1231

COPY FOR Herrick SWMP MEETING REVIEW

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

BRP WM 08A NPDES Stormwater General Permit

Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

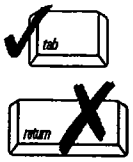
Transmittal Number

MCMs #4 #5 SUPERCEDED

Facility ID (if known)

A. Instructions

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Submission of this Notice of Intent constitutes notice that the entity named at item B1. of this form intends to be authorized by the DEP General Permit issued jointly with EPA for stormwater discharges from the small municipal separate storm sewer system (MS4), in the location identified at item B2. of this form. Submission of the Notice of Intent also constitutes notice that the party identified at item B1. has read, understands and meets the eligibility conditions of Part I.B. of the NPDES Small MS4 General Permit, agrees to comply with all applicable terms and conditions of the NPDES Small MS4 General Permit, and understands that continued authorization to discharge is contingent on maintaining eligibility for coverage. **In order to be granted coverage, all information required on BRP WM 08A, including the Stormwater Management Program Summary and Time Frames form, must be completed. Please read the permit and make sure you comply with all requirements, including the requirement to develop and implement a stormwater management program.**

B. Applicant Information

1. Small MS4 Operator/Owner Information:

Town of West Newbury - Board of selectmen — Contact: Gary Bill, Highway Superintendent
Name

381 Main St. — (978-363-1106)
Mailing Address

West Newbury — Mass. 01985
City/Town — State

978-363-1100 — Email (if available)
Telephone Number

2. Municipality Name

Town of West Newbury
City/Town

3. Legal Status:

☐ Federal ☒ City/Town ☐ State ☐ Tribal ☐ Private

☐ Other public entity: _____
Specify Public Entity

4. Other regulated MS4(s) within municipal boundaries:

Route 113 (state highway)

5. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for "listed species" and critical habitat been met?

☒ yes ☐ pending ☐ no

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B. Applicant Information (cont.)

6. Based on the instructions provided in Part I of the NPDES Small MS4 General Permit, have the eligibility criteria for protection of historic properties been met?

☒ yes ☐ pending ☐ no

Note: Section C may be duplicated to accommodate a larger list of receiving waters

C. Names of (Presently Known) Receiving Waters

Receiving Water:	No. of Outfalls	Listed as Impaired?	Impairment
Merrimack River (Name)	(Number)	☒ Yes ☐ No	Priorty organics, unionized ammonia,pathogens
Indian River (Name)	(Number)	☐ Yes ☐ No	(Specify)
Mill Pond (Name)	(Number)	☐ Yes ☐ No	(Specify)
Beaver Brook (Name)	(Number)	☐ Yes ☐ No	(Specify)
Sawmill Brook (Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)
(Name)	(Number)	☐ Yes ☐ No	(Specify)

D. Stormwater Management Program Summary

JUL 3 1 2003

MUNICIPAL ASSISTANCE UNIT

BRP WM 08A NPDES Stormwater General Permit

Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

Transmittal Number

Facility ID (if known)

1. Public Education:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
1A	Public education seminars	Board of Selectmen	Number of seminars
1B	Storm Water flyers/pamphlets	Board of Selectmen	Flyers distributed/materials collected
1C	Web page	Board of Selectmen	No. of visits

2. Public Participation:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
2A	Comment and question and answer sessions at seminars	Board of Selectmen	No. of seminars
2B	Volunteer cleanup and monitoring	Open Space Committee	No. of activities per year

D. Stormwater Management Program Summary (Cont.)

3. Illicit Discharge Detection and Elimination:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
3A	Storm drain systen map	West Newbury Road Superintendent	Produce the map
3B	Ordinance prohibiting illicit discharges	Board of Selectmen	Adoption

4. Construction Site Runoff Control:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
4A	Regulating erosion and sediment control at sites	West Newbury Planning Board	Success rate identified

D. Stormwater Management Program Summary (Cont.)

5. Post Construction Runoff Control:

5A BMP ID #		
Enforcement of Storm water policy Specify Best Management Practice	West Newbury Conservation Commision Responsible Dept./Person Name	Success rate identified Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

6. Municipal Good Housekeeping:

6A BMP ID #		
Dev. a municipal O&M plan Specify Best Management Practice	West Newbury Road Superintendent Responsible Dept./Person Name	No. of structures and streets cleaned Specify Measurable Goal
6B BMP ID #		
Upgrade drainage systems Specify Best Management Practice	West Newbury Road Superintendent Responsible Dept./Person Name	No. of upgrades per year Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #		
Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

D. Stormwater Management Program Summary (cont.)

7. BMPs for Meeting TMDL:

BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal
BMP ID #	Specify Best Management Practice	Responsible Dept./Person Name	Specify Measurable Goal

E. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name R.H. Knowles ; Chair, Board of Selectmen

Signature

Date 28 July 03

2.0 DESCRIPTION

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West Newbury is located approximately 35 miles north of Boston in the Merrimack Valley region. Encompassing an area of roughly 14 square miles, it is bordered on the north and west by the Merrimack River, on the east by Newburyport, and on the south by Newbury and Groveland. The Town falls primarily within the Merrimack River watershed, but the southeastern portion of Town lies within the Parker River watershed. The town is just inland of the coastal zone, and is characterized by a rolling landscap4r of hills, open fields, and woods interlaced by freshwater wetlands.

Community Character

West Newbury is, for the most part, a semi-rural residential community which once boasted many working farms. Today, as old agricultural fields and wood lots are sold to developers, the Town is becoming increasingly suburbanized. During the 1990s, West Newbury lost a great deal of open space, particularly along the Merrimack River and off of Route 113 (Main Street), to new housing developments.

Commerce

There are no industries in West Newbury, and there are relatively few commercial establishments, Aside from individuals who farm their own lands, work at small local businesses, or telecommute, most residents drive to work in other nearby towns, or to more distant jobs via nearby freeways (Routes I-95 and I-495). These roads offer easy access to Boston and Route 128 and Route 495 corridors, making West Newbury an attractive location for commuters.

Growth

Like West Newbury, several of its smaller neighboring communities (Newbury, Groveland and Merrimac) are experiencing unprecedented growth, which is having a major impact on schools and Town services. The communities are grappling with this issue in a variety of ways which include current Open Space Planning efforts, Master Plan efforts, Master Plan efforts, and proposed growth management bylaws.

Government

West Newbury was incorporated in 1819 and has an Open Town Meeting form of government and a three member elected Board of Selectmen. There are 2,343 registered voters in the community. The town is presently building a safety complex on Main St. to incorporate the fire and police departments.

Water

Our source of drinking water comes from well field #1, which is located at 999 Main St. The well field is comprised of eight individual driven wells that are manifolded together. We have approximately twenty- eight miles of water main, two water storage tanks and one booster transfer station. We supply eight hundred and eighty services, which is approximately sixty-four percent of the town. In addition, we purchase water from the City of Newburyport. Their water supply is comprised of eighty percent surface water and twenty percent ground water. The surface water comes from the Indian Hill Reservoir, located on Moulton Street in West Newbury and the Artichoke Reservoir, located next to the West Newbury well field at 999 Main St. Their ground water comes from two separate gravel packed wells located at Ferry Rd. in Newburyport. During the 1999 Fall Special Town meeting, the residents of West Newbury voted to adopt the Ground Water Protection Bylaw that was presented to the Town by the Planning Board on behalf of the Water Department.

Stormwater

West Newbury has no municipal sewage system and any storm water runoff for the streets is handled by MS4's or country drainage.

3.0 MINIMUM CONTROL MEASURES

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According to the NPDES phase II Rule, small MS4 owners must reduce pollutants in storm water to the maximum extent practicable. This is accomplished by developing a storm water management program that addresses six minimum control measures by defining Best Management Practices (BMPs) and associated measurable goals for each of the control measures. The measurable goals selected are used to evaluate the effectiveness of each control measure and the purpose of the storm water management program as a whole.

3.1 Control Measure #1: Public Education and Outreach

BPM ID #1A: Public education seminars

Responsible Party: West Newbury Board of Selectmen

Measurable Goal: Number of seminars per year

Most contamination generated in town comes from the residents themselves. Through the use of seminars focusing on what the homeowner can do to protect water supplies will contribute greatly in stopping this problem. The Conservation Commission already sets their own guidelines to keep wetlands protected through the use of erosion control, no-disturb zones and best manage practices but could enhance its message by joining in to help sponsor the seminars.

BPM ID #1B: Storm water educational flyers and pamphlets

Responsible Party: West Newbury Board of Selectmen

Measurable Goal: Number of flyers distributed per year and amount of hazardous materials collected

West Newbury has available educational materials located at the Conservation, Health and Water offices indicating the importance of proper use and disposal of fertilizers, pesticides, gas, oil and other hazardous materials. The Water Dept. currently has on display in the lobby materials related to lawn care and how to protect our water resources. Since the town does not have any industrial base, education is limited to the small number of business and the general public. Currently the town offers a hazardous materials collection day once a year. The town will create flyers/pamphlets which are relevant to storm water issues.

→ Grammar School - W. Newbury Elem.
→ Regional School (Merrimack, Groveland)
→ Con Com Ed. Program

BPM ID #1C: Storm water information on the town web page

Responsible Party: West Newbury Board of Selectmen

Measurable Goal: Document web page visits

The town will add to their existing web pages material generated from the creation of flyers and pamphlets to enhance the availability of such materials.

3.2 Control Measure #2: Public Involvement/Participation

BPM ID #2A: Comment and Q&A sessions at seminars

Responsible Party: West Newbury Board of Selectmen

Measurable Goal: Number of seminars per year

Time will be allocated at the end of information seminars to allow the public to ask questions with the goal being to educate and involve the public as to their responsibilities in helping the town keep our discharges clean. An important part of effective public education has to do with whether or not the audience understands the subject matter and if they are part of the discussion.

BPM ID #2B: Volunteer cleanup and monitoring

Responsible Party: Open Space Committee

Measurable Goal: Number of activities per year

As the public becomes more and more involved with the storm water management program, activities can be planned to clean up and monitor streams, wetlands, and roadside swales. These activities can be posted or advertised and be directed towards specific community service groups, such as the Boy Scouts.

3.3 Control Measure #3: Illicit Discharge, Detection and Elimination

BPM ID #3A: Storm Drain System Map

Responsible Party: West Newbury Highway Superintendent

Measurable Goal: produce a map

The first step for illicit discharge and elimination is to map the entire municipal drainage systems and locate all discharge areas

BPM ID #3B: Development of an ordinance prohibiting illicit discharges

Responsible Party: West Newbury Board of Selectmen

Measurable Goal: Adoption of an ordinance

An ordinance will be developed and implemented which defines and prohibits illicit non storm water discharges into the system and include enforcement, procedures and actions. Examples of illicit discharges and who and where to report them will be discussed at public forums and information pamphlets will be mailed.

3.4 Control Measure #4: Construction Site Runoff Control

See LTR 12/4 w/ Revised 3.4 & 3.5 re: Bylaws.

BPM ID #4A: Regulating erosion and sediment control at construction sites

Responsible Party: West Newbury Planning Board

Measurable Goal: Success rate identified

During the site plan review process the town will work to outline the BMPs which may be implemented at a given construction site that are appropriate based on conditions including soil characteristics, topography and downstream wetlands and waters. It will also outline the control of wastes, including but not limited to, discarded building materials, vehicle wash out, chemicals and sanitary wastes. The Planning Board and Conservation shall work on more defined procedures for erosion and control inspection, time frames for inspection, enforcement of control measures and monetary penalties for noncompliance.

3.5 Control Measure #5: Post Construction Runoff Control

BPM ID #5A: Enforcement of the Mass DEP, Wetland Protection Act Storm Water Management Policy on projects disturbing greater than one acre.

Responsible Party: West Newbury Conservation Commission

Measurable Goal: Success rate identified

The Town of West Newbury already enforces the DEP Wetland Protection Act Stormwater Management Policy. The current and new operation and maintenance plans will be checked to include storm water management system owners, parties responsible for operation and maintenance and if schedules and tasks are outlined and completed on time. The Commission will identify and review the requirements of the operation and maintenance plans that are currently operating successfully and incorporate them into its requirements and upgrade those in need of improvement.

3.6 Control Measure #6: Municipal Good Housekeeping

BPM ID #6A: Development of a municipal Operation and Maintenance Plan

Responsible Party: West Newbury Road Superintendent

Measurable Goal: Number of structures and streets cleaned

The plan will show streets, catch basins, manholes and culvert pipes. All catch basins shall be cleaned and documented annually. Catch basins will be inspected annually for damage or illicit pollution. Streets will be swept annually.

BPM ID #6B: Upgrade of inadequate drainage systems

Responsible Party: West Newbury Road Superintendent

Measurable Goal: Number of upgrades per year

The Highway Department is responsible for the maintenance and upgrades to all town drainage. We have been working on this for several years and have been trying to locate and fix the drainage areas that pose the worst pollution and erosion problems. Areas mainly targeted are old rusted culverts and replacing them and doing away with open ditches, replacing them with catch basins and new piping to prevent erosion.

4.0 IMPLEMENTATION TIME FRAME

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management

BRP WM 08A NPDES Stormwater General Permit Notice of Intent

for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)

F. Storm Water Management Program TIME FRAMES

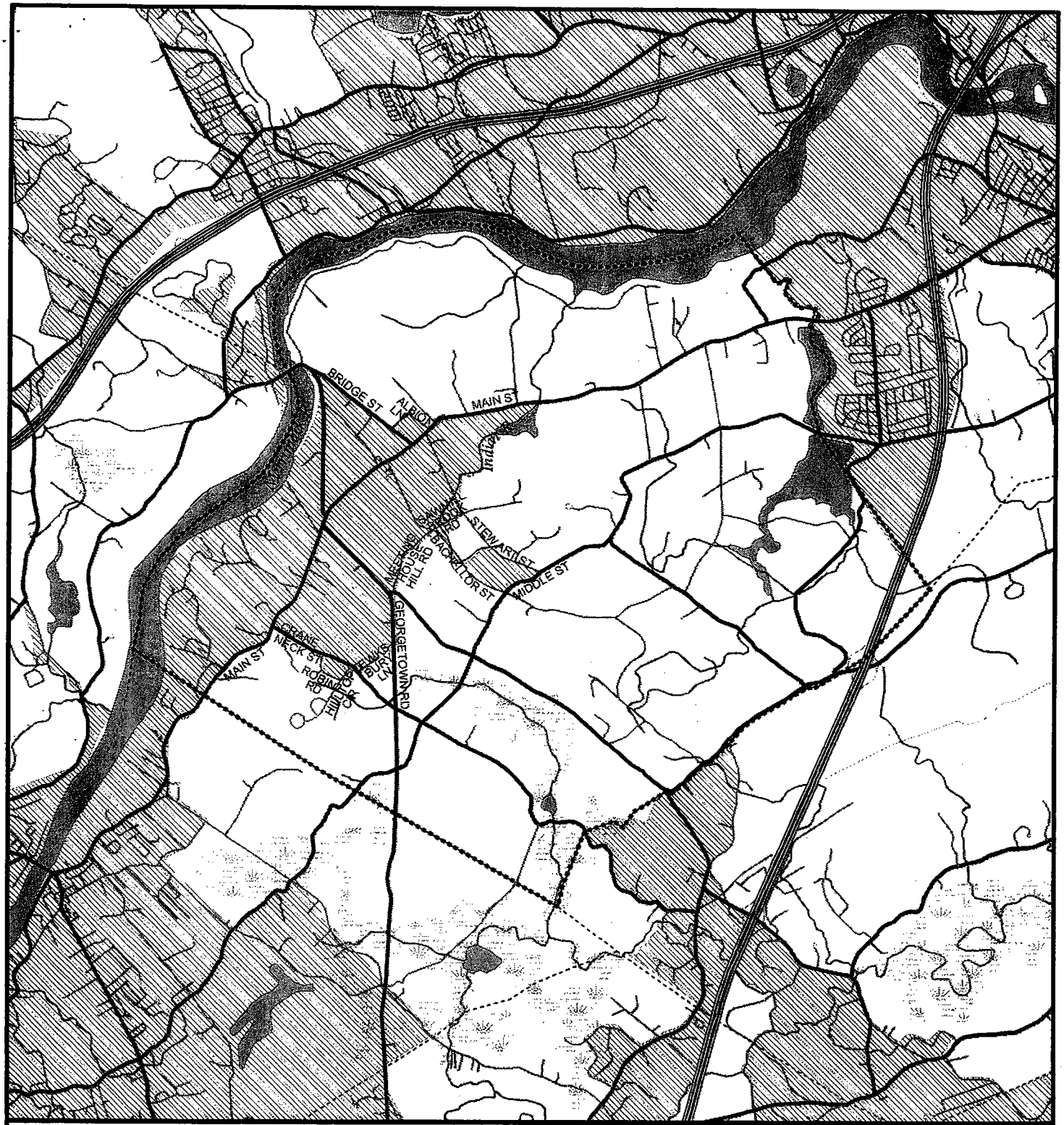
Transmittal Number

Facility ID (if known)

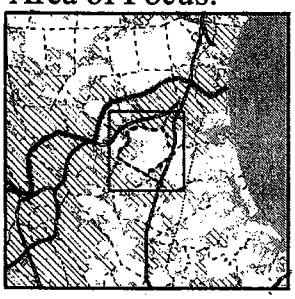
Page _____ of _____

	PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE				PERMIT YEAR FOUR				PERMIT YEAR FIVE				
BMP ID #	Spring 03	Summer 03	Fall 03	Winter 03-04	Spring 04	Summer 04	Fall 04	Winter 04-05	Spring 05	Summer 05	Fall 05	Winter 05-06	Spring 06	Summer 06	Fall 06	Winter 06-07	Spring 07	Summer 07	Fall 07	Winter 07-08	Next Permit
1A					X				X				X								
1B				—	—	—															
1C																					
2A					X				X				X								
2B					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3A			—	—	—	—	—														
3B					—	—															
4A			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5A			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

FIGURES



Area of Focus:



NPDES Phase II Stormwater Program Automatically Designated MS4 Areas

West Newbury, Massachusetts

West Newbury Town Boundary

Regulated Area (2000 Urbanized Area)

Town Population: 4,149
Regulated Population: 1,819

N
W E
S

EPA New England

0 0.4 0.8 1.2 Miles

Data Sources: Urbanized Areas from US Census Bureau (2000). Political boundaries from MassGIS. Hydrography from NHD. Transportation data from GDT at 1:24,000.
Map Created: 11/25/02; US EPA- New England GIS Center
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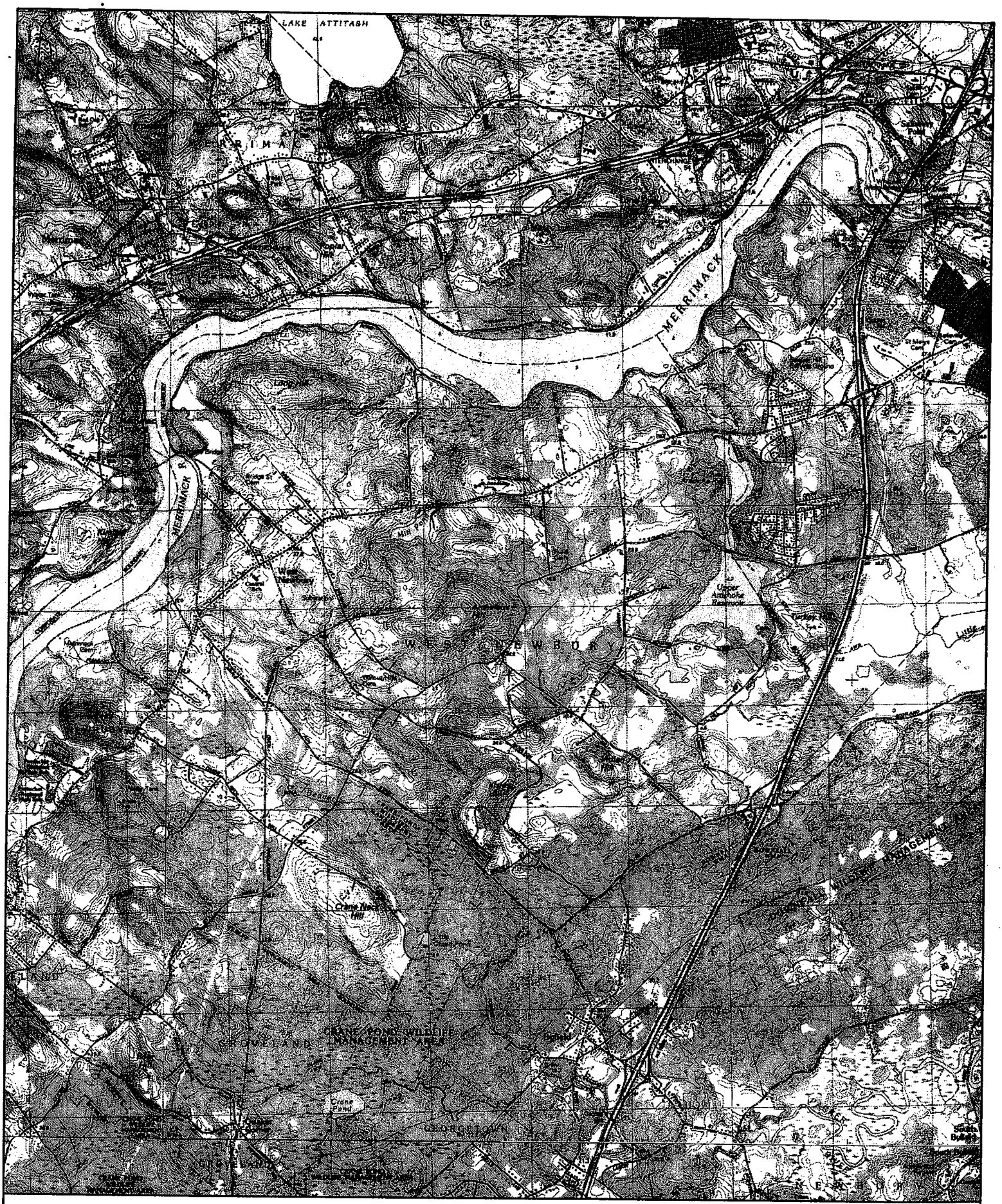


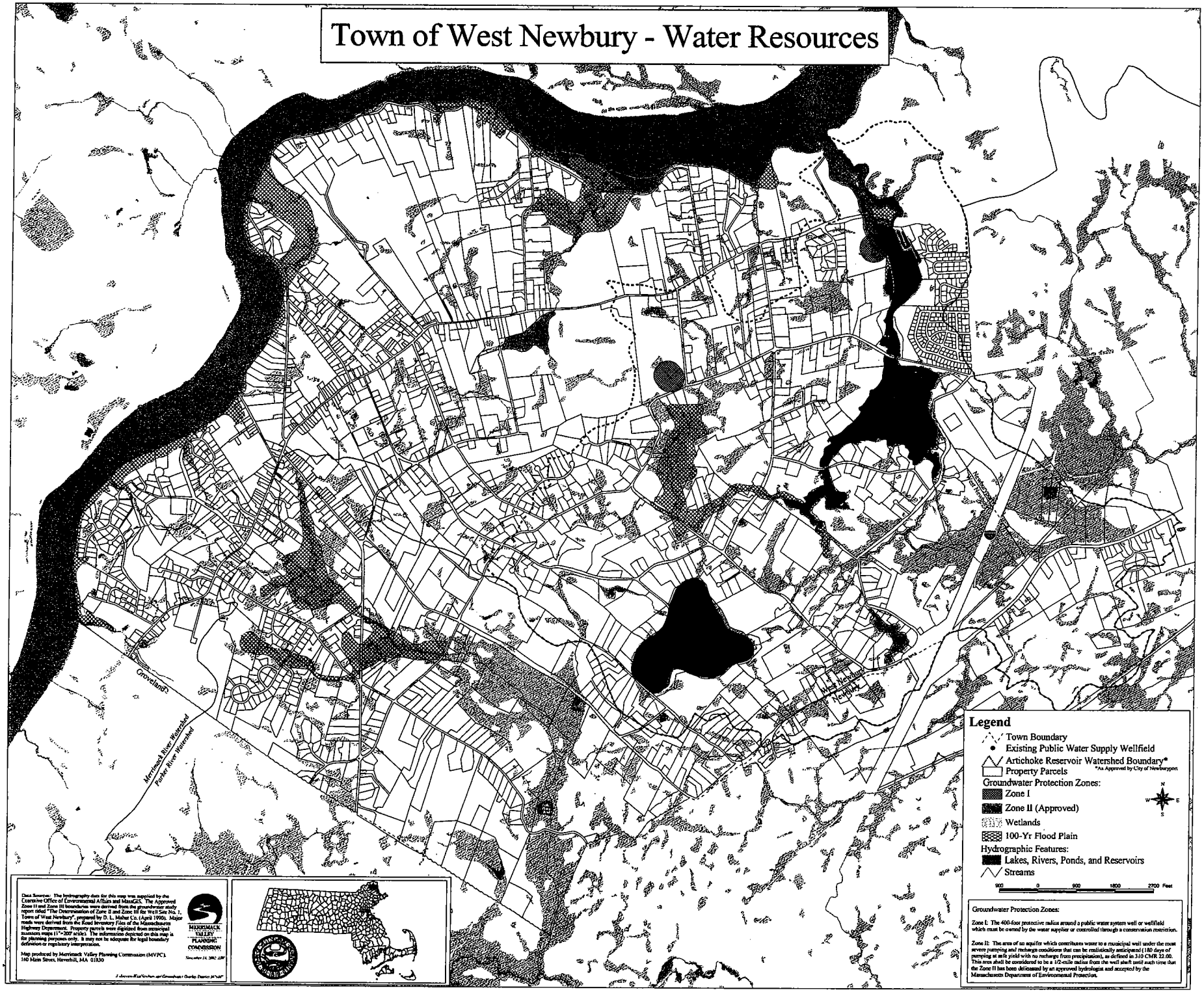
Name: NEWBURYPORT
Date: 7/17/2003
Scale: 1 inch equals 4000 feet

Location: 042° 47' 52.5" N 070° 57' 34.8" W
Caption: WEST NEWBURY

Copyright (C) 1997, Maptech, Inc.

ESTIMATED HABITATS OF RARE WILDLIFE AND CERFIFIED VERNAL POOLS

Town of West Newbury - Water Resources



Legend

- Town Boundary
- Existing Public Water Supply Wellfield
- Artichoke Reservoir Watershed Boundary*
- Property Parcels

*As Approved by City of Newburyport

Groundwater Protection Zones:

- Zone I
- Zone II (Approved)
- Wetlands
- 100-Yr Flood Plain

Hydrographic Features:

- Lakes, Rivers, Ponds, and Reservoirs
- Streams

900 0 900 1800 2700 Feet

Groundwater Protection Zones:

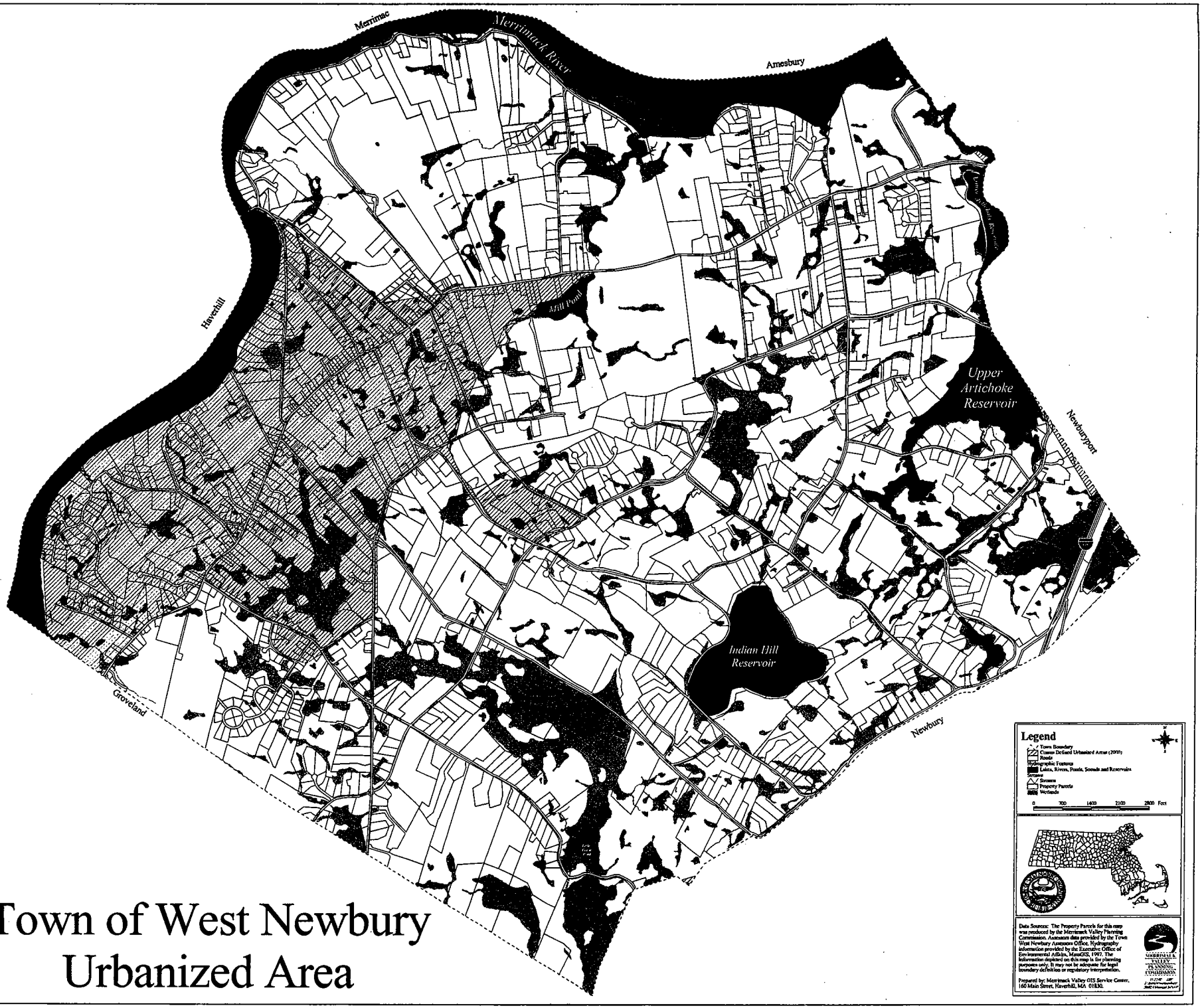
Zone I: The 400-foot protective radius around a public water system well or wellfield which must be owned by the water supplier or controlled through a conservation restriction.

Zone II: The area of an aquifer which contributes water to a municipal well under the most severe pumping and recharge conditions that can be realistically anticipated (180 days of pumping at safe yield with no recharge from precipitation), as defined in 310 CMR 22.00. This area shall be considered to be a 1/2-mile radius from the well shaft until such time that the Zone II has been delineated by an approved hydrologist and accepted by the Massachusetts Department of Environmental Protection.

Data Sources: The hydrography data for this map was supplied by the Executive Office of Environmental Affairs and MassGIS. The Approved Zone II and Zone III boundaries were derived from the groundwater study report titled "The Determination of Zone II and Zone III for Well Site No. 1, Town of West Newbury", prepared by D. L. Maher Co. (April 1990). Major roads were derived from the Road Inventory Files of the Massachusetts Highway Department. Property parcels were digitized from municipal assessors maps (1"=200' scale). The information depicted on this map is for planning purposes only. It may not be adequate for legal boundary definition or regulatory interpretation.

Map produced by Merrimack Valley Planning Commission (MVPC) 160 Main Street, Haverhill, MA 01830

MERRIMACK VALLEY PLANNING COMMISSION



Town of West Newbury
Urbanized Area

Figure 6

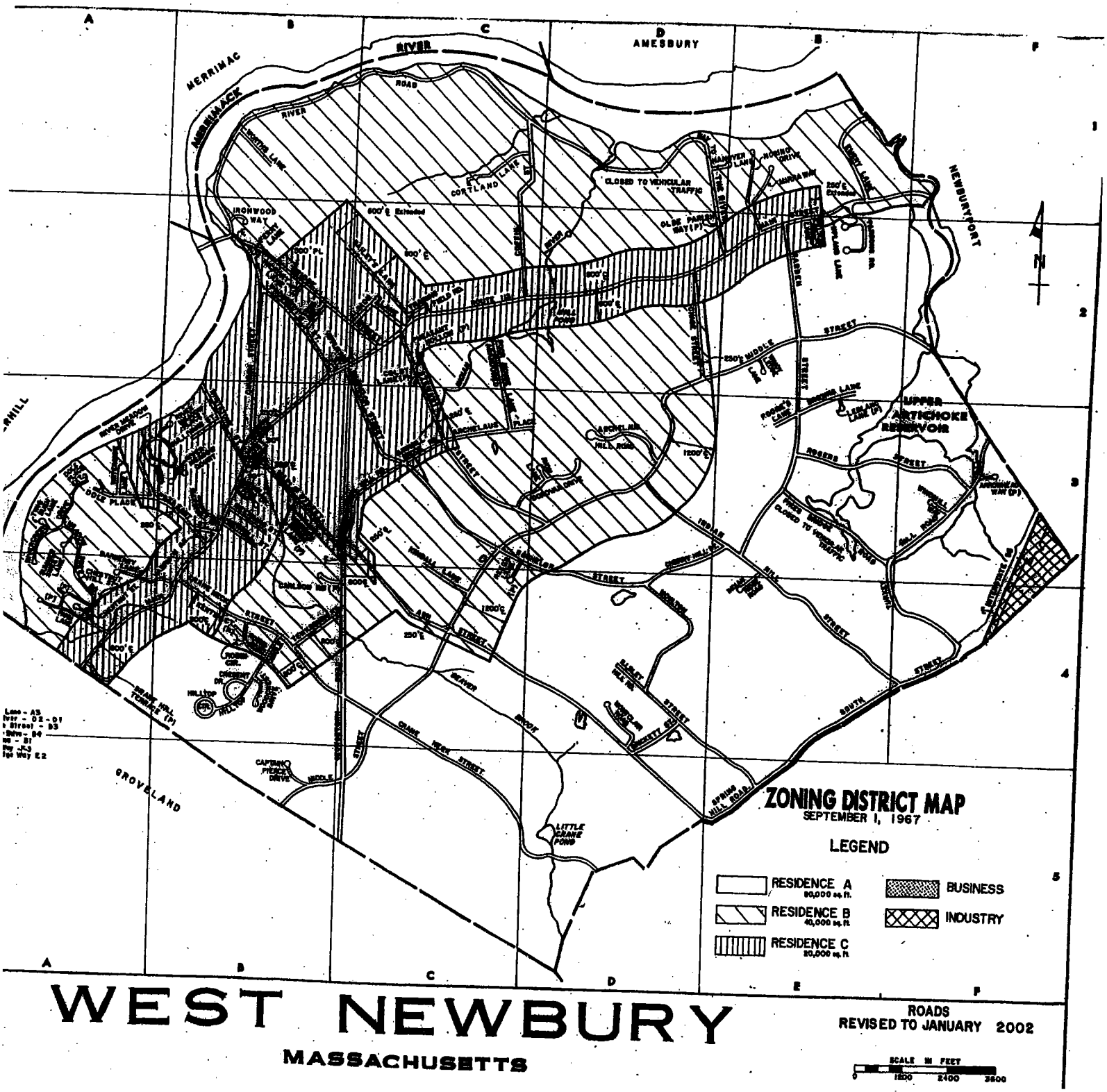

ZONING DISTRICT MAP
SEPTEMBER 1, 1967
LEGEND
RESIDENCE A
80,000 sq. ft.
RESIDENCE B
40,000 sq. ft.
RESIDENCE C
20,000 sq. ft.
BUSINESS
INDUSTRY
WEST NEWBURY
MASSACHUSETTS
ROADS
REVISED TO JANUARY 2002
SCALE IN FEET
0
1200
2400
3600
AMESBURY
MERRIMAC
NEWBURYPORT
GROVELAND
UPPER ARTICHOKE RESERVOIR
CLOSED TO VEHICULAR TRAFFIC
LITTLE CRANE POND
CAPTAIN PIERCE DRIVE
HILLTOP
CRANE NECK STREET
SPRING HILL ROAD
SOUTH STREET
INDIAN HILL STREET
ROGERS STREET
MIDDLE STREET
ARCHELAUS HILL ROAD
CORTLAND LANE
IRONWOOD WAY
DOLE PLACE
RIVER MEADOW DRIVE
CHESTNUT HILL
ARCHELAUS PLACE
OLDE PARISH WAY (P)
HANOVER LANE
HOBING DRIVE
MURRAY WAY
ARROWHEAD WAY (P)
BEAVER BROOK
SLIGHT HILL RD.
WOODCLAIR ROAD
BRAKE HILL TERRACE (P)
A
B
C
D
E
F
1
2
3
4
5

Figure 7 Road and Water Service, West Newbury 2002
from the Water Distribution System Map, Tata & Howard, Inc. April 2002

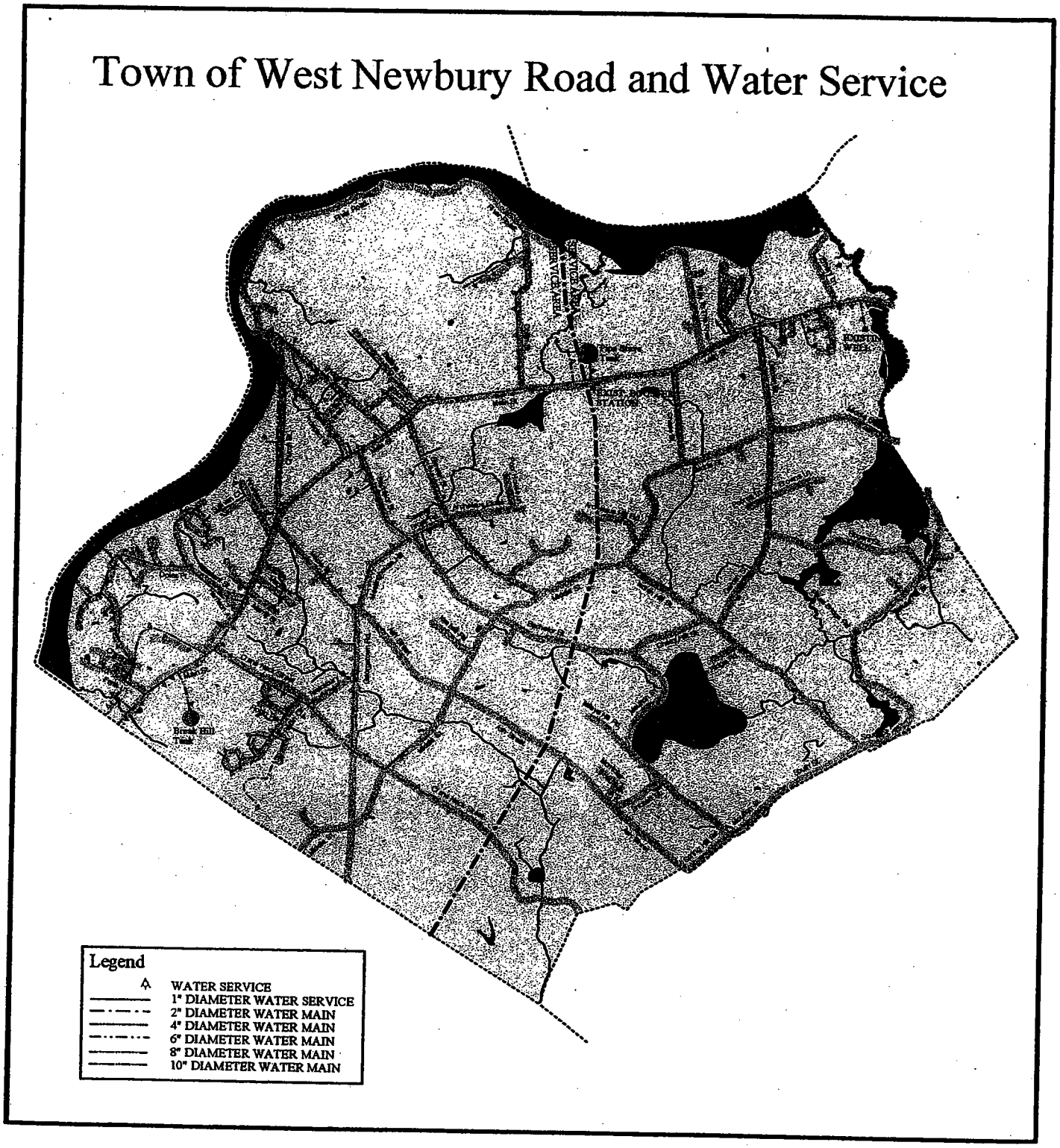
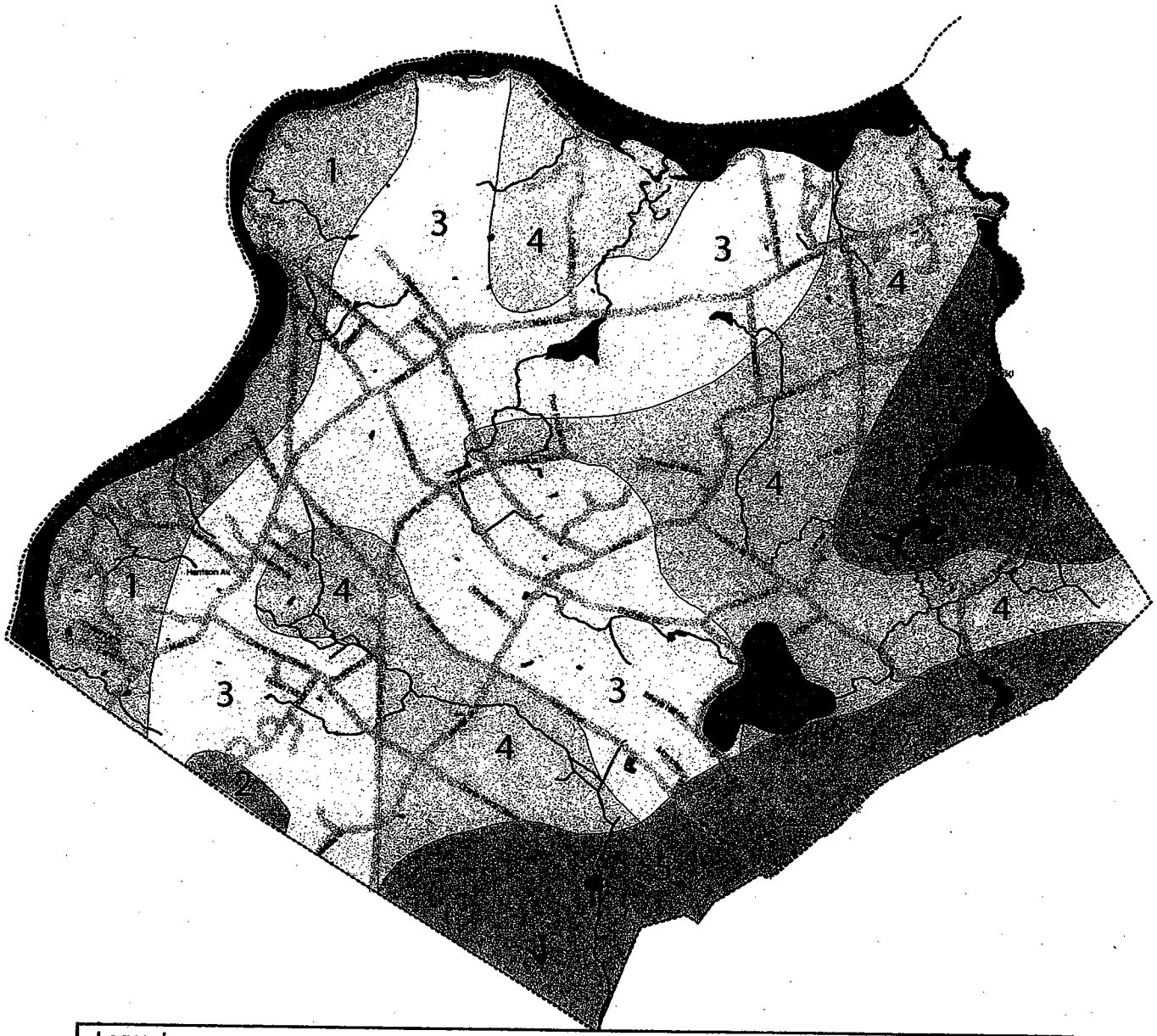


Figure 8 Soil Types Grouped by Development Limitations
from the Soil Survey of Essex County, MA; USDA Soil Conservation Service; 1981

Town of West Newbury



Legend

1 Generally suitable for farming and residential development; some areas droughty and steep; some areas have seasonal high water table.

2 Suitable for dairy farming, apples, and truck crops. Suited to residential development if municipal sewage system is availible. Main residential limitations are: slow permeable fragipan, and in some areas steep lopes and a seasonal high water table.

3 Suitable for dairy farming, orchards, and truck crops. Most areas well suited for residential development. Primary residential limitations include: areas of steep slopes and stones in the surface layer, also seasonal high water table.

4 Suitable for hay and pasture, some areas suitable for cultivated crops. Poorly suited for residential developement; wetness is the main limitation for mostuses of these soils.

Suitable for woodland and woodland wildlife habitat, some aeas have good potential for wetland wildlife habitat. Some drier areas are suited for residential development; the major limitations of the drier areas are frequent rock outcroppings and slope.