INTRODUCTION

Several aspects of the geology and hydrology of the Waverly-Sayre area have been investigated as part of the New York State Department of Environmental Conservation's (NYSDEC) Hydrogeology of New York State Program and the U.S. Geological Survey's (USGS) National Water-quality Assessment Program at local and regional scales. The first report in the series, Hydrogeology and Water-Quality of the Waverly-Sayre Area, New York, by Reynolds (1989), also served as a basis for the description of the hydrogeology of the Waverly-Sayre area as part of the Susquehanna River Basin.

The purpose of this report is to describe the hydrogeology of the Waverly-Sayre area in Tioga and Chemung Counties, New York. The report is intended to provide information on the location and characteristics of aquifers, as well as their relationship to surface features and land use. The report also provides an overview of the regional geology and hydrogeology of the area and identifies potential areas for groundwater contamination.

EXPLANATION

1. **DOMESTIC WELL** – Completed in bedrock. Generally a large-diameter dug well. (300 ft. max.)
2. **DOMESTIC WELL** – Completed in the confined sand and gravel aquifer. (200 ft. max.)
3. **DOMESTIC WELL** – Completed in the unconfined sand and gravel aquifer, which is under unconfined (water-table) conditions. (150 ft. max.)
4. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (500 ft. max.)
5. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (300 ft. max.)
6. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (150 ft. max.)
7. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (100 ft. max.)
8. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (50 ft. max.)
9. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (25 ft. max.)
10. **COMMERCIAL, INDUSTRIAL, OR IRRIGATION WELL** – Large-capacity well serving municipal water-supply system. Screened in surficial (unconfined) sand and gravel aquifer. (10 ft. max.)