

Backflow Prevention Issues

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OTCO 47th Annual Water Workshop

March 4, 2009 – jjones62@cinci.rr.com

I'm Tired Today – Fighting All Night

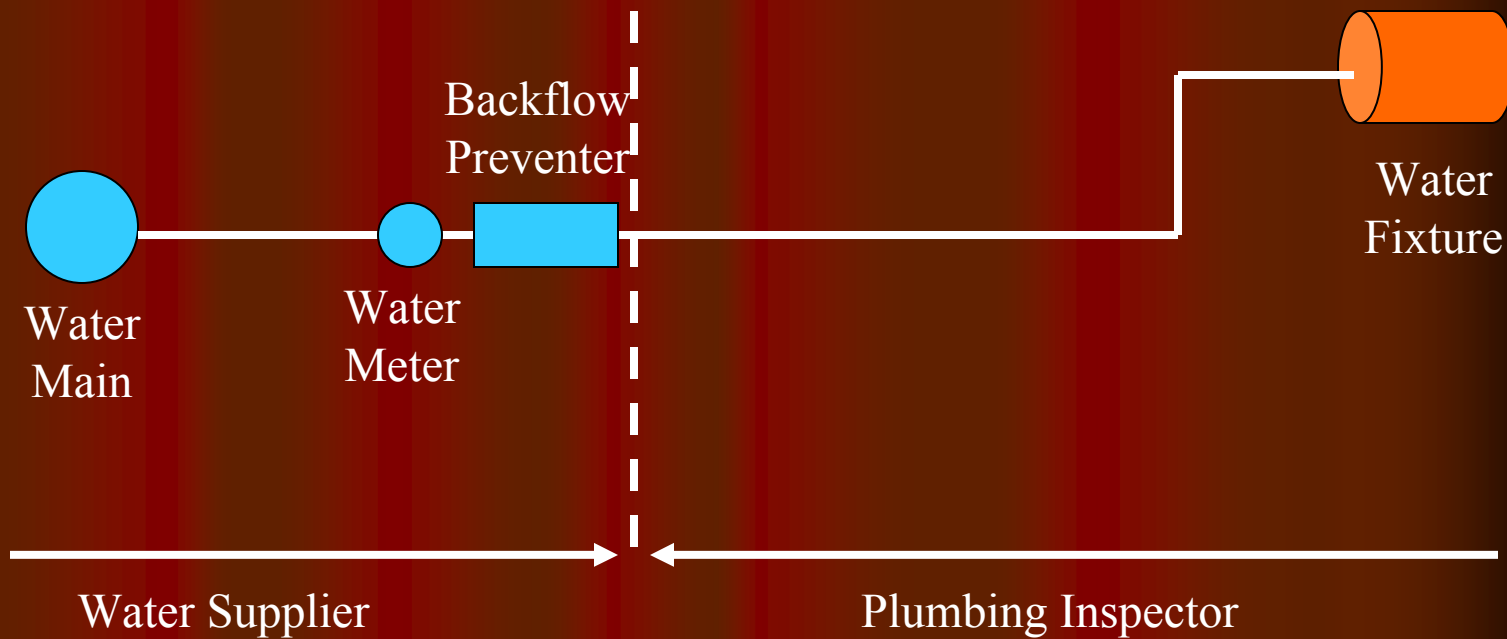
- Mother-in-Law Birthday is in November
- I bought her a cemetery plot
- Wife asked about Christmas Present for her Mom
- “She hasn’t used the last one I bought her”
- Wife’s Birthday is in January, she asked for something that will do 0 to 150 in 6 seconds
- I bought her a scale
- Last night, Wife said she looked fat in mirror and said that she needed a compliment from me
- I said “Well your Eyesight is Damn Near Perfect”

Ohio EPA Basics

- Water Supplier has Four Primary Responsibilities
- Conduct Surveys 3745-95-03 (A)
- Determine Required Protection 3745-95-04 (A)
- Follow-Up on Installation 3745-95-06 (B)
- Ensure Tests are Completed 3745-95-06 (C)

Ohio EPA Basics

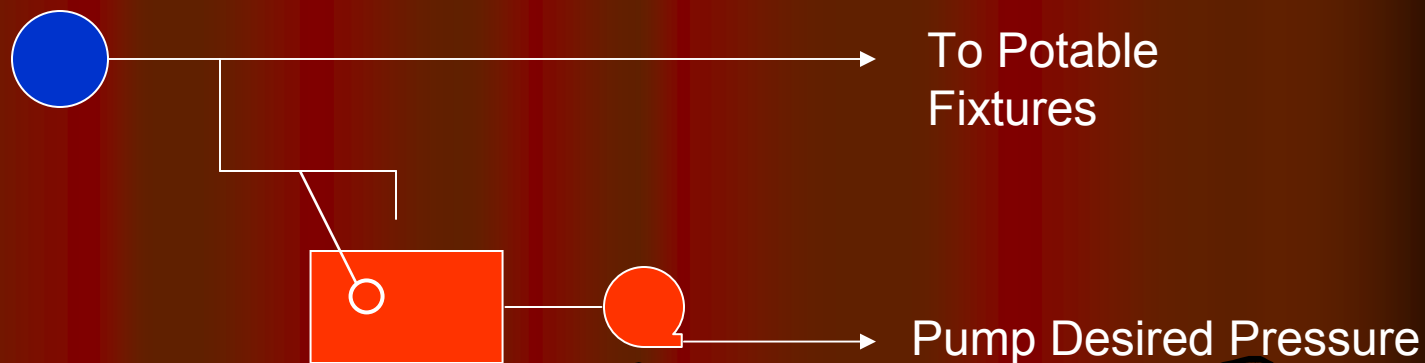
Responsibility for Water Quality



Ohio EPA May 1, 2003

Residential Booster Pumps – 3745-95-07 (A)

- “No person shall install or maintain a water service connection to any one, two, or three family dwelling where a booster pump has been installed, unless an air-gap separation is provided”



Ohio EPA May 1, 2003

Residential Booster Pumps – 3745-95-07 (A)

- NO, WAIT A MINUTE, BACK UP
- Ohio EPA is Rewriting Their Backflow Manual
- Ohio DOC Advisory Board Meeting 3/3/09
- Ohio EPA will Re-Evaluate This Rule

Ohio EPA Code

Yard Hydrants – 3745-95-09 (A)

- Self-Draining Yard Hydrants are Prohibited
- Only Sanitary Yard Hydrants that Meet ASSE Standard 1057 (Freeze Resistant Yard Hydrants with Backflow Prevention) are Acceptable

Ohio EPA Code

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Water-Operated Sump Pumps

- Ohio EPA Says Water Supplier Decides
- Some have Outlawed
- Some Require Air-Gap Separation
- Some Require RP

Water-Operated Sump Pumps

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Ohio EPA Code Changes

Booster Pump Controls – 3745-95-07 (B)

- Any Booster Pump Taking Direct Suction From Public Water Main Must be Prevented from Creating Backsiphonage
- The Low-Suction Pressure Cut-Off Controller Requirement is Rescinded for new Fire Pumps
- Only a Minimum Pressure Sustaining Valve will be Accepted on a new Fire Pump
- A Domestic Booster Pump must still have a Low-Suction Pressure Cut-off Control

Ohio DOC October 23, 2008

Thermal Expansion Tank-Less Hot Water Heaters

- A Thermal Expansion Tank is not Required for an Tank-Less Hot Water Heater since there is No Stored Water and the Water is only Heated on Demand
- However Some Manufacturers do Require Them for Warranty Purposes if there is More than 1 Unit or if there is a Hot Water Recirculation System

In Conclusion

- Hold Off – Residential Booster Pumps, Self Draining Yard Hydrants & Water Operated Sump Pumps
- A new Fire Pump needs a Minimum-Pressure Sustaining Valve
- A new Domestic Pump needs a Low-Suction Pressure Cut-Off Controller
- An On-demand Tank-less Hot Water Heater does not need Thermal Expansion Protection