

AMENDMENT TO THE

# REGIONAL WATER QUALITY MANAGEMENT PLAN

# LAKE PEWAUKEE SANITARY DISTRICT

AS ADOPTED BY THE

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

SEPTEMBER 1998

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REGIONAL PLANNING COMMISSION**

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# SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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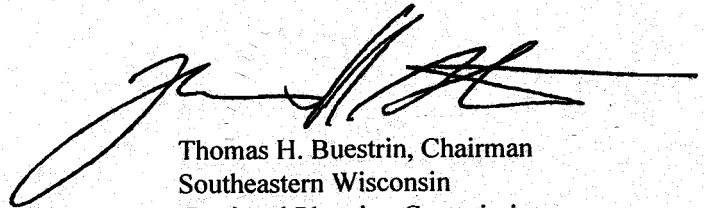
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**SUBJECT:** Certification of Amendment to the Adopted Regional Water Quality Management Plan (Pewaukee Sanitary Sewer Service Area)

**TO:** The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Waukesha; the City of Brookfield, the Villages of Hartland and Pewaukee, and the Towns of Delafield and Pewaukee

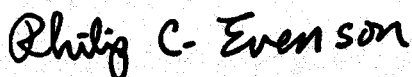
This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Kenosha County Administration Building, Kenosha, Wisconsin, on the 16th day of September 1998, the Commission did by unanimous vote of all Commissioners present, being 15 ayes and 0 nays, and by appropriate Resolution, a copy of which is made a part hereof and incorporated by reference to the same force and effect as if it had been specifically set forth herein in detail, adopt an amendment to the regional water quality management plan, which plan was originally adopted by the Commission on the 12th day of July 1979, as part of the master plan for the physical development of the Region. Said amendment to the regional water quality management plan pertains to the revised Pewaukee sanitary sewer service area and consists of the documents attached hereto and made a part hereof. Such action taken by the Commission is recorded on, and is a part of, said plan, and the plan as amended is hereby transmitted to the constituent local units of government for consideration, adoption, and implementation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and cause the Seal of the Southeastern Wisconsin Regional Planning Commission to be hereto affixed. Dated at the City of Waukesha, Wisconsin, this 17th day of September 1998.



Thomas H. Buestrin, Chairman  
Southeastern Wisconsin  
Regional Planning Commission

ATTEST:



Philip C. Evenson, Deputy Secretary

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**RESOLUTION NO. 98-10**

**RESOLUTION OF THE SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION AMENDING THE ADOPTED REGIONAL WATER QUALITY MANAGEMENT PLAN, THAT PLAN BEING A PART OF THE MASTER PLAN FOR THE PHYSICAL DEVELOPMENT OF THE REGION CONSISTING OF THE COUNTIES OF KENOSHA, MILWAUKEE, OZAUKEE, RACINE, WALWORTH WASHINGTON, AND WAUKESHA IN THE STATE OF WISCONSIN (PEWAUKEE SANITARY SEWER SERVICE AREA)**

WHEREAS, pursuant to Section 66.945(10) of the Wisconsin Statutes, the Southeastern Wisconsin Regional Planning Commission, at a meeting held on the 12th day of July 1979, duly adopted a regional water quality management plan as documented in the three-volume SEWRPC Planning Report No. 30, A Regional Water Quality Management Plan for Southeastern Wisconsin: 2000; and

WHEREAS, at a meeting held on the 17th day of June, 1985, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Pewaukee sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 113, Sanitary Sewer Service Area for the Town of Pewaukee Sanitary District No. 3, Lake Pewaukee Sanitary District, and Village of Pewaukee, Waukesha County, Wisconsin, June 1985; and

WHEREAS, by letter dated May 26, 1998, the Lake Pewaukee Sanitary District requested that the Commission amend the Pewaukee sanitary sewer service area to include certain lands located outside of the currently adopted sewer service area; and

WHEREAS, the proposed amendment to the regional water quality management plan is documented in a Commission staff memorandum entitled, "Response to Request by the Lake Pewaukee Sanitary District to Amend the Pewaukee Sanitary Sewer Service Area," attached hereto and made a part hereof; and

WHEREAS, the requested change to the regional water quality management plan, as documented in the aforementioned staff memorandum, was the subject of a public hearing held jointly by the Lake Pewaukee Sanitary District and the Regional Planning Commission on September 3, 1998; and

WHEREAS, Section 66.945(9) of the Wisconsin Statutes authorizes and empowers the Regional Planning Commission, as the work of making the whole master plan progresses, to amend, extend, or add to the master plan or carry any part or subject thereof into greater detail;

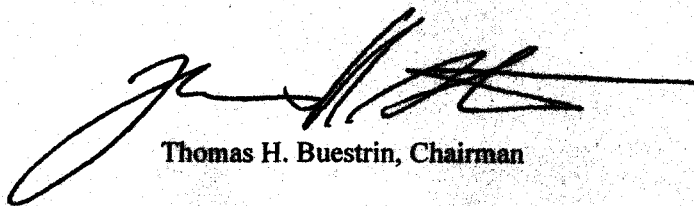
NOW, THEREFORE, BE IT HEREBY RESOLVED:

FIRST: That the regional water quality management plan for the Southeastern Wisconsin Region, being a part of the master plan for the physical development of the Region and comprised of SEWRPC Planning Report No. 30, Volumes One, Two, and Three, which was adopted by the Commission as a part of the master plan on the 12th day of July 1979, and which was amended on the 17th day of June 1985 as set forth in SEWRPC Community Assistance Planning Report No. 113, be and the same hereby is amended in the manner identified on Map 1 of the aforementioned SEWRPC staff memorandum.

SECOND: That the Executive Director is authorized to submit findings to the Wisconsin Department of Natural Resources and the Wisconsin Department of Commerce that public and private sanitary sewer extensions necessary to serve the anticipated development on the lands concerned are in conformance with, and would serve to implement, the adopted regional water quality management plan as herein amended.

THIRD: That a true, correct, and exact copy of this resolution, together with the aforereferenced SEWRPC staff memorandum, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, or individuals as the law may require or as the Commission, its Executive Committee, or its Executive Director, at their discretion, shall determine and direct.

The foregoing resolution, upon motion duly made and seconded, was regularly adopted at the meeting of the Southeastern Wisconsin Regional Planning Commission held on the 16th day of September 1998, the vote being: Ayes 15; Nays 0.



Thomas H. Buestrin, Chairman

ATTEST:

*Philip C. Evenson*

Philip C. Evenson, Deputy Secretary

## SEWRPC STAFF MEMORANDUM

### RESPONSE TO REQUEST BY THE LAKE PEWAUKEE SANITARY DISTRICT TO AMEND THE PEWAUKEE SANITARY SEWER SERVICE AREA

#### INTRODUCTION AND BACKGROUND

By letter dated May 26, 1998, the Lake Pewaukee Sanitary District requested that the Southeastern Wisconsin Regional Planning Commission amend the Pewaukee sanitary sewer service area as that area is currently documented in SEWRPC Community Assistance Planning Report No. 113, Sanitary Sewer Service Area for the Town of Pewaukee Sanitary District No. 3, Lake Pewaukee Sanitary District, and Village of Pewaukee, Waukesha County, Wisconsin, dated June 1985, as amended. The basic purpose of the amendment would be to include within the planned Pewaukee sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area to accommodate residential land uses. The Regional Planning Commission recognizes that, like other long range-plans, sanitary sewer service area plans should be periodically reviewed to assure that the plans continue to properly reflect regional and local development objectives.

#### AREA DESCRIPTION

As shown on Map 1, the area proposed to be added to the Pewaukee sanitary sewer service area encompasses approximately 313 acres located in U.S. Public Land Survey Sections 1 and 2, Township 7 North, Range 18 East, Town of Delafield, Waukesha County, Wisconsin, and represents about 2 percent of the currently approved Pewaukee sewer service area. In 1995, about 11 acres, or 4 percent of the subject area, were in urban use, including 8 acres of residential land use containing 7 housing units, and 3 acres of railroad right-of-way. About 27 acres, or 9 percent of the subject area, are located within primary environmental corridor lands, and about 36 acres, or 11 percent, are located within isolated natural resource areas. Approximately 2 acres, or less than 1 percent of the subject area, is comprised of small wetlands less than 5 acres in size. The remainder of 237 acres, consisting of lands located outside of environmentally sensitive areas, comprises about 76 percent of the subject area, and includes 23 acres of unused quarry and pasture land and 214 acres of land in agricultural use in 1995. It is anticipated that, at a maximum, 237 acres would be developed for low-density residential use at an overall density of 1.5 housing units per gross acre of land, thus accommodating about 155 additional housing units with a population of about 400 persons.

Although no specific development proposals have been forwarded by the concerned property owners or their representatives, the Town of Delafield and Waukesha County, which share zoning jurisdiction over the subject area, have indicated the maximum allowable residential density for the area would be 1.5 housing units per gross acre of land, excluding any environmental corridors and isolated natural resource areas. In addition, a portion of the subject area located immediately adjacent to a major wetland complex draining into Pewaukee Lake is being considered for a wetlands mitigation site by the Wisconsin Department of Transportation for proposed IH 94 highway improvement projects. This area, if restored to wetlands, could become a desirable addition to adjacent primary environmental corridors. Consequently, the afore-referenced number of additional housing units and population to be accommodated on the subject area is considered a maximum and may be reduced depending upon how much of the area would be used for wetlands mitigation or other open space.

#### RELATIONSHIP OF THE PROPOSED CHANGE TO THE EXISTING SANITARY SEWER SERVICE AREA

The revised Pewaukee sanitary sewer service area, comprised of the Town of Pewaukee Sanitary District No. 3, the Lake Pewaukee Sanitary District, and the Village of Pewaukee, and including the subject additional lands, would encompass about 30.7 square miles<sup>1</sup> and would include 9.4 square miles of primary environmental corridor<sup>1</sup>; 0.6 square mile of secondary environmental corridor; and 0.4 square mile of isolated natural resource areas. Thus, 10.4 square miles, or about

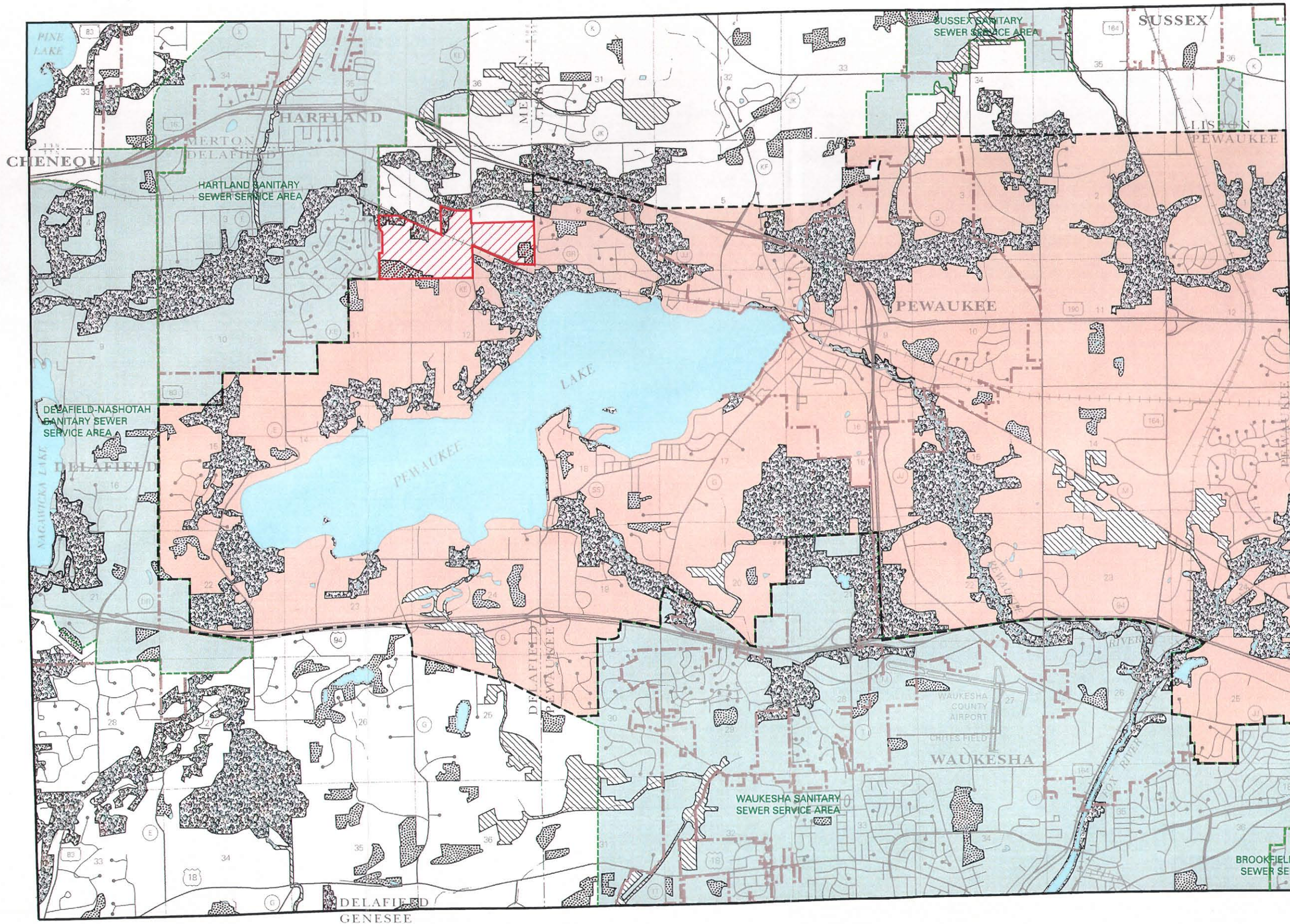
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<sup>1</sup>Includes 3.8 square miles covered by Pewaukee Lake.



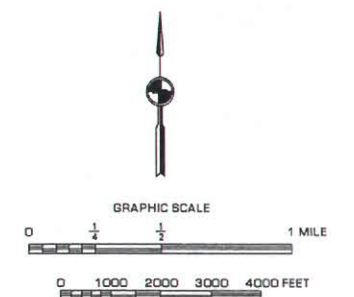
Map 1

**RECOMMENDED  
REVISION TO THE PEWAUKEE  
SANITARY SEWER SERVICE AREA**



**LEGEND**

- PRIMARY ENVIRONMENTAL CORRIDOR
- SECONDARY ENVIRONMENTAL CORRIDOR
- ISOLATED NATURAL RESOURCE AREA
- SURFACE WATER
- PLANNED SANITARY SEWER SERVICE AREA: 2010
- PLANNED SANITARY SEWER SERVICE AREA BOUNDARY
- LANDS TO BE ADDED TO THE PEWAUKEE SANITARY SEWER SERVICE AREA
- OTHER SANITARY SEWER SERVICE AREAS
- 1998 CITY AND VILLAGE BOUNDARIES



Source: SEWRPC.



one-third of the revised sewer service area, would be comprised of environmentally significant areas. Year 2010 resident population levels envisioned for the Pewaukee sewer service area would range from about 24,700 persons under the Commission's intermediate-growth centralized land use plan, to about 39,500 persons under the Commission's high-growth decentralized land use plan. Based upon the Waukesha County development plan, the revised sewer service area, including the subject additional lands, would accommodate a resident population of about 27,000 persons. This population level is within the range of population levels envisioned for the area under the Commission's regional land use plan.

## WATER QUALITY IMPACTS

Under the adopted regional water quality management plan and the refined sanitary sewer service area plan herein set forth, it is envisioned that all urban lands within the planned urban service area would receive sanitary sewer service. Assuming that all applicable Federal, State, and local permits are obtained and that proper site development and construction practices are employed, there should be no significant adverse water quality impacts attributable to the development of the planned sanitary sewer service area. In addition, the provision of public sanitary sewer service to those lands within the planned sanitary sewer service area which are currently served by onsite sewage disposal systems may be expected to reduce the pollutant loadings from the existing onsite sewage disposal systems to both surface and ground waters. Furthermore, the restoration of a portion of the subject area from predominantly agricultural use to wetlands can be expected to have positive impacts on sediment and nutrient loadings to Pewaukee Lake, to which a large portion of the subject area drains.

## COST-EFFECTIVENESS ANALYSIS

The lands in question lie between the currently approved Pewaukee sanitary sewer service area tributary to the Fox River Water Pollution Control Center (FRWPCC) sewage treatment facility, and the currently approved Hartland sanitary sewer service area tributary to the Delafield-Hartland Water Pollution Control Commission (Dela-Hart) sewage treatment facility. The subject area is located entirely within the Pewaukee Lake watershed. The Pewaukee Lake Sanitary District has conducted an evaluation of the existing sewage conveyance system and has determined that adequate conveyance capacity is available to accommodate development of the subject area. The capacity needed to serve the subject area is to be acquired from the owners of the design capacity being provided in an expansion, currently underway, of the FRWPCC sewage treatment plant. Given these considerations, it is concluded that connection to the Pewaukee Lake Sanitary District sewerage system is the most cost-effective means of serving the subject area, and no further analyses were deemed to be required.

## SEWAGE TREATMENT PLANT CAPACITY IMPACT ANALYSIS

An expansion and upgrading of the Fox River Water Pollution Control Center sewage treatment facility to the year 2014 is currently under construction. The planned capacity of the expanded and upgraded facility is 12.5 million gallons per day (mgd) on an average annual flow basis and the current loading is about 8.0 mgd on an average annual flow basis. The capacity to serve the subject area is to be acquired from the owners of the design capacity now being provided for. The average hydraulic loading to be generated in the subject area, upon full development, may be expected to be less than 0.1 mgd on an average annual flow basis. Accordingly, the sewage treatment plant capacity currently being constructed will be adequate to serve the subject area.

## PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on September 3, 1998, at the offices of the Lake Pewaukee Sanitary District to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Lake Pewaukee Sanitary District and the Regional Planning Commission.

A review of the hearing record indicates that no substantive concerns were raised at the hearing. Accordingly, no changes were made to the proposed plan amendment as presented at the public hearing.

## LOCAL GOVERNMENT SUPPORT FOR THE PLAN AMENDMENT

The Lake Pewaukee Sanitary District Commission adopted the plan amendment on September 3, 1998.

## CONCLUDING RECOMMENDATION

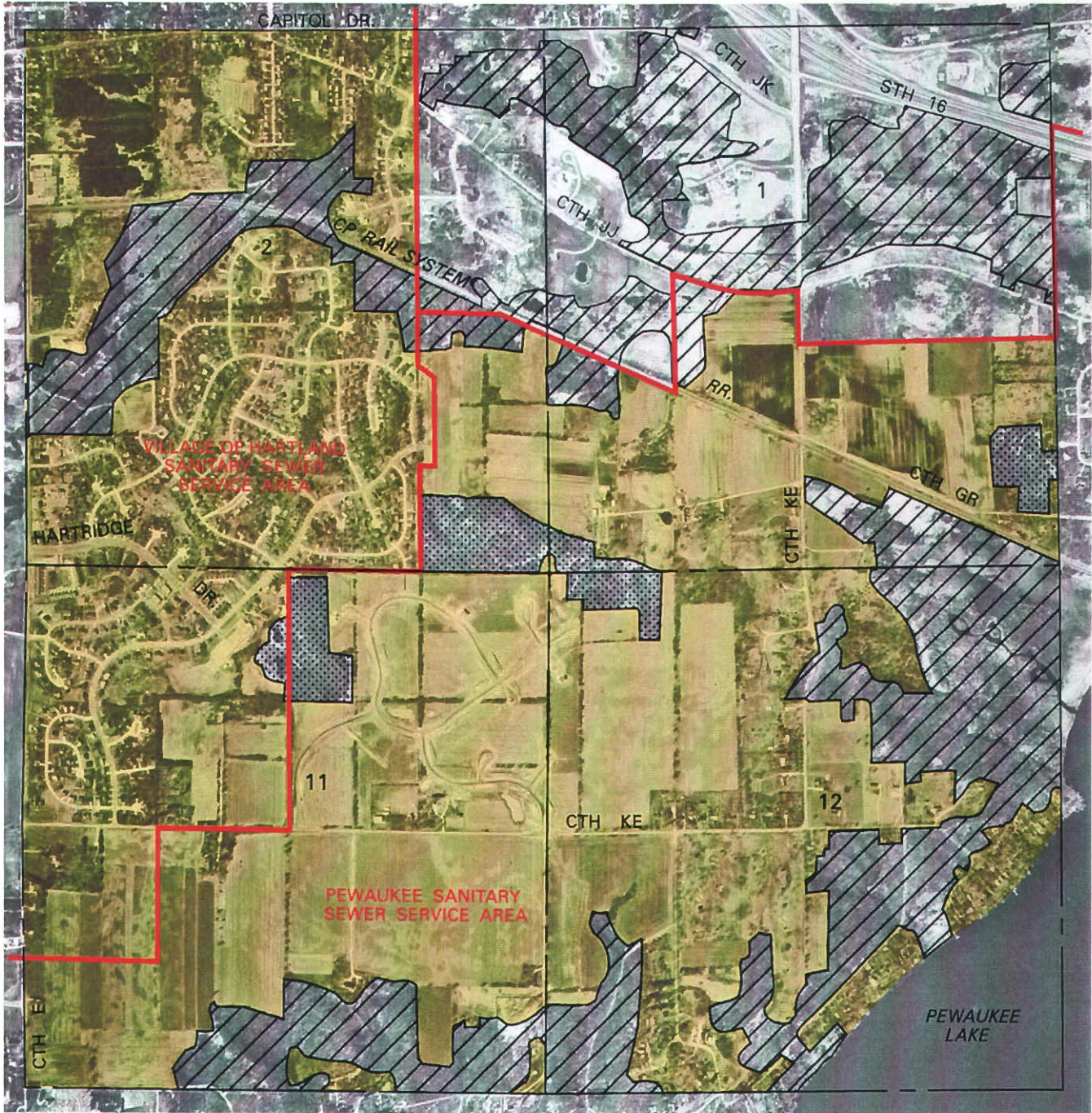
Based upon the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the Pewaukee sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 113 in the manner identified on Map 1. A more detailed delineation of the revised sewer service area and of the environmentally significant lands within is shown on an aerial photograph reproduced as Map 2.








Map 2

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE LAKE PEWAUKEE SANITARY DISTRICT

U. S. Public Land Survey Sections 1, 2, 11, and 12  
Township 7 North, Range 18 East



LEGEND

-  PRIMARY ENVIRONMENTAL CORRIDOR
-  SECONDARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA
-  PLANNED SANITARY SEWER SERVICE AREA
-  GROSS SANITARY SEWER SERVICE AREA BOUNDARY

NOTE: This map replaces Map 2, page 4, of SEWRPC Amendment to the Regional Water Quality Management Plan - 2000, Village of Hartland and Lake Pewaukee Sanitary District, December 1995; Map 8-4, page 28, SEWRPC Community Assistance Planning Report No. 93, Sanitary Sewer Service Area for the Village of Hartland, Waukesha County, Wisconsin, dated April 1985; and Map 8-7, page 32, SEWRPC Community Assistance Planning Report No. 113, Sanitary Sewer Service Area for the Town of Pewaukee Sanitary District No. 3, Lake Pewaukee Sanitary District, and Village of Pewaukee, Waukesha County, Wisconsin, dated June 1985.

