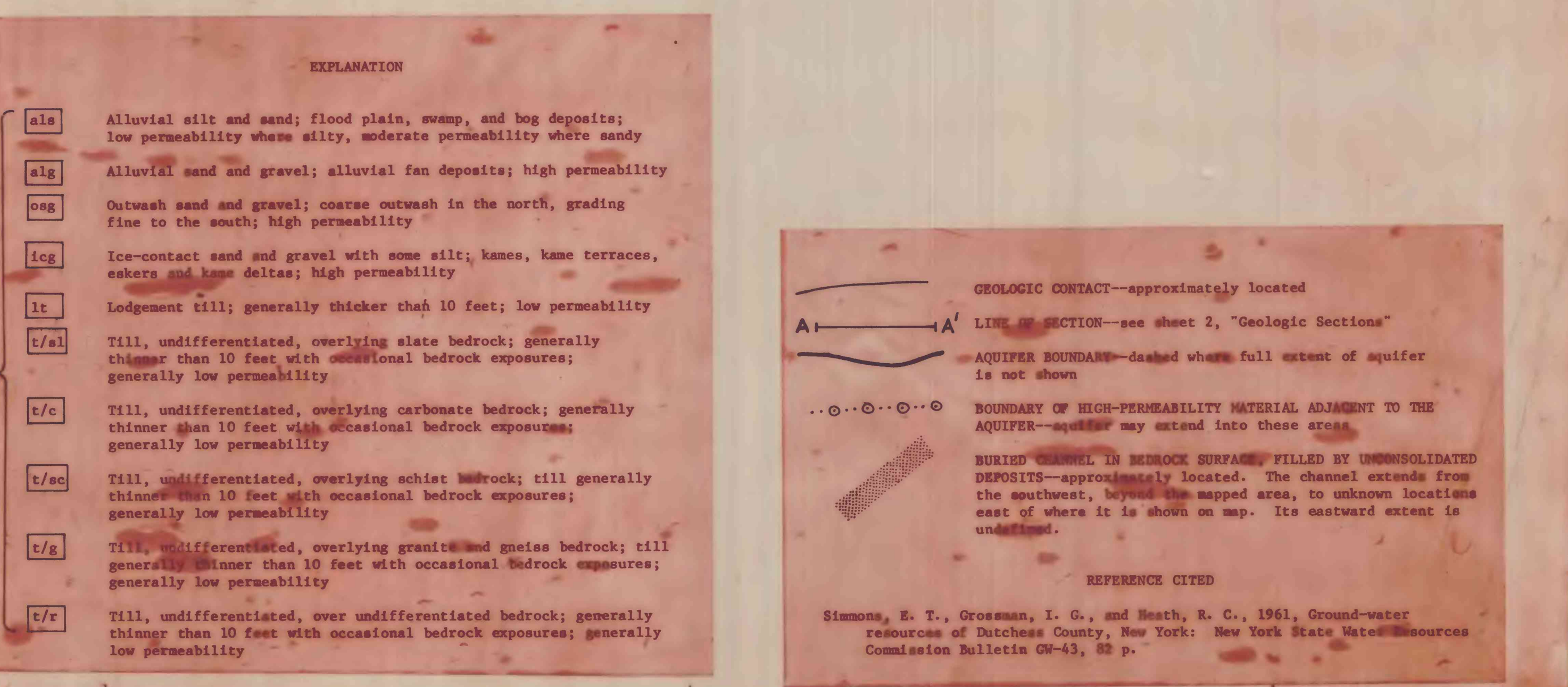
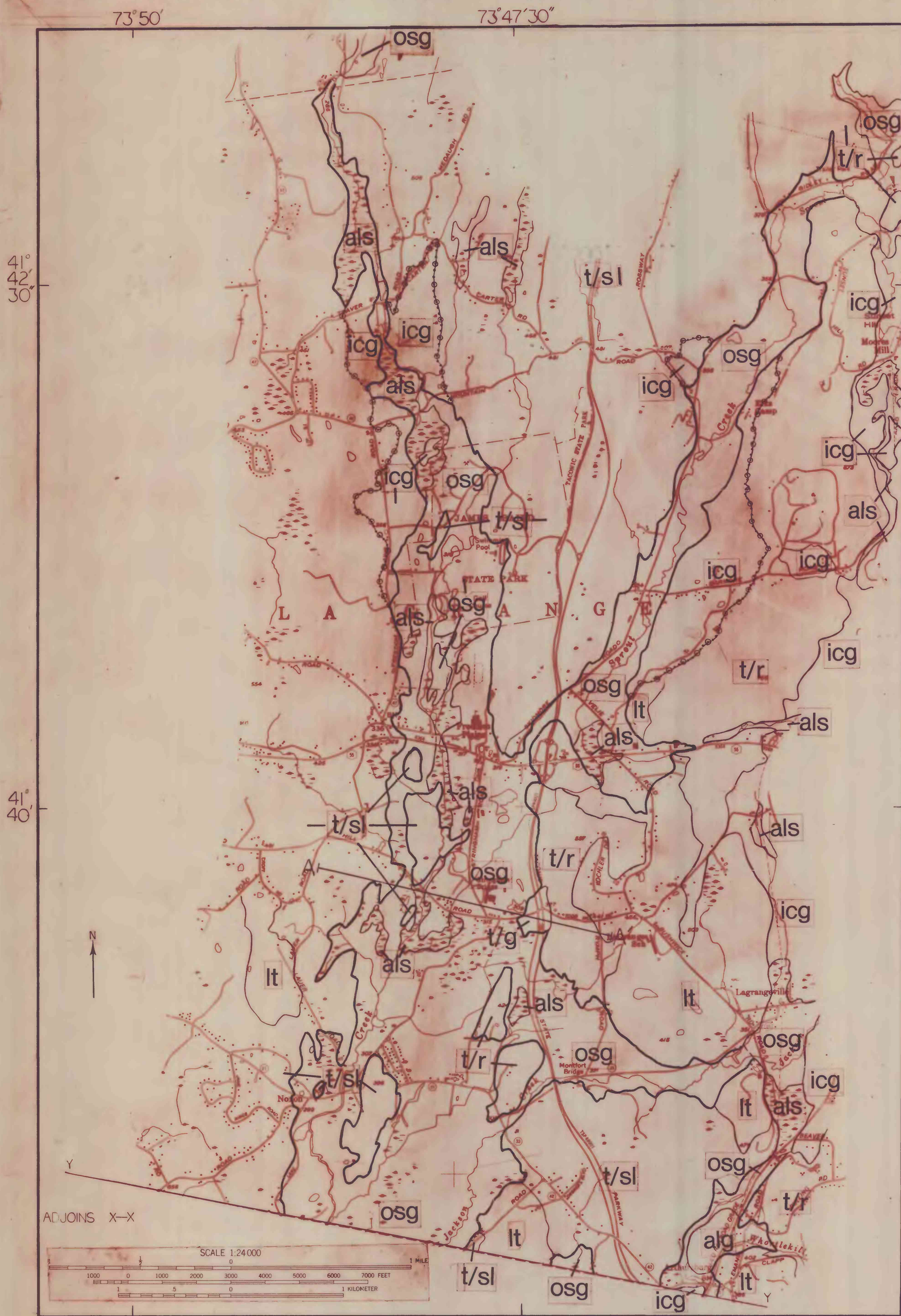




INTRODUCTION

The mapping was undertaken to compile available information on the limits and characteristics of one of the principal valley-fill aquifers in upstate New York. The valley-fill aquifer in the Sprout and Fishkill Creek areas underlies a 30-square-mile area in Dutchess County and a small part of Putnam County in southeastern New York. It is a primary source of water for rural residents, industry, and community water systems in the southwestern part of the county.

Findings relating to the aquifer are presented in this series of maps to provide water managers with current knowledge to aid in protecting and managing this prolific aquifer. The hydrologic data used in preparing these maps are available in the cited references and in the New York District Office of the U.S. Geological Survey in Albany, New York.

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EXPLANATION	
als	Alluvial silt and sand; flood plain, swamp, and bog deposits; low permeability where silty, moderate permeability where sandy
alg	Alluvial sand and gravel; alluvial fan deposits; high permeability
osg	Outwash sand and gravel; coarse outwash in the north, grading fine to the south; high permeability
icg	Ice-contact sand and gravel with some silt; kames, kame terraces, eskers and kame deltas; high permeability
lt	Lodgment till; generally thicker than 10 feet; low permeability
t/s	Till, undifferentiated, overlying slate bedrock; generally thicker than 10 feet with occasional bedrock exposures; generally low permeability
t/c	Till, undifferentiated, overlying carbonate bedrock; generally thicker than 10 feet with occasional bedrock exposures; generally low permeability
t/sc	Till, undifferentiated, overlying schist bedrock; till generally thicker than 10 feet with occasional bedrock exposures; generally low permeability
t/g	Till, undifferentiated, overlying granite and gneiss bedrock; till generally thinner than 10 feet with occasional bedrock exposures; generally low permeability
t/r	Till, undifferentiated, over undifferentiated bedrock; generally thicker than 10 feet with occasional bedrock exposures; generally low permeability

REFERENCE CITED

Simmons, E. T., Grossman, I. G., and Heath, R. C., 1961, Ground-water resources of Dutchess County, New York: New York State Water Resources Commission Bulletin GR-43, 88 p.