



# Chilson/Eagle Lake Water System: UV Systems

# Proposed Options: Use UV Disinfection

- ▶ Year Analyzed: 2009-2010
- ▶ Advantages:
  - ▶ UV Disinfection provide additional disinfection for key containments beyond simple chlorination for systems with filtration avoidance
- ▶ Disadvantages:
  - ▶ Addition of UV system and required equipment will reduce pressure in the system and cause already poor conditions at the divide to worsen or fail while simulations increasing pressure upstream, causing water main breaks
  - ▶ One violation of the system revokes filtration avoidance
  - ▶ Does not by itself provide residual in the main
  - ▶ Does not by itself deal with the condition of Gooseneck Pond, the Gooseneck Pond transmission main, and/or the water mains
  - ▶ Land availability for facility
- ▶ Conclusion
  - ▶ Even if Gooseneck Pond was allowed to be used as a source, which it is not, UV is part of a treatment system, not a treatment system by itself.
  - ▶ UV disinfection was considered in the past and the conclusion back then was that it was only a band-aid on the system and would not provide a system that would meet current and future regulations.

# Proposed Options: Use UV Disinfection and/or Filters in Individual Homes

- ▶ Year Analyzed: Various
- ▶ Advantages:
  - ▶ None
- ▶ Disadvantages:
  - ▶ Municipalities must provide treated water to homes
- ▶ Conclusion
  - ▶ Municipalities cannot provide raw water to a home, by providing water, the Town agrees to treat the water to meet current standards. This is not an option the Town can consider.