Well Management Section Environmental Health Division 625 North Robert Street P.O. Box 64975 St. Paul, Minnesota 55164-0975 651-201-4600 or 800-383-9808 health.wells@state.mn.us www.health.state.mn.us/wells



Isolation Distances from a Water-Supply Well

Minnesota Rules, Chapter 4725 Rules Relating to Wells and Borings

Drainfield (see Absorption area)

The isolation distances below are from Minnesota Rules, chapter 4725. Distances must be measured horizontally from the water-supply well. Minnesota Statutes, section 1031.205, 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.

Absorption area of a soil dispersal system average flow is greater than 10,000 gallons/day	feet1
tank or container with 25 gallons or more or 100 pounds or more dry weight, or equipment filling or cleaning area without safeguards	feet feet feet
100 pounds dry weight	
Animal feedlot, unroofed, 300 or more animal units	feet ¹ feet feet feet feet feet
Building, building projection, deck, overhang, permanent structure3	feet ³
Cesspool.75Cistern or reservoir, buried, nonpressurized water supply.20Commercial compost site.50Construction or demolition debris disposal area.50Cooling water pond, industrial.50Deicing chemicals, bulk road.50	feet feet feet ¹ feet ¹

Dry well (sewage)	75	feet1
Electric transmission line	50	feet
Elevator boring, not conforming to rule		
Fertilizer chemigation tank, safeguarded, from irrigation well only	20	feet ⁵
connected to a buried sewer	0	feet
if buried sewer is air-tested, approved materials, serving one building, or two or less single-family residences	20	feet²
Frost-proof yard hydrant or discharge of a frost-proof hydrant draining into the soil, fire hydrant or flushing hydrant	LO	feet
Gas (flammable or volatile) pipe	LO	feet4
Grave or mausoleum5		
Gravel pocket or French drain for clear water drainage		
Gray-water dispersal area	0	feet1
Hazardous substance tank or container, above ground or underground, 56 gallons or more,		
or 100 pounds or more dry weight, without safeguards	50	feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	00	feet
tank or container, above ground or underground, 56 gallons or more, or	00	feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	00	feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	00 50	feet feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	00 50 50	feet feet feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50	feet feet feet feet²
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50	feet feet feet feet²
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50 50	feet feet feet feet² feet¹
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50 10 50	feet feet feet feet² feet¹ feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50 50 50 50 50 50	feet feet feet feet feet feet feet feet
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50 50 50 50 50 50 50	feet feet feet² feet¹ feet¹ feet¹ feet¹ feet¹
tank or container, above ground or underground, 56 gallons or more, or 100 pounds or more dry weight with safeguards	50 50 50 50 10 50 50 50 50 75	feet feet feet² feet¹ feet¹ feet¹ feet¹ feet¹ feet¹

Manure (liquid) storage basin or lagoon unpermitted or noncertified	
approved concrete or composite liner	
Manure (solid) storage area, not covered with a roof100	reet-
Ordinary high water level of a stream, river, pond, storm water retention pond, lake, or reservoir35	feet²
Petroleum	
tank or container, 1100 gallons or more, without safeguards150	feet
tank or container, 1100 gallons or more, with safeguards	
tank or container, buried, between 56 and 1100 gallons50	
tank or container, not buried, between 56 and 1100 gallons20	
buried piping50	
Petroleum or crude oil pipeline to a refinery or distribution center100	
Pit or unfilled space more than 4 feet in depth20	
Pollutant or contaminant that may drain into the soil50	
Privy, nonportable50	
portable (privy) or toilet	
Sand filter, watertight; peat filter; or constructed wetland50	
Scrap yard50	feet
Seepage pit75	feet1
Septic tank50	feet
Sewage holding tank, watertight50	feet
Sewage sump	
capacity 100 gallons or more50	feet
capacity less than 100 gallons, tested, conforming to rule20	feet2
Sewage treatment device, watertight50	feet
Sewer, buried	
collector, municipal, serving a facility handling infectious or pathological	
wastes, open-jointed or unapproved materials50	feet
approved materials, tested, serving one building, or two or less	
single-family residences20	feet ²
Solid waste transfer station50	
Storm water drain pipe, 8 inches or greater in diameter	
Swimming pool, in-ground20	
Unused, unsealed well or boring50	feet
Vertical heat exchanger (vertical) piping, conforming to rule35	feet ²
horizontal piping conforming to rule10	
Wastewater rapid infiltration basin, municipal or industrial300	
Wastewater spray irrigation area, municipal or industrial150	teet1

Wastewater stabilization pond	
municipal, 500 or more gallons/acre/day of leakage	eet1
municipal, less than 500 gallons/acre/day of leakage 150 fe	eet1
industrial	eet1
Wastewater treatment unit tanks, vessels and components (package plant) 100 fe	eet
Water treatment backwash disposal area	eet1
Water treatment backwash holding basin, reclaim basin, or surge tank	
with a direct sewer connection	eet
with a backflow protected sewer connection	eet
Additional Isolation Distances for Community Public Water-Supply Wells	
Highest water or flood level	eet
Property line, unless legally controlled through an easement	eet

- ¹ 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.
- ² A community public water-supply well must be a minimum of 50 feet from this contamination source.
- ³ A well or boring may not be constructed inside a building except as provided for by Minnesota Rules, part 4725.2175.
- 4 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.
- ⁵ The 20-foot distance applies only to an irrigation well and a fertilizer chemigation supply tank meeting the requirements of Minnesota Rules, chapter 1505.
- ⁶ 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.

Online Information

- Well Management Program (www.health.state.mn.us/wells).
- Minnesota Rules, Chapter 4725 Wells and Borings (www.revisor.mn.gov/rules/4725/).
- Minnesota Statutes, Chapter 103I Wells, Borings, and Underground Uses (www.revisor.mn.gov/statutes/cite/103I).

To obtain this information in a different format call 651-201-4600. Printed on recycled paper.

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