AQUIFER PROTECTION AREAS
North Canaan, CONNECTICUT

LEGEND

- Level A Aquifer Protection Area (Final Adopted)
- Level A Aquifer Protection Area (Preliminary)
- Level B Aquifer Protection Area (Preliminary)

EXPLANATION

The Aquifer Protection Program, administered by the Connecticut Department of Energy & Environmental Protection, is designed to protect Connecticut’s high-yield public water supply wells and the sources contributing ground water to them. The program is intended to protect public health and the environment in order to maintain the quality of public water supplies and to limit the negative effects of large-scale development on the area contributing ground water to the wells.

The mapping of these areas is based on the Aquifer Protection Program. The program was established pursuant to the findings of the 1990 Connecticut General Assembly that existing regulations were inadequate to protect public health and the environment.

The digital and hardcopy versions of these maps are provided to DEEP, municipalities, and the water companies. DEEP, along with municipalities and water companies, are responsible for the maintenance of the area contributing ground water to the wells. Final mapping is based on extensive, site-specific, detailed modeling of the ground water flow system at the well fields. Preliminary mapping is based on the exploratory lines with the most detailed field mapping.

The aquifer protection area information (which includes the factors leading to mapping) and mapping regulations are contained in the regulations of the General Assembly.

DATA SOURCES

- AQUIFER PROTECTION AREA DATA: Aquifer Protection Areas were developed from the Aquifer Protection Area digital dataset which was obtained from RIGIS. The information was published on July 9, 2014. More information about wellhead protection in Connecticut can be found at www.deep.state.ct.us.
- STRATIFIED DRIFT DATA: The stratified drift data were obtained from the Aquifer Protection Program. The program was established pursuant to the findings of the 1990 Connecticut General Assembly that existing regulations were inadequate to protect public health and the environment.
- QUALITY AND POTENTIAL SOURCE POLLUTION DATA: Improved ground water resources, commercial land, and present and future land use were used to determine the areas contributing ground water to the wells.
- DATA SOURCES: Go to the DEEP website for the digital spatial data shown on this map and a variety of others. Go to the website for the hardcopy spatial data shown on this map.

MASSACHUSETTS WELLSHEAD PROTECTION DATA: The Massachusetts Wellshead Protection Area which may be shown on this map was determined through the Massachusetts Wells Protection Program. The program was established pursuant to the findings of the 1990 Massachusetts General Assembly that existing regulations were inadequate to protect the quality of public water supplies and to limit the negative effects of large-scale development.

SHORE ISLAND WELLSHEAD PROTECTION DATA: The Rhode Island Wells Protection Program was established pursuant to the findings of the Rhode Island General Assembly that existing regulations were inadequate to protect the quality of public water supplies and to limit the negative effects of large-scale development.

WELL PROTECTION AREAS: In December 2014, new information about wellhead protection in Massachusetts was made available. More information about wellhead protection in Rhode Island is available from www.deep.state.ct.us.

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SEASONAL FLOOD DATA: The data used in this map were acquired by DEEP in 1995 and 1996. Dense vegetation, the state and federal geological surveys, state and local governmental agencies, and private land owners provided data and information. Additional data used were obtained from the United States Geological Survey, the United States Department of Agriculture, and private land owners.

TIDE LEVEL DATA: The data were acquired by DEEP in 1995 and 1996. Depicted is the mean lower low water level for the years of the data. Digital data were acquired from the Connecticut Geological Survey, the Connecticut Department of Energy & Environmental Protection, and the United States Geological Survey.

WQX DATA: The data used in this map were acquired by DEEP in 1995 and 1996. The data represent concentrations of water quality parameters. Concentrations are based on the U.S. Environmental Protection Agency’s National Primary Drinking Water Standards. Data were acquired from the Connecticut Geological Survey, the Connecticut Department of Energy & Environmental Protection, and the United States Geological Survey.

TROUGHT LEVEL DATA: The data were acquired by DEEP in 1995 and 1996. The data represent concentrations of water quality parameters. Concentrations are based on the U.S. Environmental Protection Agency’s National Primary Drinking Water Standards. Data were acquired from the Connecticut Geological Survey, the Connecticut Department of Energy & Environmental Protection, and the United States Geological Survey.

WELL FIELD DATA: The data were acquired by DEEP in 1995 and 1996. The data represent concentration of water quality parameters. Concentrations are based on the U.S. Environmental Protection Agency’s National Primary Drinking Water Standards. Data were acquired from the Connecticut Geological Survey, the Connecticut Department of Energy & Environmental Protection, and the United States Geological Survey.

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