AMENDMENT TO THE
REGIONAL WATER QUALITY MANAGEMENT PLAN
TOWN OF SALEM

AS ADOPTED BY THE
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
SEPTEMBER 2003
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Thomas J. Gorlinski
Sheila M. Siegler

RACINE COUNTY
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Kenneth R. Yunker, PE ............................ Deputy Director
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Robert P. Biebel, PE, PH, ...................... Chief Environmental Engineer
Leland H. Kreblin, RLS ............................. Chief Planning Illustrator
Elizabeth A. Larsen ................................. Business Manager
John G. McDougall ................................. Geographic Information Systems Manager
John R. Meland ................................. Chief Economic Development Planner
Donald M. Reed ................................. Chief Biologist
William J. Stauber, AICP ........................ Chief Land Use Planner
SUBJECT: Certification of Amendment to the Adopted Regional Water Quality Management Plan (Town of Salem Sanitary Sewer Service Area)

TO: The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Kenosha, the Villages of Paddock Lake and Silver Lake, and the Towns of Bristol and Salem.

This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Ozaukee County Administration Building, Port Washington, Wisconsin, on the 10th day of September 2003, the Commission did by unanimous vote of all Commissioners present, being 12 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 Town of Salem 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 Pewaukee, Wisconsin, this 11th day of September 2003.

Thomas H. Buestrin, Chairman
Southeastern Wisconsin
Regional Planning Commission

ATTEST:

Philip C. Evenson, Deputy Secretary
RESOLUTION NO. 2003-10


WHEREAS, pursuant to Section 66.0309(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, the Commission duly adopted amendments to the regional water quality management plan refining and detailing the Salem sanitary sewer service area in 1986, as originally documented in SEWRPC Community Assistance Planning Report No. 143, Sanitary Sewer Service Area for the Town of Salem Utility District No. 2, and in SEWRPC Community Assistance Planning Report No. 145, Sanitary Sewer Service Area for the Town of Salem Utility District No. 1, Village of Paddock Lake, and Town of Bristol Utility District Nos. 1 and 1B, and most recently amended in Amendment to the Regional Water Quality Management Plan, Town of Salem, dated March 2001; and

WHEREAS, by letter dated June 30, 2003, the Town of Salem requested that the Commission amend the Salem sanitary sewer service area to remove certain lands from the currently adopted sewer service area, and to add 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 Town of Salem to Amend the Salem 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 aforereferenced staff memorandum, was the subject of a public hearing held jointly by the Town of Salem and the Regional Planning Commission on August 11, 2003; and

WHEREAS, Section 66.0309(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 7th day of March 2001 to include the refined Salem sewer service area, as set forth in Amendment to the Regional Water Quality Management Plan, Town of Salem, be and the same hereby is amended in the manner identified on Map 1 of the aforereferenced 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 10th day of September 2003, the vote being: Ayes 12; Nays 0.

Thomas H. Buestrin, Chairman

ATTEST:

Philip C. Evenson, Deputy Secretary
INTRODUCTION AND BACKGROUND

By letter dated June 30, 2003, the Town of Salem requested that the Southeastern Wisconsin Regional Planning Commission amend the Salem sanitary sewer service area tributary to the Town of Salem Utility District No. 2 sewage treatment facility. That area is currently documented in Amendment to the Regional Water Quality Management Plan, Town of Salem, dated March 2001.\(^1\) The basic purpose of this amendment would be to include within the planned Salem sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area, and also to remove certain lands from that sewer service area.

AREA DESCRIPTION

Five areas are proposed to be added to the existing Salem sewer service area, as indicated by the red hatch pattern on Map 1. In combination, these areas encompass a total of 470 acres. Of this total, 145 acres are comprised of environmentally significant lands, including 40 acres of primary environmental corridor; 86 acres of secondary environmental corridor; 13 acres of isolated natural resource areas; and 6 acres of wetlands and surface water areas less than five acres in size. The remainder of 325 acres, consisting of developable land located outside environmentally significant areas, is envisioned to be developed for residential use. When fully developed, these areas would accommodate about 245 housing units.

One area is proposed to be removed from the existing Salem sewer service area, as indicated by the blue hatch pattern on Map 1. This area encompasses 40 acres, and includes 7 acres of primary environmental corridor. The remainder of 33 acres is not anticipated to need public sanitary sewer service within the foreseeable future. This area was previously envisioned to accommodate about 35 additional housing units had it remained within the sewer service area.

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

The net effect of the proposed changes described above would be to increase the overall size of the Salem sewer service area by 430 acres, or 4.9 percent. The developable area, excluding environmentally significant lands, would increase by 292 acres. The number of housing units that could be accommodated within the Salem sewer service area would increase by a net of 210 units.

In requesting this sewer service area amendment, Town of Salem officials also informed the Commission staff of changes in the planned future land use pattern for the Town which would impact the findings of the “buildout analysis” for the Salem sewer service area undertaken as part of the March 2001 amendment. A “buildout analysis” is an analysis undertaken by the Commission staff to estimate population and housing units which could be accommodated within a sewer service area, assuming full development in accordance with locally planned land uses—as part of the effort to ensure that each sewer service area is sized in a manner that is consistent with 20-year population projections. Specifically, Town officials indicated that five areas encompassing 155 acres, which were considered as future residential development in the March 2001 buildout analysis, have now been committed to non-residential uses or are now envisioned to be developed at significantly lower residential densities. This effectively reduces the number of housing units to be accommodated within the sewer service area by about 110 units. This

Map 1

RECOMMENDED AMENDMENT TO THE TOWN OF SALEM SANITARY SEWER SERVICE AREA

Source: SEWRPC.
reduction of 110 units, in conjunction with the aforementioned net increase of 210 housing units attributable to proposed sewer service area additions and deletions, results in a net increase of 100 housing units to be accommodated within the Salem sewer service area under buildout conditions.

The buildout analysis conducted as part of the March 2001 sewer service area amendment indicated that the then-proposed Salem sanitary sewer service area would accommodate a population consistent with the Commission’s year 2020-population projections—roughly approximating the high end of the projection range. Given the marginal increase in the number of housing units under buildout conditions attendant to the currently proposed amendment, it may be concluded that the buildout population and housing unit levels of the revised sewer service area as shown on Map 1 would remain consistent with Commission projections for the year 2020.

WATER QUALITY IMPACTS

Under the adopted regional water quality management plan and the amended Salem sanitary sewer service area plan presented herein, it is envisioned that all urban lands within the planned urban service area would ultimately 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.

COST-EFFECTIVENESS ANALYSIS

The proposed additions to the Salem sanitary sewer service area are located immediately adjacent to the currently approved sewer service area tributary to the Town of Salem Utility District No. 2 sewage treatment plant. The nearest other public sanitary sewer systems, operated by the Town of Bristol and the Villages of Paddock Lake and Silver Lake, are located between 1 and 4 miles from the five subject areas. Consequently, no further analysis is deemed necessary to conclude that the subject areas would be served most cost-effectively through connection to the Town of Salem Utility District No. 2 sewage treatment plant.

SEWAGE TREATMENT PLANT CAPACITY IMPACT ANALYSIS

Sewage from the Salem sewer service area is treated at the Town of Salem Utility District No. 2 sewage treatment plant, which has a design capacity of 1.57 million gallons per day (mgd) on an average annual basis. The flow rate in 2002 was about 0.87 mgd on an average annual basis. A net increase of 210 housing units in the areas proposed to be added to and removed from the sewer service area translates into a population of about 530 persons, which would result in sewage flow increase of less than 0.1 mgd on an average annual basis. Thus, the treatment plant has adequate capacity to treat sewage flows from the subject areas.

PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on August 11, 2003, at the Salem Town Office to receive public comment on, and reaction to, the proposed sewer service area amendment. The hearing was sponsored by the Town of Salem and the Regional Planning Commission. A summary of the plan amendment was presented, including a description of the lands proposed to be added to, and deleted from, the sewer service area and the environmentally significant lands within.

During the public comment period, the owner of land abutting the easterly-most of the proposed additions to the sewer service area expressed an interest in having a portion of his property included in the sewer service area. Town officials responded that before additional lands could be added, a feasibility analysis would have to be conducted to determine whether and how the area in question could be provided with sewer service. They indicated that the area in question could be considered in a future amendment to the sewer service area, possibly in conjunction with the neighborhood planning work now being considered by the Town. Most of the other public comments expressed at the hearing pertained to the neighborhood planning efforts under consideration.

Based upon a review of the hearing record, no change to the proposed sewer service area amendment was deemed necessary as a result of the hearing.
LOCAL GOVERNMENT SUPPORT FOR THE PLAN AMENDMENT

The Board of Supervisors of the Town of Salem adopted the plan amendment at its regular meeting following the hearing on August 11, 2003.

CONCLUDING RECOMMENDATION

Based upon the foregoing, it is recommended that the Southeastern Wisconsin Regional Planning Commission formally amend the sanitary sewer service area for the Town of Salem as documented in SEWRPC Community Assistance Planning Report No. 143 in the manner identified on Map 1. A more detailed delineation of the amended sewer service area and of the environmentally significant lands within is shown on the aerial photographs reproduced as Maps 2-6 on the following pages of the report.
Map 2

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF SALEM AND ENVIRONS

U. S. Public Land Survey Sections 3, 4, 9, and 10
Township 1 North, Range 20 East

Primary Environmental Corridor
Secondary Environmental Corridor
Isolated Natural Resource Area
Wetlands and Surface Water Areas Less Than Five Acres in Size
Surface Water Within Environmental Corridors and Isolated Natural Resource Areas
Gross Sanitary Sewer Service Area Boundary

Restictions on Sewered Development

Primary Environmental Corridors within the Planned Sanitary Sewer Service Area: The extension of sewers to serve new development is confined to limited recreational and institutional uses and rural-density residential development in areas other than wetlands, floodlands, shorelands, and steep slopes.

Note:
This map replaces Map 3-8, page 14, of Amendment to the Regional Water Quality Management Plan—Town of Salem, March 2001.

Source: SEWRPC.
Map 3
ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF SALEM AND ENVIRONS

U. S. Public Land Survey Sections 15, 16, 17, and 18
Township 1 North, Range 20 East

RESTRICTIONS ON SEWERED DEVELOPMENT

PRIMARY ENVIRONMENTAL CORRIDORS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IS CONFINED TO LIMITED RECREATIONAL AND INSTITUTIONAL USES AND RURAL-DENSITY RESIDENTIAL DEVELOPMENT IN AREAS OTHER THAN WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES.

PORTIONS OF SECONDARY ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA WHICH ARE COMPRISED OF WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IN THESE AREAS IS NOT PERMITTED.


Source: SEWRPC.
Map 4
ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF SALEM AND ENVIRONS

U. S. Public Land Survey Sections 13, 14, 23, and 24
Township 1 North, Range 20 East

RESTRICTIONS ON SEWERED DEVELOPMENT

Primary Environmental Corridors within the Planned Sanitary Sewer Service Area: The extension of sewers to serve new development is confined to limited recreational and institutional uses and rural-density residential development in areas other than wetlands, floodlands, shorelands, and steep slopes.

 Portions of secondary environmental corridors and isolated natural resource areas within the planned sanitary sewer service area which are comprised of wetlands, floodlands, shorelands, and steep slopes: the extension of sewers to serve new development in these areas is not permitted.

NOTE: This map replaces Map 3-14, page 20, of Amendment to the Regional Water Quality Management Plan-Town of Salem, March 2001.

Source: SEWRPC.
Map 5

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF SALEM AND ENVIRONS

U. S. Public Land Survey Sections 27, 28, 33, and 34
Township 1 North, Range 20 East

Source: SEWRPC.

RESTRICTIONS ON SEWERED DEVELOPMENT

- PRIMARY ENVIRONMENTAL CORRIDORS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IS CONFINED TO LIMITED RECREATIONAL AND INSTITUTIONAL USES AND RURAL-DETHNITY RESIDENTIAL DEVELOPMENT IN AREAS OTHER THAN WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES.
- PORTIONS OF SECONDARY ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA WHICH ARE COMPRISED OF WETLANDS, FLOODLANDS, SHORELANDS, AND STEEP SLOPES: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IN THESE AREAS IS NOT PERMITTED.

NOTE: This map replaces Map 3-18, page 24, of Amendment to the Regional Water Quality Management Plan—Town of Salem, March 2001.

Photography Date: March 1995
Map 6

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE TOWN OF SALEM AND ENVIRONS

U. S. Public Land Survey Sections 25, 26, 35, and 36
Township 1 North, Range 20 East

Photography Date: March 1995

RESTRICTIONS ON SEWERED DEVELOPMENT

- PRIMARY ENVIRONMENTAL CORRIDORS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IS CONFINED TO LIMITED RECREATIONAL AND INSTITUTIONAL USES AND RURAL-DENSITY RESIDENTIAL DEVELOPMENT IN AREAS OTHER THAN WETLANDS, FLOODLands, SHORELANDS, AND STEEP SLOPES.

- PORTIONS OF SECONDARY ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA WHICH ARE COMPRISED OF WETLANDS, FLOODLands, SHORELANDS, AND STEEP SLOPES: THE EXTENSION OF SEWERS TO SERVE NEW DEVELOPMENT IN THESE AREAS IS NOT PERMITTED.

Source: SEWRPC.