with Eric, we were unable to test the two meters in the area of Sandstone because of the manner of their installation and lack of a test port to attach to. The lack of proper installation can be a leading cause of a meter not registering correctly. There are meters on the market that will meet your needs and save need for replumbing the meter vault; those have built-in test ports.

Please call Kansas Rural Water Association if we can be of further assistance. Also, visit the KRWA website [www.krwa.net](http://www.krwa.net) for news and information concerning water and wastewater utilities, upcoming training opportunities and other KRWA programs.

Sincerely,

Gary Armentrout  
ARRA Circuit Rider

C: Clausie Smith, Mayor  
Rita Hoag, City Clerk  
Dale Allen, Operator