

AMENDMENT TO THE

# REGIONAL WATER QUALITY MANAGEMENT PLAN

## VILLAGE OF SUSSEX

AS ADOPTED BY THE  
LISBON  
PEWAUKEE  
SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

DECEMBER 2000

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# SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

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Serving the Counties of:

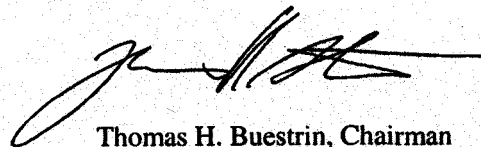
KENOSHA  
MILWAUKEE  
OZAUKA  
RACINE  
WALWORTH  
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**SUBJECT:** Certification of Amendment to the Adopted Regional Water Quality Management Plan (Sussex Sanitary Sewer Service Area)

**TO:** The Legislative Bodies of Concerned Local Units of Government within the Southeastern Wisconsin Region, namely: the County of Waukesha, the Village of Sussex, and the Town of Lisbon.

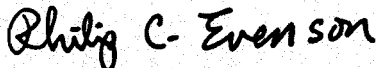
This is to certify that at the meeting of the Southeastern Wisconsin Regional Planning Commission, held at the Milwaukee County Courthouse, Milwaukee, Wisconsin, on the 6th day of December 2000, the Commission did by unanimous vote of all Commissioners present, being 16 ayes and 0 nays, and by appropriate 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 Sussex 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 7th day of December 2000.



Thomas H. Buestrin, Chairman  
Southeastern Wisconsin  
Regional Planning Commission

**ATTEST:**



Philip C. Evenson, Deputy Secretary

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**RESOLUTION NO. 2000-10**

**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  
(SUSSEX 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 7th day of September 1994, the Commission duly adopted an amendment to the regional water quality management plan refining and detailing the Sussex sanitary sewer service area as documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin, September 1994, as amended; and

WHEREAS, by letter dated May 11, 2000, the Village of Sussex requested that the Commission amend the Sussex 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 Village of Sussex to Amend the Sussex 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 Village of Sussex and the Regional Planning Commission on November 21, 2000; 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;

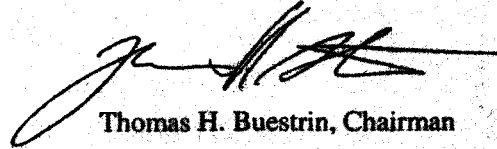
NOW, THEREFORE, BE IT HEREBY RESOLVED:

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 7th day of September 1994 to include the refined Sussex sewer service area, as set forth in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), 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.

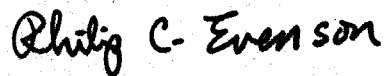
THIRD: That a true, correct, and exact copy of this resolution, together with the aforementioned SEWRPC staff memorandum, shall be forthwith distributed to each of the local legislative bodies of the local governmental units within the Region entitled thereto and to such other bodies, agencies, or individuals 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 6th day of December 2000, the vote being: Ayes 16; Nays 0.



Thomas H. Buestrin, Chairman

ATTEST:



Philip C. Evenson, Deputy Secretary



## SEWRPC STAFF MEMORANDUM

### RESPONSE TO REQUEST BY THE VILLAGE OF SUSSEX TO AMEND THE SUSSEX SANITARY SEWER SERVICE AREA

#### INTRODUCTION AND BACKGROUND

By letter dated May 11, 2000, the Village of Sussex requested that the Southeastern Wisconsin Regional Planning Commission amend the Sussex sanitary sewer service area tributary to the Village of Sussex sewage treatment facility. That area is currently documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), *Sanitary Sewer Service Area for the Village of Sussex, Waukesha County, Wisconsin*, dated September 1994, as amended. The basic purpose of this amendment would be to include within the planned Sussex sewer service area certain lands located immediately adjacent to, but outside of, the currently adopted sewer service area.

#### AREA DESCRIPTION

The area proposed to be added to the Sussex sanitary sewer service area encompasses 79 acres located in U.S. Public Land Survey Section 14, Township 8 North, Range 19 East, in the Village of Sussex, and is shown with a red hatch pattern on Map 1. The area includes 10 acres of secondary environmental corridor consisting of upland woods, 66 acres of agricultural land use, and two existing housing units on three acres of residential land. The subject area is proposed to be developed to accommodate 48 housing units with an attendant population of about 135 persons.

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

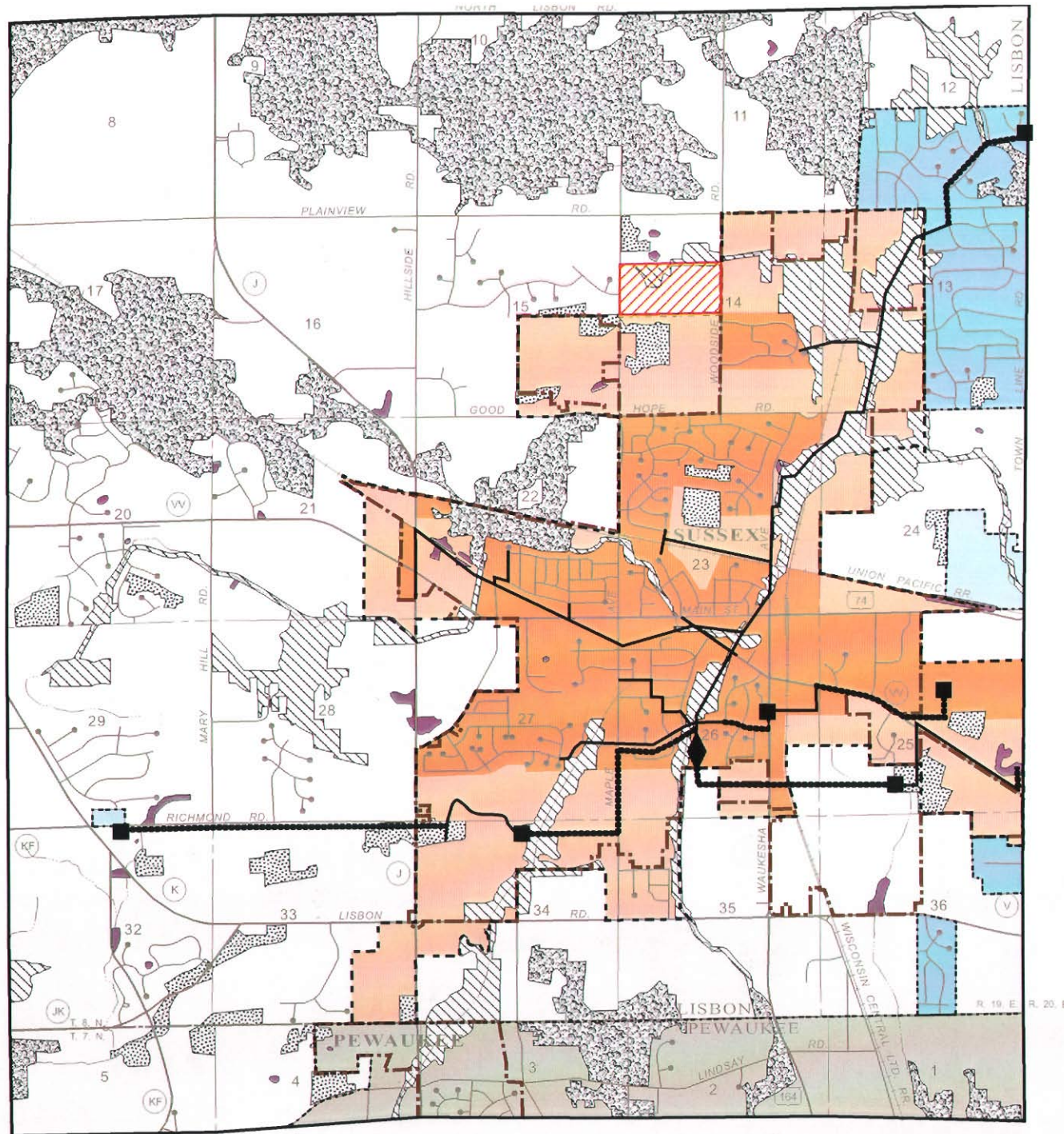
The proposed addition of 79 acres to the Sussex sanitary sewer service area represents a minor increase in the planned sewer service area of about two percent, and the associated resident population of 135 persons would represent a minor increase in the population of the sewer service area. Thus, the areal extent and planned population of the Sussex sanitary sewer service area would not change significantly.

#### 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 developed and 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.

#### COST-EFFECTIVENESS ANALYSIS

The proposed addition to the Sussex sewer service area lies adjacent to the current sewer service area which is tributary to the Village of Sussex sewage treatment plant. The nearest other public sanitary sewer systems, those tributary to the Brookfield system and the Milwaukee Metropolitan Sewerage District, are located from three to five miles to the east and south of the subject area. In this regard, a common sewer service area boundary has been agreed upon between the communities of Brookfield, Menomonee Falls, Pewaukee, and Sussex as set forth in SEWRPC Community Assistance Planning Report Nos. 109 and 208. That agreement was based upon cost effectiveness analyses set forth in a report entitled *Amendment to the Regional Water Quality Management Plan, Upper Fox River Watershed, Brookfield and Sussex Sewage Treatment Plants*, May 1989. Thus, the most cost-effective means of providing public sewer service to the entire Sussex service area is through the Village of Sussex sewerage system.



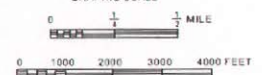
Map 1

# **RECOMMENDED REVISION TO THE VILLAGE OF SUSSEX SANITARY SEWER SERVICE AREA**

- PRIMARY ENVIRONMENTAL CORRIDOR
- SECONDARY ENVIRONMENTAL CORRIDOR
- ISOLATED NATURAL RESOURCE AREA
- WETLANDS AND SURFACE WATER AREAS LESS THAN 5 ACRES IN SIZE
- PLANNED SANITARY SEWER SERVICE AREA BOUNDARY
- EXISTING AREA SERVED BY VILLAGE OF SUSSEX SANITARY SEWERS: 1995
- PLANNED SANITARY SEWER SERVICE AREA: 2010
- LANDS TO BE ADDED TO THE SUSSEX SANITARY SEWER SERVICE AREA
- EXISTING PUBLIC SEWAGE TREATMENT FACILITY
- EXISTING PUMPING STATION
- EXISTING TRUNK SEWER
- EXISTING FORCE MAIN
- 1998 VILLAGE BOUNDARIES
- OTHER SANITARY SEWER SERVICE AREAS TRIBUTARY TO THE SUSSEX SEWAGE TREATMENT PLANT**
  - TOWN OF LISBON SANITARY DISTRICT NO. 1
  - TOWN OF LISBON
- OTHER**
  - SANITARY SEWER SERVICE AREAS TRIBUTARY TO THE FOX RIVER WATER POLLUTION CONTROL CENTER SEWAGE TREATMENT PLANT



GRAPHIC SCALE





## SEWERAGE SYSTEM CAPACITY IMPACT ANALYSIS

The existing Village of Sussex sewage treatment plant has a hydraulic design capacity of about 3.2 million gallons per day (mgd) on an average annual flow basis. This treatment plant capacity is shared by the Villages of Sussex, Lannon, and Menomonee Falls; the Town of Lisbon Sanitary District No. 1; and the Town of Lisbon. The allocation of the 3.2 mgd plant capacity for each unit of government concerned is reported in detail in the sanitary sewer service area plan for the Village of Sussex and environs.<sup>1</sup> The Village of Sussex has been allocated 1.92 mgd of the treatment plant capacity, and about 1.5 mgd of the current loading was attributable to the Village of Sussex in 2000. The anticipated sewage flow to be generated in the area proposed to be added to the Sussex sewer service area may be expected to be about 0.017 mgd on an average annual basis upon full development.

The Village performed an analysis of impacts on the Village sewage treatment plant allocation resulting from full development of the area proposed to be added to the sewer service area, as well as the other developable lands in the service area. That analysis included a revision of some of the initial assumptions used to establish the Village's allocation to reflect actual residential densities, as well as industrial land flow estimates based upon the Village's experiences with recently developed areas. The analysis concludes that the Village's current sewage treatment plant allocation will be adequate to provide capacity through the year 2004, at a minimum. Depending upon the extent of infiltration and inflow experienced in new development, the current capacity may be adequate for a longer period of time. The Village of Sussex is currently preparing a facility plan for expansion of its sewage treatment plant to increase capacity from 3.2 mgd to as much as 5.1 mgd. The envisioned schedule provides for the plant expansion to be completed late in the year 2004. Thus, treatment plant capacity should be adequate to serve the areas proposed herein to be added to the sewer service area.

## PUBLIC REACTION TO THE PLAN AMENDMENT

A public hearing was held on November 21, 2000, at the Sussex Village Hall to receive public comment on, and reaction to, the proposed plan amendment. The hearing was sponsored by the Village of Sussex and the Regional Planning Commission. A summary of the plan amendment was presented prior to receiving public comment, including a description of the lands proposed to be added to the sewer service area and any environmentally significant lands located within, along with a description of potential impacts for the Village's sewerage system.

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 Board of Trustees of the Village of Sussex adopted the plan amendment on November 21, 2000.

## 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 Sussex area as documented in SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), as amended, 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.

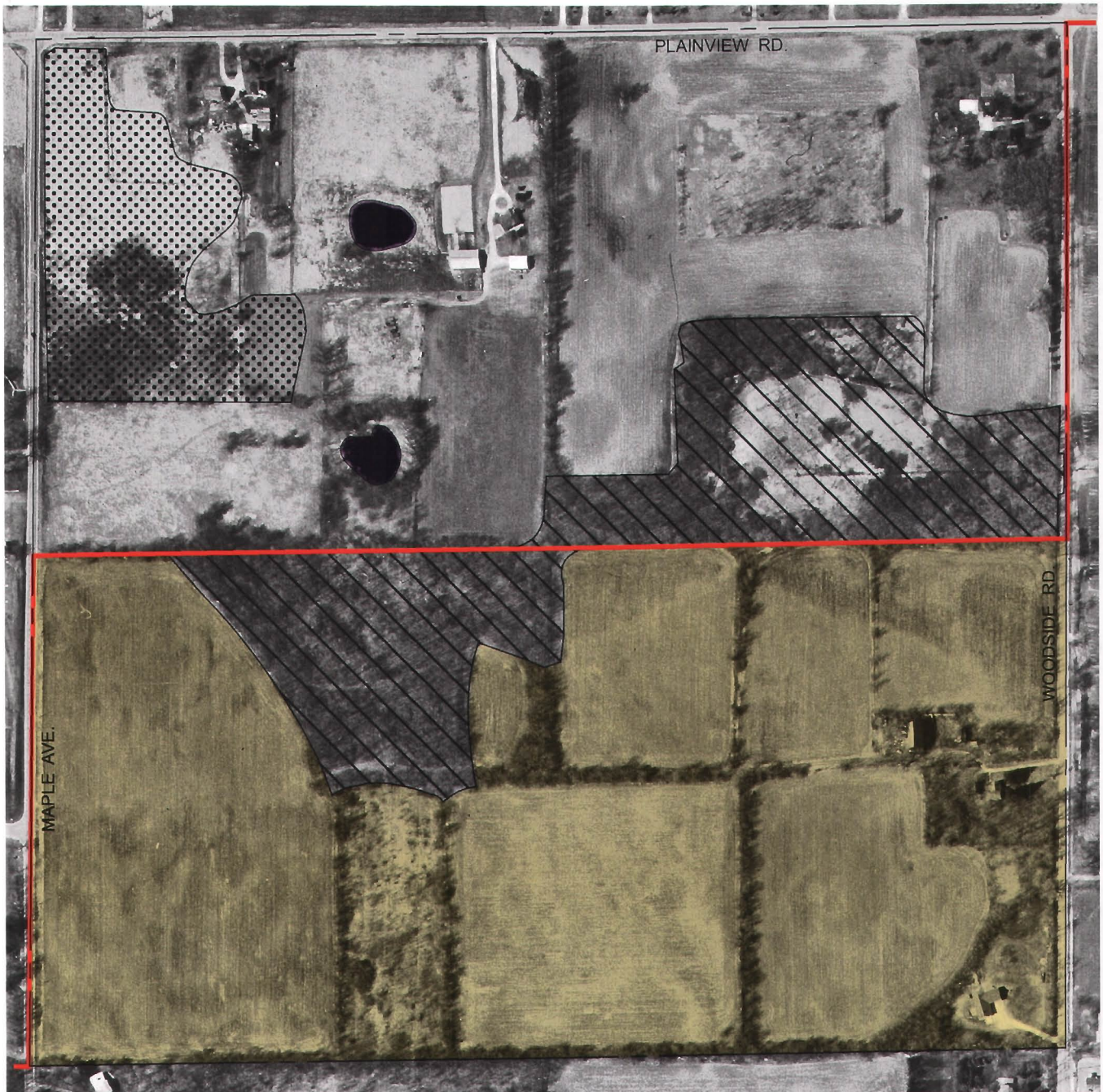
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<sup>1</sup>See SEWRPC Community Assistance Planning Report No. 84 (2nd Edition), Sanitary Sewer Service Area for the Village of Sussex, dated September 1994, as amended.

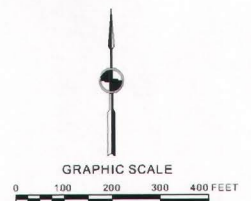
Map 2

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED  
SANITARY SEWER SERVICE AREA FOR THE VILLAGE OF SUSSEX

Northwest Quarter of U. S. Public Land Survey Section 14  
Township 8 North, Range 19 East



-  SECONDARY ENVIRONMENTAL CORRIDOR
-  ISOLATED NATURAL RESOURCE AREA
-  WETLANDS AND SURFACE WATER  
AREAS LESS THAN FIVE ACRES IN SIZE
-  PLANNED SANITARY SEWER SERVICE AREA
-  GROSS SANITARY SEWER SERVICE AREA BOUNDARY



Source: SEWRPC.