

# Map 6 - Groundwater, Aquifers (USGS 1992)

# Map 6

## Land Conservation Plan Atkinson, NH 2022

### Public Water Supply Wells

Mapped by the NH Department of Environmental Services. They consist of wells and surface water intake locations. Development of this data is ongoing; last updated May 2017.

### Wellhead Protection Areas

(WHPAs) for community and non-community, non-transient drinking water supplies in addition to watershed delineations for surface water intakes and groundwater sources under the direct influence of surface water. The data contains wellhead protection area (WHPA) polygons that represent Phase I or Phase II WHPAs based upon existing hydrologic data or advanced studies. NHDES uses a 500-foot radius circle for protection activities associated with sources for transient systems.

### Stratified-Drift Aquifer

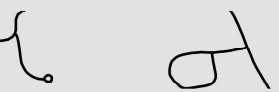
data was automated by Complex Systems Research Center UNH. The aquifer data was automated from maps generated as part of a larger study of groundwater resources in New Hampshire. The Study was conducted under a cooperative agreement between the US Geological Survey and the NH Department of Environmental Services, Water Resources Division. It included an assessment of the aquifers within stratified sand and gravel deposits.

Transmissivity of Stratified Drift Aquifers quantifies the ability of an aquifer to transmit water, measured in feet squared per day.

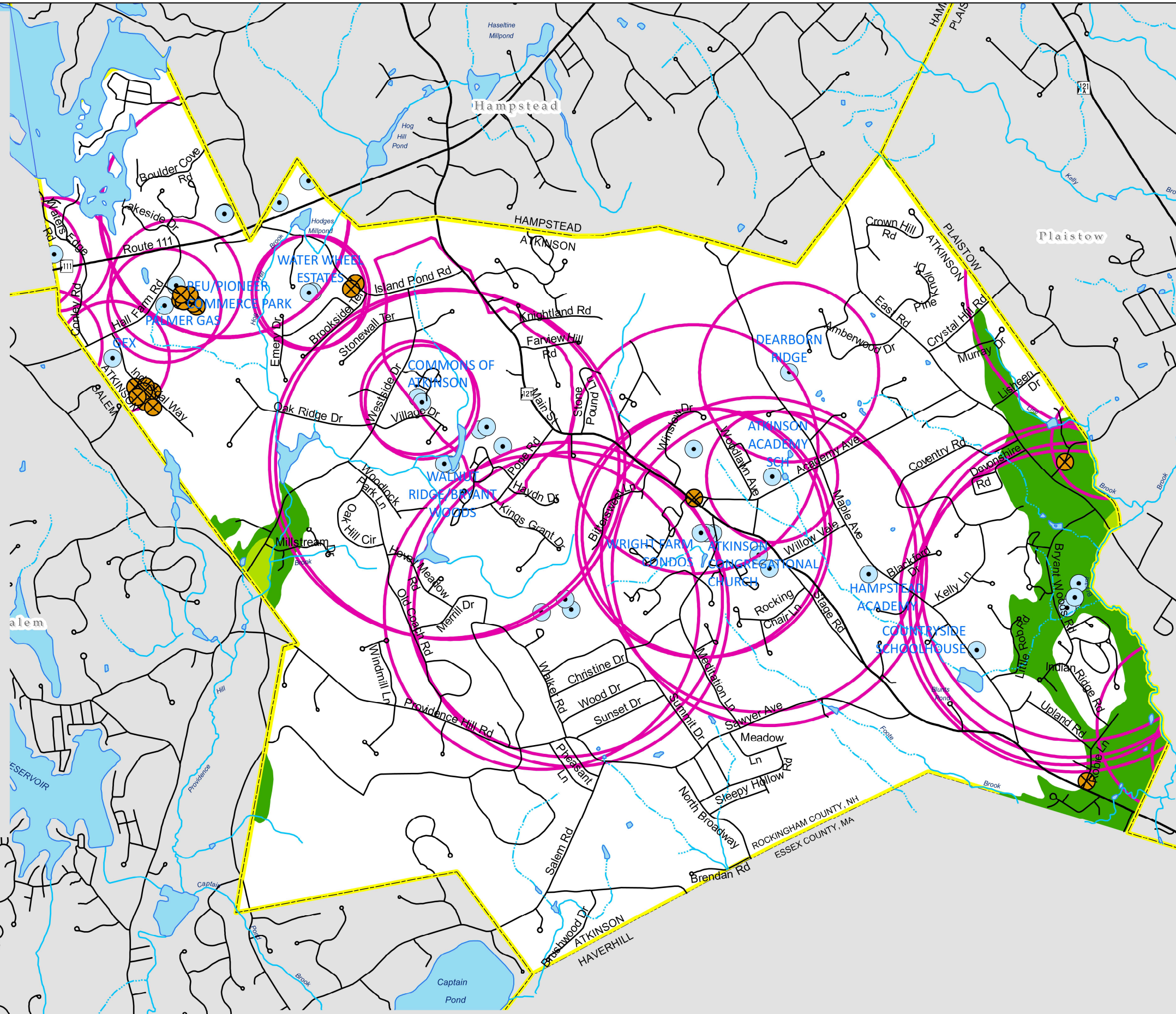
US Geological Survey Water-Resources Investigations Report 91-4025, "Geohydrology and Water Quality of Stratified-Drift Aquifers in the Lower Merrimack and Coastal River Basins"

### Potential Contamination Sites

This layer contain locations of potential contamination sites as recorded by the New Hampshire Department of Environmental Services, Water Supply Engineering Bureau. These point features were either submitted on paper base maps by water system operators or were collected by WSEB Staff using corrected-GPS. Date of last revision 2019



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- Potential Contamination Sources
- Wellhead Protection Areas
- Public Water Wells (NHDES 2017)

### Stratified-Drift Aquifers

- Transmissivity
- Less than 1000
  - 1000 to 2000
  - 2000 to 4000
  - greater than 4000

Base Features (transportation, political and hydrographic) were automated from the USGS Digital Line Graph data, 1:24,000, and archived in the GRANIT database at Complex Systems Research Center, Institute for the study of Earth, Oceans and Space, University of New Hampshire, Durham, NH; 1992-1999. The roads have been updated by Rockingham Planning Commission and by NH Dept. of Transportation through ongoing efforts.

Digital Data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of State Planning (OSP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. OSP, CSRC, and the cooperating agencies make no claim as to the validity or reliability or to any implied uses of these data.

