Isolation Distances From a Water-Supply Well

Minnesota Rules, Chapter 4725
Rules Relating to Wells and Borings

The isolation distances below are from Minnesota Rules, chapter 4725. Distances must be measured horizontally from the water-supply well. Minnesota Statutes, section 103I.205, subdivision 6, prohibits constructing, placing, or installing an actual or potential contaminant source from a well that is less than the minimum distance prescribed by rule. The minimum isolation distance must be maintained between a new well and a contamination source, even if the contamination source is no longer in use. An isolation distance is not required if the contamination source and any related contaminated soil have been removed. Additional information and explanations can be found in the Rules Handbook, A Guide to the Rules Relating to Wells and Borings or contact the Well Management Section at the number above.

Absorption area of a soil dispersal system
- average flow is greater than 10,000 gallons/day: 300 feet
- average flow 10,000 gallons/day or less: 150 feet

Agricultural chemical
- tank or container with 25 gallons or more or 100 pounds or more dry weight, or equipment filling or cleaning area without safeguards: 150 feet
- storage or equipment filling or cleaning area with safeguards: 100 feet
- buried piping: 50 feet
- multiple tanks or containers for residential retail sale or use, no single tank or container exceeding, but aggregate volume exceeding 56 gallons or 100 pounds dry weight: 50 feet

Anhydrous ammonia tank: 50 feet

Animal
- feedlot, unroofed, 300 or more animal units: 100 feet
- feedlot, more than 1.0, but less than 300 animal units: 50 feet
- building or poultry building, including a horse riding area, more than 1.0 animal unit: 50 feet
- rendering plant: 50 feet
- feeding or watering area within a pasture, more than 1.0 animal unit: 50 feet
- area to bury more than one animal unit: 50 feet
- building, feedlot, confinement area, or kennel, 0.1 to 1.0 animal unit: 20 feet

Building, building projection, deck, overhang, permanent structure: 3 feet

Cesspool: 75 feet

Cistern or reservoir, buried, nonpressurized water supply: 20 feet

Commercial compost site: 50 feet

Construction or demolition debris disposal area: 50 feet

Cooling water pond, industrial: 50 feet

Deicing chemicals, bulk road: 50 feet

Drainfield (see Absorption area)

Dry well (sewage): 75 feet

Electric transmission line: 10 feet

Electrical transformer storage area, oil-filled: 50 feet

Elevator boring, not conforming to rule: 50 feet

Elevator boring, conforming to rule: 20 feet

Fertilizer chemigation tank, safeguarded, from irrigation well only: 20 feet

Floor drain, grate, or trough connected to a buried sewer: 50 feet

if buried sewer is air-tested, approved materials, serving one building, or two or less single-family residences: 20 feet

Frost-proof yard hydrant or discharge of a frost-proof hydrant draining into the soil, fire hydrant or flushing hydrant: 10 feet

Gas (flammable or volatile) pipe: 10 feet

Grave or mausoleum: 50 feet

Gray-water dispersal area: 50 feet

Hazardous substance
- tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight, without safeguards: 150 feet
- tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards: 100 feet
- buried piping: 50 feet
- multiple storage tanks or containers for residential retail sale or use, no single tank or container exceeding 56 gallons or 100 pounds, but aggregate volume exceeding: 50 feet

Horizontal ground source closed loop heat exchanger buried piping: 50 feet

Horizontal ground source closed loop heat exchanger buried piping and horizontal piping, approved materials and heat transfer fluid: 10 feet

Household solid waste disposal area, single residence: 50 feet

Interceptor, including a flammable waste or sediment: 50 feet

Land spreading area for sewage, septage, or sludge: 50 feet

Landfill or dump, mixed municipal solid waste from multiple persons: 300 feet

Landfill, permitted demolition debris: 300 feet

Leaching pit: 75 feet

Liquid propane (LP) tank: 10 feet
Minneapolis, MN 55401

A sensitive water-supply well must be located at least twice the indicated distance.

A sensitive water-supply well is a well with less than 50 feet of watertight casing, and which is not cased below a confining layer or confining materials of at least 10 feet in thickness.

A community public water-supply well must be a minimum of 50 feet from this contamination source.

A well or boring may not be constructed inside a building except as provided for by Minnesota Rules, part 4725.2175.

A well or boring may be located between 5 and 10 feet of an electric transmission line, gas pipe or LP tank if the well or boring is placarded, and work is not performed on the well or boring unless the electric line is deenergized and grounded or shielded, and the LP tank does not contain flammable gas.

The 20-foot distance applies only to an irrigation well and a fertilizer chemigation supply tank meeting the requirements of Minnesota Rules, chapter 1505.

A community public water-supply well must be a minimum of 50 feet from a petroleum tank or container with a capacity between 56 and 1,100 gallons, unless the tank or container is used to fuel emergency pumping equipment and is located in a room or building separate from the community well; and is of double-wall construction with leak detection between walls; or is protected with secondary containment.

Additional Isolation Distances for Community Public Water-Supply Wells

<table>
<thead>
<tr>
<th>Distance</th>
<th>Source</th>
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<tbody>
<tr>
<td>100 feet</td>
<td>Minnesota Statutes, Chapter 103I Wells, Borings, and Underground Uses (<a href="http://www.revisor.mn.gov/statutes/cite/103">www.revisor.mn.gov/statutes/cite/103</a>).</td>
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<tr>
<td>150 feet</td>
<td>Minnesota Statutes, Chapter 103I Wells, Borings, and Underground Uses (<a href="http://www.revisor.mn.gov/statutes/cite/103">www.revisor.mn.gov/statutes/cite/103</a>).</td>
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<tr>
<td>300 feet</td>
<td>Minnesota Statutes, Chapter 103I Wells, Borings, and Underground Uses (<a href="http://www.revisor.mn.gov/statutes/cite/103">www.revisor.mn.gov/statutes/cite/103</a>).</td>
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