

8420.0405 BOUNDARY OR TYPE.

Subpart 1. **Wetland boundary.** Wetland boundaries must be determined using the methodologies in the United States Army Corps of Engineers Wetlands Delineation Manual (January 1987), including subsequent updates and supplements, and guidance provided by the board.

Subp. 2. **Wetland type.** Wetland type must be identified according to United States Fish and Wildlife Service Circular No. 39 (1971 edition) Wetlands of the United States and Classification of Wetlands and Deepwater Habitats of the United States, including modifications or guidance provided by the board. Wetland type in relation to Wetland Plants and Plant Communities of Minnesota & Wisconsin is shown in the following table:

Wetland Plants and Plant Communities of Minnesota and Wisconsin (Eggers and Reed 1997), as modified by the Board of Water and Soil Resources-United States Army Corps of Engineers Wetland Mitigation Memorandum of Understanding (May 2007)	Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979)	Fish and Wildlife Service Circular 39 (Shaw and Fredine 1971)
Shallow, open water	Palustrine or lacustrine, littoral; aquatic bed; submergent, floating, and floating-leaved	Type 5: Inland open fresh water
Deep marsh	Palustrine or lacustrine, littoral; aquatic bed; submergent, floating, and floating-leaved; emergent; persistent and nonpersistent	Type 4: Inland deep fresh marsh
Shallow marsh	Palustrine; emergent; persistent and nonpersistent	Type 3: Inland shallow fresh marsh
Sedge meadow	Palustrine; emergent; narrow-leaved persistent	Type 2: Inland fresh meadow
Fresh (wet) meadow	Palustrine; emergent; broad- and narrow-leaved persistent	Type 1: Seasonally flooded basin or flat Type 2: Inland fresh meadow

Wet to wet-mesic prairie	Palustrine; emergent; broad- and narrow-leaved persistent	Type 1: Seasonally flooded basin or flat Type 2: Inland fresh meadow
Calcareous fen	Palustrine; emergent; narrow-leaved persistent; scrub/shrub; broad-leaved deciduous	Type 2: Inland fresh meadow Type 6: Shrub swamp
Open bog or coniferous bog	Palustrine; moss/lichen; scrub/shrub; broad-leaved evergreen; forested; needle-leaved evergreen and deciduous	Type 8: Bog
Shrub-carr or alder thicket	Palustrine; scrub/shrub; broad-leaved deciduous	Type 6: Shrub swamp
Hardwood swamp or coniferous swamp	Palustrine; forested; broad-leaved deciduous; needle-leaved evergreen and deciduous	Type 7: Wooded swamp
Floodplain forest	Palustrine; forested; broad-leaved deciduous	Type 1: Seasonally flooded basin or flat
Seasonally flooded basin	Palustrine; flat; emergent; persistent and nonpersistent	Type 1: Seasonally flooded basin or flat

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