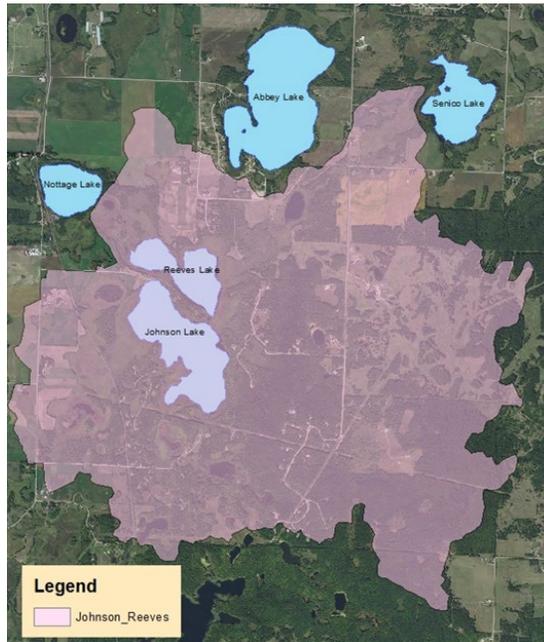


**Overall Strategy:**  
Maintain Water Quality

**Impairment:** Not listed as impaired

**Subwatershed Lake Cover/Use:**

- 7.3% Open Water
- 3.3% Developed
- 9.3% Wetlands
- 5.2% Cultivated Crops
- 49.4% Forest
- 25.5% Grassland



**Johnson**

Water Quality	20-Year Average June - Sept (1998-2017)	Trend
Secchi (clarity)	9 ft.	Stable
Total Phosphorus	26 µg/L	Stable
Ortho Phosphate	Insufficient Data	N/A
Chlorophyll-a	Insufficient Data	N/A

**Reeves**

Water Quality	20-Year Average June - Sept (1998-2017)	Trend
Secchi (clarity)	10 ft.	Stable
Total Phosphorus	27 µg/L	Stable
Ortho Phosphate	Insufficient Data	N/A
Chlorophyll-a	Insufficient Data	N/A

**Short Term Goals - Year 2025**

- Maintain a 5-year mean summer phosphorus concentration at or below 30 µg/L
- Maintain mean summer Secchi depth no less than 8 ft

**Long Range Goals – Year 2035**

- Maintain a 5-year mean summer phosphorus concentration at or below 40 µg/L
- Maintain mean summer Secchi depth no less than 5 ft

**Basic Facts**

<b>DNR ID/ Becker No</b>	MN03-0374-01&02 / 374
<b>Township(s)</b>	Lake View
<b>Lake Classification</b>	Natural Environment
<b>Lake Area</b>	219.6 acres (Johnson) 146.6 acres (Reeves)
<b>Littoral Area</b>	137.2 acres (Johnson) 88.8 acres (Reeves)
<b>Sub-watershed Area</b>	4576 acres
<b>Shoreline Length</b>	3.37 miles (Johnson) 3.44 miles (Reeves)
<b>Inlet(s)</b>	Wetland Stream from Abbey Lake
<b>Outlet(s)</b>	Wetland Stream to Lind/Nottage Lake
<b>Control Structures</b>	None
<b>Highest Recorded*</b>	Not Recorded
<b>Lowest Recorded*</b>	Not Recorded
<b>Ordinary High Water Level*</b>	Not Recorded
<b>Recorded Range*</b>	Not Recorded
<b>Maximum Depth</b>	30 feet (Johnson), 43 feet (Reeves)
<b>Main Fish Species</b>	Black crappie, Bluegill, Northern pike, Pumpkinseed, Walleye
<b>Secondary Fish Species</b>	Black/Brown/Yellow bullhead, Bowfin, Hybrid sunfish, White sucker, Yellow perch
<b>MN DNR/ Private Fish Stocking</b>	N/A
<b>Aquatic Invasive Species (2015)</b>	None
<b>Public Access Sites</b>	None
<b>Public Beach</b>	None
<b>References</b>	DNR Lake Finder, Becker County

**Overall Assessment**

Johnson and Reeves Lake are both moderately developed, natural environment lakes locate south of the City of Detroit Lakes. The two lakes sit north and south relative to each other and are connected via a natural channel on the east side of them. A prominent wetland fringe surround both of the lakes, unrooted portions of which often detach and are moved around the lakes by wind and water currents. The channel between the two lakes sometimes becomes blocked by floating bogs, making watercraft passage between the two impossible. Johnson lakes lies to south and is larger in size than in northern neighbor, totaling 219.6 acres in size and reaches a depth of 30 feet. Reeves is slightly smaller in size, 146.6 acres, and is 43 feet at in deepest points. Johnson and Reeves both have both have similar littoral areas that are 63% and 61% of the lake surface area, respectively.

Water quality has remained stable over the last 20 year period with average clarity of 9ft on Johnson Lake and 10 ft on Reeves Lake. Total phosphorus levels are also stable on the two lakes, averaging 26 ppb and 27 ppb. Both lakes are considered mesotrophic with moderately clear water. Both lakes do stratify in the summer months, developing and anoxic layer below 4-5 meters (13-16 feet).

The primary source of surface water input to the lake is stormwater runoff from the large drainage area of 4,576 acres. There is a small amount of water the travels via wetland stream from Abbey Lake to the north in to Reeves. Reeves Lake also outlets via a wetland stream to Nottage Lake. Groundwater interactions also play a prominent role in the water budget.

Residential development is located on the peninsula which extends between the two lake from the west. There is also a small campground located on that peninsula, which also contains the only boat access to the lake (private access). In recent years, there have been several residential homes constructed on the north and east side of Reeves Lake. Due to the extensive wetland fringe around the lake, only a few location allow lake access from riparian properties. In some location where the wetland fringe is not as prominent, access to the lake has been obtained by removing portions of the wetland vegetation.

Land cover in the drainage area is primarily forest and grassland, which total 53% (2256 acres) and 28% (1165 acres) , respectively. Wetland make up 10% (423 acres), cropland 6% (240 acres) and developed land accounts for only 150 acres (3.5%) of the land area.

**Implementation**

**Planned/Potential Projects:**

**Capital Improvement Projects:**

**Projects & Programs**

**Ongoing Programs:**

**Past Studies**