



Map Explanation

Water sample and aquifer symbols

Symbol color indicates tritium age of water sample.
(see Figure 5 in the report for geologic unit correlation)

- Buried sand
- ss (ts, ms, ou2)
 - is3
 - is4
 - cs2
 - is5
 - cs3
 - hs
 - brs
 - scs
 - fs1
 - mls
 - fs2
 - ebs
 - es
 - vs
 - suu
- Bedrock
- Little Falls Formation

Tritium age

Symbol color indicates tritium age of water sample.

- Recent: water entered the ground since about 1953 (8 to 15 tritium units [TU]).
- Mixed: water is a mixture of recent and vintage (greater than 1 TU to less than 8 TU).
- Vintage: water entered the ground before 1953 (less than or equal to 1 TU).
- Not sampled for tritium.

Groundwater conditions

- Water from the surface moves through a thin layer of overlying fine-grained material to an underlying aquifer.
- Groundwater moves from an overlying surficial aquifer to a buried aquifer.
- Groundwater moves from an overlying buried aquifer to an underlying buried aquifer.
- Groundwater flows laterally.
- Groundwater flowpath is unknown.

Symbols and labels

- 12.7 Chloride: if shown, concentration is ≥ 5 ppm. ('naturally elevated,' source unknown)
- 13.2 Arsenic: if shown, concentration is ≥ 2 ppb.
- 118 Manganese: if shown, concentration is ≥ 100 ppb.
- 1.2 Nitrate: if shown, concentration is ≥ 1 ppm.
- 3500 Carbon-14 (^{14}C): if shown, estimated groundwater residence time in years.
- Surface-water sample
- Groundwater sample with evaporative signature
- B—B' Line of cross section (Part B)
- Body of water



This map was compiled and generated in a geographic information system. Digital data products are available on the DNR County Atlas Program page (mndnr.gov/groundwatermapping).

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Base modified from Minnesota Geological Survey, Morrison County Geologic Atlas, Part A, 2014.

Universal Transverse Mercator projection, zone 15N, North American Datum of 1983. North American Vertical Datum of 1988.

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