

TABLE A
MINIMUM SEPARATION DISTANCE REQUIREMENTS BETWEEN POTABLE OR NONPOTABLE
WELLS, RESERVOIRS, SPRINGS AND POSSIBLE SOURCES OF CONTAMINATION

New installations shall meet the separation requirements in the far-right column. Existing installations shall meet the separation requirements in effect at the time of construction, those in effect at the time of installation of the possible source of contamination, if later, or to the requirements adopted on October 1, 1994.

Source	Prior to@ Oct. 1975	Oct. 1975 to Oct. 1981	Oct. 1981 to Jan. 1991	Feb. 1991 to Oct. 1994	After Oct. 1994
Absorption Unit (field), soil	50'	50'	50'	50'	50'
Air shaft—heating/air conditioning (Vertical, Below grade)	None	None	None	None	25'
Animal Barn Pen with Concrete Floor	None** (25/20)**	25'	25'	25'	25'
Animal Shelter (not including small pet shelter housing 3 or fewer adult pets)	None** (50/25)**	50'	50'	50'	50'
Animal Yard—Includes Calf Hutch (but not residential lot dog kennel enclosing 3 or fewer adult pets)	None**	50'	50'	50'	50'
Barn Gutter—Liquid—Tight	None** (25/18)**	25'	25'	25'	25'
Building Overhang (from centerline of well)	2'	2'	2'	2'	2'
Cemetery Grave Sites	None*	100'	100'	50'	50'
Cistern	10'	10'	10'	8'	8'
Coal Storage (greater than 500 tons)	None*	None*	None*	1,200'	1,200'
Composting Site (See Solid Waste Processing Facility)	None	None	None	None	250'
Discharge to ground from a Water Treatment Device	None	None	None	25'	25'
Ditch—Edge of	None	None	None	None	25'
Doghouse or kennel housing 3 or fewer adult pets on residential lot	None	None	None	50'	8'
Downspout Outlet	10'	10'	10'	8'	8'
Drain—Sewerage (having pipe conforming to ch. SPS 384) (Buried)	10'	8'	8'	8'	8'
Drain—Sewerage (not having pipe conforming to ch. SPS 384) (Buried)	10'	25'	25'	25'	25'
Drain (any material) (Buried)					
Clear Water Waste	10'	10'	10'	8'	8'
Building—Foundation	10'	10'	10'	8'	8'
Building—Foundation—Sewer Connected	15'	15'	15'	8'	8'
Drillhole used for the underground placement of any waste, surface water or any substance as defined in s. 160.01 (8), Stats.	None	None	None	None	100'
Fertilizer or Pesticide, any size Storage Tank (Buried tank or surface tank > 1,500 gal.)	None	None	None	100'	100'
Filter Strip	None	None	None	50'	50'
Fuel Oil Tank—Buried	None*	100' (25' Allowed for Private Res. Lots Only)	100' (25' Allowed for Private Res. Lots Only)	100' (Including any associated buried piping) (25' allowed for those serving single family residences)	100' (Including any associated buried piping) (25' allowed for those serving single family residences)
Fuel Oil Tank—Surface (>1,500 gallons) (including any associated buried piping)	None*	None*	None*	100'	100'
Fertilizer or Pesticide (Dry) Storage Area or Building (more than 100 pounds)	None	None	None	None	100'
Gasoline or Other Petroleum or Liquid Product Tank -- Buried (not including L.P. tanks)	None*	100'	100'	100' (Including any associated buried piping)	100' (Including any associated buried piping)
Gasoline or Other Petroleum or Liquid Product Tank—Surface (>1,500 gallons including any associated buried piping)	None*	None*	None*	100'	100'
Glass Lined Feed Storage Facility (Harvester—Type Silos)	None**	25'	25'	50'	50'

Source	Prior to [@] Oct. 1975	Oct. 1975 to Oct. 1981	Oct. 1981 to Jan. 1991	Feb. 1991 to Oct. 1994	After Oct. 1994
Grease Interceptor (Trap) (Buried)	25'	25'	25'	25'	25'
Hazardous Waste Treatment Facility Regulated by DNR	None*	None*	None*	1,200'	1,200'
Holding Tank (Sewage)	None	25'	25'	25'	25'
Infiltration basin, Stormwater	None	None	None	None	100'
Kennel on residential lot enclosing 3 or fewer adult pets	None	None	None	50'	8'
Kennel, other than above	None	None	None	50'	50'
Lagoon, Treatment (See liquid waste disposal system)	—	—	—	—	—
Lake Shoreline (Measured to the edge of the floodway)	None*	25'	25'	25'	25'
			(60' For Schools and High Cap. Wells)		
Landfills (existing, proposed or abandoned) (Distance to Nearest Fill Area of abandoned landfills if Known; Otherwise to the Property Line)	None*	400 yards	400 yards	1,200'	1,200'
Lift Station##				##	100'
Liquid Waste Disposal System	None	250'	250'-300'	250' #	250' #
Manure Hopper or Reception Tank—Liquid-Tight	None*	75'	75'-150'	50'	50'
Manure Loading Area	None	None	None	None	50'
Manure Stack	None*	100'	100'-175'	250'***	250'***
Manure Stack,—Temporary	None	100'	100'	250'	150'
Manure—Storage Structure (Earthen, Excavated or Non-liquid tight)	None*	250'	250'-300'	250'***	250'***
Manure Storage Structure (Fabricated, Liquid-Tight)	None*	100'	100'-175'	100'	100'
Manure—Storage Basin—Liquid-Tight Concrete Floor with an Acceptable Drainage Facility	None*	100'	150'-300'	Now in category of Manure Storage Structure	Now in category of Manure Storage Structure
Mound System (Measured to the toe of the mound)	50'	50'	50'	50'	50'
Nonpotable Well	None*	None*	None*	8'	8'
Pesticide or Fertilizer (Dry) Storage Area or Building (More than 100 Pounds)	None	None	None	None	100'
Pesticide or Fertilizer Storage Tank (not buried)—less than 1,500 gallons (distance only for nonpotable wells)	None	None	None	8'	8'
Pesticide or Fertilizer Storage Tank—Buried tank, any size, or surface tank >1,500 gal.)	None	None	None	100'	100'
Pet Waste Pit Disposal Unit	None*	50'	50'	50'	50'
Pits—Noncomplying	None	10'	10'	8'	8'
			(20' For Schools, WWTP's, and High Capacity—including Approved Pits)		
Plastic Silage Storage and Transfer Tube	None	None	None	8'	8'
Pond, Stormwater detention (Edge of)	None	None	None	None	25'
Pond, treatment (See liquid waste, disposal system)					
Privy	50' (Sewage Disposal Units)	50'	50'	50'	50'
Quarry (See s. NR 812.12 (16) for well casing depth requirements for wells within 1,200 feet of a quarry.)					
Reservoir—Noncomplying	10' (Cistern)	10'	10'	8'	8'
Ridge and Furrow System (See liquid waste disposal system)					
River or Stream Edge (Measured to the edge of the floodway)	None*	25'	25'	25'	25'
			(60' For Schools and High Cap. Wells)		
Salt or Deicing Material Storage Area (Including structure and area surrounding where material is transferred to vehicles)	None*	None*	None*	250'	250'
Salvage Yard	None*	None*	None*	250'	250'
Septic Tank	25'	25'	25'	25'	25'
Sewer (ch. SPS 384 Materials) (Buried)					
—Manure/Gravity	8'	8'	8'	25'	25'
—Manure/Pressurized	8'	8'	25'	25'	25'
—Sanitary or Storm Building/Gravity	8'	8'	8'	8'	8'

Source	Prior to [@] Oct. 1975	Oct. 1975 to Oct. 1981	Oct. 1981 to Jan. 1991	Feb. 1991 to Oct. 1994	After Oct. 1994
—Sanitary Building/Pressurized	8'	25'	25'	25'	25'
—Sanitary Collector					
(Serving ≤ 4 living units or ≤ 6" diameter)	8'	50'	50'	50'	25'
—Sanitary Collector					
(Serving > 4 living units or > 6" diameter)	8'	50'	50'	50'	50'
—Influent	50'	50'	50'	50'	50'
—Storm Collector					
(≤ 6" diameter)	8'	50'	50'	50'	25'
—Storm Collector					
(> 6" diameter)	8'	50'	50'	50'	50'
Sewer (not ch. ILHR 84 Materials) (Buried)					
—Manure/Gravity	25'	25'	25'	25'	25'
—Manure/Pressurized	25'	50'	50'	50'	50'
—Sanitary Building/gravity	25'	25'	25'	25'	25'
—Sanitary Building/Pressurized	25'	25'	25'	25'	50'
—Storm Building	25'	25'	25'	25'	8'
—Sanitary Collector	50'	50'	50'	50'	50'
—Storm Collector	25'	50'	50'	50'	50'
—Influent	50'	50'	50'	50'	50'
Shoreline—Lake, River or Stream (Measured as indicated in sub. (4) (b) 7.)	None*	25'	25' (60' For Schools and High Capacity Wells)	25'	25'
Silage Storage, Earthen Trench or Pit	None*	100'	100'–175'	250'	250'
Silage Storage Structure (Fabricated liquid-tight) (In-ground or surface)	None	None	None	None	100'
Silage Storage—Surface, Uncovered	None	None	None	None	100'
Silage Storage Tube (Plastic)	None	None	None	8'	8'
Silo With Pit	None**	50'	50'	50'	50'
Silo Without Pit But With Concrete Floor and Drain	None**	25'	25'	50'	50'
Single application landspreading of petroleum-contaminated soil					250'
Sludge Landspreading or Drying	None*	200'	200'	250'	250'
Soil Absorption Unit (< 8,000 gal/day, includes alternate unit)	50'	50'	50' (200' for schools as of 1978)	50' (200' for schools)	50' (200' for schools)
Soil Absorption Unit (≥ 8,000 gal/day, existing or abandoned)	50'	50'	50' (200' for schools as of 1978)	250'	250'
Solid Waste Processing Facility (Including composting facilities)	None	None	None	None	250'
Solid Waste Site (Distance to Nearest Fill Area or Proposed Fill Area If Known; Otherwise to the Property Line)	None	400 yards	400 yards	1,200'	1,200'
Solid Waste Transfer Facility	None	None	None	None	250'
Spray Irrigation Waste Disposal Site (See liquid waste disposal system)					
Stormwater detention pond or basin	None	None	None	None	25'
Stormwater infiltration basin	None	None	None	None	100'
Sump—Watertight clear water	None	None	None	8'	8'
Sump—Wastewater (Watertight) (form. cast-iron equiv.)	None*	8'	8'	25'	25'
Sump—Wastewater (not watertight or equiv. to cast iron)	None*	25'	25'	25'	25'
Swimming Pool (from edge of water)	None*	25' (Below ground)	25' (Below ground)	25' (Below ground)	8' (above or below ground)
Temporary Manure Stack	None	100'	100'	250'	150'
Wastewater Treatment Plant Effluent Pipe	None	None	None	50'	50'
Wastewater Treatment Plant Structure, Conveyance or Treatment Unit	None*	None	150'	100'	100'

Source	Prior to [@] Oct. 1975	Oct. 1975 to Oct. 1981	Oct. 1981 to Jan. 1991	Feb. 1991 to Oct. 1994	After Oct. 1994
Well approved for underground placement of any waste, surface water or any substance as defined in s. 160.01, Stats.	None	None	None	None	100'
Yard Hydrant	None	10'	10'	8'	8'

[@]The minimum separating distance between a well and a collector sewer serving more than 4 living units or larger than 6 inch diameter is 50 feet regardless of whether the well or the sewer was installed first. However for such sewers less than 16-inch diameter, wells may be located or sewers installed such that a well is less than 50 feet, but at least 25 feet from gravity collector sewers smaller than 16 inches in diameter or from force main collector sewers 4 inches or smaller in diameter provided that within a 50-foot radius of the well the installed sewer pipe meets the allowable leakage requirements of AWWA C600 and the requirements for water-main equivalent type pipe as follows:

—For sewers $\geq 4"$ diameter, but $< 16"$ diameter:

[@]PVC pipe 4" diameter, but $\leq 12"$ diameter shall meet AWWA C900 with elastomeric joints having a standard dimension ratio of 18 or less;

[@]PVC pipe $> 12"$ diameter, but $< 16"$ diameter shall meet AWWA C905 with elastomeric joints having a standard dimension ratio of 18 or less.

[@]Ductile iron pipe shall meet AWWA C115 or AWWA C151 having a thickness class 50 or more.

—For sewers $< 3"$ diameter, the pipe shall be any rigid pipe in the ch. SPS 384 "Table for Pipe and Tubing for Water Services and Private Water Mains," including approved ABS, brass, cast iron, CPVC, copper, (not including type M copper), ductile iron, galvanized steel, polybutylene (PB), polyethylene (PE), PVC, or stainless steel pipe.

**"None" Although there were no minimum separation distances required by the code between these possible sources of contamination and a well or reservoir prior to 1975, and in some cases, prior to 1981, it is strongly recommended that the present standard minimum separation distance requirements be met whenever possible.

**Distances were developed under the Public Health Service Grade A Milk Ordinance and have been used by the department of agriculture, trade and consumer protection field inspectors.

***Variances from these separating distances may be granted for earthen manure storage and temporary manure stacks meeting specifications of Soil Conservation Service Standards No. 425 and 312, respectively.

#Variances from this minimum separating distance may be granted for treatment ponds or for storage or treatment lagoons constructed and maintained to the requirements of an approval granted under ch. NR 213.

##After Feb. 1, 1991 and prior to October 1, 1994 the minimum separating distance between a well or reservoir and a lift station is based on the presence of a sewer force main at the lift station.

[@] There are several code revisions prior to 1975. The dates of these revisions and the minimum separating distances were as follows:

Source	April 24, 1936	March 1939	July 1951	April 10, 1953	May 1, 1971
Building Overhang	2'	2'	2'	2'	2'
Cistern	None	None	10'	10'	10'
Downspout	None	None	10'	10'	10'
Drain					
—Building Foundation	10'	10'	10'	10'	10'
—Sewer Connected Building Foundation	10'	10'	15'	15'	15'
—Clear Water	None	None	10'	10'	10'
—Cast Iron (With Lead Joints)	10'	10'	10'	10'	10'
Grease Trap (Watertight)	None	None	25'	25'	25'
Septic Tank	None	None	25'	25'	25'
Sewage Disposal Unit (Absorption Field)	None	None	50'	50'	50'
Sewer					
—Cast Iron (With Lead Joints)	10'	10'	8'	8'	8'
—Not Cast Iron or equivalent	25'	25'	25'	25'	25'

JOINTS
SDR ≤ 18