

flow level of the tank or pond, rather than into the discharge pipe of a well pump connected directly to the water system.

c. Injection of fertilizer into the well pump discharge pipe is acceptable, providing it is done with an approved positive displacement type of chemical feed pump at a point following a barometric pipe loop extending at least 30 feet above the highest part of the irrigation system; or a reduced pressure backflow preventer made to and meeting AWWA C506-78 or ASSE 1013 standards; or an underwriters laboratories (UL) approved check valve and preferably a double UL check valve installed in the well pump discharge pipe at the well site. The chemical feed pump shall be shut off at least 5 minutes prior to shutting off of the well pump so as to purge the chemical from the water system.

2. Injection of pesticides. a. The injection of pesticides into a well or well pump suction is prohibited.

b. The injection of pesticides into a water system should preferably be done in the discharge pipe of a booster pump delivering water from a concrete or steel tank or sealed pond into which the well pump discharges with a free air-break from a point at least 2 discharge pipe diameters above the overflow level of the tank or pond.

c. Injection of pesticides into the well pump discharge pipe is prohibited, unless the injection is done with an approved positive displacement type of chemical feed pump at a point following a barometric pipe loop extending to a minimum height of 30 feet above the highest point in the irrigation system or an approved reduced pressure backflow preventer made to and meeting AWWA C506-78 or ASSE 1013 standards, installed in the well pump discharge pipe at the well site but subject to the following conditions:

1) That the department of natural resources shall be notified by the owner of an irrigation system of the installation of a reduced pressure backflow preventer in such system.

2) The backflow preventer shall be installed above flood level and the location shall be accessible for testing, inspection and maintenance.

3) The reduced pressure backflow preventer shall not be bypassed or made inoperative nor shall it be removed from an irrigation system in which pesticides continue to be injected into the pump discharge pipe.

4) An annual testing of the reduced pressure backflow preventer shall be conducted with a differential pressure gauge testing method for reduced pressure backflow preventers by the local plumbing inspector or a person certified by the state department of health and social services, and the owner of the system shall supply a report of the test results to the department before each irrigation season.

5) Pesticide application and use done in compliance with this section must also conform to rules concerning application and use of pesticides contained in section Ag 29.10, Wis. Adm. Code.

3. Standards and tests. a. Copies of the above mentioned ASTM, ASSE and UL standards are available for inspection at the office of the department of natural resources, the secretary of state, or the office of the revisor of statutes, and respective copies may be obtained for per-

sonal use from the American Society of Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103; the American Society of Sanitary Engineers, 960 Illumination Building, Cleveland, Ohio 44113 and Underwriters Laboratories, Inc., 207 East Ohio Street, Chicago, Illinois 60611.

b. Lists of approved reduced pressure backflow preventers, check valves and positive displacement feed pumps are available for inspection at the offices of the department of natural resources.

c. Certification as a tester may be obtained from the Wisconsin Department of Health and Social Services, Washington Square Building, 1414 E. Washington Avenue, Madison, Wisconsin following successful completion of one of the training courses provided by the University of Wisconsin Extension, Madison, Wisconsin or the University of Southern California School of Engineering, University Park, Los Angeles, California 90007.

History: Cr. Register, June, 1975, No. 234, eff. 10-1-75; cr. (8), Register, April, 1978, No. 268, eff. 5-1-78; am. (8) (b), Register, April, 1980, No. 292, eff. 5-1-80; am. (8) (b) 1. c., Register, August, 1980, No. 296, eff. 9-1-80.

NR 112.16 Samples and reports. (1) **WATER SAMPLES.** Upon completion of the well construction, except those not intended as a source of water supply for drinking or food processing purposes, the well driller shall collect a water sample from the well, by use of a pump, for bacteriological analysis. Likewise, upon completion of the installation of pumping equipment and disinfection and flushing of the well and water system, except those not intended as a source of water supply for drinking or food processing purposes, the pump installer shall collect a sample from the well for bacteriological analysis. Exceptions to these procedures will be permitted when the well driller also installs the pump, in which case submission of the required sample upon completion of the pump installation will be considered satisfactory compliance. Where unforeseeable contamination is encountered, the initial construction of a well will be considered complete if the construction conforms to provisions of this chapter. The water samples shall be submitted either to the state laboratory of hygiene or to an independent laboratory certified under the state laboratory certification program to do bacteriological examination of water; provided that such certified laboratory will file the water sample data sheet and a copy of the water sample analysis report with the department within 20 days following completion of the analysis.

(2) **WELL CONSTRUCTION REPORTS TO DEPARTMENT.** Within 20 days after completing the construction or reconstruction of a well the constructor thereof shall submit a construction report to the department upon a form prescribed and furnished by the department.

(3) **WELL CONDITIONING REPORT TO DEPARTMENT.** Within 20 days after completing any well blasting or chemical treatment operation the well driller, pump installer or other supervisor shall submit a complete report as to methods used and the results achieved for cases covered by the section. (Note: See NR 112.15 (4) and (5) (a).)

(4) **REPORTS TO OWNERS.** The well driller and pump installer shall supply the owner or his agent with a copy of the laboratory analyses report for the sample submitted to the laboratory at completion of their respec-