

Aquatic Invasive Species Inspection Report

Lake: **Sand (DOW# 58008100)**

Inspection Date: **07/09/2024**

County: **Carlton/Pine**

Surveyors: **Rich Rezanka**

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

Report Author: **Rezanka**

Inspection Time: **1030-1400**

Report Date: **07/9/2024**

Minnesota DNR Aquatic Invasive Species program staff performed a pre-treatment inspection of Eurasian watermilfoil (EWM) throughout the littoral zone of Sand Lake on 07/09/2024.



Photo 1: Sand Lake just west of the boat ramp on 9 July 2024.

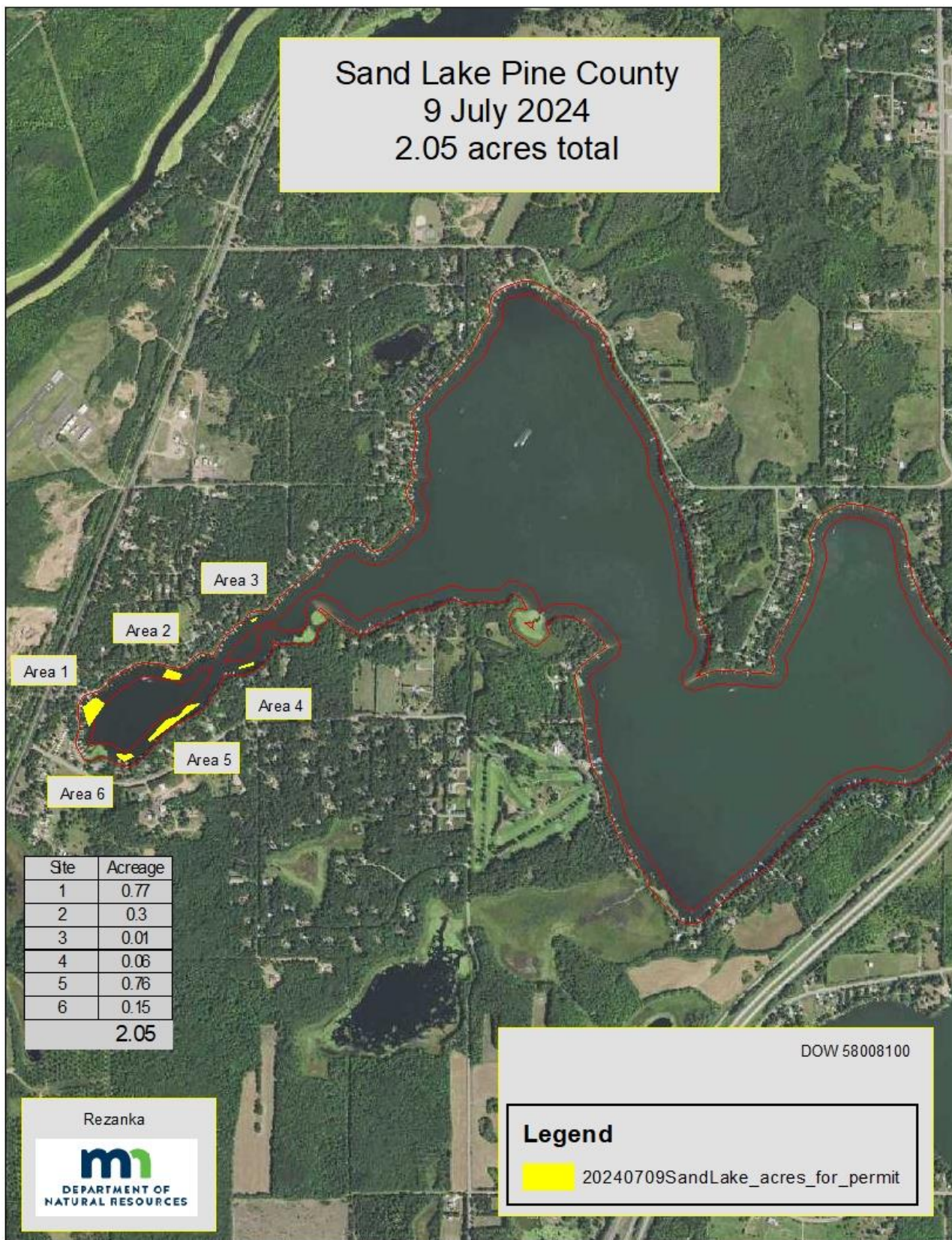


Figure 1. Map of the proposed herbicide treatment areas for 2024.

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 and on an iPad using the Collector app.

Weather was sunny with east wind to 5mph. Air temperature was 85-90 degrees; surface water temperature was 68 degrees. Water clarity in the lake was 1 to 15 feet. Visual sampling was possible in shallow sites with depths less than five 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 and in areas that have historically supported EWM populations.

Eurasian watermilfoil was found at depths ranging from 4.0 - 8.0 feet but was found growing most commonly at 4.0 feet deep. Eurasian watermilfoil was not growing in dense stands as it has historically, and plants were not robust. Individual plants, clumps or patches were common, especially in areas that were treated with herbicide in 2023. Eurasian watermilfoil was growing predominantly in the west end of Sand Lake with only a few plants found elsewhere.



Photo 2: Underwater picture of Eurasian watermilfoil taken on 9 July 2024 on Sand Lake.



Photo 3: Eurasian watermilfoil mixed with a few natives on a rake from Sand Lake, 2 June 2023.



Photo 4. Eurasian watermilfoil near the surface of the west side of Sand Lake on 9 July 2024.