

Starry Stonewort Delineation Report

Steve Henry Aquatic Survey Professionals

Garfield Lake (DOW# 49-0079-00) County: Hubbard
Surveyed: 6/16-17/2026 Water Temp (°F): 67 Air Temp (°F): 58

Method:

Steve and Sawyer Henry with Aquatic Survey Professionals performed a Starry Stonewort delineation on Garfield Lake following the methodology described by Minnesota Department of Natural Resources in the “Guidance for Delineating Invasive Aquatic Plants” (2020). The boat navigates the lake moving from shallow water out to the point where water is deep enough that no vegetation is present. Using visual, sonar, and rake observations populations of Starry Stonewort and any other invasive species encountered are detected and delineated. Observations and waypoints were made every 50 meters with closer spacings when delineating the edges of potential treatment areas. Near the access and edge of the infestation survey points were spaced every 20 feet apart, once beyond this edge the sample points were stratified becoming 40 feet apart, the 60 feet, stepping up to 100 feet. Starry Stonewort density was recorded on a 1-3 scale with 3 being Abundant.

Results:

The only infestation detected was in the channel at the public access. During the delineation Starry Stonewort was only encountered at 9 sample sites immediately adjacent to the boat ramp in depths of 3 to 5 feet. Lakeward this channel has some areas of little to no plant growth with Star Duck Weed the only species observed at depths of 6 to 7 feet. Starry Stonewort was observed at 9 out of the 767 (1.2%) recorded waypoints. Starry Stonewort was found at depths ranging from 3– 5 feet but was found growing most commonly at 5 feet deep. On a 0-3 point density rating scale, the most common density of growth was 2 which is Common see the ratings below. When present Starry Stonewort was generally co-dominant with natives often Bushy Pondweed. Starry was starting to invade the Wild Rice to the east but only by a small distance. Starry was common across the width of the channel for most of the distance.

Summary of the observational ratings for Starry Stonewort encountered on Garfield Lake.

Rake Rating	# of Obs.	Percent
1: Sparse/Scattered	4	44.4%
2: Common	5	55.6%
3: Abundant	0	0%

Garfield Lake - Hubbard Starry Stonewort



- Access
- Garfield2026 Delineation SSW
- Starry
 - Sparse
 - Common
 - Abundant
 - 0
- PostGarfield2026track

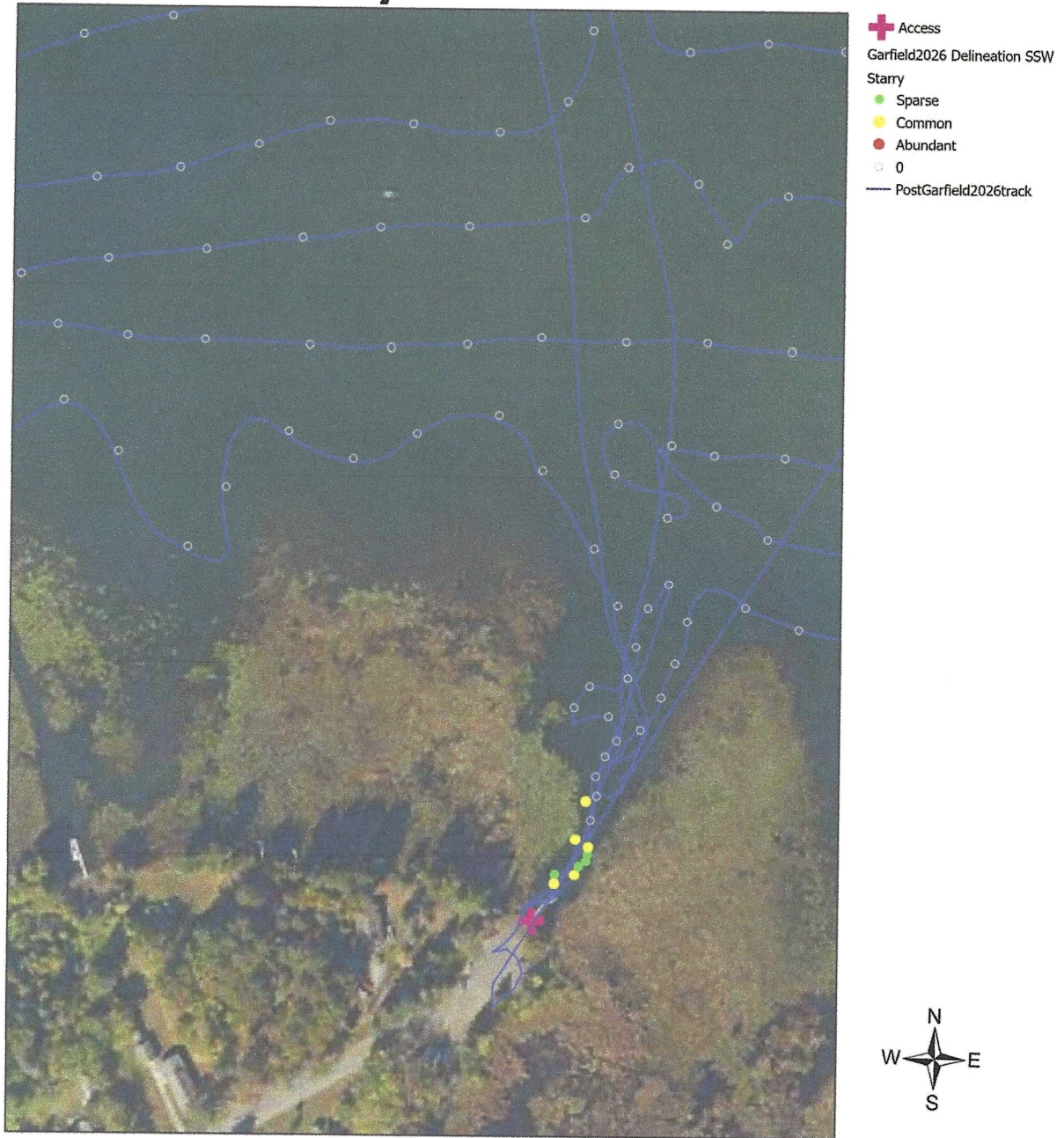


0 750 1,500 3,000 4,500 6,000 Feet

Credits: Steve Henry
Aquatic Survey Professionals
MN DNR Certified Aquatic Plant Surveyor

June 2026

Garfield Lake - Hubbard Starry Stonewort



Credits: Steve Henry
Aquatic Survey Professionals
MN DNR Certified Aquatic Plant Surveyor