

Lake Status

Overall Strategy: Routine Watershed Management

Water Quality Rating: B: Secchi – 7.4 ft;
TP (2007) – 31 µg/L

Impairment: Not Impaired

Water Quality Trend: Secchi – No Trend;
TP – Improving Trend

Shoreland Classification: Natural Environment

Subwatershed Land Cover: 10% developed, 24% forests and woodlands, 7% grassland/shrubland/sparse vegetation, 12% lakes and open water wetlands, 21% planted or cultivated, 26% wetlands.



Resource Goals

Short Term Goals – Year 2015

- Maintain a water quality rating of at least C+.
- Maintain a five-year mean summer phosphorus concentration at or below 40 µg/L ± 4%.
- Maintain a mean summer secchi depth no less than 5.5 ft.
- Establish an active Lake Association for teaming on lake management and education.

Long Range Goals - Year 2020

- Maintain a water quality rating of at least C+.
- Maintain a five-year mean summer phosphorus concentration at or below 40 µg/L ± 4%.
- Maintain a mean summer secchi depth no less than 5.5 ft.
- Conduct watershed management in consideration of the area’s statewide importance to the Blanding’s turtle.

DNR Fisheries Lake Management Plan: None

BASIC FACTS

DNR ID	82003500
Section	21
Township	31
Range	20
Lake Area	76 acres
Subwatershed Area	1159 acres
Outlet Elevation	932.00
Low Water Level	929.57 ('98)
High Water Level	933.32 ('95)
Ordinary High Water	932.00
100-Yr. Flood Elev	N/A
Greatest Depth	14 ft.
Control Structures:	None

Fish Species:
Bullhead, Carp

Aquatic Nuisance Species:
None

CMSCWD References:
WCD Water Monitoring Report ('07 & '08)
DNR Lake Water Level Report

Implementation

Operational Priorities

Routine Watershed Management

Education

Routine Watershed Education Program

Regulatory

Activities impacting Bass Lake will be regulated by the watershed district through its *Rules of the District*. Regulatory efforts will be coordinated with May Township, Washington County and the Minnesota DNR, where applicable.

Projects

Current:

- Routine Watershed Water Quality Monitoring
- Routine Watershed Best Management Practices (BMP) Program
- Ongoing BMP Monitoring
- Permitting Program

Future/Potential:

- None at this time.

* See 2010 Watershed Management Plan Section V, *Lake Management Plans* for additional information on District lake management activities.

Overall Assessment: Bass Lake

Bass Lake is a shallow lake in the Carnelian Creek flowage. In-lake phosphorus concentrations are better than the MPCA shallow lake standard of (60µg/L). Lake water quality is highly dependent on the quality of Carnelain Creek which flows through Bass Lake. Citizens are primarily interested in raising or at least maintaining water levels and the impacts of wildlife (i.e. beaver).

Based on an Aerial Lakeshore Analysis study (1998), non-point source runoff has the greatest influence on the lake other than flows received from Carnelian Creek. The recommendations from that study are to expand the vegetative buffer or install a berm adjacent to the road, discourage suburban style lawns, keep forested areas intact and make sure septic systems are functioning properly.

2010 goals have been met (maintain a water quality rating of at least 'C+', achieve a five year mean summer phosphorus concentration at or below 40 µg/L ± 4% and achieve a mean summer secchi depth no less than 5.5 ft). Bass Lake is undergoing routine watershed management.

