

**VILLAGE OF MISHICOT
SEWER SERVICE AREA PLAN**

***AMENDED TO THE MANITOWOC-TWO RIVERS URBANIZED AREA
SEWER SERVICE AREA***

***SEWER SERVICE AREA AMENDMENT TO ADD THE VILLAGE OF
MISHICOT TO THE URBANIZED SEWER SERVICE AREA OF THE
CITIES OF MANITOWOC AND TWO RIVERS, MANITOWOC COUNTY***

AMENDED DECEMBER 20, 2005

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MANITOWOC-TWO RIVERS-MISHICOT URBANIZED AREA
SEWER SERVICE AREA PLAN AMENDMENT

SEWER SERVICE AREA AMENDMENT TO ADD THE VILLAGE OF MISHICOT TO THE URBANIZED
SEWER SERVICE AREA OF THE CITIES OF MANITOWOC AND TWO RIVERS, MANITOWOC COUNTY

An amendment that adds 1,896.5 acres to the Manitowoc-Two Rivers Urbanized Area Sewer Service Area that includes the Village of Mishicot and a section in the northwest corner of the City of Two Rivers.

INTRODUCTION

On August 2, 2005, the Bay-Lake Regional Planning Commission (BLRPC) received a petition for a Type II Amendment to the *Manitowoc-Two Rivers Urbanized Area 2015, Areawide Sewer Service Area* plan (2002) submitted by the City of Two Rivers. The amendment request involved the addition of approximately 1,896.5 acres of land to the sewer service area (SSA).

The area includes a section in the northwest corner of Two Rivers (165.7 acres) and the Village of Mishicot (1,730.9 acres) connected by a right-of-way corridor running along State Highway 147 (see attached map). The added area is located outside of, but adjacent to the current sewer service area.

The subject areas of the sewer service area additions are located wholly or in portions of Sections 31 and 36, Range 35 East and Township 21 North; and Sections 4 through 9, Range 24 East, Township 20 North for the Village of Mishicot; and Sections 22, 23, 26, and 27, Range 24 East, Township 20 North for the City of Two Rivers northwest addition in Manitowoc County, Wisconsin.

The 1,896.5 acres proposed for addition to the sewer service area consist of:

Village of Mishicot

- 757.2 acres of developed land
- 387.6 acres of environmentally sensitive areas
- 670.5 acres of undeveloped - uncommitted land (such as agricultural land and open space)
- 15.6 acres of undeveloped - committed land (area of planned future development for residential, commercial, etc.)

City of Two Rivers section

- 24.8 acres of developed land
- 39.1 acres of environmentally sensitive areas
- 101.8 acres of undeveloped - uncommitted land
- 0 acres of undeveloped - committed land

BACKGROUND

The City of Two Rivers has requested the sewer service amendment due to an inter-municipal agreement between the Village of Mishicot and the City of Two Rivers for wastewater treatment service. The amendment request will include the Village of Mishicot and an additional inclusion in the northwestern corner of the City of Two Rivers.

The addition of the Village of Mishicot will enable the Village to meet its wastewater management needs by discharging it to the City of Two Rivers Wastewater Management System. This alternative was determined to be the recommended alternative based on financial and environmental feasibility studies conducted as part of the *Village of Mishicot, Manitowoc, Wisconsin Wastewater Management Facilities Plan Project Report* (Kaempfer & Associates, Inc., April 2005).

The Village of Mishicot is located in the northeast portion of Manitowoc County, five miles from Lake Michigan. In 2000, the population of the Village was reported to be 1,422 and is projected to grow to 1,788 by 2025. The Village of Mishicot operates a Waste Water Treatment Facility (WWTF) that was designed to provide secondary treatment of all sanitary sewage from the sewer portions of the village to meet effluent limits for discharge to the East Twin River. The WWTF utilizes an aerated lagoon system as well as influent flow metering and sampling equipment, an ultraviolet disinfection system, and effluent flow metering and sampling facilities.

Areas of the village that are currently unsewered are serviced by private on-site systems. The village wishes to be proactive in this matter and begin the arrangements for provision of urban services, including sanitary sewer service, to this area.

AMENDMENT JUSTIFICATION

The City of Two Rivers has requested the SSA amendment to the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* as a Type II Amendment, which results in an increase in the service area acreage to add the Village of Mishicot and an area northwest of the City of Two Rivers.

Type II Amendments are used to add to the 24,700 acres of the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan, which have been projected for development of various land uses (from the baseline land use inventory completed in 1997) to the existing Manitowoc - Two Rivers urbanized area.

Village of Mishicot Addition

The City of Two Rivers justifies the request to amend the current sewer service area to add the Village of Mishicot in order to rectify inadequacies of the Village of Mishicot's current wastewater treatment facility (WWTF), to meet regulatory requirements, and to provide for future growth of the Village of Mishicot. The Mishicot WWTF is currently operating under the provisions of Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-0021369-05, which was issued on October 1, 1998. The WWTF has historically had difficulty meeting the requirements of the permit, especially in the winter months when low wastewater temperatures diminishes the facility's ability to meet ammonia limits and attain adequate phosphorus reduction.

In addition, the WWTF cannot consistently achieve ammonia and phosphorus reduction to meet effluent limits, and lacks the ability to remove rags and grit from the wastewater. The Wisconsin Department of Natural Resources (WDNR) has adopted more stringent standards for effluent ammonia and phosphorus limits. In order to meet these standards, the performance of the Mishicot WWTF will have to be upgraded.

The Village evaluated alternatives that included upgrading the WWTF and regional treatment. Regional treatment at the City of Two Rivers Wastewater Management System was selected as the recommended plan. The request is based on recommendations formulated in the *Wastewater Management Facilities Plan* for the Village of Mishicot and from the Wisconsin DNR.

City of Two Rivers Northwestern Addition

The City of Two Rivers justifies the additional request to add the northwestern portion of the Two Rivers SSA by noting the desire to maintain the water quality of the East Twin River by eliminating the need for existing and future soil absorption systems in an area that has soils with excessive permeability rates. The desire to maintain high water quality standards in the river was identified as a WDNR priority in the wastewater management planning process for the Village of Mishicot.

In addition, by adding this area to the Two Rivers SSA, the pumping costs for the Village would be lower and the need for chemical treatment for odor control would be reduced by enabling the use of gravity sewer instead of a sewage force main in the area northwest of the City. The planned sewage force main would discharge to the gravity sanitary sewer at Crystal Spring Road. The gravity sanitary sewer would be designed to serve the area along STH 147 from CTH VV to Crystal Spring Road. Furthermore, this area adjacent to the Two Rivers SSA is seeing increased development. The land in this area is a desired location for residential growth in the City of Two Rivers and the primary landowner is making additional parcels available each year.

PRIMARY AMENDMENT REVIEW CRITERIA

MINIMAL ADVERSE IMPACTS ON WATER QUALITY AND OTHER ENVIRONMENTAL CONSIDERATIONS

Wetlands, navigable waters with a 75-foot setback, 100-year floodplains, and steep slopes of 12 percent or greater have been designated as environmentally sensitive areas. Development in these areas is restricted to protect and maintain water quality. BLRPC staff is aware of locations in the amendment request area in which consultation with the staff of the WDNR may be needed in order to allow development while at the same time limiting adverse impact upon water quality.

Environmentally sensitive areas (ESAs) are scattered throughout the Village of Mishicot and the City of Two Rivers SSA. The East Twin River, with its floodlands and shorelands, is an important ESA in much of the area proposed for addition to the sewer service area. Johnson Creek flows into the East Twin River south of the Village of Mishicot. In addition, wetland areas (some less than two acres in area) exist within the area proposed for addition to the sewer service area, such as the Twin River Marsh, which is one of the largest marshes along Lake Michigan at 80 acres in size. The largest wetland area near the Village of Mishicot is located north of the village adjacent to Johnson Creek.

Chapter four of the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan discussed state natural and scientific areas, and natural history areas designated by the WDNR. The *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* contains eight such sites including Wilderness Ridge State Scientific Area (SA), Point Beach Ridges SA, Weyers Lake Natural History Area (NHA), Glomski Lake NHA, Camp Vits NHA, Woodland Dunes State Natural Area (SNA), Twin River Marsh SNA, and Wet Mesic Woods NHA. The petitioner is encouraged to work with staff of the WDNR to preserve natural areas.

CAPACITY IMPACTS ON SEWAGE FACILITIES

The petitioner has indicated that treatment of wastewater from development in the proposed amendment area would be provided by the City of Two Rivers Wastewater Management System, which the petitioner states, “the existing treatment facility will be able to handle all flows and loadings from Mishicot...”.

The City of Two Rivers operates a 3.1 mgd WWTF. Currently, the annual average flow to the plan is approximately 2.0 mgd. The combined flow from Two Rivers and Mishicot is estimated to be approximately 2.4 mgd by the year 2026.

As part of the negotiation process, a WWTF capacity study was completed to determine whether there was adequate treatment capacity available to accept Mishicot wastewater. The results of the study showed that there was adequate hydraulic capacity, but the WWTF was at or near its solids handling capacity.

In response to the results of the WWTF capacity study, the City of Two Rivers began a facilities planning study in the summer of 2005 to determine what improvements are required to increase the capacity of its solids handling processes. The study recommended upgrading the anaerobic digestion process and expanding its dewatered sludge storage facility. Design of these improvements will begin in December 2005, with construction beginning in the spring of 2006 and completing in early 2007.

Wastewater from the Village of Mishicot will be discharged to the City of Two Rivers’ collection system. The wastewater will discharge to an existing pump station. The pump station will be upgraded to be able to handle the flow from Mishicot as well as the surrounding area. The City of Two Rivers anticipates that the upgraded pump station will be online by early October 2006.

It has been quantitatively demonstrated that this criterion has been met.

CONFORMANCE WITH COMPREHENSIVE PLAN AND ZONING REGULATIONS AND WITH SEWER SERVICE AREA PLAN GOALS AND OBJECTIVES

The City of Two Rivers does not have a comprehensive plan. The BLRPC staff recommends that the City of Two Rivers develop and adopt a comprehensive plan according to the requirements of Wisconsin’s comprehensive planning law (s.66.1001 Wisconsin Statutes). Approved developments that are inconsistent with an adopted comprehensive plan (or are approved in the absence of a comprehensive plan) after January 1, 2010, may be subject to legal challenge. For this reason, a condition should be placed on approval of this sewer service area amendment request that the City of Two Rivers, at a minimum, undertake a comprehensive planning process and seek advice from BLRPC staff regarding comprehensive planning.

As no comprehensive plan exists, the conformance criterion for this amendment has been met for the City of Two Rivers.

The amendment is in conformance with the *Village of Mishicot 2020 Comprehensive Plan* (December 2001) as the plan stresses the need to upgrade the Village's WWTP. The conformance criterion has been met for the Village of Mishicot.

The proposed amendment will be consistent with zoning regulations provided the City of Two Rivers or the Village of Mishicot given that future development in the SSA remains consistent with the communities' respective zoning ordinances.

The amendment petition indicates that the proposed amendment conforms to the five goals of the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan:

- Goal 1 to “guide the future growth within the defined urban service area and beyond in an efficient and orderly manner to promote contiguous and compact development” is met in that the Two Rivers northwestern addition of the amendment to the sewer service area is contiguous to the sewer service area; and the addition of the Village of Mishicot boundary is defined by the village boundaries, which promotes compact development.
- Goal 2 to “guide future rural development in an efficient, orderly, and compatible manner” is met in that the amendment would involve areas of planned, orderly, and compatible development within the Village of Mishicot boundaries and a developing area of Two Rivers (residential development).
- Goal 3 to “protect water quality, natural resources, and sensitive natural areas from the encroachment of urban development” is met in that the amendment would enable the Village of Mishicot to rectify inadequacies with their current wastewater treatment facility, to meet regulatory requirements, and to provide for future growth of the Village of Mishicot. In addition, ESAs would be excluded from development in the Village of Mishicot and in the northwestern addition in the City of Two Rivers.
- Goal 4 to “eliminate health hazards associated with failing wastewater disposal systems and protect the quality of the water and land resources in the planning area” is met in that this amendment would enable the Village of Mishicot to rectify inadequacies with their current wastewater treatment facility and correct failing wastewater disposal systems within the village. The inclusion of the northwestern addition in the City of Two Rivers would also remedy failing wastewater disposal systems that exist in that area.
- Goal 5 to “minimize public sewerage service costs” is met by adding the northwestern addition to the City of Two Rivers, which would lower the pumping costs for the Village of Mishicot and limit the need for chemical treatment for odor control. These cost savings would be realized by enabling the use of gravity sewer instead of a sewage force main in the area northwest of the City of Two Rivers.

The proposed amendment conforms with planning and zoning regulations, and with sewer service area plan goals and objectives

COMMON BOUNDARY WITH THE CURRENT SEWER SERVICE AREA/NO CREATION OF A VOID IN THE SEWER SERVICE AREA

The northwestern Two Rivers area proposed for addition to the SSA is adjacent to the approved City of Two Rivers SSA. The Village of Mishicot addition is not adjacent to the current SSA; however, it would be connected via a right-of-way corridor along STH 147; so, there will be no creation of a void in the SSA. Therefore, the proposed amendment is consistent with this criterion.

COST-EFFECTIVENESS (ORDERLINESS/LOGICAL EXTENSION OF URBAN DEVELOPMENT) OF THE SEWER SERVICE AREA PLAN AMENDMENT REQUEST

Regional treatment at the City of Two Rivers Wastewater Management System was determined to be the most cost effective wastewater management alternative in accordance with WDNR planning criteria, and was selected as the recommended plan for the Village of Mishicot to meet wastewater regulations.

For reasons effectively demonstrated by the petitioner in meeting several other criteria related to this criterion (consistency with local zoning and contiguity to the boundary of the existing SSA), BLRPC staff find the proposed amendment to be generally cost effective, orderly, and a logical extension of urban development. Therefore, the proposed amendment is consistent with this criterion.

DELIVERY OF OTHER SERVICES

BLRPC staff is satisfied that police, fire, rescue, and water services can be adequately delivered to the areas proposed for addition to the City of Two Rivers SSA. The City of Two Rivers and the Village of Mishicot police departments, fire departments, and emergency medical services can adequately provide law enforcement, fire control and prevention, and rescue services to the proposed amendment areas. The Two Rivers Water and Light and the Village of Mishicot Water Utility can provide adequate water services to this area.

Based upon the preceding information, the BLRPC staffs have determined that the petitioner has adequately addressed the provision of police, fire, rescue, and public water service to the amendment area.

SPECIAL TYPE II AMENDMENT REVIEW CRITERIA

COMPARISONS OF POPULATION PROJECTIONS OF THE SEWER SERVICE PLAN WITH ACTUAL POPULATION INCREASES IN THE MUNICIPALITY

The population in the City of Two Rivers is expected to decrease based on population projections from the Wisconsin Department of Administration (WDOA). The population trends appears to evidence this population decline as the City of Two Rivers had a population of 13,030 persons in 1990, and a population of 12,639 persons in 2000 (U.S. Census Bureau), representing a decrease of 391 persons.

According to WDOA predictions, the Village of Mishicot population is expected to increase moderately. WDOA predicted a 2005 population for the Village of Mishicot of 1,360. On the contrary, the 2000 Census population for the Village already exceeded that prediction by 62 persons with 1,422 persons.

However, population data is not relevant to this amendment request, as the need for the amendment is not based upon population demands; it is based upon the wastewater treatment requirements for the Village of Mishicot. For this reason, BLRPC staff considers this criterion negligible.

COMPARISONS OF LAND PROJECTIONS IN THE PLAN WITH THE ACTUAL VACANT LAND

The Two Rivers SSA boundary encompasses approximately 6,300 acres, consisting of approximately 4,050 acres within the current city limits and 2,200 acres that are outside of the city limits. Of the total acres, approximately 2,800 are developed, 2,000 are ESAs, and 1,500 acres are undeveloped.

The 1,500 acres of available undeveloped land would accommodate the minimum amount of land required for development by 2015 of 144 acres plus a market factor. This data was gathered in 2003, but is still valid today.

The amendment petition requests that approximately 1,776 acres be added to the Two Rivers sewer service area. The area includes a section in the northwest corner of Two Rivers (136 acres) and the Village of Mishicot (1,629 acres) connected by a right-of-way corridor running along State Highway 147. Of these 1,776 acres:

- 206 acres of single family residential development;
- 108 acres of roads;
- 55 acres of open space;
- 595 acres of agricultural lands;
- 6 acres of agricultural buildings;
- 27 acres of ponds;
- 12 acres of rivers and streams;
- 47 acres of natural areas including wetlands; and
- 226 acres of woodlands.

However, land use data is not relevant to this amendment request, as the need for the amendment is not based upon land demands; it is based upon the wastewater treatment requirements for the Village of Mishicot. For this reason, BLRPC staff considers this criterion negligible.

INFORMATION ON THE CAPACITY OF EXISTING SEWER LINES AND TREATMENT FACILITIES TO SERVE THE AREA PROPOSED FOR ADDITION TO THE SEWER SERVICE BOUNDARY

The Village of Mishicot would construct a new lift station, 24,700 lineal feet of conveyance pipelines, and odor control facilities. The conveyance system will discharge to the 15-inch diameter sanitary sewer on Parking Boulevard in the City of Two Rivers. A new raw sewage lift station would be constructed near the Laduron Drive Sewage Lift Station. The existing trunk sewers would be extended to the new sewage lift station. The sewage lift station would include two constant speed vertical non-clog pumps. The sewage lift station would be sized for a design peak flow of 0.91 million gallons per day (mgd). Each pump system would have a capacity of 640 gpm at a total dynamic head (TDH) of 110 feet. The operation of the sewage pumps would be controlled by a primary raw sewage pump control system and a secondary raw sewage pump control system.

The wastewater from the sewage lift station would discharge through approximately 15,000 feet of 10-inch diameter sewage force main to a 12-inch diameter sanitary sewer at the intersection of STH 147 and Crystal Spring Road. The 10-inch diameter sewage force main would be constructed southwest from the new lift station to STH 147, and then south on STH 147 to Crystal Spring Road. A 12-inch diameter sanitary sewer or pressure sanitary sewer will be constructed on STH 147 from STH VV to Crystal Spring Road. The sanitary sewer in the City of Two Rivers that is on Parking Boulevard from two blocks north of the Parking Boulevard Sewage Lift Station to Mishicot Road, then on Mishicot Road from Parking Boulevard to CTH VV will be replaced with a new 15-inch diameter sanitary sewer or be pipe burst and have 15-inch thick HDPE pipeline pulled. All of the sewage force main would be constructed within roadway right-of-way.

Odor control facilities would be required to minimize odors at the discharge to the Two Rivers sanitary sewer system due to the long detention time in the force main. At the existing average flow of 0.260 mgd, the detention time in the force main would be approximately 6 hours. The detention time in the force main would be 1.7 hours at the peak flow of 0.91 mgd. The wastewater would be converted to hydrogen sulfide. A biological oxidizer would be added to the wastewater for control of hydrogen sulfide and other odorous compounds. The use of sodium hypochlorite, as a biological oxidizer, is considered suitable for use in this plan.

The odor control facilities would be constructed at the new raw sewage lift station. The facilities would consist of a 6,500 gallon chemical storage tank, two 5 gallons per hour (gph) chemical metering pumps, a chemical feed control system, and process piping and valves. It is estimated that the sodium hypochlorite would be metered into the wastewater at an average rate of approximately 46 gallons per day (gpd).

Sampling and metering facilities would be provided at the raw sewage pump station. The flow metering facilities would include a Parshall flume on the influent sewer, ultrasonic flow transmitter, and flow recorder. A composite sampler would be placed of the flow meter to provide flow proportional samples for analysis at the Two Rivers WWTF.

Please refer to the discussion under “Capacity Impacts on Sewage Facilities” (one of the primary amendment review criteria) for additional information concerning how this criterion is satisfied. It has been quantitatively demonstrated that this criterion has been satisfied.

STAFF CONCLUSION

Based upon these findings, the staff of the Bay-Lake Regional Planning Commission concludes that the Type II Amendment petition for the City of Two Rivers SSA is generally consistent with the following primary criteria for evaluating sewer service amendments in the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan:

- capacity impacts on sewage facilities;
- common boundary with the current sewer service area/no creation of a void in the sewer service area;
- cost-effectiveness (orderliness/logical extension of urban development) of the sewer service area plan amendment request (subject to one condition being met);

- minimal adverse impacts on water quality and other environmental considerations (several conditions will need to be met in order to be consistent with this criterion);
- conformance with comprehensive plan and zoning regulations and with sewer service area plan goals and objectives; and
- delivery of other services (police, fire, rescue and water services).

Based upon the information provided, staff concludes that the Type II Amendment petition for the City of Two Rivers sewer service area is consistent with the primary criterion for evaluating sewer service area amendments in the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan. However, it is strongly recommended that the City of Two Rivers develop a comprehensive plan and a condition be placed on approval of this sewer service area amendment request that the City of Two Rivers, at a minimum, undertake a comprehensive planning process and seek advice from BLRPC staff regarding comprehensive planning.

STAFF RECOMMENDATION

The Bay-Lake Regional Planning Commission staff recommends approval of the Type II Amendment petition for the City of Two Rivers sewer service area subject to the following conditions:

NATURAL RESOURCE CONDITIONS

1. That there shall be buffers for wetlands within the amendment area in accordance with any federal, state, county or local regulations or ordinances, regardless of the size of the wetland.
2. That there shall be no development permitted in wetlands, shorelands, floodplains, or areas of slope greater than 12 percent (i.e. environmentally sensitive areas [ESAs]).
3. That development is set back from navigable waters in accordance with any federal, state, county, or local regulations or ordinances; at least 75 feet.
4. That sewer extensions are configured in a manner that avoids environmentally sensitive areas, and that they are individually submitted to BLRPC staff for review as conforming to the sewer service plan before proceeding.

PUBLIC REACTION

A public hearing was held on October 6, 2005, to obtain public reaction and comment on the proposed City of Two Rivers sewer service area amendment. The hearing was facilitated by the Bay-Lake Regional Planning Commission and the Technical Advisory Committee for the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan. The record of the public hearing proceedings indicates that no persons spoke on the matter. The minutes of the public hearing are presented in Appendix A.

**MANITOWOC-TWO RIVERS URBANIZED AREA SEWER SERVICE AREA PLAN
TECHNICAL ADVISORY COMMITTEE DELIBERATIONS CONCERNING THE
PROPOSED AMENDMENT**

The Technical Advisory Committee (TAC) for the *Manitowoc-Two Rivers Urbanized Area Sewer Service Area* plan met on October 6, 2005, to consider this amendment request. The TAC voted to recommend to the City of Two Rivers, Village of Mishicot, the Bay-Lake Regional Planning Commission, and the Wisconsin Department of Natural Resources that this Type II sewer service amendment for the City of Two Rivers be approved subject to the conditions cited in this staff report. Minutes of the October 6, 2005 Technical Advisory Committee meeting can be found in Appendix B.

APPENDIX A: PUBLIC HEARING MINUTES

The public hearing was opened at 3:00 p.m. CST on October 6, 2005.

Attendees:

Scott Ahl, City of Two Rivers

Mike Demske, Manitowoc County

Larry Hlinak, Village of Mishicot

Clarence Meyer, Village of Mishicot

Taryn Nall, Kaempfer and Associates, Inc.

Angela Pierce, Bay-Lake Regional Planning Commission

Scott Thoreson, City of Two Rivers

Mark Walter, Bay-Lake Regional Planning Commission

Hearing no comments, the public hearing was closed at 3:30 p.m. CST on October 6, 2005.

APPENDIX B: TECHNICAL ADVISORY MEETING MINUTES

The technical advisory committee (TAC) meeting began at 3:30 p.m. CST on October 6, 2005.

Attendees:

Scott Ahl, City of Two Rivers

Mike Demske*, Manitowoc County

Larry Hlinak, Village of Mishicot

Clarence Meyer, Village of Mishicot

Taryn Nall, Kaempfer and Associates, Inc.

Angela Pierce, Bay-Lake Regional Planning Commission

Scott Thoreson*, City of Two Rivers

Mark Walter*, Bay-Lake Regional Planning Commission

*A quorum was achieved with two of the three official TAC members being present: Scott Thoreson and Mike Demske. Mark Walter was also present as an official TAC advisory member.

Motion to begin the TAC meeting was made by S. Thoreson and seconded by M. Demske at 3:30 p.m CST on October 6, 2005.

The TAC held a discussion on the necessity and justifications for including the northwestern area of Two Rivers in the SSA amendment request. It was determine that the area will facilitate better water quality for the East Twin River and will lower operating costs for the Village of Mishicot. It was concluded that the northwestern area of Two Rivers would remain in the SSA amendment request. The determination was made by the City of Two Rivers and agreed upon by the Village of Mishicot and Manitowoc County.

The TAC held a discussion on the timeline for Bay-Lake Regional Planning Commission to put together a staff report and getting approval from DNR for the SSA amendment request.

Motion to adjourn the TAC meeting was made by S. Thoreson and seconded by M. Demske at 3:55 p.m. CST on October 6, 2005.

(RESERVED FOR MAP)

Bay-Lake Regional Planning Commission

December, 2005

Commission Members

Brown County

Paul Jadin
Chris Swan
Christopher Zabel

Door County

Jaime Forest

Florence County

Edwin Kelley
Yvonne Van Pembroke
John Zoeller

Kewaunee County

Mary Hanrahan
Brain Paplham
Charles R. Wagner

Manitowoc County

Kevin M. Crawford
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Mary G. Meyer

Oconto County

Donald A. Glynn
Thomas D. Kussow
Lois L. Trever, Sect./Tres.

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James R. Schramm

Wisconsin Department of Commerce

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Staff

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Transportation Planner III

Tony D. Bellovary
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Richard L. Heath
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Kathrine L. Hess
Economic Planner

Angela M. Pierce
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Brenda L. Rehberg
Administrative Assistant

Brandon G. Robinson
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Joshua W. Schedler
GIS Specialist

James J. Van Laanen, AICP
Transportation Planner II