

**567—55.4(455B) Definitions.** The following definitions shall apply to this chapter:

*“Aquifer storage and recovery (ASR)”* means the injection and storage of treated water in an aquifer through a permitted well during times when treated water is available and withdrawal of the treated water from the same aquifer through the same well during times when treated water is needed.

*“Contiguous”* means directly adjacent or touching along all or part of one side of a legally defined piece of property. Tracts of land involved in the same water supply and separated only by separators such as roads, railroads, or bike trails are deemed contiguous tracts.

*“Displacement zone”* means the three-dimensional area of dispersion into which treated water is injected for storage, subject to later recovery.

*“Drawdown”* means the decrease in water level at a pumping well due to the action of the pump.

*“Limited registration”* means a one-year written authorization for a nonrecurring use of water for the purpose of forecasting and testing the ASR well system, to include cyclic test pumping as necessary.

*“Mechanical integrity”* means any structural or material defect in the ASR well or well casing or appurtenances which will prevent or materially impair the injection or pumping of water (to and from) within an aquifer or contribute to aquifer contamination or impairment.

*“Permit”* means a written authorization issued to a permittee by the department for the storage of treated water in an existing aquifer or the subsequent withdrawal of treated water from an existing aquifer. The permit specifies the quantity, duration, location, and instantaneous rate of this storage or withdrawal.

*“Permittee”* means a water supply system which obtains a permit from the department authorizing the injection of and possession by storage of treated water in an aquifer, withdrawal of this water at a later date, and the actual beneficial use of the water.

*“Receiving aquifer”* means the aquifer into which treated water is injected under terms of an ASR permit.

*“Recovered water”* means water which is recovered from storage within the displacement zone under terms of an ASR permit.

*“Stored water”* means injected treated potable water which is stored in a receiving aquifer within the displacement zone under terms of an ASR permit.

*“Treated water”* for the purposes of this chapter means water which has been physically, chemically, or biologically treated to meet national primary and secondary drinking water standards and is fit for human consumption as defined in 567—Chapters 40 to 43, Iowa Administrative Code.

*“Zone of influence”* means a circular area surrounding a pumping water well where the water table has been measurably lowered due to the action of the pump.