

<i>Plan Element</i>	<i>Star Lake and River Goal</i>	<i>Ten Mile Lake Association goals and accomplishments</i>
<i>Littoral Vegetation</i>	1. Increases in native vegetation in the littoral area of the lake or river, where appropriate	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP. Goal 2 of the TMLA LRMP , pages 2&3.</p> <p><input type="checkbox"/> – Educational information provided to property owners and association members Objective D. The Association has articles in the <i>Newsletter</i> and informational pamphlets and programs on littoral vegetation at the annual meetings. The TMLA Healthy Lakes Committee has put the LRMP and the current three year LMP on the TMLA web site.</p> <p><input type="checkbox"/> – Comprehensive Vegetation Management Plan (CVMP) in place with map of existing vegetation. Goal 2, objectives A,B,I LRMP, page 2. Aquatic plant survey of TML with the DNR in 2006. Map showing distribution of common flowering plants 2006-2007 2010=2012 MP page 84. Map of unique plant areas, 2010-2012 MP, page 87. Aerial photographs; analysis and archiving of data. Mapping of emerging and sunken vegetation and placement into the Geographic Information System (GIS), LRMP strategy 1, page 3. Report with DNR of sensitive lakeshore, 2008</p> <p><input type="checkbox"/> – Promoting or actively engaging in protecting existing littoral vegetation Objectives D,E Announcements by the <i>Newsletter</i>, annual meetings and website of BMP. Placement of marker buoys for no -wake zones on the lake. Committees watching for littoral vegetation removal. TMLA works with county and state organizations whose programs and policies affect the watershed's air quality, lakes, streams and wetland.</p> <p><input type="checkbox"/> – Project(s) to establish or expand littoral vegetation are underway or completed Shore restoration projects have been started. A pilot program was done in 2010. A select number more scheduled for 2011. The Geographic Information System has been developed.</p>

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<p><i>Riparian Vegetation (Lakeshed)</i></p>	<p>2. Increases in native vegetation on the shoreline areas of the lake or river, where appropriate</p>	<p>□ – Specific goals or outcomes described in LMP Goal 2, objective D, page 3 LRMP; Goal 4 objective B page 4 LRMP, goal 4B 2010-2012 LMP, page 15.</p> <p>□ – Educational information provided to property owners and association members Goal 2D1, 2010 LMP page 15. One of the stated goals of the TMLA is to have the <i>Newsletter and the website</i> communicate to the membership about the various committee activities and recommendations, which includes a specific provision to provide information and materials that encourage property owners to comply with County and State shoreline management regulations by using BMP. TMLA is working with the DNR, Cass Co. and other lake associations to educate riparian owners on sustaining and improving lake shores.</p> <p>□ – Individual owner project(s) underway or completed For land in ecologically sensitive areas of TML, five Source Protection Districts has been proposed for citizens to become involved with township representatives, county and DNR personnel. A tentative June 2011 date has been set for an informational meeting.</p> <p>□ – Promoting or actively engaging in protecting existing riparian vegetation TMLA has purchased properties to protect and preserve sensitive areas of native vegetation. TMLA has citizen and contractor monitoring of the riparian vegetation. No wake zones have been marked with buoys. Aerial photos of shoreline areas have been taken and data has been analyzed and archived. TMLA has a map of “unique” plant areas. TMLA sponsors shoreline restoration training. TMLA is evaluating the entire shoreline according to the DNR's new “Score Your Shore “ instrument . Ten Mile Lake will be the largest lake for which the entire shoreline has been evaluated. The plan will be completed by June 2011.</p> <p>□ – Project(s) to establish or expand riparian vegetation are underway or completed During 2010, 40 shoreline owners indicated interest in shoreline restoration and improvement. Representatives of the DNR made a detailed evaluation of TML shoreline and has recommended sites for restoration procedures to be funded by grants from the Clean Water Legacy Fund administered by the DNR and Cass Co. All seven of the TMLA properties are now protected under a conservation easement assigned to the Minnesota Land Trust</p>

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<i>Invasive Species</i>	3. Prevention, reduction, or elimination of aquatic invasive species in the lake or river	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 2, objective C page 3 LRMP.</p> <p><input type="checkbox"/> – Educational information re: invasive species provided to property owners and association members Educational materials are provided to the members to encourage residents and guests to look for and report any exotic species found' Information on proper decontamination of boats, trailers and equipment has been disseminated.</p> <p><input type="checkbox"/> – Presence of invasives has been assessed and a comprehensive invasives species plan has been developed A committee is assigned to survey the lake at least three times each open water season for the presence of exotic flora and fauna. There is a plan with the Mississippi Headwaters Board and the DNR for control measures if exotic species are introduced into TML. Information has been provided to encourage identification and reporting of suspected invasive species.</p> <p><input type="checkbox"/> – Areas vulnerable to invasion have been determined and are being monitored Public accesses to the lake are the most vulnerable and are being monitored.</p> <p><input type="checkbox"/> – Projects to prevent, reduce or eliminate invasive species are underway or completed The public accesses to the lake have informational signs for identifying invasive species and instructions about trailer and boat care.</p>

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<i>Fisheries</i>	4. Increasing or maintaining a healthy diverse fishery that is appropriate for the lake or river	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Ten Mile Lake Management Plan, Goal 3, objectives A & B ,page 4 LRMP</p> <p><input type="checkbox"/> – Educational materials regarding how to maintain a healthy diverse fishery based upon DNR fish community classification system has been provided to property owners Information inserts for the TMLA <i>Handbook</i> were provided to members, which enumerate walleye and northern pike studies and limits, lake fish stocking history, spawning areas protection, shoreline habitat, catch and release, use of barbless hooks, avoiding lead sinkers, boat and trailer vegetation removal, a fishing log and comments on 4-stroke engines. Residents of TML have been provided with informational materials to encourage the establishment and maintenance of desirable aquatic vegetation beds for the fishery. The TMLA fisheries committee has a table at the annual meeting with state fishing regulations, fish species charts and measuring tapes. The DNR provides handouts and answers questions for residents at the annual meetings.</p> <p><input type="checkbox"/> – Education materials as defined above provided to broader user audience. Meetings with the DNR re: statewide study of ciscos. 2006 fishery growth tables published. A book entitled <i>Under the Surface</i> was written by a scientist member of the TMLA and published for general use and is available at retail stores as well as through the Association.</p> <p><input type="checkbox"/> – Ecologically appropriate fisheries project underway or completed; appropriate Index of Biological Integrity ranking to evaluate ecological appropriateness of project has been used, where available. Walleye fingerlings stocked in TML in 2007. Gill net catch in 2006 and 2010. TMLA has fish stocking data for 1949-2009. TMLA is active in protecting the lake from excess nutrients such as phosphorous, which adversely affects the fish populations due to lowered oxygen levels with high phosphorous levels.</p> <p><input type="checkbox"/> – Applicant is working/has worked with DNR to evaluate/develop need for appropriate special regulations that are consistent with fish management plan TMLA has worked with the DNR obtaining fish samples for mercury. TMLA coordinated with the DNR re: Fish Consumption Report. TMLA worked with the DNR for the Lake Management Plan. TMLA and the DNR cooperated in the USGS Whitefish Progress Report 2005.</p>

		<p>TMLA provided data for the TML fisheries report of 2000 Lake Information Report to the DNR 2003.</p> <p>Stocking of marked walleye fingerlings with the DNR . Starting with 2002 , a walleye fish survey to determine percentage of marked fish caught.</p> <p>A 20 inch maximum length limit for northern pike was imposed.</p>
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<i>Pollution & Impairment</i>	5. How the association will work with state agencies and local government units to identify water pollution sources and impairments	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 1, page 1 & 2 TML LRMP.</p> <p><input type="checkbox"/> – Education that raises awareness to potential sources of pollution to lakes and streams is provided to property owners and association members Articles on pollution prevention and the results of the lake water clarity and nutrient testing are published in the <i>Newsletter</i>. Articles in the Newsletter on how faulty septic systems contribute to lake pollution. Detailed information on septic system technology, function and maintenance have been written for the <i>Newsletter</i> and distributed at the annual meeting. Acknowledgment of lake association members who have upgraded their systems is noted in the <i>Newsletter</i>. Informational material on the proper disposal of household and hazardous waste is provided at the annual meetings and in the <i>Newsletter</i>. Information in the <i>Newsletter</i>, <i>Website</i> and annual meetings on installation and maintenance of lakeshore buffer zones and the use of fertilizers without phosphorous. Information on boat fueling and maintenance to avoid polluting the lake published in the Newsletter</p> <p><input type="checkbox"/> – A process to select association members or volunteers to routinely identify and report possible pollution or resource concerns to appropriate local or state agencies is/has been developed and implemented The Ecology and Environmental Committee is comprised of TMLA member volunteers whose goal it is to plan and execute steps necessary to maintain and improve the lake water quality. The committee and its subcommittees monitor and measure various attributes of the lake water surrounding watershed, shoreline vegetation, wetlands, drainage pools, septic systems and well water systems. The data collected by the Lake Water Transparency subcommittee is sent annually to the MPCA for inclusion in the statewide lake quality monitoring program. TMLA Healthy Lakes Committee completed the Initiative Foundations Healthy Lakes training, prepared and provided Cass Co. and the Initiative Foundation a draft management plan. The TMLA works closely with the Cass Co. Environmental Services office securing comments that are valuable in preparing the successive three year LMP. The TMLA works with the MPCA staff to be sure pollution sources in the watershed are identified and managed.</p>

		<p>□ – A plan to monitor the direct contributing area of a lake or stream to determine compliance with water quality standards or address local resource concerns is developed in concert with local or state agencies</p> <p>The Ecology and Environment Committee monitors and does chemical analysis of selected tributary wetlands and Cass county road culverts that flow to the lake.</p> <p>The Initiative Foundation provided a grant for inspecting septic systems for the North Shore of TML in 2005.</p> <p>Complete lakeshore residential septic systems are evaluated every three years.</p> <p>□ – A plan to identify water quality or resource impairments within an entire major watershed is/has been developed in concert with local or state agencies</p> <p>TMLA hired a professional Watershed Coordinator to support the goals, objectives and strategies of all local and regional authorities in the decision making processes that affect the TML watershed.</p> <p>In 2000 with the Mississippi Headwaters Board sponsored and implemented the ground water contour map for Cass Co. and the Upper Boy River resulting in watershed delineations for lakes on the Boy River and the evaluation of 6000 well logs for ground water contours.</p> <p>Grants to the TMLA from the EPA, MPCA and MHB allowed assessment of the Upper Boy River watershed resulting in protection strategies for the resources of the Boy River, creation of the Geographic Information System (GIS) for the watershed and aquifers , and a drinking water well protection plan for Hackensack .</p> <p>Worked with the appropriate agencies to plan for emergency management of possible chemical spills in the watershed.</p> <p>TMLA initiated and managed chemical and nutrient evaluation of the Upper Boy River Clean Water Partnership Project 1990-2003.</p>
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<i>Monitoring & Data Gathering</i>	6. How the association will assist state and local programs to generate data needed by state agencies and local government units in an appropriate format	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 1, objectives A & B, page 2 & 3 LRMP.</p> <p><input type="checkbox"/> – Participation in the MPCA’s Citizen Lake/Stream Monitoring Program or similar water resource monitoring program Lake quality monitoring and reporting in the Minnesota Lake Quality program since 1975. Well water monitoring of key wells is ongoing.</p> <p><input type="checkbox"/> – Monitoring to gather the data needed by state agencies to determine compliance with water quality standards is underway or completed Lake water clarity by Secchi disc readings is determined at several locations on the lake weekly in June, July, August and September. The data is compared monthly and annually. The data is sent to the MPCA for inclusion in the statewide lake water quality program. Testing for nitrogen, phosphorous and chlorophyll is done three times a year.</p> <p><input type="checkbox"/> – A large-scale study or long-term trend monitoring project to generate data needed by state agencies and local government units is underway or completed Cooperated with Minnesota DNR on major surveys of aquatic vegetation, non-game fishes, reptiles, amphibians and shoreline birds. Monitor the Boy River outflow. Temperature measurements and readings of lake dissolved oxygen levels down to 100 feet depth is done regularly. The annual TMLA monitoring program and the report by Instrumental Research , which tracks trends in water quality, report their findings to Cass Co. Environmental Services and the MPCA.</p> <p><input type="checkbox"/> – Data gathered through monitoring efforts are submitted in an approved format to state or local governmental units Data gathered from monitoring is submitted to the MPCA and the Cass County Environmental Services.</p>

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<i>Standards & BMP promotion</i>	7. Promoting compliance with adopted shoreland zoning standards and shoreland best management practices (BMPs)	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 2 ,4 & 5 pages 3, 4, 5 LRMP.; pages 6, 33-35 2010-2012 MP.</p> <p><input type="checkbox"/> – Educational materials provided to all property owners and association members on shoreland BMPs and zoning standards The TMLA has authored many articles for the <i>TMLA Newsletter</i> that emphasized best shoreland management practices and upgrading of waste water management systems. TMLA wrote two property stewardship guide line booklets for the members. The Landscaping subcommittee of the Environment and Ecology committee has since 1999 promoted BMP by educating members thru the <i>Newsletter</i> and at the annual meetings and also recommending workshop courses, sources of plants, and publications to help create buffer zones along the shores of TML. The TMLA has had education programs relating to avoidance of phosphorous containing soaps and fertilizers. The TMLA distributed copies of the MDNR publication <i>Restore Your Shore</i> at an annual meeting.</p> <p><input type="checkbox"/> – An association evaluation program for existing zoning standards has been developed and implemented TMLA has had a Zoning committee. Its purpose has been to monitor proposed zoning changes, adjustments, variances and land use matters for properties adjoining or impacting upon TML; we have been very active in providing comments to Cass Co. re: PUD regulations. In 2005 the Conservation Committee was formed to look beyond zoning variance issues to the broader picture of future development and its potential impact on the lake. In 2002 TMLA initiated the Upland Functional Model for Cass Co. The model evaluates the environmental sensitivity of shoreline areas and reveals shoreline that is suitable or not for future development. Aerial photos have been taken of TML and evaluated for zoning compliance.</p> <p><input type="checkbox"/> – An association evaluation program for BMP utilization has been developed and implemented The Landscaping subcommittee of the E&E committee has been established for the purpose of promoting BMP for shoreline property owners and disseminating BMP to the membership.</p> <p><input type="checkbox"/> – Standards or local BMPs as recommended in LMP or as recommended in the implementation plan for a Total</p>

		<p>Maximum Daily Load study have been promoted or have been adopted</p> <p>The TMLA coordinates with the state, county and other lake associations for the BMP and educational programs to disseminate available technologies and practices.</p>
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<i>Public Input</i>	<p>8. How the lake association will ensure its involvement in public input opportunities for various local comprehensive and project-specific planning and zoning processes</p>	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 8, objective B, page 7 LRMP</p> <p><input type="checkbox"/> – Association member(s) involved in process as private citizen(s) Members can attend Board and Committee meetings as well as the annual meeting to offer proposals, suggestions, or comment on TMLA activities. Members can also submit articles for publication in the <i>Newsletter</i> or make personal contact with Board and Committee members.</p> <p><input type="checkbox"/> – Ongoing, informal, participation of association in the public input process, including appropriate training for association members The Zoning and Land Use Committee monitors proposed zoning changes, adjustments, variances and land use matters for properties adjoining or impacting upon TML and serves as a source of technical advice to property owners on zoning variance issues. This committee also monitors and proposes action on development and construction activities</p> <p><input type="checkbox"/> – Formal representation of association in planning process Our Watershed Coordinator served on the Governor's North Central Lakes Committee. An inventory of the flora and fauna typical of the TML and it's surrounding watershed was taken in coordination with state, county and local officials. In cooperation with the DNR, U.S. Forest Service, the Cass Co. Land Dept., the Environmental Services Dept. and the Minnesota Pollution Control Agency developed a plan for protecting and preserving the habitat of the various species of flora and fauna. All the data obtained has been included in the Geographic Information System that has been developed for TML and the Upland Functional Model. A member of the TMLA accepted appointment to a citizen's advisory committee to the Cass Co. Environment Services Dept. TMLA has important relationships with The Minnesota Lakes Association, The Association Of Cass County Lakes.</p> <p><input type="checkbox"/> – Position papers on zoning matters and BMPs have been developed and forwarded to local governmental unit The Zoning and Land Use committee recommended that the Board</p>

		<p>oppose the state's plan for a public water access off Highway 371 into LongBay. The plan was dropped.</p> <p>Several landowners requested the Board to take a position with the county in questioning some aspects of a proposed PUD development, which required the developers to make adjustments to their proposal.</p> <p>TMLA met with the Cass Co. officials re: Highways 50 and 71 redevelopment and construction plans and influenced plans for the routes, forest cut-backs, property borders, preservation of wetlands, preservation of significant trees, and esthetics of the roadways.</p>
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<p><i>Education & Recognition</i></p>	<p>9. Education and recognition opportunities for shoreland owners and other entities that conduct activities affecting the quality of the lake or river.</p>	<p><input type="checkbox"/> – Specific goals or outcomes described in LMP Goal 5, page 5 &6, LRMP.</p> <p><input type="checkbox"/> – Educational materials are provided to property owners and association members Articles on ecology and environment including results of gill net surveys, chemistry and clarity results, president's report and committee reports and articles of information on BMP are published in the <i>Newsletter</i>. The annual meetings have many tables and displays of various committee activities, handouts and books for sale that educate the members and speakers on topics of general interest and importance. The TMLA website goal is an environmentally informed and responsible TML watershed citizenry which provides TMLA members, TML residents and visitors ready access to a wide array of information on the work of the Association.</p> <p><input type="checkbox"/> – Educational material are provided to the broader community The TMLA website is available to the public. A book on the biology of TML was authored by a scientist member (Bruce Carlson) of the TMLA and has been available to members and the public through the TMLA and numerous retail outlets. Long time active member Jim Schwartz of the TMLA wrote an article for the <i>Minneapolis Star Tribune</i> on Lake Management.</p> <p><input type="checkbox"/> – Annual recognition program of volunteer contributions is in place Recognition at the annual meeting of members for leadership and /or service to the TMLA. Plaques and certificates are awarded. Recognize in the <i>Newsletter</i> those members who have upgraded septic/wastewater systems.</p> <p><input type="checkbox"/> – Comprehensive education/training program for volunteers is in place Each committee instructs their volunteer members on the goals, objectives, strategies and technical aspects of monitoring, data gathering and reporting. The volunteer members of the TMLA Healthy Lakes Committee receive training from the Initiative Foundation and Cass Co, Environmental Services.</p>

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<i>Partnerships</i>	<p>10. Other activities that will coordinate with or enhance other state and local water management efforts</p>	<p><input type="checkbox"/> – LMP outlines partner goals and outcomes, and specific working relationships are described Goal 8, objective B, page 7 LRMP.</p> <p><input type="checkbox"/>– Association meet at least annually with key local natural resource personnel TMLA is an active member of Minnesota Lakes Association and Association of Cass Co. Lakes.</p> <p><input type="checkbox"/> – Documented history of informal partnership on projects TMLA works with the Cass County Highway Department on the Adopt-A-Highway program. The Lake Safety Committee of the TMLA in cooperation with the Hackensack Lions Club, Cass Co. Sheriff, MDNR and other lake associations has sponsored a watercraft operators training program over several years.</p> <p><input type="checkbox"/> – Formal local partnership structure is in place Representatives of the TMLA have been appointed to participate in township, county and state directed programs and policy making activities that will affect TML water quality and it's environment such as waste management, zoning, pollution, highway issues, land development, hazardous materials use and storage, retention of shoreline features such as ice banks, and extraction of gravel and other minerals. TMLA advises the State, County and U.S. Forest Service re: sustainable management practices for the watershed forest areas.</p> <p><input type="checkbox"/> – Large scale partnership-based project is underway or completed TMLA participates in the MPCA's Citizens Lake Monitoring Program since 1975. TMLA was an active participant with the Chippewa National Forest officials and Cass Co. Highway Dept. in the redevelopment of Cass Co. Highway 71 and the reconstruction of Cass Co. Hwy 50. Both projects are now completed. An inventory of the flora and fauna of TML and its watershed was accomplished in coordination with state, county and local officials. Formation and training of the members of the Healthy Lakes Committee of TMLA under the auspices of the Initiative Foundation and Cass Co. The Foundation is a permanent regional foundation, which has provided grants to help fund performance surveys of septic systems along TML shorelines for several years. The Upper Boy River Hydraulic Study accomplished with a grant from the EPA.</p>

