



Parris N. Glendening
Governor

Jane T. Nishida
Secretary

MEMORANDUM

TO: Regional Consultants and Local Environmental Health Directors

THRU: Jane Gottfredson, Program Manager *JCG*
Groundwater Permits Program

FROM: Barry Glotfelty, R.S., Regional Consultant *BG*
Groundwater Permits Program

SUBJECT: Technical Advisory

DATE: March 27, 1997

Lateral Turn-ups on Pressure Distribution Networks

Research conducted by the Groundwater Permits staff in 1996 indicates that clogging is occurring in some pressure distribution networks. Although, to date this condition has not necessitated the maintenance of a significant number of these networks, the possibility exists that at least some of these networks will require some maintenance in the future in the form of flushing or cleaning of the distribution laterals. Previous guidance has been to install one turn-up on the lateral the greatest distance from the pump for the purpose of measuring the pressure head in the system. This construction allows only the lateral that has this turn-up to be easily accessible for flushing or cleaning should the need arise. In the interest of constructing systems that will be easy to maintain, **future construction of pressure distribution networks should include an accessible turn-up on all laterals in the system.** These turn-ups should be fitted with screw caps. **Because lateral turn-ups are susceptible to damage - especially from lawn mowing equipment - they should be cut off at or slightly below grade and be fitted with a sleeve of a larger diameter pipe that also terminates in a screw cap at final grade.** This will allow for both easy access to all of the laterals in a network and provide protection for the laterals as well. Eliminating from systems a pipe that sticks out above grade may also lead to greater acceptance of pressure distribution systems in general.

BG:je

cc: J. L. Hearn
Dane Bauer
George Keller