

## Aquatic Invasive Species Inspection Report

Lake: **Sturgeon (DOW# 58006700)**

Inspection Date: **06/6-7/2023**

County: **Pine**

Surveyors: **Rich Rezanka**

Water Temp (\*F): **66.0**

Report Author: **Rich Rezanka**

Inspection Times: **1000 - 1530**

Report Date: **06/08/2023**

Minnesota DNR Aquatic Invasive Species program staff performed an inspection of Eurasian watermilfoil (EWM) throughout the littoral zone of Sturgeon Lake on 06/6-7/2023. Eurasian watermilfoil was documented in numerous, stands within the littoral zone around the lake. Management activities are planned in 2023.



Photo 1: A sample of Eurasian watermilfoil (EWM) with new roots taken on Sturgeon Lake on 6 June 2023.



Figure 2: Stand of Eurasian watermilfoil present in Sturgeon Lake on 6 June 2023.



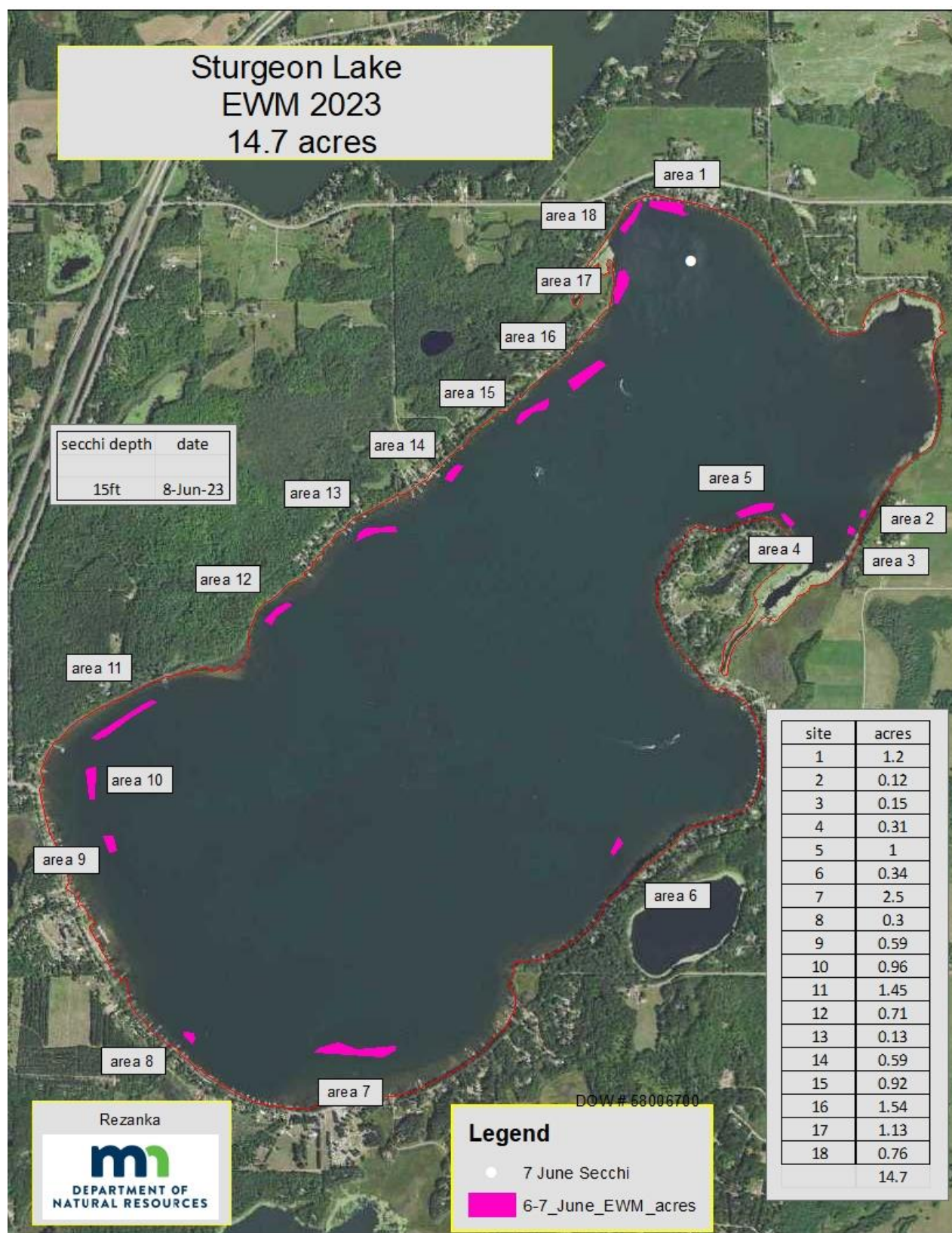


Figure 1. Map indicates proposed treatment areas of Eurasian watermilfoil in 2023.

The survey was conducted from a boat with a sampling rake, water depth was measured with the depth finder, and GPS coordinates were recorded on a Garmin Map76csx unit.

Weather was sunny and warm both days with a wind increasing in the afternoons from the south and southeast. Air temperature was 68 degrees; surface water temperature was 66 degrees. Water clarity in the lake was high (15 feet). Visual sampling was possible in shallow sites with depths less than six feet.

Delineation methods involved both visual methods and the use of a two-sided plant rake. The boat was driven from shallow water into deep water in a slow meandering pattern. Special attention was paid to areas in the lake where favorable EWM growing conditions were present.

Eurasian watermilfoil was found at depths ranging from 4.0 - 9.0 feet but was found growing most commonly at 7.0 feet deep. The following aquatic plants were noted during the survey: bladderwort (genus), coontail, Eurasian watermilfoil, white waterlily, large-leaved pondweed, white-stemmed pondweed, pondweed narrowleaf group, robbins pondweed.

In some sites where ProcellaCOR herbicide was used in 2022 there was little or no EWM present during the survey in 2023. Unfortunately, some new sites were discovered around the lake.



photo 3: Cross section of Eurasian watermilfoil pulled from Sturgeon Lake on 6 June 2023.





Photo 4: Rake with Eurasian watermilfoil pulled from Sturgeon Lake on 7 June 2023.



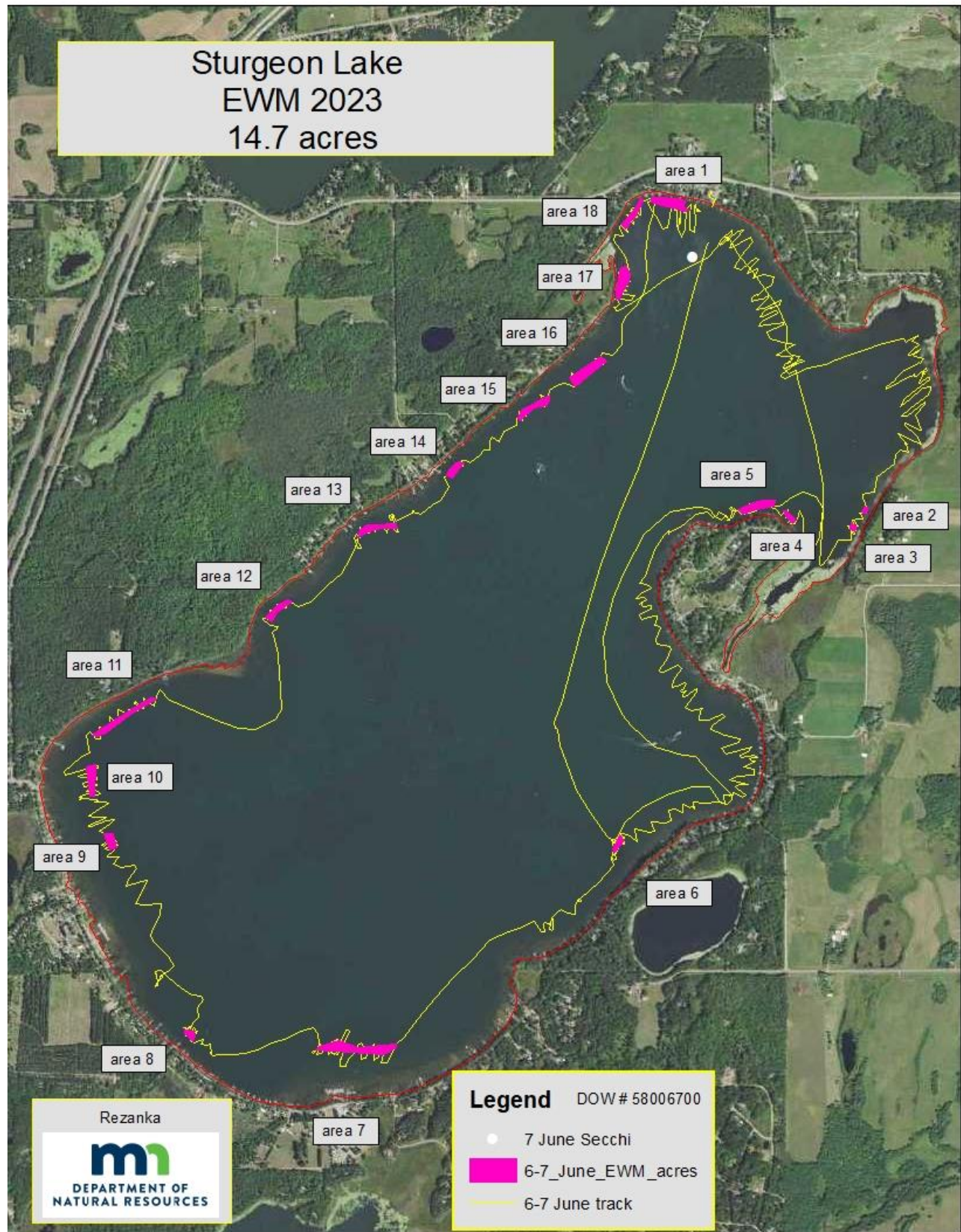


Figure 2. A survey map of Sturgeon Lake showing proposed treatment sites and survey tracks from June 7-8, 2023.



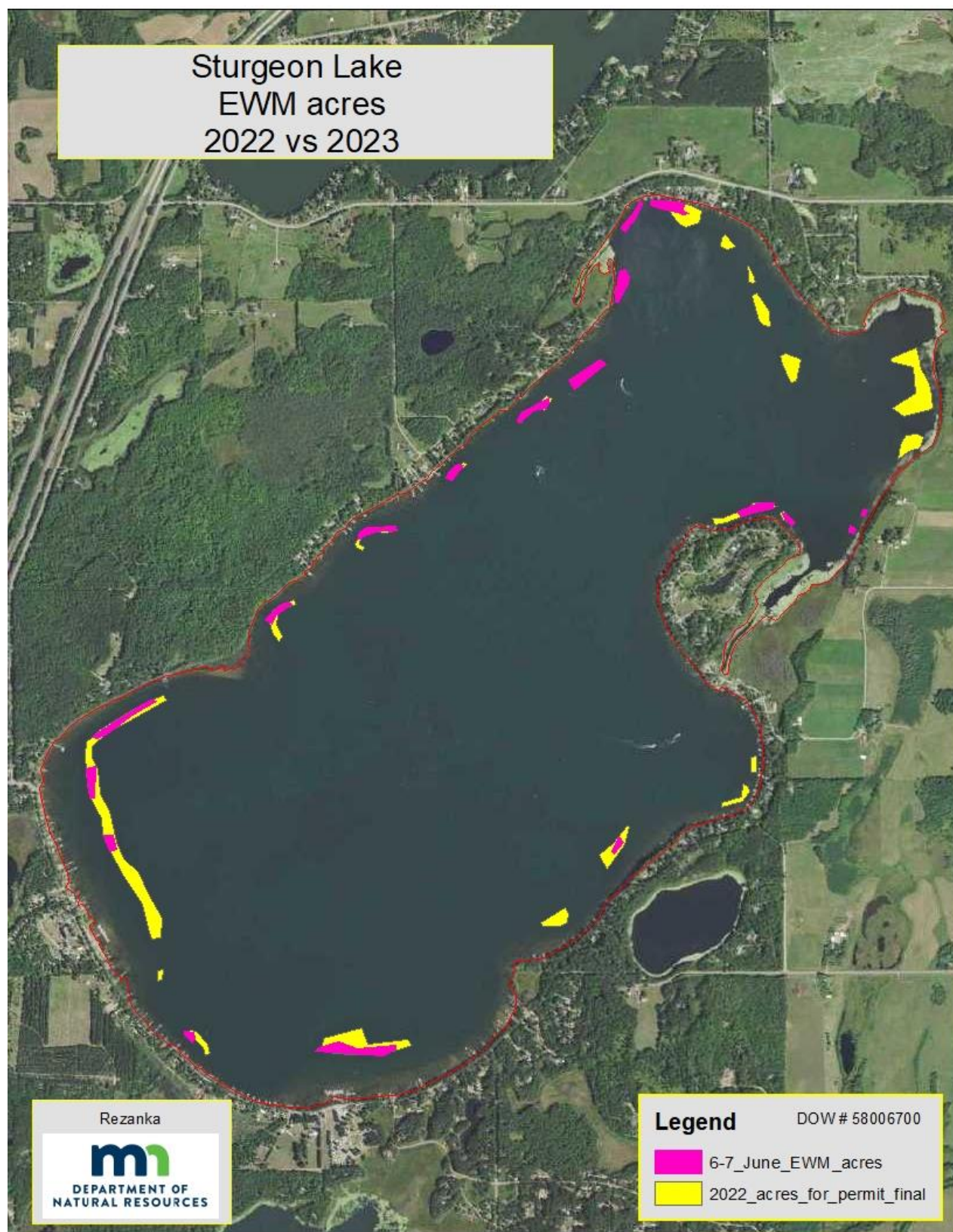


Figure 3. A map showing the decrease in EWM acreage from 2022 (yellow) to 2023 (pink).