# HYDROGEOLOGY AND GROUND-WATER QUALITY OF THE NORTHERN PART OF THE TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK, IN 1980

By Chabot Kilburn and Richard K. Krulikas

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(in pocket)

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## CONVERSION FACTORS AND ABBREVIATIONS

| Multiply inch-pound units | by | To obtain metric equivalent |
|---|---|---|
| inch (in) | 2.54 | millimeter (mm) |
| foot (ft) | 0.3048 | meter (m) |
| mile (mi) | 1.609 | kilometer (km) |
| square foot ($ft^2$) | 0.0929 | square meter ($m^2$) |
| square mile ($mi^2$) | 2.590 | square kilometer ($km^2$) |
| | *Specific Combinations* | |
| gallon per minute (gal/min) | 0.06309 | liter per second (L/s) |
| gallon per minute per foot [(gal/min)/ft)] | 0.207 | liter per second per meter [(L/s)/m] |
| gallon (gal) | 3.785 | liter (L) |
| million gallons (Mgal) | 3,785 | cubic meter ($m^3$) |
| thousand gallons per day | 0.0000438 | cubic meter per second ($m^3/s$) |
| million gallons per day (Mgal/d) | 0.0438 | cubic meter per second ($m^3/s$) |
| billion gallons per year (Bgal/yr) | $3.785 \times 10^6$ | cubic meter per year ($m^3/yr$) |
| micromho per centimeter at 25 degrees Celsius (μmho/cm at 25°C) | 1.000 | microsiemens per centimeter at 25 degrees Celsius (μS/cm at 25°C) |

# Hydrogeology and Ground-Water Quality of the Northern Part of the Town of Oyster Bay, Nassau County, New York, in 1980

by Chabot Kilburn and Richard K. Krulikas

## ABSTRACT

This report presents hydrogeologic and water-quality data from the northern part of the Town of Oyster Bay, in the north-shore area of Long Island. The ground-water reservoir underlying the area consists of clay, silt, sand, and gravel layers that form six hydrogeologic units. The units are, from bottom to top, the Lloyd aquifer, Raritan clay, Magothy aquifer, Port Washington aquifer, Port Washington confining unit, and the upper glacial aquifer. Crystalline bedrock underlies the Lloyd aquifer and forms the base of the ground-water system.

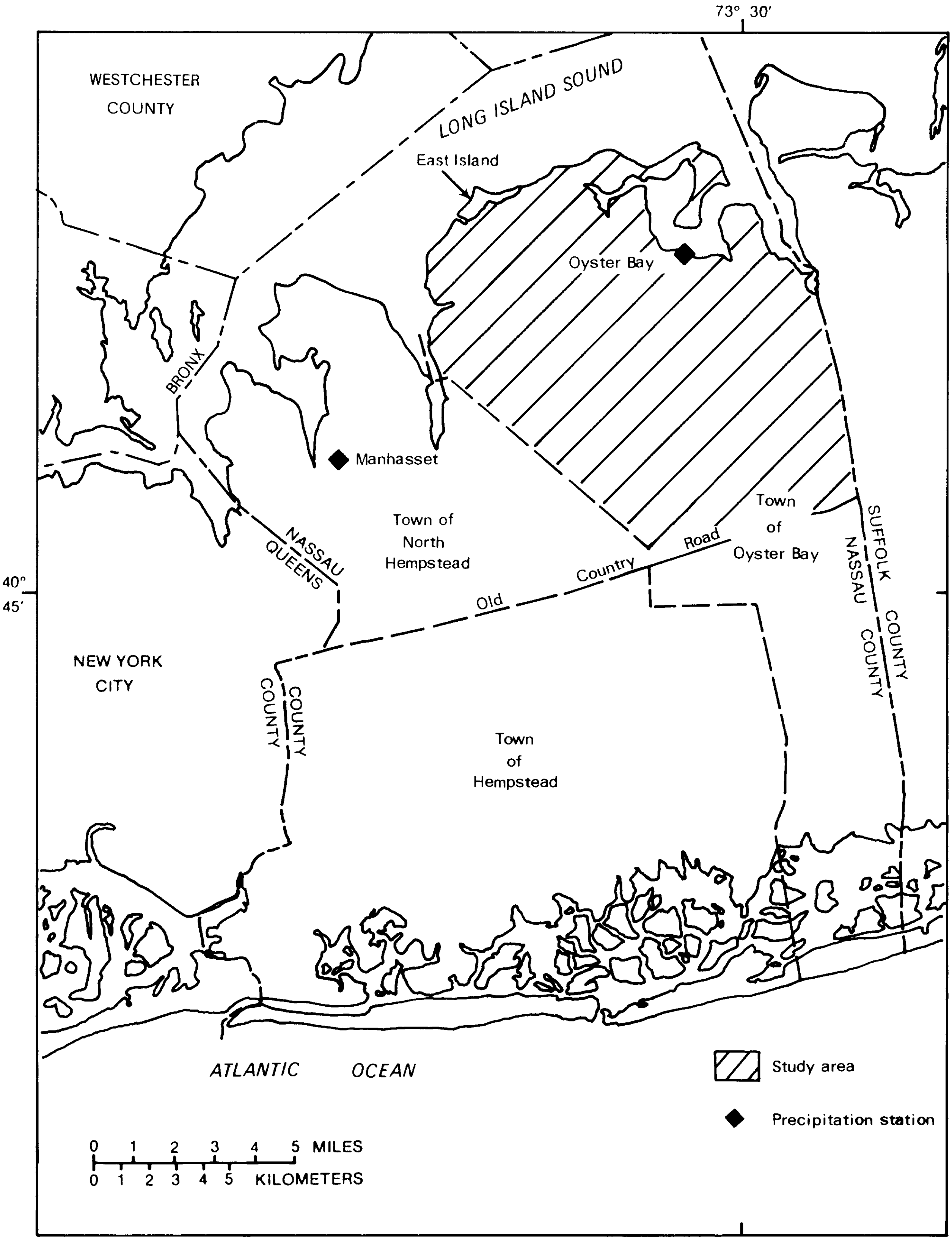
The regional drought of 1962-67 caused ground-water levels to decline as much as 16 feet, but the water-table altitude in 1980 equaled or exceeded predrought levels. Water levels measured in wells screened in the lower part of the Magothy aquifer and in the Lloyd aquifer throughout much of the area are still below those measured before the drought but are recovering. Water levels in wells screened in the Lloyd aquifer along the north shore have been declining since the mid-1970's.

Ground water in some areas contains nitrates, volatile organic compounds, and chloride in concentrations that exceed New York State drinking-water standards. Contamination is limited largely to the upper glacial aquifer and upper part of the Magothy aquifer.

Saltwater has been reported in some wells along the shore but probably represents a natural condition rather than saltwater encroachment due to excessive pumping.

## INTRODUCTION

Ground water is the sole source of drinking water for all of Nassau County. Because population and ground-water use have increased significantly since the 1950's, proper development of this resource requires detailed knowledge of the hydrogeologic environment and ground-water-quality. The U.S. Geological Survey began a study in cooperation with the Nassau County Department of Public Works to document the hydrogeology of the County. The area of this investigation is the part of the Town of Oyster Bay that lies north of Old County Road (fig. 1). The area contains approximately 71 $mi^2$, or 63 percent of the town's 112-$mi^2$ area.




Base from U.S. Geological Survey
1:250,000 series New York, 1960.

*Figure 1.--Location of northern part of Town of Oyster Bay.*

The population of the study area increased from 53,716 in 1950 to 167,732 in 1970, then declined to 156,670 during 1970-80 (Long Island Lighting Company, 1956, 1964, 1971, 1981). The population decline as a whole from 1970-80 is consistent with a general trend throughout the rest of Nassau County during this period. The population trend within the study area during 1950-80 is depicted in figure 2.

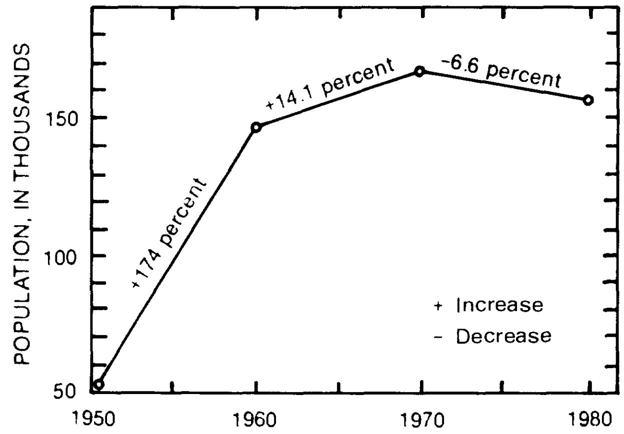



*Figure 2.*

*Trend in population of the northern part of the Town of Oyster Bay, 1950-80.*

## Purpose and Scope

This report describes the hydrogeology and ground-water quality of the northern part of the Town of Oyster Bay. It presents (1) surface-altitude maps and hydrogeologic sections of the units that form the ground-water reservoir; (2) water-table and potentiometric-surface maps of the major aquifers; and (3) graphs and tables of population, precipitation, water levels, and ground-water pumpage during 1950-80. It also discusses the trends indicated by these data and their effects on the local ground-water supply.

## Previous Studies

The ground-water resources of Long Island were first studied in detail by Veatch and others (1906), who described the geologic units and the conditions under which ground water occurs. They also provided information on ground-water movement, water quality, pumpage, and well characteristics. Their description of the geologic units that underlie Long Island was revised and supplemented by Fuller (1914) in a report on the geology of Long Island. The scope of both reports is islandwide and provides a significant amount of information on the occurrence of ground water in the northern part of the Town of Oyster Bay during the early part of this century.

Swarzenski (1963) described the hydrogeology and hydrologic conditions that prevailed in northwestern Nassau and northeastern Queens Counties during 1955-57. That report includes the westernmost part of the northern part of Oyster Bay. Isbister (1966) described the hydrogeology and hydrologic conditions in the northern part of the Town of Oyster Bay in 1958-60 that was not covered by Swarzenski (1963). Together, these reports cover the area described herein and summarize the hydrologic conditions of 1955-60.

The most recent water-table maps that include the study area are by Koszalka (1975) for 1974, Nakao and Erlichman (1978) for 1975, and Donaldson and Koszalka (1982) for 1979.

Additional publications detailing the hydrology of the area are by Cohen, Franke, and McClymonds (1969), which includes a discussion of the 1962-66 drought; and Donaldson and Koszalka (1982), which depicts the 1979 potentiometric surface of the Magothy and Lloyd aquifers.

## Methods of Investigation

This report was prepared from information obtained from Nassau County and State agencies and through previous studies by Federal, State, and local agencies. All data are on file at the Long Island office of the U.S. Geological Survey in Syosset, N.Y.

Data compilation was done from May through September 1981. Data on well construction and geology were obtained from the New York State Department of Environmental Conservation in Stony Brook, N.Y. Water-level data collected in April 1980 were used to make a water-table map (pl. 6A). The data were provided by the Division of Sanitation and Water Supply of the Nassau County Department of Public Works. Water-level measurements made by the U.S. Geological Survey in January 1979 and March 1980 were used to make the potentiometric-surface maps of the Magothy and Lloyd aquifers (pl. 5A, 5B). 13). Water-quality data from 1950-79 were from analyses made by the Nassau County Department of Health and the U.S. Geological Survey.

Fieldwork was limited to determining the status and location of most wells shown on the well-location map (pl. 1A). Most of this work was done during 1977-79.

## Well Data

The New York State Department of Environmental Conservation assigns numbers serially by county to wells on Long Island. Nassau County well and test-hole numbers bear the prefix N. Plate 1A shows the location of selected wells in the northern part of the Town of Oyster Bay that were located during this study. Well-completion data and other pertinent information on the wells are given in table 6 (at end of report). The well-completion data were taken from reports on file at the New York State Department of Environmental Conservation office, Stony Brook, N.Y.

## Acknowledgments

Appreciation is extended to the following well-drilling companies for providing lithologic samples, drillers' logs, geophysical logs, and water-quality data from drilled wells: Delta Well Co., Inc.; R. H. Lauman and Associates, Inc.; Layne-New York Co. Inc.; Strata Well Corp.; and United Well and Pump Corp. Thanks are also given to the many water-supply superintendents and individual well owners who allowed access to their wells. Special gratitude is extended to the New York State Department of Environmental Conservation for making records of wells, pumpage data, and other essential data available to this study.

## HYDROGEOLOGY

The ground-water reservoir underlying the northern part of the Town of Oyster Bay consists of unconsolidated glacial deposits of Pleistocene age and coastal-plain deposits of continental and marine origin of Late Cretaceous age. These unconsolidated deposits consist of gravel, sand, silt, and clay and are underlain by bedrock of early Paleozoic and (or) Precambrian age. The bedrock, which is relatively impermeable, forms the base of the ground-water reservoir.

The thickness, character, and water-bearing properties of the aquifer and the relationships between hydrogeologic and geologic units underlying the study area are depicted in table 1. The correlations should be considered direct relationships as implied in the tables. The upper and lower boundaries of the hydrogeologic units are determined mainly from gross lithologic differences between units rather the age of the deposits, which forms the basis for geologic correlations. For example, the upper and lower limits of the confining units (Port Washington confining unit and Raritan clay) are placed at intervals where the lithologic sequence changes from predominantly clay to sand or sand and gravel, and these positions may have no time-stratigraphic significance. For this reason, and because differentiation between sediments of Pleistocene and Cretaceous age is difficult and uncertain, it is possible that some deposits of Pleistocene age have been included in the upper part of the Magothy aquifer, which, by present definition, is approximately equivalent to the Magothy Formation-Matawan Group, undifferentiated, of Late Cretaceous age. The three hydrogeologic sections (pl. 1B) show the inferred extent, lateral and vertical relationships, and the variations in depth, thickness, lithology, and structure of these units.

### Description of Hydrogeologic Units

#### *Bedrock*

Bedrock of early Paleozoic and(or) Precambrian age underlies all of western Long Island (Fisher and others, 1962). The bedrock generally consists of metamorphic and igneous crystalline rocks--schist, gneiss, and granite--and lies at depths ranging from about 350 ft below sea level along the north shore to about 950 ft below sea level in the southeast part of the study area (pl. 2A, and hydrogeologic sections, pl. 1B).

Bedrock is generally regarded as the base of the ground-water reservoir on Long Island because of its density and low permeability. No wells in the Town of Oyster Bay are known to obtain water from bedrock.

#### *Lloyd Aquifer*

The Lloyd aquifer is the equivalent of the Lloyd Sand Member of the Raritan Formation of Late Cretaceous age (Cohen and others, 1968, p. 18). It consists of discontinuous layers of gravel, sand, sandy clay, silt, and clay, and lies roughly parallel to the bedrock surface at depths ranging from about

*Table 1.--Summary of geology and water-bearing properties of deposits underlying the northern part of Town of Oyster Bay, Nassau County, New York.*

[Modified from Swarzenski (1963) and Isbister (1966)]

| System | Series | Geologic unit | Hydrogeologic unit | Approximate range in thickness (feet) | Character of deposits forming geologic unit (modified from Swarzenski, 1963, and Isbister, 1966) | Water-bearing properties |
|---|---|---|---|---|---|---|
| QUATERNARY | Holocene | Undifferentiated artificial fill, salt-marsh and swamp deposits, stream alluvium, and shore deposits | Upper glacial aquifer | 0 - 50 | Sand, gravel, silt, and clay; organic mud, peat, loam, and shells. Colors are gray, green, black, and brown. | Permeable zones near the shore and in stream valleys may yield small quantities of fresh or brackish water at shallow depths. Clay and silt beneath the north-shore harbors retard saltwater encroachment and confine underlying aquifers. |
| QUATERNARY | Pleistocene | Upper Pleistocene deposits | Upper glacial aquifer | 10 - 380 | Till, composed of unsorted clay, sand, gravel, and boulders. Outwash deposits of stratified brown sand and gravel. May also contain some lacustrine and marine deposits consisting of clay, silt, and sand; locally fossiliferous. | Till, relatively impermeable, may cause local conditions of perched water and impede downward percolation of precipitation. Outwash deposits of sand and gravel are highly permeable. Wells screened in glacial outwash deposits yield as much as 1,750 gal/min. Specific capacities of large-capacity wells range from 14 to 175 (gal/min)/ft of drawdown. Water is generally fresh and unconfined but may locally contain saltwater near shores. |
| | | Unconformity | | | | |
| CRETACEOUS - QUATERNARY | Upper Cretaceous, Pleistocene, and Holocene(?) | Deposits of Holocene(?) and Pleistocene age, undifferentiated. May locally include eroded remnants of the clay member of the Raritan Formation. | Port Washington confining unit | 0 - 360 | Clay, solid and silty, gray, gray-green, white, red, mottled, and brown, containing lenses or layers of sand or sand and gravel. May locally contain lignite, shells, foraminifera, and other micro-fossils. | Relatively impermeable throughout much of the area. May be moderately to highly(?) permeable in areas adjacent to inferred limit of Magothy aquifer where sand and sand and gravel content may be large. Confines water in underlying Port Washington and Lloyd aquifers but does not prevent movement of water between upper glacial aquifer and Port Washington aquifer. Lenses of sand and sand and gravel provide sources of water supply and may permit local interchange of water with adjacent formations. One large-capacity well had a reported yield of 2,000 gal/min with a specific capacity of 43 (gal/min)/ft of drawdown. Coarser deposits may locally contain saltwater near shores. |
| | | Unconformity | | | | |
| CRETACEOUS - QUATERNARY | Upper Cretaceous, Pleistocene, and Holocene(?) | Deposits of Pleistocene age, undifferentiated, and (or) local ero-sional remnants of the Lloyd Sand Member of the Raritan Formation. | Port Washington aquifer | 0 - 170 | Sand, fine to coarse, white, yellow, gray, and brown, or gray and gravel with inter-bedded clay, silt, and sandy clay. | Moderately to highly(?) permeable. One large-capacity well had a reported yield of 1,100 gal/min with a specific capacity of 11 (gal/min)/ft of drawdown. Water is confined under artesian pressure. Generally contains freshwater but may have high iron content. |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Unconformity | | | | |
| CRETACEOUS | Upper Cretaceous | Matawan Group Magothy Formation-undifferentiated | Magothy aquifer | 0 - 610 | Clay, silt, sandy clay, and sand, fine to medium, clayey, white, gray, yellow, pink, and multicolored, in lenticular beds. May contain lenticular beds of coarse sand and gravel in lower part of unit. Lignite, pyrite, and iron oxide concretions may occur throughout the unit. | Moderately to highly permeable. Wells screened in lower part of aquifer yield as much as 1,400 gal/min. Specific capacities of large-capacity wells commonly range from 10 to 50 (gal/min)/ft of drawdown but may be as high as 80 (gal/min)/ft. Aquifer is principal source for public supply. Water is generally of excellent quality. Degree of confinement under artesian pressure is variable; however, artesian conditions increase with depth. Hydraulic continuity may exist between the Magothy aquifer and contiguous Pleistocene aquifers. |
| | | Unconformity | | | | |
| CRETACEOUS | Upper Cretaceous | Raritan Formation — Clay member | Raritan clay confining unit | 0 - 185 | Clay, solid and silty, gray, white, red, and mottled. May contain lenses or layers of fine to medium sand which may locally contain gravel. Sand layers frequently occur near top of unit. Lignite and pyrite are common. | Relatively impermeable. Confines water in underlying Lloyd aquifer but does not prevent movement of water between Magothy and Lloyd aquifers. |
| CRETACEOUS | Upper Cretaceous | Raritan Formation — Lloyd Sand Member | Lloyd aquifer | 0 - 195 | Sand, fine to coarse, white, yellow, or gray, and gravel, commonly in a clayey matrix. Contains lenses and layers of solid or silty clay. Beds are usually lenticular and frequently show great lateral changes in composition. | Moderately permeable. Large-capacity wells may yield as much as 1,600 gal/min; specific capacities commonly range from 10 to 19 (gal/min)/ft of drawdown. Water is confined under artesian pressure; some wells flow. Water is generally of excellent quality but may have high iron content. |
| | | Unconformity | | | | |
| | | Crystalline rocks | Bedrock | Not known | Metamorphic and igneous rocks; muscovite-biotite schist, gneiss, and granite(?). May have weathered zone at top. | Relatively impermeable. Contains some water in fractures, but impracticable to develop owing to low permeability. |

200 ft below sea level along the north shore to about 700 ft below sea level in the southeast part of the study area (pl. 2B). Its thickness ranges from 0 to 250 ft from northwest to southeast, respectively.

The Lloyd aquifer is a major aquifer in the Town of Oyster Bay. It is probably hydraulically continuous with the adjacent Port Washington aquifer and upper glacial aquifer in the northern part of the study area. Water in the Lloyd aquifer is confined under artesian pressure beneath the Raritan clay.

Well yields during test pumping of large-capacity public-supply wells screened in the Lloyd aquifer have ranged from 500 gal/min to as much as 1600 gal/min.

### *Raritan Clay*

The Raritan clay is a distinct hydrogeologic unit that extends throughout much of the Town of Oyster Bay (pl. 3A). In this area, the Raritan clay may be equivalent to the unnamed clay member of the Raritan Formation of Late Cretaceous age. The Raritan clay consists mainly of light to dark gray, red, white, or yellow clay and variable amounts of silt, and clayey silty fine sand. Sandy beds of varying thickness are common. The top of the Raritan clay is roughly parallel to that of the underlying Lloyd sand member. The upper-surface altitude of the Raritan clay ranges from 150 ft below sea level along the north shore to about 550 ft below sea level in the southeastern part of the study area. Its thickness ranges from 0 to 200 ft from northwest to southeast, respectively.

The Raritan clay is a significant hydrogeologic unit because it confines water in the underlying Lloyd aquifer. Although its hydraulic conductivity is very low, it does not entirely prevent movement of water between the Magothy and Lloyd aquifers. Some public-supply and other wells obtain part of their water supply from the sandy zones in the upper part of the Raritan clay.

### *Magothy Aquifer*

The Magothy aquifer is the equivalent of the Matawan Group-Magothy Formation undifferentiated of upper Cretaceous age. Deposits in this unit consist of beds and lenses of light-gray, fine to coarse sand with some interstitial clay. Detailed lithologic descriptions are given in Soren (1978); Ku and others (1975); and Jensen and Soren (1974).

The top of the Magothy aquifer is not planar, unlike the surfaces of the underlying units. The Magothy surface was deeply eroded during Tertiary time and probably was considerably eroded in Pleistocene time. The upper surface altitude of the Magothy ranges from as high as 200 ft above sea level in the center of the study area to 200 ft below sea level along the northeast edge of the study area (pl. 3B). Its thickness ranges from 0 to 650 ft from northwest to southeast, respectively.

The Magothy aquifer is the principal aquifer underlying Long Island and is the island's main source of water for public supply. The sand beds within the aquifer are moderately to highly permeable. The reported yields during pumping tests of several public-supply wells screened in the Magothy aquifer in the Town of Oyster Bay ranged from 300 gal/min to as much as 1,500 gal/min. The average yield was about 1,000 gal/min.

The large amount of clay in the upper half of the aquifer causes the water to become increasingly confined with depth. Along the north shore, the Magothy aquifer is probably in hydraulic continuity with the adjacent Port Washington aquifer. The Magothy also has a generally high degree of hydraulic continuity with the overlying upper glacial aquifer, but the degree of continuity may vary considerably from place to place.

### *Port Washington Aquifer*

Two previously unrecognized hydrogeologic units in the northern part of the Town of Oyster Bay are defined as the Port Washington aquifer and Port Washington confining unit. The units were first recognized in the northern part of the Town of North Hempstead (Kilburn, 1979). The inferred limits of the units are shown in plates 4A and 4B, and their relationships to the other hydrologic units are shown on the hydrogeologic sections on plate 1B.

The Port Washington aquifer is a sequence of deposits of Pleistocene and (or) Late Cretaceous age that underlie the north-shore area of the Town of Oyster Bay. The deposits form a distinct hydrogeologic unit that rests upon bedrock and is overlain by a thick sequence of confining clay. The south edge of the deposits overlap and abut the adjacent Cretaceous units. The sediments of the Port Washington aquifer form part of the valley fill in the channels cut into the Cretaceous deposits. These deposits consist largely of sand or sand and gravel and varying amounts of interbedded clay, silt, and sandy clay.

The altitude of the top of the Port Washington aquifer ranges from 150 ft below sea level along the north shore to 450 ft below sea level along the south shore (pl. 4A). Its thickness ranges from 0 to more than 150 ft in the central parts of the study area.

The Port Washington aquifer is moderately to highly permeable and is a major aquifer in the northern parts of the Town of Oyster Bay. The reported yields during pumping tests of public-supply wells screened in the aquifer range from 300 gal/min to 1,200 gal/min. Water in the aquifer is confined beneath the Port Washington confining unit. The hydrogeologic relationships between the Port Washington aquifer and the abutting Lloyd, Magothy, and upper glacial aquifers, as shown in the hydrogeologic sections on plate 1B, suggest that these deposits could be in lateral hydraulic continuity. Potentiometric studies of the head in the Lloyd aquifer made by Swarzenski (1963), Kimmel (1973), and Kilburn (1979) tend to verify a lateral hydraulic continuity between the Port Washington and Lloyd aquifers.

### *Port Washington Confining Unit*

The Port Washington confining unit is a sequence of deposits of Pleistocene or Late Cretaceous to Holocene(?) age that locally underlies the north shore. The unit consists mainly of clay and silt, with scattered lenses of sand or sand and gravel. (See Kilburn, 1979, for a more detailed description.) The deposits that form the Port Washington confining unit overlie the Port Washington aquifer or overlap the adjacent Cretaceous units and may form part of the valley fill that occupies channels cut into the other Cretaceous deposits. The unit may locally include or consist of erosional remnants of the clay member of the Raritan Formation.

The altitude of the top of the Port Washington confining unit ranges from 100 ft above sea level in the central part of the study area to 300 ft below sea level along the northeastern part (pl. 4B). Its thickness ranges from 0 to more than 150 ft in the central part of the study area.

### *Upper Glacial Aquifer*

The upper glacial aquifer consists of deposits of late Pleistocene and Holocene age that overlie the Magothy aquifer and the Port Washington confining unit and locally abut against or overlie the Port Washington aquifer. The extent and relationships of these deposits to the adjacent hydrogeologic units are shown on plate 1B.

The upper deposits consist mainly of stratified beds of fine to coarse sand and of sand and gravel but also contain thin beds of silt and clay interbedded with coarse-grained material. The outwash that constitutes the bulk of the upper Pleistocene deposits is yellow and brown or, in some places, gray. (See Perlmutter, 1949, and Kilburn, 1979, for further descriptions.)

The upper glacial aquifer, which contains the water table in most of the area, transmits all recharge to the underlying aquifers. Precipitation filtering downward to the water table is the principal source of ground-water recharge. In the past, the upper glacial aquifer was tapped as a water supply by many public-supply wells. Because it has become contaminated by cesspool effluents, fertilizers, and other substances, however, its use for public supply has decreased. Wells tapping the aquifer are now used mainly to supply water for domestic use, irrigation, and commercial and industrial purposes.

The sand and gravel deposits in the upper glacial aquifer are highly permeable and yield large amounts of water to properly constructed wells. The yields of large-capacity public-supply wells screened in the aquifer have been reported to range from 400 gal/min to 1,400 gal/min.

The recent deposits of Holocene age along beaches, streams, swamps, and the bottoms of bays and lakes have not been differentiated from the upper glacial aquifer because they are too thin.

## Correlation of Units

The differentiation between deposits of Pleistocene and Cretaceous age throughout most of the northern part of the Town of Oyster Bay is uncertain. On Long Island, the contact between Pleistocene and Cretaceous deposits is an erosional unconformity that is commonly marked by an abrupt lithologic and mineralogic change. In most of the study area, this boundary has not been delineated with confidence because of the lack of reliable lithologic data (cores and cuttings) and the uncertainty of recognizing this boundary from well drillers' logs, which formed the basis for correlations made during this study. The tops of the Cretaceous deposits may be lower in altitude than indicated on plates 2B, 3A, and 3B because they seem lithologically similar to the overlying Pleistocene deposits in most of the drillers' logs.

The inferred limits of some of the hydrogeologic units in plates 2, 3, and 4 have been extrapolated into areas where little or no data are available. Where the inferred boundaries are questionable, they are so indicated by dashed lines. In the hydrogeologic sections (pl. 1B), extrapolated and questionable extensions of the contacts of some of the units are indicated by question marks.

The hydrogeologic correlations of wells used in constructing the sections and maps in this report are given in table 7 (at end of report) with the altitudes of the tops of the hydrogeologic units penetrated by wells in the northern part of the Town of Oyster Bay.

## GROUND-WATER HYDROLOGY

### Pumpage

The total reported ground-water pumpage for all purposes in the northern part of the Town of Oyster Bay increased from 1.885 Bgal/yr (5.16 Mgal/d) in 1950 to 10.929 Bgal/yr (29.94 Mgal/d) in 1980. The total reported pumpage is plotted in figure 3A. During 1950-66, pumpage in the area increased at an average annual rate of about 291.6 Mgal/yr (798,900 gal/d); the graph does not reflect a significant effect from the 1962-67 drought. Beginning in 1967, however, the last year of the drought, the trend first reversed then leveled off until 1979. Pumpage during this time ranged between 7.95 Bgal/yr (21.8 Mgal/d) in 1967 and 9.94 Bgal/yr (27.2 Mgal/d) in 1971 and averaged 9.29 Bgal/yr (25.4 Mgal/d). A new upward trend may have started in 1980, when annual pumpage was reported to have been 10.92 billion gallons--an 11.6-percent increase over that in 1979. Whether this is a new trend or a short-term fluctuation will be ascertainable only from future records.

Ground water for public supply and nonpublic supply in the Town of Oyster Bay is derived principally from the upper glacial, Magothy, and Lloyd aquifers. The total amounts pumped from each of the aquifers and the Port Washington aquifer and confining unit are shown in figure 3B.

Ground-water pumpage from the Magothy aquifer is far larger than that from the other aquifers (fig. 3B) and, therefore, determines the trend of the graphs of total pumpage and public-supply withdrawals shown in figure 3A. Pumpage from the Magothy aquifer since 1976 (fig. 3B) has shown a significant upward trend that, through 1980, has increased by an average of more than 680 Mgal/yr (1.86 Mgal/d). This is largely because of a decline in public-supply withdrawals from the upper glacial aquifer and Port Washington confining unit (fig. 3C), but this loss is being made up by increasing pumpage from the

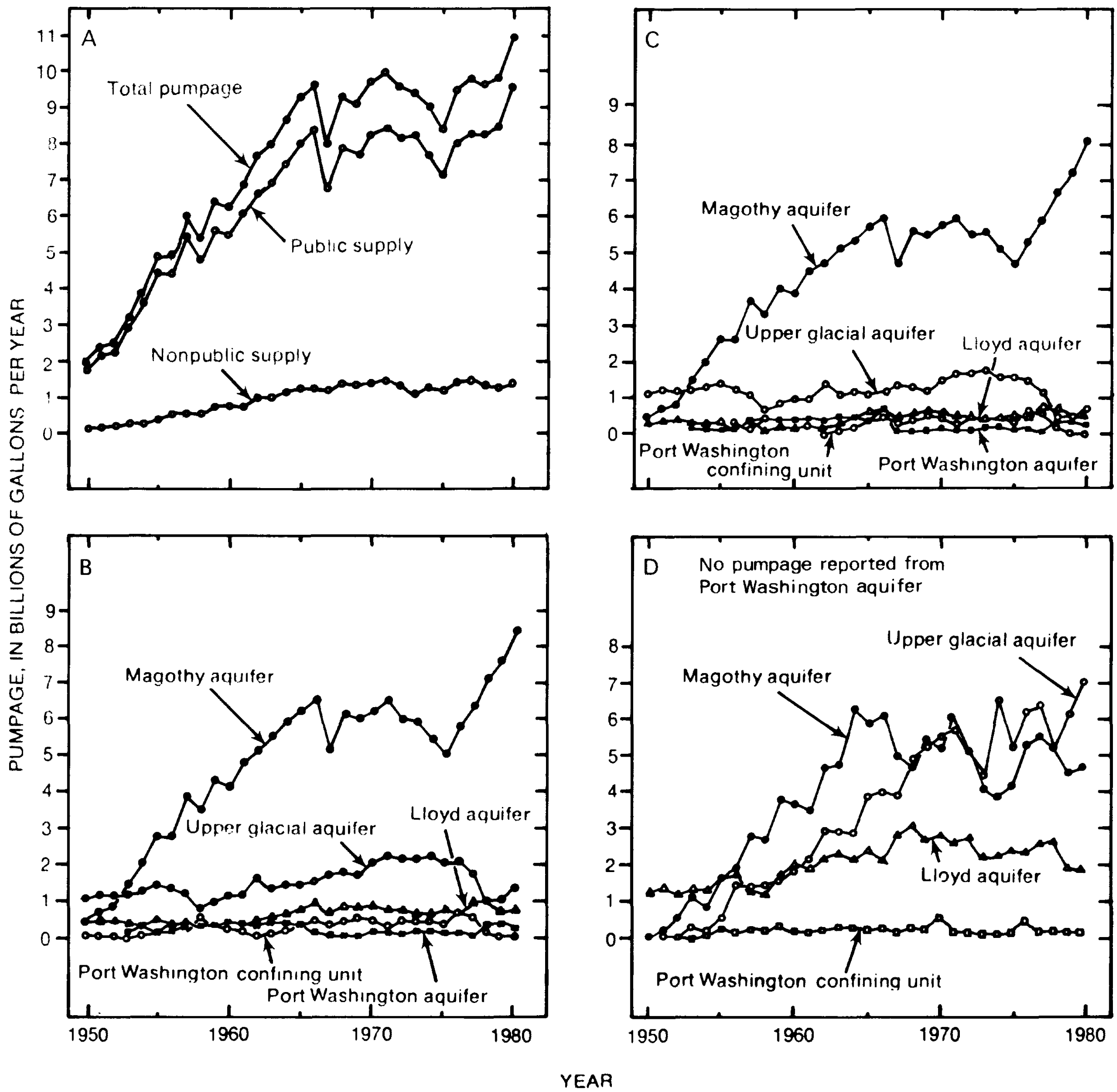



*Figure 3.--Ground-water pumpage in northern part of Town of Oyster Bay, 1950-80. A. Total reported public-supply and nonpublic-supply pumpage. B. Total reported pumpage, by aquifer and confining unit. C. Public-supply pumpage, by aquifer and confining unit. D. Reported nonpublic-supply pumpage, by aquifer and confining unit.*

Magothy aquifer as wells in the upper glacial aquifer are closed or restricted because of contamination by nitrates and volatile organic chemical compounds.

Ground-water pumpage for other than public supply is far smaller than that for public supply, as indicated in figure 3A, but the trends are similar. Pumpage for other than public supply slowly increased from 0.145 Bgal/yr (0.40 Mgal/d) in 1950 to 1.24 Bgal/yr (3.40 Mgal/d) in 1965, which was an average annual increase of about 70.4 Mgal/yr. During 1966-80, pumpage for other than public supply remained relatively constant, without a significant trend, and averaged 1.35 Bgal/yr (3.71 Mgal/d).

Trends in ground-water pumpage for public and other-than-public supply during coming years are expected to continue as in 1966-80, except that increased pumpage for public supply from the deeper parts of the Magothy aquifer should be expected as new wells are drilled or old wells deepened to reduce the possibility of inducing the downward movement of contaminated water from the upper glacial aquifer or upper parts of the Magothy aquifer. Also, as contaminated water moves into the lower parts of the Magothy aquifer from the effects of pumping, the demand for new wells that tap the Lloyd aquifer may increase.

## Precipitation

The climate of the Town of Oyster Bay is characterized by a medium temperature range and mild winters that are moderated by the Atlantic Ocean. Precipitation falls in almost the same total in the cool season as during the warm season but is most frequent in spring. Most precipitation on Long Island is in the form of rain; only 5 to 10 percent falls as snow or sleet.

Long-term precipitation in Nassau County averages 42 inches per year, as determined from 30 years of records collected by the National Weather Service (fig. 4). The precipitation regime of Long Island for 1951-56 was studied by Miller and Frederick (1969), who calculated the mean annual precipitaton in the Town of Oyster Bay to be between 42 and 45 inches. This compares closely with the 42 inches per year determined for all of Nassau County. The annual precipitation recorded at Manhasset during 1938-78 had a maximum of 64.70 inches in 1975 and a minimum of 22.73 inches in 1965 (fig. 4); the long-term average annual precipitation from 1938-78 is 41.95 inches. Mean monthly precipitation at Manhasset ranges from a low of 2.68 inches in June to a high of 4.09 inches in August.

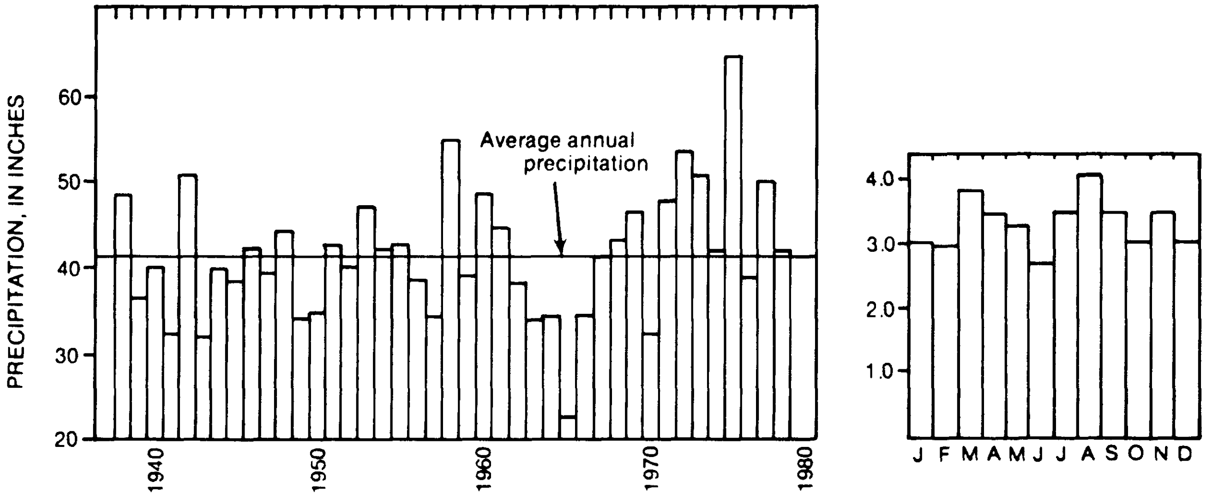



*Figure 4.--Precipitation at Manhasset, 1938-78: Left, average annual values. Right, average monthly values.*

## Water Levels

The principal sources of ground-water recharge in the Town of Oyster Bay are precipitation and infiltration of water from stormwater basins and home sanitary systems. Water that infiltrates from these sources recharges the upper part of the ground-water body and eventually migrates downward to the underlying aquifers.

The Port Washington aquifer, an important aquifer only in the northern part of the Town of Oyster Bay, is not discussed here because Kilburn (1979) has suggested that these deposits could be in lateral hydraulic continuity with the abutting Lloyd, Magothy, and upper glacial aquifers; this relationship is shown on plate 1B. Studies of the potentiometric head in the Lloyd aquifer by Swarzenski (1963) and Kimmel (1973) seem to verify a lateral hydraulic continuity between the Port Washington and Lloyd aquifers.

### *Upper Glacial Aquifer*

The water table is in the upper glacial or the Magothy aquifer, depending upon geographic location. The altitude and configuration of the water table underlying the northern part of the Town of Oyster Bay in April 1980 is shown on plate 6A; the highest water-table altitude is along the regional ground-water (water-table) divide. A significant local ground-water divide in the water table extends northwest from the Brookville-Muttontown area through the Locust Valley area. (Locations are shown on pl. 1A.)

Fluctuations and long-term trends of water levels in six wells screened just below the water table are shown in the hydrographs in figure 5; locations of the wells are shown on plate 1A. The hydrographs indicate that during the 1962-67 drought, water levels in these wells declined 10 to 16 ft. The largest declines were along and near the regional water-table divide, which lies near the southern part of the area near the Long Island Expressway (wells N1193 and N1230, with declines of 16.1 and 14.4 ft, respectively). It can be inferred from these data that the water table throughout much of the northern part of the Town of Oyster Bay, except along the coast, declined by 10 to 16 ft during the drought.

At the end of the drought in 1967, water levels began to recover rapidly. The rate of recovery in the six wells was about 1.4 ft/yr from 1967 to late 1973, but little or no trend is clearly recognized from late 1973 to 1978. Another recovery trend may have begun in 1979, but this cannot yet be determined. As of 1981, water levels have recovered in four of the wells (N1190, N1193, N1227, and N1230) to heights that exceed those measured during the 12 years (1950-61) preceding the drought. It is probable, therefore, that the water table has recovered throughout much of the Oyster Bay area and has also risen to levels equal to or exceeding those immediately preceding the 1962-67 drought.

### *Magothy Aquifer*

Ground water in the Magothy aquifer becomes increasingly confined with depth. Water levels in wells screened in the lower part of the Magothy aquifer reflect the hydrostatic pressure, or static head, that has been developed in the lower part of the aquifer by this confinement. Plate 5A shows the approximate altitude and configuration of the potentiometric surface of the lower part of the Magothy aquifer during March 1980. The regional potentiometric divide in the aquifer passes through the southern part of the study area. A significant local ground-water divide that is close to a similar divide in the water table extends northwest from the Brookville-Muttontown area through the Locust Valley area.

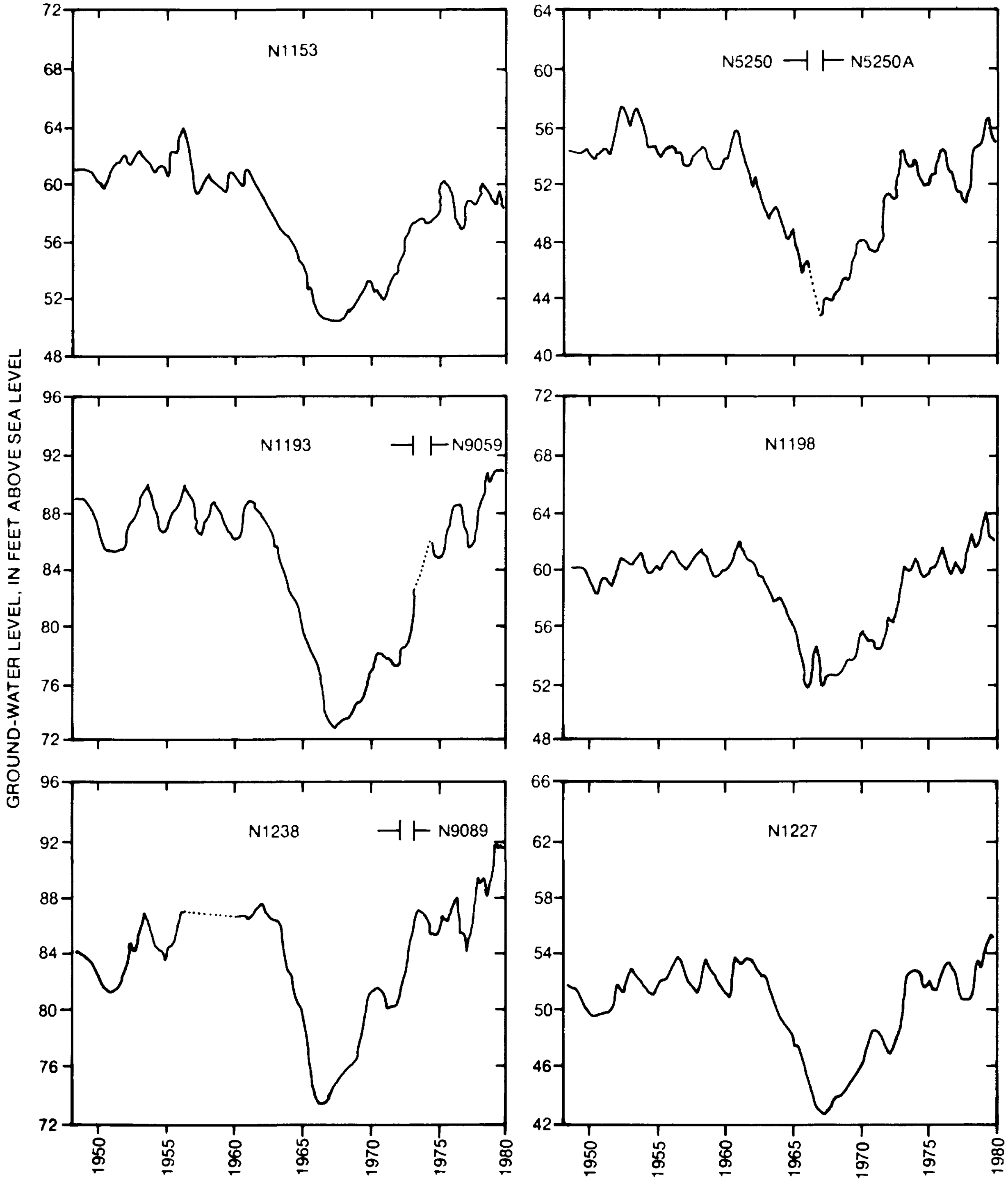



*Figure 5.--Hydrographs of six water-table observation wells, 1950-80.*

Hydrographs of four wells screened in the lower part of the Magothy aquifer are shown in figure 6; the well locations are shown on plate 1A. Water-level records are insufficient to plot accurate hydrographs for periods earlier than those shown.

If the hydrograph of well N3475 in figure 6 is assumed to represent water-level declines during the 1962-67 drought in wells screened in the lower part of the Magothy aquifer, the greatest decline would have been about 12 ft, which is nearly as great as those in the upper glacial aquifer. The hydrographs also indicate that water levels began to recover rapidly after the drought. Since 1967, water-level recovery seems to have continued at a rate of slightly more than 1 ft/yr, even though pumpage from the Magothy aquifer steadily increased.

Because little or no pre-1961 data are available from wells in figure 6, it cannot be directly determined whether water levels have returned to their predrought levels. However, 1961 water-level altitudes at four of the wells are indicated above the 1980 altitudes on plate 5A; comparison of these altitudes at wells N6190 and N7030 suggests that the altitude of the potentiometric surface along and near the potentiometric divide has recovered

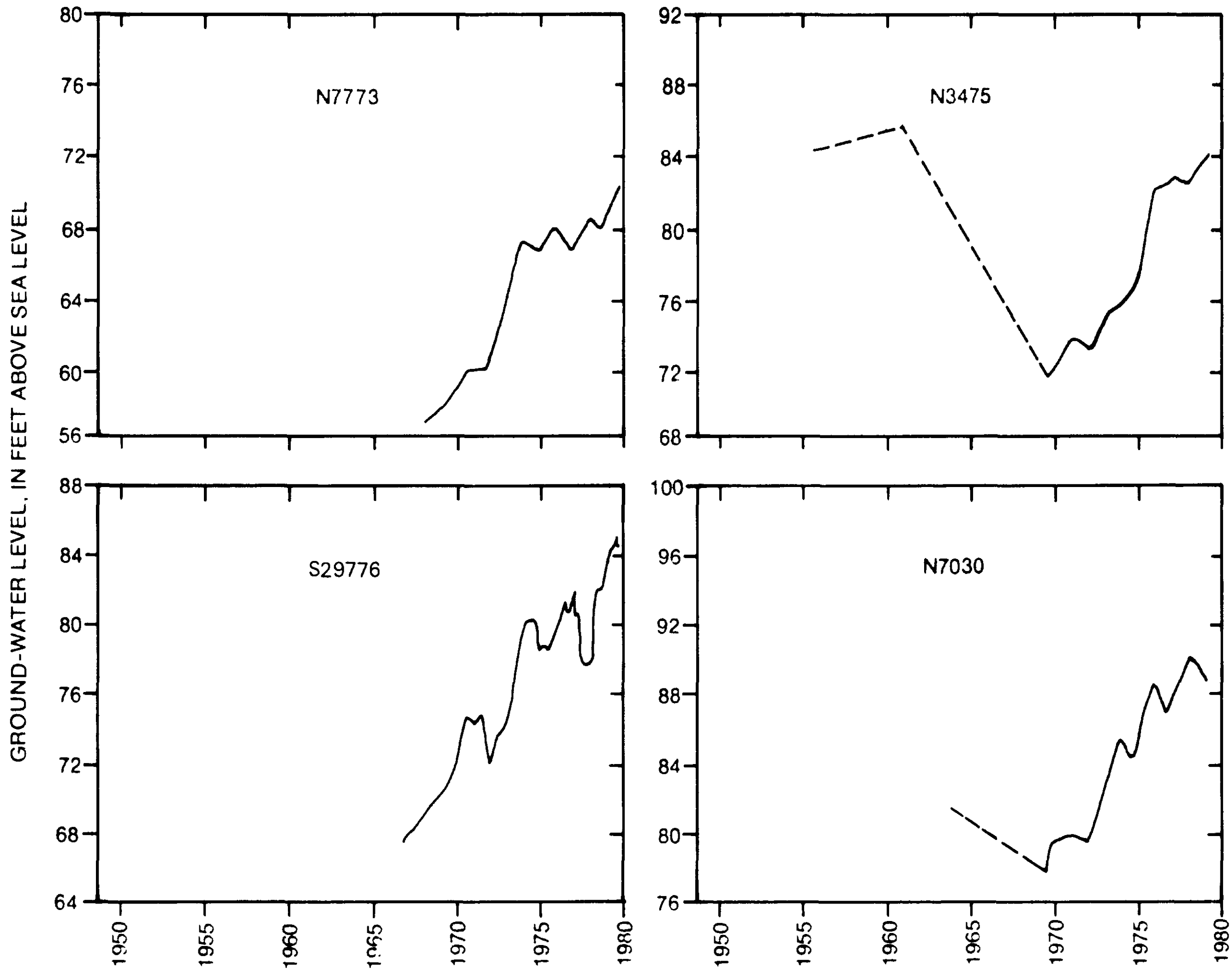



*Figure 6.--Hydrographs of four wells screened in the lower part of the Magothy aquifer, 1950-80.*

to, or exceeds, that which prevailed before the drought. North of the divide, however, the potentiometric-surface altitude of 1980 seems to have remained below that which prevailed before the drought. The differences between water-level altitudes in 1961 and 1980 (well N3475, -1.6 ft; well N5762, -11.4 ft) suggest that the decline increases northward. Thus, the potentiometric surface over much of the area north of the divide had probably not recovered by 1980 to the predrought levels, although the upward trends indicated in figure 6 suggest that recovery is continuing.

### *Lloyd Aquifer*

Ground water in the Lloyd aquifer is confined beneath the Raritan confining unit. The inferred potentiometric surface in the aquifer in January 1979 is shown on plate 5B. The position of the regional potentiometric divide can be only inferred because water-level data are sparse. The position of the regional divide was extrapolated from previous regional potentiometric-surface maps that place the divide well north of the regional divides of the Magothy aquifer and water table. The maximum potentiometric-surface altitude along the regional divide in 1979 was probably between 35 and 45 ft. No 40-ft contour is shown in plate 5B, however, because water-level data are not available. Many earlier maps show an inferred 40-ft contour, and recent digital modeling studies of the Lloyd aquifer indicate that a 40-ft contour may be present (M. S. Garber, U.S. Geological Survey, oral commun., 1981). The inferred altitude of the potentiometric surface of the Lloyd aquifer across the central part of the study area is shown in the hydrogeologic sections (pl. 1B) to be about 40 ft.

Hydrographs of four wells screened in the Lloyd aquifer in and adjacent to the study area are shown in figure 7. (Well locations are shown on pl. 1A). The hydrographs of wells N124 and N3355 suggest that water levels in the Lloyd aquifer declined 4 to 10 ft during the 1962-67 drought. Water levels probably began to recover at the end of the drought, but, as the hydrographs suggest, the rates of recovery have probably differed considerably from well to well.

Water-level trends since 1967 also differ among wells. The trends indicated by the hydrographs of wells N2424 and N3355 seem to be upward. At well N124, in the north-shore area (pl. 5B), water levels recovered until 1974, after which they began a declining trend that continued into 1980. Hydrographs of wells N7152 and N7546 (not shown), both along the extreme north shore, indicate declining trends from 1968, when water-level records began, through 1980. The declines in these wells, and probably the decline at well N124 (fig. 16), may be due to the effects of pumping by well N7620 and other local pumping. The rates of decline in wells N7152 and N7546 are estimated to be about 0.3 ft/yr and 0.15 ft/yr, respectively. Water-level measurements obtained from well N835 indicate a declining trend through 1980 that may have begun in the late 1950's or early 1960's. Table 2 gives the available water-level data from 1961-80.

A comparison of water levels in March-April 1961 with January 1979 levels in wells shown on plate 5B indicates that, by January 1979, the potentiometric surface of the Lloyd aquifer had recovered to levels ranging from a fraction of a foot to 5 ft below the March-April 1961 level. The hydrograph of well N124 (fig. 7) indicates that water levels in this well were about 4 ft higher in 1974 than in 1961. Since that time, however, the potentiometric surface at that well has declined to its lowest level of record.

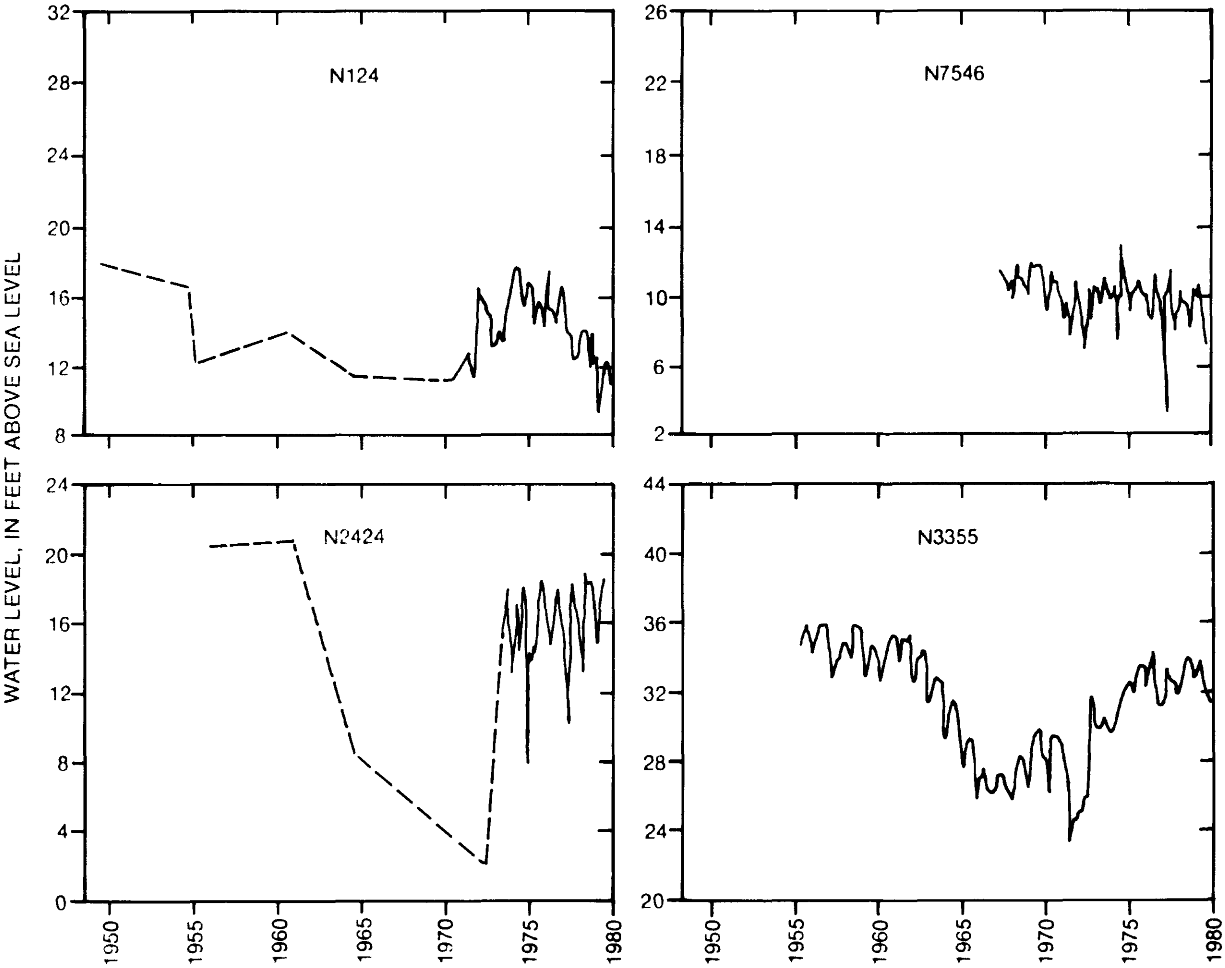



*Figure 7.--Hydrographs of four wells screened in the Lloyd aquifer, 1950-80.*

*Table 2.--Water levels from Lloyd aquifer, well N835, on East Island, 1961-80.*

[Location is shown in fig. 5; altitudes are in feet above sea level]

| Date | Water-level altitude | Date | Water-level altitude |
|---|---|---|---|
| Mar. 13, 1961 | 10.50 | Jan. 15, 1975 | 7.06 |
| Dec. 31, 1970 | 8.10 | Jan. 16, 1979 | 5.82 |
| Jan. 6, 1972 | 8.68 | Jan. 21, 1980 | 1.62 |
| Jan. 30, 1974 | 7.61 | | |

## Water Movement

The lateral direction of ground-water flow can be estimated from water-table and potentiometric-surface maps. Ground water moves in the direction of decreasing head and perpendicular to the potentiometric contours. A vertical component of ground-water flow may also develop where differences in hydrostatic head are present with depth in an aquifer or between aquifers.

### *Upper Glacial Aquifer*

The regional and local directions of lateral ground-water movement near the water table in the northern part of the Town of Oyster Bay are controlled from the regional and local ground-water divides (pl. 6A). Other smaller, local ground-water divides (not shown) are present on Mill Neck, Centre Island, and Cove Neck.

The lateral direction of ground-water movement near the water table is indicated on plate 6A by arrows. Water on the south side of the regional divide moves southward to discharge areas along the south shore; water north of the regional divide moves in two directions. Ground water east of the principal local divide shown on plate 6A moves toward discharge areas along or underlying Long Island Sound, Mill Neck Creek, Oyster Bay Harbor, or Cold Spring Harbor, and ground water west of the principal local divide moves westward to discharge areas along Glen Cove Creek or into Hempstead Harbor. Some water along the divides moves directly downward until it meets a zone of low permeability (for example, a clay bed or the top of the Port Washington confining unit or the Raritan confining unit), where it is diverted laterally.

Hydrostatic head differences between the water table (pl. 6A) and the potentiometric surface in the lower part of the Magothy aquifer (pl. 5A) during March and April 1980 ranged from less than 1 ft to more than 20 ft throughout most of the area except near the shore. The head differences were such that recharge from the water table could move downward into the Magothy aquifer over most of the area. Cones of depression due to local ground-water pumpage are not shown on plate 6A because the observation wells in the area are spaced too broadly to provide adequate definition.

### *Magothy Aquifer*

The directions of lateral and vertical ground-water movement in the Magothy aquifer are controlled by the position of the regional and local potentiometric divides and by the hydraulic gradients. (See pl. 5A.) Some of the ground water along the divides moves downward to the bottom of the aquifer, where it then moves laterally toward areas of natural discharge or active pumping wells.

The areas of natural discharge from the Magothy aquifer can be inferred from plates 5A and 6A. Discharge occurs wherever the hydrostatic head in the Magothy is greater than that in the adjacent or overlying units. Water discharges from the Magothy aquifer into the upper glacial aquifer in areas adjacent to Hempstead Harbor and Oyster Bay Harbor, and into the Port Washington confining unit elsewhere.

Hydrostatic heads in the Magothy aquifer in 1980 exceeded those in the Lloyd aquifer by as much as 50 ft throughout a large part of the area. This is due largely to the low permeability of the Raritan confining unit, which confines water in the Lloyd aquifer but does not prevent water from the areas of higher head in the Magothy from moving in the direction of decreasing head and perpendicular to the potentiometric contours.

### *Lloyd Aquifer*

The Lloyd aquifer is recharged by water moving downward from the Magothy and upper glacial aquifers through the Raritan clay and Port Washington confining unit in response to the higher hydrostatic heads in the upper aquifers. The confining units impede but do not prevent this downward movement. The principal areas of recharge of the Lloyd aquifer are those underlying and adjacent to the regional and local potentiometric divides, where flow is predominantly downward (pl. 5B).

Areas of natural discharge of water from the Lloyd aquifer can be inferred from a comparison of heads in the Lloyd (pl. 5B), the Magothy (pl. 5A), and the water table (pl. 6A). Natural discharge from the Lloyd may occur in areas where the head in the Lloyd exceeds heads in overlying or adjacent units. These comparisons indicate that water from the Lloyd aquifer can move laterally and upward through the Port Washington aquifer (where present) and into the upper glacial aquifer, and thence into Hempstead Harbor (section C-C', pl. 1B). Other areas of discharge are along and beneath Long Island Sound (section A-A', pl. 1B). Some discharge may also occur in the Oyster Bay Harbor area (section C-C', pl. 1B) by movement of water upward through the Port Washington aquifer and Port Washington confining unit into the upper glacial aquifer and then into the harbor.

## GROUND-WATER QUALITY

Data on ground-water quality in the northern part of the Town of Oyster Bay during 1950-79 are available mainly from analyses made by the Nassau County Department of Health. These analyses, together with those made by the U.S. Geological Survey, represent 155 wells. The number of samples per well during this period ranged from 1 to 37. The frequency of sampling varied, as did the constituents for which analyses were made. It was beyond the scope of this study to make a detailed study of water quality or to review the 2,168 analyses for obvious errors. It was assumed that the number of analyses in error was small enough to not significantly affect general interpretations of water quality that could be made from the analyses.

### General Water Quality

Table 3 (p. 22) lists the median and range of the principal constituents and summarizes the general water quality of the three aquifers during 1950-79; table 4 summarizes the ground-water quality in the northern part of the Town of Oyster Bay in 1979. The analyses are arranged by aquifer to facilitate comparison and to demonstrate changes with depth.

The present overall quality of the ground water in the northern part of the Town of Oyster Bay is suitable for most industrial and domestic uses except in localized areas where it is contaminated, as discussed in the following section.

## Contamination

Recent ground-water-quality studies made by the Nassau County Department of Health (1978, 1980) indicate that ground water from most public and nonpublic supply wells was of good quality and generally does not contain inorganic or organic constituents in concentrations that equal or exceed New York State drinking-water standards. These studies found that certain inorganic constituents (except pH) in public-supply wells exceeded State standards; these are, in order of decreasing abundance: turbidity, sodium, copper, nitrates, total solids, and chloride (Nassau County Department of Health, 1978). The studies also found contamination by volatile organic chemicals in the northern part of the Town to be largely limited to two areas--one near Glen Cove, the other a band extending from the Hicksville-Syosset area to the Plainview-Farmingdale area (pl. 1A), described in the following section.

Much, if not most, of the contamination other than turbidity may be attributed to private sewage-disposal systems that have leached nitrogen (in the form of ammonia), detergents, chlorides, sodium, sulfate, total solids, and volatile halogenated organics into the upper part of the ground-water system. Other possible sources of contamination are fertilizers, landfill leachate, road salting, road-salt storage, and saltwater intrusion.

### *Volatile Organic Compounds*

Volatile organic chemical pollutants that have been found in ground water in the northern part of the Town of Oyster Bay could be derived from two sources--domestic cesspool and drain cleaners, and solvents and degreasers used by industries.

The organic chemicals most frequently detected and reported in Nassau County's 1978 and 1980 reports were trichloroethylene, an industrial solvent; tetrachloroethylene, an industrial degreaser and stain remover used in dry cleaning; and 1,1,1 trichloroethane, an industrial solvent and cesspool and drain cleaner.

The studies also indicated that the most significant ground-water contamination problem in the northern part of the Town of Oyster Bay is the continued increase in nitrates and volatile organic compounds, as indicated by the number of wells in the area that have been closed or whose use has been restricted because of these substances. Plate 6B shows the locations of these wells; table 5 (p. 26) lists the contaminants found. Wells classified as "restricted" because of organic contamination may not be used except in extreme emergency situations. The Nassau County Department of Health (1980, p. 10), suggested that water from wells closed because of nitrates may be used if blended with water from uncontaminated wells to reduce the nitrates to acceptable levels.

*Table 3.--Summary of chemical analyses of ground water from wells in northern part of Town of Oyster Bay, Nassau County, 1950-79.*

[Chemical constituents given in milligrams per liter unless otherwise indicated. Data summarized from analyses by Nassau County Department of Health and U.S. Geological Survey]

| Upper Glacial aquifer | | | | | |
|---|---|---|---|---|---|
| Characteristic or constituent | Number of wells | Number of analyses | Median | Minimum | Maximum |
| Specific conductance (μmho/cm at 25 °C) | 40 | 337 | 150 | 25 | 600 |
| pH | 46 | 493 | 6.3 | 4.8 | 10.3 |
| Temperature (°C) | 15 | 77 | 12.0 | 9.0 | 16.0 |
| Hardness (as $CaCO_3$) | 45 | 491 | 46 | 4 | 184 |
| Hardness, noncarbonate | 23 | 82 | 63 | .0 | 110 |
| Calcium, dissolved (as Ca) | 38 | 411 | 11.2 | .8 | 40.1 |
| Magnesium, dissolved (as Mg) | 38 | 410 | .48 | .04 | 29.0 |
| Sodium, dissolved (as Na) | 37 | 320 | 11.0 | .10 | 62.0 |
| Bicarbonate (as $HCO_3$) | 23 | 78 | 19 | 4 | 560 |
| Carbonate (as $CO_3$) | 35 | 388 | 13.2 | .0 | 60 |
| Alkalinity, total (as $CaCO_3$) | 42 | 473 | 15 | 2 | 460 |
| Sulfate, dissolved (as $SO_4$) | 37 | 316 | 18.0 | .0 | 61.0 |
| Chloride, dissolved (as Cl) | 47 | 497 | 12.0 | 3.0 | 130 |
| Silica, dissolved (as $SiO_2$) | 15 | 72 | 13.0 | 1.8 | 17.0 |
| Dissolved solids, residue at 180°C | 41 | 404 | 112.5 | 18 | 448 |
| Dissolved solids, calculated, sum of constituents | 15 | 70 | 200 | 22 | 280 |
| Nitrate, dissolved (as N) | 42 | 508 | 2.90 | .0 | 22.0 |
| Phosphorus, total (as P) | 34 | 274 | .01 | .0 | 2.40 |
| Iron, total (μg/L as Fe) | 36 | 452 | 80 | .0 | 15,400 |

| Magothy aquifer | | | | | |
|---|---|---|---|---|---|
| Characteristic or constituent | Number of wells | Number of analyses | Median | Minimum | Maximum |
| Specific conductance (μmho/cm at 25 °C) | 71 | 843 | 70 | 6 | 665 |
| pH | 75 | 1,208 | 6.1 | 4.4 | 9.5 |
| Temperature (°C) | 36 | 72 | 12 | 8 | 16 |
| Hardness (As $CaCO_3$) | 76 | 1,190 | 18 | 2 | 150 |
| Hardness, noncarbonate | 47 | 93 | 5 | .0 | 140 |
| Calcium, dissolved (as Ca) | 70 | 979 | 4.0 | .0 | 37.0 |
| Magnesium, dissolved (as Mg) | 70 | 965 | .16 | .0 | 14.0 |
| Sodium, dissolved (as Na) | 69 | 732 | 6.0 | .0 | 90.0 |
| Bicarbonate (as $HCO_3$) | 47 | 93 | 12 | .0 | 41 |
| Carbonate (as $CO_3$) | 70 | 971 | 6 | .0 | 46 |
| Alkalinity, total (as $CaCO_3$) | 76 | 1,209 | 8 | 1 | 58 |
| Sulfate, dissolved (as $SO_4$) | 72 | 784 | 2.0 | .0 | 88.0 |
| Chloride, dissolved (as Cl) | 76 | 1,188 | 6.8 | 1.0 | 180 |
| Silica, dissolved (as $SiO_2$) | 37 | 81 | 8.9 | 4.3 | 19.0 |
| Dissolved solids, residue at 180°C | 69 | 1,127 | 64 | 2 | 689 |
| Dissolved solids, calculated, sum of constituents | 37 | 79 | 45 | 19 | 494 |
| Nitrate, dissolved (as N) | 75 | 1,201 | 1.68 | .0 | 29.5 |
| Phosphorus, total (as P) | 66 | 518 | .01 | .0 | 2.45 |
| Iron, total (μg/L as Fe) | 69 | 1,155 | 40 | .0 | 15,800 |

- continued-

*Table 3.--Summary of chemical analyses of ground water from wells in northern part of Town of Oyster Bay, Nassau County, 1950-79.--continued*

| Lloyd aquifer | | | | | |
|---|---|---|---|---|---|
| Characteristic or constituent | Number of wells | Number of analyses | Median | Minimum | Maximum |
| Specific conductance (μmho/cm at 25 °C) | 16 | 55 | 55 | 30 | 240 |
| pH | 17 | 210 | 6.5 | 5.7 | 7.7 |
| Temperature (°C) | 8 | 10 | 14 | 12 | 15 |
| Hardness (As $CaCO_3$) | 17 | 205 | 18 | 8 | 46 |
| Hardness, noncarbonate | 10 | 12 | 0 | 0 | 12 |
| Calcium, dissolved (as Ca) | 17 | 173 | 3.2 | 1.6 | 9.6 |
| Magnesium, dissolved (as Mg) | 17 | 171 | .16 | .0 | 4.5 |
| Sodium, dissolved (as Na) | 17 | 127 | 5.0 | .1 | 22.0 |
| Bicarbonate (as $HCO_3$) | 10 | 12 | 20 | 16 | 47 |
| Carbonate (as $CO_3$) | 17 | 173 | 4.8 | 0 | 14 |
| Alkalinity, total (as $CaCO_3$) | 17 | 209 | 15 | 4 | 124 |
| Sulfate, dissolved (as $SO_4$) | 17 | 134 | 1.0 | .0 | 7.0 |
| Chloride, dissolved (as Cl) | 18 | 207 | 5.2 | 2.5 | 24.0 |
| Silica, dissolved (as $SiO_2$) | 10 | 12 | 11.5 | 7.8 | 22.0 |
| Dissolved solids, residue at 180°C | 16 | 198 | 53.5 | 17 | 117 |
| Dissolved solids, calculated, | 10 | 12 | 41.5 | 33 | 75 |
| sum of constituents | 17 | 209 | .36 | .0 | 6.7 |
| Nitrate, dissolved (as N) | 15 | 97 | .01 | .0 | .67 |
| Phosphorus, total (as P) | 15 | 203 | 50 | .0 | 1,680 |

In 1978, contamination by volatile organic compounds was limited to the upper glacial and Magothy aquifers, and the largest areas of known or suspected contamination were in the upper glacial aquifer. No contamination by volatile organic compounds has been found in wells screened in the Lloyd aquifer. The Lloyd seems as yet to be protected from the downward movement of synthetic organic compounds from the overlying aquifers by the Raritan clay.

Ground water in the northern part of the Town of Oyster Bay exceeded the New York State Health Department interim guidelines concentration of 50 μg/L per organic chemical mainly in two areas--one near Glen Cove, the other in a general east-west band extending from the Hicksville-Syosset area to the Plainview-Farmingdale area (pl. 1A). Both are in the more highly industrialized areas of the northern part of the Town of Oyster Bay; the latter is a region having a strong component of vertical downward ground-water movement and large ground-water withdrawals from the deeper part of the Magothy aquifer.

### *Nitrate*

The ground-water quality study for 1978 in Nassau County (Nassau County Department of Health, 1980) indicated that nearly all ground water in the upper glacial aquifer and the upper part of the Magothy aquifer in the northern part of the Town of Oyster Bay contained nitrate (as N) concentrations that exceed 1 mg/L. Katz and others (1977, p. 13), in a study of nitrogen in ground water in Nassau and Suffolk Counties, considered that nitrate (as N) concentrations above 0.20 mg/L indicate contamination. The major sources of nitrate contamination are domestic cesspool leachate, industrial wastes, fertilizers, and precipitation.

*Table 4.--Chemical analyses of ground water from wells in northern part of Town of Oyster Bay, 1979.*

[Concentrations in milligrams per liter unless otherwise indicated. Analyses by Nassau County Department of Health except as indicated. Dashes indicate no measurement recorded.]

| Well data | | | | Constituents | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Well number[1] | Date of sample | Depth of well (ft) | Use of well[3] | Specific conductance (μmho) | pH | Hardness (as $CaCO_3$) | Calcium dissolved (as Ca) | Magnesium dissolved (as Mg) | Sodium dissolved (as Na) |
| | | | | Upper Glacial aquifer | | | | | |
| N1194A[2] | 6- 7-79 | 100 | Obs. | 360 | 5.7 | 90 | 26 | 6.1 | 40 |
| N1209A | 8-21-79 | 64 | Obs. | -- | 5.9 | 72 | 18 | .5 | 33 |
| N2072[2] | 9- 9-75 | 159 | P.S. | 25 | 5.2 | 8 | 2.0 | .8 | 2.9 |
| N3892 | 6-28-77 | 251 | P.S. | 170 | 6.4 | 42 | 9.6 | .4 | 10 |
| N5792 | 12-27-76 | 300 | P.S. | 50 | 6.4 | 56 | 14 | .4 | 10 |
| N7034 | 9-19-79 | 232 | Irr. | -- | 6.3 | 80 | 18 | .7 | 11 |
| N7643 | 4- 5-78 | 218 | P.S. | 320 | 5.7 | 64 | 11 | .7 | 50 |
| N7665 | 4-10-79 | 375 | P.S. | -- | 6.3 | 60 | 14 | .5 | 12 |
| N8183 | 1- 2-79 | 230 | P.S. | 150 | 6.3 | 47 | 11 | .4 | 10 |
| | | | | Magothy aquifer | | | | | |
| N3475 | 10-12-77 | 487 | P.S. | 65 | 6.4 | 15 | 2.8 | 0.2 | 5.1 |
| N4097 | 3-26-79 | 470 | P.S. | 95 | 5.3 | 20 | 5.2 | .1 | 7.4 |
| N4400 | 1- 2-79 | 302 | P.S. | 88 | 7.0 | 25 | 5.2 | .2 | 6.0 |
| N5762 | 6-28-77 | 283 | P.S. | 140 | 6.6 | 38 | 8.8 | .3 | 7.0 |
| N6093 | 1-23-79 | 612 | P.S. | 40 | 5.6 | 8 | 1.6 | .1 | 3.0 |
| N6768 | 3-13-78 | 208 | Inst. | -- | 6.3 | 54 | 12 | .5 | 6.0 |
| N7030 | 1-23-79 | 531 | P.S. | 140 | 6.3 | 44 | 11 | .3 | 10 |
| N7772 | 2-16-79 | 568 | P.S. | 70 | 6.4 | 20 | 5.6 | .1 | 5.0 |
| N8355 | 8- 9-78 | 595 | P.S. | -- | 6.2 | 30 | 5.6 | .3 | 6.0 |
| N8713 | 7-31-78 | 377 | P.S. | 70 | 6.5 | 16 | 4.0 | .1 | 4.0 |
| | | | | Lloyd aquifer | | | | | |
| N 118 | 7-11-79 | 477 | P.S. | 65 | 6.9 | 18 | 4.0 | 0.2 | 4.9 |
| N2920 | 9-12-77 | -- | P.S. | 75 | 6.9 | 22 | 4.8 | .2 | 10 |
| N5201 | 7-31-78 | 509 | P.S. | 55 | 6.6 | 12 | 3.2 | .1 | .0 |
| N7614 | 2-26-79 | 393 | Ind. | -- | 6.6 | 14 | 2.4 | .2 | 4.0 |
| N7857 | 8-10-79 | 614 | P.S. | 41 | 6.1 | 14 | 4.0 | .1 | -- |
| N8776 | 8-28-79 | 459 | P.S. | 46 | 6.5 | 10 | 2.4 | .1 | 3.8 |

[1]Well locations are shown in plate 1.
[2]Analyses by U.S. Geological Survey.

| Well number[1] | Carbonate (as $CO_3$) | Alkalinity total (as $CaCO_3$) | Sulfate dissolved (as $SO_4$) | Chloride dissolved (as Cl) | Silica dissolved (as $SiO_2$) | Solids residue at 180°C | Solids (sum of dissolved constit-uents | Nitrogen Nitrate, dissolved (as N) | Iron total (µg/L as Fe) |
|---|---|---|---|---|---|---|---|---|---|
| | *Constituents (Continued)* | | | | | | | | |
| | | | | Upper Glacial aquifer | | | | | |
| N1194A[2] | 0 | 25 | 29 | 82 | 13 | -- | 214 | 2.3 | 810 |
| N1209A | 28 | 14 | 35 | 44 | -- | 267 | -- | 12 | 1,580 |
| N2072[2] | 0 | 4 | .4 | 3.0 | 6.8 | -- | 22 | .71 | 60 |
| N3892 | 14 | 16 | 11 | 17 | -- | 155 | -- | 3.2 | 230 |
| N5792 | 20 | 20 | 9.0 | 13 | -- | 153 | -- | 4.4 | 60 |
| N7034 | 28 | 14 | 36 | 23 | -- | 209 | -- | 8.7 | 200 |
| N7643 | 17 | 10 | 54 | 41 | -- | 302 | -- | 19 | 0 |
| N7665 | 20 | 14 | 32 | 11 | -- | 190 | -- | 4.4 | 110 |
| N8183 | 17 | 20 | 7.0 | 14 | -- | 113 | -- | 6.4 | 0 |
| | | | | Magothy aquifer | | | | | |
| N3475 | 4 | 12 | 0.0 | 6.5 | -- | 33 | -- | 2.0 | 100 |
| N4097 | 8 | 4 | .0 | 11 | -- | 28 | -- | 6.3 | 0 |
| N4400 | 8 | 24 | 4.0 | 5.0 | -- | 75 | -- | 2.1 | 150 |
| N5762 | 13 | 20 | 12 | 9.2 | -- | 102 | -- | 2.8 | 280 |
| N6093 | 2 | 2 | .0 | 4.0 | -- | 53 | -- | 1.3 | 60 |
| N6768 | 18 | 14 | 33 | 7.8 | -- | 116 | -- | 2.9 | 260 |
| N7030 | 17 | 10 | 18 | 10 | -- | 102 | -- | 4.5 | 190 |
| N7772 | 8 | 12 | .0 | 7.4 | -- | 56 | -- | 1.9 | 0 |
| N8355 | 8 | 24 | .0 | 10 | -- | 67 | -- | 3.5 | 0 |
| N8713 | 6 | 9 | .0 | 5.6 | -- | 66 | -- | 1.7 | 0 |
| | | | | Lloyd aquifer | | | | | |
| N 118 | 6 | 17 | 3.0 | 5.0 | -- | 56 | -- | 2.0 | 50 |
| N2920 | 7 | 16 | .0 | 4.8 | -- | 71 | -- | .73 | 130 |
| N5201 | 5 | 13 | .0 | 4.6 | -- | 58 | -- | .02 | 100 |
| N7614 | 4 | 12 | .0 | 5.0 | -- | 53 | -- | 1.0 | 210 |
| N7857 | 6 | 15 | .0 | 8.0 | -- | 76 | -- | .00 | -- |
| N8776 | 4 | 12 | .0 | 2.5 | -- | 33 | -- | .00 | 0 |

[3] Obs., observation well; P.S., public supply well; Irr., irrigation well; Inst., institutional well; Ind., industrial well.

*Table 5.--Wells in northern part of Town of Oyster Bay that are closed or restricted because of contamination by nitrates or volatile organic chemicals.*

(Locations of wells are shown in pl. 1 and pl. 6B; dashes indicate data unavailable).

| Well number | Well owner or user[1] | Screened interval or depth (feet below land surface) | Aquifer | Date: Closed or abandoned | Date: Restricted or reopened | Contaminants |
|---|---|---|---|---|---|---|
| N 149 | Hicksville W.D. | 153 | Upper Glacial | 1967 | -- | Nitrate |
| 150 | Hicksville W.D. | 148 | Upper Glacial | 1953 | -- | Nitrate |
| 2072 | Hicksville W.D. | 138-159 | Upper Glacial | 1967 | -- | Nitrate |
| 2316 | Pall Corp. | 170 | Upper Glacial | -- | 07/13/77 | 1,1,2 Trichloroethylene |
| 3466 | City of Glen Cove | 148-173 | Upper Glacial | 06/23/77 | -- | 1,1,2 Trichloroethylene |
| N 3892 | City of Glen Cove | 139-172 | -- | -- | -- | -- |
| | | 225-246 | Upper Glacial | 07/07/77 | -- | Tetrachloroethylene |
| 3953 | Hicksville W.D. | 169-213 | -- | -- | -- | -- |
| | | 371-419 | Magothy | -- | 07/06/79 | Nitrate |
| 4097 | Plainview W.D. | 413-463 | Magothy | 12/28/76 | 06/13/77 | 1,1,2 Trichloroethylene, 1,1,1 Trichloroethane |
| 4246 | Jericho W.D. | 403-453 | Magothy | 05/06/77 | -- | 1,1,1 Trichloroethane |
| 5261 | City of Glen Cove | 131-170 | -- | -- | -- | -- |
| | | 185-195 | Port Washington | -- | -- | -- |
| | | 220-230 | confining unit | 08/14/78 | -- | Tetrachloroethylene |
| N 6191 | Hicksville W.D. | 489-550 | Magothy | -- | 1973 | Nitrate |
| 6531 | Riverside Plastics | 114-119 | Upper Glacial | -- | 09/06/78 | 1,1,1 Trichloroethane<br>Trichloroethylene |
| 6579 | Glen Components | 130-146 | Upper Glacial | -- | 08/10/77 | Trichloroethylene |
| 7427 | Photocircuits | 120-161 | Upper Glacial | -- | 07/25/77 | Trichloroethylene |
| 7643 | Village of Bayville | 159-218 | Upper Glacial | -- | 1967 | Nitrate |
| N 7664 | Engineer's Country Club | 58-79 | Upper Glacial | -- | 06/06/78 | Tetrachloroethylene |
| 8326 | City of Glen Cove | 120-165 | Upper Glacial | 06/13/77 | -- | 1,1,2 Trichloroethylene<br>Tetrachloroethylene |
| 8327 | City of Glen Cove | 118-168 | Upper Glacial | 06/23/77 | -- | 1,1,2 Trichloroethylene<br>Tetrachloroethylene |
| 8880 | Metco Inc. | 221-247 | Magothy | -- | 05/05/78 | Trichloroethylene |
| 8887 | Slater Electric | 105-130 | Upper Glacial | -- | 07/13/77 | Trichloroethylene |

[1] W.D. = Water District

Nitrate (as N) concentrations that exceed the New York State drinking-water standards of 10 mg/L in the upper glacial aquifer were found in three areas in the northern part of the Town of Oyster Bay--in the Hicksville region, in a band along the Suffolk County border in Woodbury, and in Bayville (pl. 1A). The elevated concentrations in the Woodbury area are attributed largely to the use of fertilizers at nearby vegetable farms (Nassau County Department of Health, 1980). Elsewhere, nitrate (as N) concentrations in the upper glacial aquifer ranged from 1 to 10 mg/L and were less than 1 mg/L in only two small areas--Lattingtown, and along a thin band between the Hicksville-Syosset region and Woodbury.

Nitrate (as N) concentrations that exceeded 10 mg/L in the upper part of the Magothy aquifer were found in the Hicksville-Jericho area, where ground-water pumpage from the deeper parts of the aquifer is large and where natural ground-water flow (recharge) is downward from the upper glacial aquifer. As a result, shallow ground water that contains high concentrations of nitrate moves downward into the lower parts of the Magothy aquifer. To date (1981), nitrate concentrations that equal or exceed 10 mg/L in the lower part of the aquifer have been reported in only one well (N6191) in the northern part of Hicksville (pl. 1A) (D. H. Myott, Nassau County Department of Health, oral commun., 1981). Nitrate concentrations in the lower part of the Magothy aquifer throughout most of the remainder of the northern part of the Town of Oyster Bay are probably less than 1 mg/L (Nassau County Department of Health, 1980, fig. 6B).

### *Saltwater*

Salty ground water is reported by drillers in some wells near the shore. Most drillers have reported that saltwater-bearing zones are near the base of the upper glacial aquifer or in discrete sand beds in the upper glacial aquifer or Port Washington confining unit. One well log (N7510) at the northern end of Centre Island (pl. 1A) reports saltwater in a thin sand unit from 203 to 257 ft below land surface that is probably part of the Port Washington aquifer.

Drillers' logs of wells drilled on Centre Island commonly report saltwater at varying depths in the upper glacial aquifer and Port Washington confining unit. Isbister (1962, fig. 226.2), in a study of the relationship between freshwater and saltwater beneath Centre Island, indicates that the freshwater in the upper glacial aquifer and Port Washington confining unit (shallow aquifer of Isbister) may be underlain by saltwater throughout much of Centre Island.

The Port Washington confining unit and the Raritan clay seem to be effective barriers to the downward movement of saltwater into the Port Washington and Lloyd aquifers. As of 1980, no saltwater had been reported from any well screened in either the Port Washington or Lloyd aquifers.

Hydrostatic heads in the adjacent fresh ground water are such that saltwater encroachment into areas formerly containing freshwater probably has not occurred. However, if water levels continue to decline below sea level in the Lloyd aquifer along the north-shore area, conditions that could allow saltwater encroachment may eventually be established.

## SUMMARY AND CONCLUSIONS

The northern part of the Town of Oyster Bay is underlain by unconsolidated glacial deposits of Pleistocene age and unconsolidated coastal plain continental deposits of Late Cretaceous age that consist of clay, silt, sand, and gravel deposited on crystalline bedrock of early Paleozoic and (or) Precambrian age.

The deposits have been divided into six hydrogeologic units, which are, from oldest to youngest, the Lloyd aquifer, Raritan clay, Magothy aquifer, Port Washington aquifer, Port Washington confining unit, and upper glacial aquifer. Crystalline bedrock forms the base of the ground-water reservoir.

Ground water for public and nonpublic supply is derived principally from the upper glacial, Magothy, and Lloyd aquifers.

Total pumpage for all purposes in the northern part of the Town of Oyster Bay increased from 1.89 Bgal/yr (5.16 Mgal/d) in 1950 to 10.93 Bgal/yr (29.94 Mgal/d) in 1980. Pumpage from the Magothy aquifer is by far the largest and has increased from 0.44 Bgal/yr (1.20 Mgal/d) in 1950 to 8.49 Bgal/yr (23.25 Mgal/d) in 1980.

Pumpage in the northern part of the Town of Oyster Bay has shown three significant trends during 1950-80. From 1950-66, pumpage increased from 1.89 Bgal/yr (5.16 Mgal/d) in 1950 to 9.60 Bgal/yr (26.31 Mgal/d) in 1966 and does not indicate any effect of the 1962-66 drought. During 1967-79, pumpage leveled off and averaged 9.29 Bgal/yr (25.4 Mgal/d). A new increase began in 1980, when total pumpage was reported to have been about 10.93 Bgal/yr, an 11.6 percent increase over that reported in 1979. Whether this is a new increasing trend in pumpage could not be ascertained during preparation of this report.

The trend in ground-water pumpage during the next few years is expected to continue. Public-supply pumpage from the deeper parts of the Magothy aquifer may increase as wells are drilled deeper to reduce the possibility of inducing infiltration from the upper glacial aquifer and the upper parts of the Magothy aquifer, where water quality has deteriorated. If water quality in the lower parts of the Magothy aquifer deteriorates, the demand for wells that tap the Lloyd aquifer could increase.

The water table and the potentiometric surface in the Lloyd aquifer and lower parts of the Magothy aquifer declined as much as 13 ft during the 1962-67 drought. Declines in the water table during this time may have been as much as 16 ft in some areas. At the end of the drought in 1967, water levels began to recover almost immediately. By 1980, the water table had recovered to or exceeded predrought levels. Water levels in wells screened in the lower parts of the Magothy aquifer in the southern part of the area had recovered to predrought levels but may not have recovered fully in the area to the north.

Water-level data before 1970 from wells screened in the Lloyd aquifer are sparse, making the interpretation of trends difficult. Hydrographs suggest that, after an initial period of recovery from the 1962-67 drought into the mid-1970's, water levels in some wells began a decline that has continued into the 1980's. Declining trends have also been noted at wells along the extreme north-shore area since the early 1970's and have continued into the 1980's. If these declines continue, saltwater, if present in the aquifer to the north beneath Long Island Sound, may encroach landward.

The directions of ground-water movement near the water table and in the Magothy and Lloyd aquifers are largely controlled by the position of regional water-table and other potentiometric divides. The regional water-table divide and the regional potentiometric divide in the lower part of the Magothy aquifer trend east-west and are near the southern part of the area near the Long Island Expressway. The location of the regional potentiometric divide of the Lloyd aquifer can only be inferred because water-level data are lacking, but may be in the area of North Hempstead Turnpike, 3 to 4 mi north of the Long Island Expressway.

Ground-water movement south of the regional divides is southward toward the south shore of Nassau County. Ground-water flow north of the regional divides contains two principal flow regimes separated by local divides. In the eastern part of the Town, ground-water flow is northward and northeastward toward natural discharge areas adjacent to or underlying Cold Spring and Oyster Bay Harbors or into Long Island Sound. In the western part of the town, ground water flows west and north toward natural discharge areas adjacent to or underlying Hempstead Harbor or Long Island Sound. In both areas, however, some ground water at or near the water table discharges into springs, ponds, or streams where their channels intercept the water table. Some ground-water discharge is also caused locally by pumping or flowing wells.

In areas overlying and adjacent to the ground-water divides, differences in hydrostatic head between the potentiometric surfaces of the Magothy and Lloyd aquifers probably cause a downward vertical component of flow. These are the areas of natural recharge to the deeper parts of the hydrologic system. The Port Washington confining unit and Raritan clay retard but do not prevent recharge and serve to confine the water in the Port Washington and Lloyd aquifers.

An upward vertical component of ground-water flow from the deeper parts of the system probably occurs along the north-shore area underlying Hempstead, Oyster Bay, and Cold Spring Harbors and other areas adjacent to Long Island Sound. This region is the natural discharge area of the hydrologic system in the northern part of the Town of Oyster Bay.

Chemical analyses of ground water indicate that the overall quality of the ground water in the northern part of the Town of Oyster Bay is suitable for most uses at present (1985) except in certain localized areas. Ground-water-quality studies made by the Nassau County Department of Health in 1977 and 1978 indicate that the most severe threat to ground-water quality in the area is contamination by volatile organic compounds and nitrates. The studies found that contamination by organic compounds is limited to the upper glacial and Magothy aquifers and occurs mainly in two areas. The highest concentrations were found in the Glen Cove area and in an east-west band extending from the Hicksville-Syosset area to the Plainview-Farmingdale area. Both of these areas are highly industrialized; the latter area contains a strong downward component of ground-water movement and is pumped heavily from the deeper parts of the Magothy aquifer. These conditions are conducive to the continued downward movement of organic compounds, which will increase the amount of contamination and will enlarge the area of contamination in the lower parts of the Magothy aquifer.

The ground-water quality study by Nassau County Department of Health also found that nearly all ground water in the upper glacial and upper parts of the Magothy aquifer in the northern part of the Town of Oyster Bay contained nitrate (as N) concentrations that exceed 1 mg/L. (Concentrations of nitrate [as N] above 0.20 mg/L may indicate contaminated water). Nitrate concentrations that exceed New York State drinking-water standards of 10 mg/L in the upper glacial aquifer were found in the Hicksville area, in Woodbury along the Suffolk County border, and in Bayville; concentrations that exceed 10 mg/L in the upper part of the Magothy aquifer were found in the Hicksville-Jericho area. To date, however, nitrate (as N) concentrations that exceed 10 mg/L in the lower part of the Magothy have been found only at one well (N6191) in the northern part of Hicksville. Nitrate concentrations in the lower part of the Magothy aquifer in the remainder of the area are probably less than 1 mg/L. Nitrate concentrations in the Lloyd aquifer are probably less than 1 mg/L.

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*TABLE 6*

*Well-completion data on selected wells and test holes in northern part of Town of Oyster Bay, Nassau County, N.Y.*

## EXPLANATION OF COLUMN HEADINGS AND ABBREVIATIONS USED IN TABLE 6

### Well Number

Well numbers are assigned by the New York State Department of Environmental Conservation. The prefix N designates Nassau County.

### Owner or Well User

The owner or well user is in most cases the name shown on the completion report that was sent to the New York State Department of Environmental Conservation by the driller. During this study, it was found that many of the wells have changed ownership or user. New owners or well users are listed if known.

The following abbreviations are used in the "owner/user" column:

| | |
|---|---|
| AM. PHYSICS INST | American Institute of Physics |
| ASSOC | Associates |
| BAYVILLE | Village of Bayville |
| BEAVER DAM CLUB | Beaver Dam Winter Sports Club |
| CC | Country Club |
| CERRO WIRE | Cerro Wire and Cable Co. |
| CERTIFIED IND | Certified Industries |
| CERT. REDI MIX | Certified Redi-Mix Co., Inc. |
| CL | Club |
| CO | Company |
| C.W. POST COLL. | C.W. Post Center of Long Island University |
| FABRIC LEATHER | Fabric Leather Corp. |
| FAIRCHILD CORP. | Fairchild Space and Defense Systems |
| GENERAL INST. | General Instrument Corp. |
| GLEN COVE | City of Glen Cove |
| GLEN COVE BOT. | Glen Cove Bottling Co. |
| GLEN COVE HOSP. | The Community Hospital at Glen Cove |
| INC | Incorporated |
| KOLLSMAN INST. | Kollsman Instrument Co. |
| LOCUST VLY WD | Locust Valley Water District |
| L.I. LIGHTING CO. | Long Island Lighting Co. |
| L.I. RAILROAD CO. | Long Island Railroad Co. |
| L.I. STATE PARK | Long Island State Park and Recreation Commission Planting Field Arboretum |
| L.I. TUNGSTEN | Li Tungsten Corp. |
| MILL NECK ESTS. | Association of Owners of Mill Neck Estates |
| NASSAU CO DPW | Nassau County Department of Public Works |
| NASSAU CO WTR | Nassau County Water Co. |
| NATL. PARK SERV | National Park Service |
| NEW YORK STATE | New York State Conservation Department Cold Spring Harbor Hatchery |
| OLD WESTBURY | Village of Old Westbury |
| OYSTER BAY | Town of Oyster Bay |
| PIPING ROCK WTR | Piping Rock Water Co. |
| POWERS CHEMCO | Powers Chemco, Inc. |
| REG. PLAN. BOARD | Nassau-Suffolk Regional Planning Board |
| RIVESIDE PLAS. | Riverside Plastics Corp. |
| ST. PATRICKS | Saint Patrick's Roman Catholic Church |
| ST. UNIV. AT O.W. | State University of New York College at Old Westbury |

EXPLANATION OF COLUMN HEADINGS AND ABBREVIATIONS USED IN TABLE 6 (Continued)

| | |
|---|---|
| SEA CLIFF WTR | Sea Cliff Water Co. |
| SEL-VRA ACRES | Association of Property Owners of SEL-VRA Acres |
| U.S. GEOL. SURV | U.S. Geological Survey |
| WD | Water District |

## Map Coord

Locations of wells are given by map coordinates, based on a latitude and longitude grid system, to aid the reader in locating the wells shown in plate 1. In this system, 5-minute intervals of latitude are lettered consecutively from south to north, and 5-minute intervals of longitude are numbered consecutively from west to east. The grid coordinates are shown along the margins of plate 1.

## Year Completed

Year completed refers to the year in which the well was reported to have been completed or accepted by the original well owner. It may not always be the year in which the well was actually drilled, however.

## Altitude of Land-Surface Datum (LSD)

The altitude of land surface at the well was estimated from U.S. Geological Survey 7-1/2-minute quadrangle topographic maps. At most observation wells, however, land-surface elevation was estimated from spirit leveling of the altitude of the measuring points of the wells and is probably accurate to the nearest foot.

## Use of Water

The following abbreviations indicate the primary purpose for which water from the well is used:

| | | | |
|---|---|---|---|
| ARCD | air conditioning | IRR | irrigation |
| COM | commercial | OTHR | other |
| DOM | domestic | P.S. | public supply |
| INST | institutional | RECH | recharge |
| IND | industrial | UNSD | unused |

## Use of Well

The following abbreviations indicate the principal use of the well or the purpose for which the well or hole was drilled:

| | | | |
|---|---|---|---|
| DEST | well or hole destroyed | TEST | test hole |
| OBS | observation well | UNSD | well unused |
| RECH | recharge water | WTDR | withdrawal of water |

## Depth of Well

The figures give well depth or total depth of the drilled test hole, in feet below land surface.

EXPLANATION OF COLUMN HEADINGS AND ABBREVIATIONS USED IN TABLE 6 (Continued)

## Screen Setting and Total Screen Length

The altitudes of the top and bottom of the screened interval are given in feet above or below (-) sea level. The total length of screen or perforated pipe in that interval is given in feet. In some wells, screen was set at two or more intervals; in such cases the differences between the altitudes of the two screen settings is different from the total screen length.

## Diameter of Well

The diameter of the well is the nominal inside diameter of the smallest or innermost casing at land surface, in inches.

## Water Level (feet below land-surface datum)

The water level given is the reported original static water level, in feet above or below land surface, when the well was completed.

## Date of Measurement

Date of water-level measurement is by month (M), day (D), and year (Y).

## Lift Type

The following abbreviations indicate the type of pump or other conveyance used to bring water to the surface:

| | | | |
|---|---|---|---|
| CENT | centrifugal | TURB | turbine |
| JET | jet | NONE | no pump in well |
| SUBM | submersible | OTHR | some other type of lift |

## Aquifer Developed

The following abbreviations indicate the hydrogeologic unit that yields water to the well. Where two or more units yield water to the well, the probable principal unit is given:

| | | | |
|---|---|---|---|
| UPGLAC | Upper glacial aquifer | MAGOTHY | Magothy aquifer |
| PTWCU | Port Washington confining unit | LLOYD | Lloyd aquifer |
| PTWAQ | Port Washington aquifer | | |

## Specific Capacity

The value in this column is the number of gallons per minute pumped from the well per foot of drawdown in the well, as reported by drillers.

## Abbreviations

| | | | |
|---|---|---|---|
| COORD | coordinates | IN | inches |
| D | day | LSD | land surface datum |
| DIAM | diameter | M | month |
| FT | feet | MEAS | measurement |
| GPM/FT | gallons per minute pumped per foot of drawdown in well | SL | sea level |
| | | Y | year |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 107 | OLD WESTBURY | D 6 | 1935 | 212 | P.S. | WTDR | 506 | -243 TO -279 | 36 | 16 | 132 | 08-18-35 | TURB | MAGOTHY | 1 |
| N 109 | JERICHO WD | D 6 | 1925 | 48 | UNSD | DEST | 529 | -384 TO -465 | 59 | 16 | 26 | 06-27-24 | NONE | LLOYD | 20 |
| N 110 | JERICHO WD | D 6 | 1924 | 56 | UNSD | OBS | 519 | -389 TO -459 | 70 | 16 | 24.0 | 07-05-24 | NONE | LLOYD | 13 |
| N 112 | GLEN COVE | E 6 | 1930 | 53 | UNSD | DEST | 169 | -79 TO -116 | 37 | 15 | | | NONE | UPGLAC | |
| N 114 | NASSAU CC | E 6 | 1910 | 123 | IRR | WTDR | 117 | 30 TO 10 | 20 | 10 | | | | MAGOTHY | |
| N 115 | LOCUST VLY WD | E 6 | 1925 | 75 | UNSD | UNSD | 416 | -265 TO -332 | 67 | 18 | | | TURB | PTWAQ | 7 |
| N 116 | LOCUST VLY WD | E 6 | 1925 | 80 | UNSD | UNSD | 256 | | | | | | NONE | UPGLAC | |
| N 117 | LOCUST VLY WD | E 6 | | 77 | UNSD | UNSD | 155 | | | 16 | | | NONE | UPGLAC | |
| N 118 | LOCUST VLY WD | E 6 | 1932 | 65 | P.S. | WTDR | 477 | -347 TO -406 | 59 | 24 | | | TURB | LLOYD | 19 |
| N 119 | LOCUST VLY WD | E 6 | 1935 | 80 | P.S. | WTDR | 572 | -417 TO -491 | 74 | 18 | | | TURB | LLOYD | 29 |
| N 120 | LOCUST VLY WD | E 6 | 1933 | 80 | UNSD | TEST | 558 | | | | | | NONE | | |
| N 121 | CREEK CLUB | E 6 | 1933 | 120 | UNSD | TEST | 415 | | | | | | NONE | | |
| N 121 | CREEK CLUB | E 6 | 1933 | 120 | IRR | WTDR | 219 | -29 TO -87 | 42 | 12 | 56.5 | 10-00-33 | TURB | UPGLAC | 26 |
| N 124 | CREEK CLUB | E 6 | 1920 | 9 | UNSD | OBS | 390 | | | 12 | | | NONE | LLOYD | |
| N 149 | HICKSVILLE WD | D 7 | | 161 | UNSD | UNSD | 153 | | | | | | | UPGLAC | |
| N 150 | HICKSVILLE WD | D 7 | | 161 | UNSD | DEST | 148 | | | | | | | UPGLAC | 14 |
| N 166 | PIPING ROCK WTR | E 7 | 1936 | 55 | UNSD | UNSD | 118 | -43 TO -63 | 20 | 6 | 4.8 | 11-19-36 | NONE | MAGOTHY | 28 |
| N 167 | PIPING ROCK WTR | E 7 | 1936 | 55 | UNSD | UNSD | 123 | -45 TO -65 | 20 | 6 | | | NONE | MAGOTHY | |
| N 173 | M.C.TAYLOR | E 7 | 1920 | 38 | DOM | WTDR | 398 | | 11 | 6 | 19.5 | 03-00-20 | TURB | LLOYD | |
| N 198 | JERICHO WD | D 8 | 1930 | 240 | P.S. | WTDR | 628 | -327 TO -377 | 50 | 18 | | | TURB | MAGOTHY | 37 |
| N 199 | JERICHO WD | D 8 | 1930 | 235 | P.S. | WTDR | 611 | -309 TO -365 | 56 | 18 | | | TURB | MAGOTHY | 28 |
| N 202 | OYSTER BAY WD | E 7 | | 18 | UNSD | UNSD | 420 | | | | | | NONE | LLOYD | |
| N 486 | A.HUTCHINSON | E 7 | | 3 | | | 190 | | | 5 | | | | | |
| N 511 | W.P.WOODBRIDGE | E 7 | 1905 | 11 | UNSD | OBS | 359 | | 6 | 3 | | | NONE | PTWAQ | |
| N 551 | NATL. PARK SERV | E 7 | | 154 | UNSD | UNSD | 325 | | | | | | | PTWCU | |
| N 570 | JERICHO WD | D 8 | 1937 | 237 | P.S. | WTDR | 600 | -323 TO -363 | 40 | 18 | 178 | 07-15-37 | TURB | MAGOTHY | 66 |
| N 576 | L.I.RAILROAD CO | D 7 | 1936 | 144 | UNSD | | 409 | -255 TO -265 | 10 | 8 | | | NONE | MAGOTHY | |
| N 585 | OYSTER BAY WD | E 7 | 1937 | 18 | P.S. | WTDR | 78 | -39 TO -59 | 20 | 12 | 2 | 09-03-37 | OTHR | UPGLAC | 15 |
| N 590 | NATL. PARK SERV | E 8 | 1937 | 120 | DOM | WTDR | 165 | -32 TO -42 | 10 | 8 | 130 | 07-21-37 | | PTWCU | 6 |
| N 613 | PIPING ROCK WTR | E 7 | 1937 | 55 | UNSD | DEST | 140 | -61 TO -81 | 20 | 6 | 5.5 | 12-10-37 | NONE | MAGOTHY | 18 |
| N 614 | PIPING ROCK WTR | E 7 | 1937 | 55 | UNSD | UNSD | 122 | -44 TO -64 | 20 | 6 | 4.5 | 12-28-37 | NONE | MAGOTHY | 28 |
| N 638 | OLD WESTBURY CC | D 6 | 1938 | 295 | IRR | WTDR | 560 | -250 TO -265 | 15 | 12 | 209 | 00-00-62 | TURB | MAGOTHY | 3 |
| N 660 | POWERS CHEMCO | E 6 | | 58 | IND | WTDR | 404 | | | 15 | | | TURB | LLOYD | |
| N 661 | POWERS CHEMCO | E 6 | 1939 | 60 | UNSD | UNSD | 403 | -264 TO -340 | 70 | 10 | | | NONE | LLOYD | 11 |
| N 733 | OYSTER BAY WD | E 7 | | 18 | UNSD | DEST | 350 | | | 6 | | | NONE | PTWAQ | |
| N 734 | OYSTER BAY WD | E 7 | | 18 | UNSD | UNSD | 420 | | | 10 | | | NONE | LLOYD | 12 |
| N 735 | OYSTER BAY WD | E 7 | | 18 | P.S. | WTDR | 100 | | | | | | OTHR | UPGLAC | |
| N 736 | OYSTER BAY WD | E 7 | | 20 | P.S. | WTDR | 70 | | | 6 | | | OTHR | UPGLAC | |
| N 801 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 36 | | | 10 | | | NONE | UPGLAC | |
| N 802 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 162 | | | 8 | | | NONE | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 803 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 162 | | | 8 | | | NONE | UPGLAC | |
| N 804 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 151 | | | 8 | | | NONE | UPGLAC | |
| N 805 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 120 | | | 6 | | | NONE | UPGLAC | |
| N 806 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 122 | | | 6 | | | NONE | UPGLAC | |
| N 807 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 146 | | | 8 | | | NONE | UPGLAC | |
| N 808 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 55 | | | 8 | | | NONE | UPGLAC | |
| N 809 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 49 | | | 8 | | | NONE | UPGLAC | |
| N 810 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 52 | 17 TO 1 | 16 | 10 | | | NONE | UPGLAC | |
| N 811 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 42 | | | 8 | | | NONE | UPGLAC | |
| N 811 | GLEN COVE | E 6 | 1951 | 53 | UNSD | DEST | 58 | 11 TO -5 | 16 | | | | NONE | UPGLAC | |
| N 812 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 52 | | | 8 | | | NONE | UPGLAC | |
| N 813 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 55 | | | 8 | | | NONE | UPGLAC | |
| N 814 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 146 | | | 8 | | | NONE | UPGLAC | |
| N 815 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 161 | | | 6 | | | NONE | UPGLAC | |
| N 816 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 169 | | | 6 | | | NONE | UPGLAC | |
| N 817 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 164 | | | 10 | | | NONE | UPGLAC | |
| N 818 | GLEN COVE | E 6 | | 53 | UNSD | DEST | 159 | | | 10 | | | NONE | UPGLAC | |
| N 834 | GLEN COVE | E 6 | | 10 | UNSD | UNSD | 302 | -272 TO -292 | 20 | 8 | | | NONE | UPGLAC | |
| N 835 | GLEN COVE | E 6 | 1931 | 10 | P.S. | WTDR | 303 | -266 TO -290 | 24 | 10 | | | | LLOYD | |
| N 842 | SEA CLIFF WATER | E 6 | 1940 | 8 | UNSD | UNSD | 420 | -357 TO -407 | 50 | 20 | FLOWING | 07-19-40 | NONE | LLOYD | |
| N 844 | L.I.RAILROAD CO | D 7 | | 149 | UNSD | | 258 | | | 10 | | | NONE | MAGOTHY | |
| N 901 | SEA CLIFF WATER | E 6 | 1915 | 9 | UNSD | DEST | 84 | | | 10 | | | NONE | UPGLAC | |
| N 901 | SEA CLIFF WATER | E 6 | 1951 | 9 | P.S. | WTDR | 68 | -37 TO -59 | 22 | 8 | | | OTHR | UPGLAC | |
| N 902 | SEA CLIFF WATER | E 6 | 1921 | 9 | UNSD | DEST | 84 | | | | | | NONE | UPGLAC | |
| N 902 | SEA CLIFF WATER | E 6 | 1946 | 9 | P.S. | WTDR | 60 | | | 10 | | | OTHR | UPGLAC | |
| N 903 | SEA CLIFF WATER | E 6 | 1921 | 9 | P.S. | WTDR | 184 | | | 10 | | | OTHR | UPGLAC | |
| N 904 | SEA CLIFF WATER | E 6 | 1917 | 9 | UNSD | UNSD | 80 | | | 10 | | | NONE | UPGLAC | |
| N 905 | SEA CLIFF WATER | E 6 | 1921 | 9 | UNSD | DEST | 80 | | | 8 | | | NONE | UPGLAC | |
| N 905 | SEA CLIFF WATER | E 6 | 1951 | 9 | P.S. | WTDR | 67 | -37 TO -58 | 21 | 8 | | | OTHR | UPGLAC | |
| N 906 | SEA CLIFF WATER | E 6 | 1927 | 9 | P.S. | WTDR | 419 | | | | | | OTHR | LLOYD | |
| N 907 | SEA CLIFF WATER | E 6 | | 9 | P.S. | WTDR | 134 | | | 10 | | | OTHR | PTWCU | |
| N 908 | SEA CLIFF WATER | E 6 | | 9 | P.S. | WTDR | 293 | | | 10 | | | OTHR | PTWCU | |
| N 909 | SEA CLIFF WATER | E 6 | | 9 | P.S. | WTDR | 196 | | | 10 | | | OTHR | PTWCU | |
| N 1037 | SEA CLIFF WATER | E 6 | 1940 | 10 | P.S. | WTDR | 68 | -35 TO -55 | 20 | 24 | 8 | 01-25-40 | OTHR | UPGLAC | 34 |
| N 1149 | NASSAU CO DPW | E 6 | 1941 | 89 | UNSD | OBS | 82 | | | 2.50 | 48.25 | 09-25-41 | NONE | PTWCU | |
| N 1150 | NASSAU CO DPW | E 6 | 1938 | 53 | UNSD | DEST | 21 | | | 1.25 | 15.29 | 06-09-38 | NONE | UPGLAC | |
| N 1150 | NASSAU CO DPW | E 6 | 1966 | 56 | UNSD | OBS | 28 | 31 TO 28 | 3 | 1.25 | 19.57 | 05-27-66 | TURB | UPGLAC | |
| N 1151 | NASSAU CO DPW | E 6 | 1938 | 34 | UNSD | DEST | 26 | | | 1.25 | 11.89 | 06-09-38 | NONE | UPGLAC | |
| N 1151 | NASSAU CO DPW | E 6 | 1965 | 33 | UNSD | OBS | 23 | 13 TO 10 | 3 | 1.25 | 10.08 | 04-09-65 | NONE | UPGLAC | |
| N 1152 | NASSAU CO DPW | E 6 | 1940 | 154 | UNSD | DEST | 130 | | | 4 | 102.94 | 08-06-40 | NONE | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 1152 | NASSAU CO DPW | E 6 | 1965 | 154 | UNSD | OBS | | | | 4 | 107.74 | 06-07-65 | NONE | UPGLAC | |
| N 1153 | NASSAU CO DPW | E 6 | 1940 | 122 | UNSD | OBS | 86 | | | 2.50 | 59.70 | 09-09-40 | NONE | MAGOTHY | |
| N 1170 | NASSAU CO DPW | E 6 | 1938 | 10 | UNSD | OBS | 49 | | | 1.25 | | | NONE | UPGLAC | |
| N 1170 | NASSAU CO DPW | E 6 | 1976 | 10 | UNSD | OBS | 16 | -1 TO -6 | 5 | 4 | | | NONE | UPGLAC | |
| N 1171 | NASSAU CO DPW | E 6 | 1938 | 68 | UNSD | DEST | 41 | | | 1.25 | | | NONE | UPGLAC | |
| N 1171 | NASSAU CO DPW | E 6 | 1942 | 83 | UNSD | DEST | 38 | | | 2.50 | 20.90 | 09-11-42 | NONE | UPGLAC | |
| N 1172 | NASSAU CO DPW | E 6 | 1940 | 144 | UNSD | OBS | 102 | | | 2.50 | 83.35 | 09-24-40 | NONE | UPGLAC | |
| N 1173 | NASSAU CO DPW | E 6 | 1941 | 145 | UNSD | DEST | 97 | 53 TO 48 | 5 | 2.50 | 78.65 | 09-11-41 | NONE | UPGLAC | |
| N 1174 | NASSAU CO DPW | E 6 | 1940 | 113 | UNSD | DEST | 60 | | | 2.50 | 38.69 | 09-13-40 | NONE | MAGOTHY | |
| N 1175 | NASSAU CO DPW | D 6 | 1940 | 177 | UNSD | DEST | 158 | | | 4 | 92.50 | 10-24-40 | NONE | MAGOTHY | |
| N 1176 | NASSAU CO DPW | D 6 | 1940 | 195 | UNSD | OBS | 198 | | | 4 | 109.28 | 10-08-40 | NONE | MAGOTHY | |
| N 1187 | NASSAU CO DPW | E 7 | 1938 | 6 | UNSD | DEST | 25 | | | 1.25 | | | NONE | UPGLAC | |
| N 1188 | NASSAU CO DPW | E 7 | 1938 | 37 | UNSD | DEST | 34 | | | 1.25 | 17.03 | 07-25-38 | NONE | UPGLAC | |
| N 1188 | NASSAU CO DPW | E 7 | 1961 | 35 | UNSD | OBS | 29 | 9 TO 6 | 3 | 1.25 | 10.20 | 11-22-61 | NONE | UPGLAC | |
| N 1189 | NASSAU CO DPW | E 7 | 1940 | 67 | UNSD | OBS | 33 | | | 1.25 | 12.78 | 11-26-40 | NONE | PTWCU | |
| N 1190 | NASSAU CO DPW | E 7 | 1940 | 128 | UNSD | OBS | 99 | | | 4 | 67.62 | 11-06-40 | NONE | UPGLAC | |
| N 1191 | NASSAU CO DPW | E 7 | 1940 | 154 | UNSD | DEST | 97 | | | 2.50 | 77.76 | 11-22-40 | NONE | UPGLAC | |
| N 1192 | NASSAU CO DPW | D 7 | 1941 | 143 | UNSD | OBS | 78 | 70 TO 65 | 5 | 2.50 | 55.73 | 08-11-41 | NONE | MAGOTHY | |
| N 1193 | NASSAU CO DPW | D 7 | 1940 | 231 | UNSD | DEST | 161 | | | 2.50 | 141.40 | 10-18-40 | NONE | MAGOTHY | |
| N 1194 | NASSAU CO DPW | D 7 | 1940 | 174 | UNSD | DEST | 104 | | | 2.50 | 85.60 | 10-31-40 | NONE | UPGLAC | |
| N 1194 | NASSAU CO DPW | D 7 | 1961 | 168 | UNSD | OBS | 100 | | | 4 | 79.20 | 12-14-61 | NONE | UPGLAC | |
| N 1195 | NASSAU CO DPW | D 7 | 1941 | 147 | UNSD | DEST | 84 | 68 TO 63 | 5 | 2.50 | 64.45 | 09-16-41 | NONE | UPGLAC | |
| N 1195 | NASSAU CO DPW | D 7 | 1961 | 148 | UNSD | TEST | 155 | | | | | | NONE | | |
| N 1195 | NASSAU CO DPW | D 7 | 1961 | 148 | UNSD | DEST | 77 | | | 1.25 | 61.85 | 11-30-61 | NONE | UPGLAC | |
| N 1195 | NASSAU CO DPW | D 7 | 1966 | 148 | UNSD | DEST | 93 | | | 1.25 | 58.00 | 11-22-66 | NONE | UPGLAC | |
| N 1195 | NASSAU CO DPW | D 7 | 1976 | 148 | UNSD | OBS | 116 | 37 TO 32 | 5 | 4 | 63.70 | 08-18-76 | NONE | MAGOTHY | |
| N 1206 | NASSAU CO DPW | E 7 | 1938 | 9 | UNSD | DEST | 30 | | | 1.25 | | | NONE | UPGLAC | |
| N 1207 | NASSAU CO DPW | E 7 | 1938 | 23 | UNSD | OBS | 24 | | | 1.25 | | | NONE | UPGLAC | |
| N 1208 | NASSAU CO DPW | E 7 | 1938 | 59 | UNSD | DEST | 31 | | | 1.25 | 15.21 | 07-28-38 | NONE | UPGLAC | |
| N 1208 | NASSAU CO DPW | E 7 | 1959 | 59 | UNSD | DEST | 31 | | | 1.25 | | | NONE | UPGLAC | |
| N 1208 | NASSAU CO DPW | E 7 | 1963 | 58 | UNSD | OBS | 33 | 28 TO 25 | 3 | 1.25 | 13.45 | 02-19-63 | NONE | UPGLAC | |
| N 1209 | NASSAU CO DPW | E 7 | 1941 | 126 | UNSD | DEST | 68 | 63 TO 58 | 5 | 2.50 | 49.03 | 06-10-41 | NONE | UPGLAC | |
| N 1209 | NASSAU CO DPW | E 7 | 1942 | 126 | UNSD | DEST | 133 | | | 2.50 | 49.31 | 11-20-42 | NONE | UPGLAC | |
| N 1209 | NASSAU CO DPW | E 7 | 1943 | 126 | UNSD | DEST | 129 | | | 2.50 | 50.20 | 06-23-43 | NONE | UPGLAC | |
| N 1209 | NASSAU CO DPW | E 7 | 1943 | 126 | UNSD | DEST | 174 | | | 4 | 27.44 | 12-16-42 | NONE | UPGLAC | |
| N 1209 | NASSAU CO DPW | E 7 | 1961 | 122 | UNSD | OBS | 64 | | | 4 | 38.07 | 12-29-61 | NONE | UPGLAC | |
| N 1210 | NASSAU CO DPW | E 7 | 1941 | 188 | UNSD | DEST | 108 | | | 2.50 | 86.25 | 06-24-41 | NONE | MAGOTHY | |
| N 1210 | NASSAU CO DPW | E 7 | 1942 | 188 | UNSD | DEST | 140 | 53 TO 48 | 5 | 2.50 | 93.90 | 07-30-42 | NONE | MAGOTHY | |
| N 1210 | NASSAU CO DPW | E 7 | 1965 | 187 | UNSD | OBS | 143 | 47 TO 44 | 3 | 1.25 | 98.84 | 04-06-65 | NONE | MAGOTHY | |
| N 1211 | NASSAU CO DPW | D 7 | 1941 | 217 | UNSD | OBS | 156 | 66 TO 61 | 5 | 2.50 | 141.55 | 06-03-41 | NONE | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 1212 | NASSAU CO DPW | D 7 | 1941 | 227 | UNSD | DEST | 125 | | | 4 | 96.18 | 04-25-41 | NONE | MAGOTHY | |
| N 1212 | NASSAU CO DPW | D 7 | 1942 | 227 | UNSD | OBS | 185 | 48 TO 42 | 6 | 4 | 143.48 | 07-20-42 | NONE | MAGOTHY | |
| N 1213 | NASSAU CO DPW | D 7 | 1941 | 175 | UNSD | DEST | 109 | 71 TO 66 | 5 | 2.50 | 89.98 | 05-15-41 | NONE | UPGLAC | |
| N 1214 | NASSAU CO DPW | D 7 | 1938 | 149 | UNSD | DEST | 80 | | | 1.25 | 68.78 | 10-13-38 | NONE | UPGLAC | |
| N 1214 | NASSAU CO DPW | D 7 | 1950 | 149 | UNSD | DEST | 77 | | | 1.25 | 62.00 | 02-18-50 | NONE | UPGLAC | |
| N 1214 | NASSAU CO DPW | D 7 | 1965 | 148 | UNSD | OBS | 85 | 66 TO 63 | 3 | 1.25 | 73.14 | 09-22-65 | NONE | UPGLAC | |
| N 1224 | NASSAU CO DPW | E 7 | 1941 | 25 | UNSD | OBS | 39 | -10 TO -13 | 3 | 1.25 | 22.37 | 10-06-41 | NONE | UPGLAC | |
| N 1225 | NASSAU CO DPW | E 7 | 1938 | 8 | UNSD | OBS | 20 | | | 1.25 | 5.32 | 07-29-38 | NONE | UPGLAC | |
| N 1226 | NASSAU CO DPW | E 7 | 1941 | 34 | UNSD | OBS | 62 | -26 TO -28 | 2 | 1.25 | 9.18 | 10-09-41 | NONE | PTWCU | |
| N 1227 | NASSAU CO DPW | E 8 | 1941 | 172 | UNSD | OBS | 134 | 43 TO 38 | 5 | 2.50 | 120.17 | 07-23-41 | NONE | MAGOTHY | |
| N 1228 | NASSAU DO DPW | D 8 | 1941 | 224 | UNSD | DEST | 189 | 41 TO 35 | 6 | 4 | 156.59 | 03-13-41 | NONE | UPGLAC | |
| N 1228 | NASSAU CO DPW | D 8 | 1941 | 224 | UNSD | DEST | 179 | 51 TO 45 | 6 | 4 | 156.88 | 03-06-41 | NONE | UPGLAC | |
| N 1228 | NASSAU CO DPW | D 8 | 1962 | 227 | UNSD | OBS | 175 | 54 TO 51 | 3 | 4 | 158.27 | 02-06-62 | NONE | UPGLAC | |
| N 1229 | NASSAU CO DPW | D 8 | 1941 | 251 | UNSD | OBS | 201 | | | 4 | 173.17 | 01-09-41 | NONE | MAGOTHY | |
| N 1230 | NASSAU CO DPW | D 8 | 1940 | 174 | UNSD | DEST | 144 | | | 2.50 | 90.52 | 12-13-40 | NONE | MAGOTHY | |
| N 1231 | NASSAU CO DPW | D 8 | 1940 | 143 | UNSD | DEST | 83 | | | 2.50 | 61.46 | 11-27-40 | NONE | MAGOTHY | |
| N 1231 | NASSAU CO DPW | D 8 | 1962 | 139 | UNSD | OBS | 81 | | | 2.50 | 53.72 | 03-30-62 | NONE | MAGOTHY | |
| N 1242 | NASSAU CO DPW | E 8 | 1938 | 41 | UNSD | DEST | 31 | | | 1.25 | | | NONE | UPGLAC | |
| N 1242 | NASSAU CO DPW | E 8 | 1953 | 41 | UNSD | OBS | 32 | | | 1.25 | 14.69 | 01-05-53 | NONE | UPGLAC | |
| N 1243 | NASSAU CO DPW | E 8 | 1939 | 65 | UNSD | DEST | 22 | | | 1.25 | | | NONE | UPGLAC | |
| N 1243 | NASSAU CO DPW | E 8 | 1953 | 65 | UNSD | DEST | 24 | 44 TO 41 | 3 | 1.25 | 7.15 | 01-07-53 | NONE | UPGLAC | |
| N 1243 | NASSAU CO DPW | E 8 | 1959 | 67 | UNSD | DEST | | | | 1.25 | | | NONE | UPGLAC | |
| N 1243 | NASSAU CO DPW | E 8 | 1966 | 64 | UNSD | DEST | 28 | 39 TO 36 | 3 | 1.25 | 16.00 | 12-08-66 | NONE | MAGOTHY | |
| N 1243 | NASSAU CO DPW | E 8 | 1975 | 64 | UNSD | OBS | 28 | 39 TO 36 | 3 | 1.25 | 6.44 | 09-22-75 | NONE | MAGOTHY | |
| N 1244 | NASSAU CO DPW | D 8 | 1940 | 249 | UNSD | | 262 | -8 TO -11 | 3 | 4 | 171.65 | 04-03-40 | NONE | MAGOTHY | |
| N 1245 | NASSAU CO DPW | D 8 | 1940 | 260 | UNSD | OBS | 202 | | | 2.50 | 175.58 | 01-02-40 | NONE | MAGOTHY | |
| N 1246 | NASSAU CO DPW | D 8 | 1940 | 186 | UNSD | OBS | 124 | | | 4 | 102.77 | 04-30-40 | NONE | MAGOTHY | |
| N 1327 | SEA CLIFF WATER | E 6 | 1940 | 10 | P.S. | WTDR | 126 | -91 TO -116 | 25 | 24 | FLOWING | 05-22-40 | OTHR | UPGLAC | |
| N 1476 | NASSAU CO DPW | E 7 | 1944 | 130 | UNSD | OBS | 83 | | | 4 | | | NONE | MAGOTHY | |
| N 1477 | NASSAU CO DPW | E 7 | 1944 | 216 | UNSD | OBS | 194 | | | 4 | | | NONE | UPGLAC | |
| N 1481 | NASSAU CO DPW | D 7 | 1944 | 149 | UNSD | DEST | 77 | | | 4 | 67.55 | 04-18-44 | NONE | UPGLAC | |
| N 1486 | J.B.SOLERWITZ | E 8 | 1927 | 5 | DOM | WTDR | 500 | | | 8 | | | NONE | LLOYD | |
| N 1595 | SEA CLIFF WATER | E 6 | 1940 | 11 | P.S. | WTDR | 125 | -84 TO -114 | 30 | 16 | 2 | 09-23-40 | | UPGLAC | 15 |
| N 1651 | LOCUST VLY WD | E 6 | 1941 | 162 | P.S. | WTDR | 470 | -223 TO -303 | 80 | 18 | 145 | 01-19-41 | TURB | LLOYD | 24 |
| N 1767 | OYSTER BAY | D 8 | 1941 | 251 | DOM | WTDR | 582 | -310 TO -331 | 21 | 10 | 180 | 10-10-41 | | MAGOTHY | 10 |
| N 1768 | OYSTER BAY | D 8 | | 250 | | | 260 | | | 8 | | | | MAGOTHY | |
| N 1773 | ST.UNIV.AT O.W. | D 7 | 1942 | 228 | UNSD | UNSD | 293 | -53 TO -65 | 12 | 8 | 151 | 01-14-42 | TURB | MAGOTHY | |
| N 1774 | ST.UNIV.AT O.W. | D 7 | | 241 | UNSD | UNSD | 134 | | | 8 | | | NONE | UPGLAC | |
| N 1775 | ST.UNIV.AT O.W. | D 7 | | 188 | UNSD | UNSD | 286 | | | 6 | | | TURB | MAGOTHY | |
| N 1917 | LI TUNGSTEN | E 6 | 1943 | 15 | IND | WTDR | 307 | -281 TO -291 | 10 | 8 | | | TURB | LLOYD | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 2017 | FRIEDMAN | E 7 | 1945 | 10 | DOM | WTDR | 395 | -375 TO -384 | 9 | 8 | FLOWING | 04-25-45 | | LLOYD | |
| N 2027 | SORENSON LUMBER | E 6 | 1945 | 21 | UNSD | DEST | 76 | -39 TO -54 | 15 | 6 | FLOWING | 04-10-45 | NONE | UPGLAC | 12 |
| N 2060 | GLEN COVE ROT. | E 6 | 1946 | 26 | UNSD | UNSD | 82 | -34 TO -44 | 10 | 8 | 8 | 06-01-46 | | UPGLAC | 13 |
| N 2072 | HICKSVILLE WD | D 7 | 1946 | 162 | UNSD | DEST | 159 | 24 TO 3 | 21 | 10 | 80 | 05-15-46 | TURB | UPGLAC | 28 |
| N 2087 | POWERS CHEMCO | E 6 | 1946 | 50 | UNSD | DEST | 75 | -9 TO -25 | 16 | 8 | 15 | 02-25-46 | NONE | UPGLAC | 2 |
| N 2087 | POWERS CHEMCO | E 6 | 1946 | 50 | IND | WTDR | 345 | -284 TO -295 | 11 | 8 | 20 | 07-15-52 | TURB | LLOYD | 6 |
| N 2088 | F.M.GOULD | E 8 | 1932 | 159 | | | 605 | | | 8 | | | | LLOYD | |
| N 2113 | G.CAROELLI | E 7 | 1946 | 10 | DOM | WTDR | 449 | -417 TO -439 | 22 | 8 | FLOWING | 05-16-46 | | LLOYD | |
| N 2132 | KOENIG | E 7 | 1907 | 10 | UNSD | DEST | 469 | | | 5 | FLOWING | 00-00-14 | NONE | LLOYD | |
| N 2208 | NEW YORK STATE | E 8 | 1903 | 15 | IND | WTDR | 76 | | | 6 | | | NONE | UPGLAC | |
| N 2209 | NEW YORK STATE | E 8 | 1903 | 15 | IND | WTDR | 84 | | | 6 | | | NONE | UPGLAC | |
| N 2210 | NEW YORK STATE | E 8 | 1903 | 15 | IND | WTDR | 86 | | | 5 | | | NONE | UPGLAC | |
| N 2211 | NEW YORK STATE | E 8 | 1903 | 15 | IND | WTDR | 66 | | | 6 | | | NONE | UPGLAC | |
| N 2238 | L.I.RAILROAD CO | E 7 | | 10 | | | 198 | | | 8 | | | | PTWCU | |
| N 2241 | BAKER-CAMPBELL | E 7 | 1947 | 18 | DOM | WTDR | 376 | -346 TO -358 | 12 | 8 | +6 | 10-01-47 | | LLOYD | 25 |
| N 2316 | PALL CORP | E 6 | 1930 | 157 | IND | WTDR | 170 | | | 6 | | | TURB | UPGLAC | |
| N 2409 | NEW YORK STATE | E 8 | 1947 | 15 | IND | WTDR | 93 | -51 TO -71 | 20 | 10 | FLOWING | 09-10-47 | NONE | UPGLAC | 18 |
| N 2410 | NEW YORK STATE | E 8 | 1947 | 15 | IND | WTDR | 90 | -50 TO -70 | 20 | 10 | FLOWING | 09-12-47 | NONE | UPGLAC | 25 |
| N 2528 | NASSAU CO DPW | E 7 | 1946 | 92 | UNSD | TEST | 343 | | | | | | NONE | | |
| N 2528 | NASSAU CO DPW | E 7 | 1947 | 93 | UNSD | OBS | 328 | -185 TO -189 | 4 | 6 | | | NONE | UPGLAC | |
| N 2616 | GLEN HEAD CC | E 6 | 1931 | 75 | IRR | WTDR | 232 | -109 TO -146 | 37 | 12 | 8 | 01-30-30 | TURB | UPGLAC | 59 |
| N 2920 | SEL-VRA ACRES | E 8 | 1948 | 10 | P.S. | WTDR | | | | 10 | | | | LLOYD | |
| N 3310 | L.I.LIGHTING CO | D 6 | 1949 | 27 | IND | WTDR | 151 | -93 TO -124 | 31 | 12 | 4.9 | 06-27-49 | TURB | UPGLAC | 43 |
| N 3444 | JERICHO WD | D 7 | 1949 | 263 | UNSD | TEST | 460 | | | | | | NONE | | |
| N 3466 | GLEN COVE | E 6 | 1950 | 53 | P.S. | WTDR | 177 | -95 TO -120 | 25 | 12 | FLOWING | 04-25-50 | | UPGLAC | 9 |
| N 3474 | JERICHO WD | D 7 | 1951 | 244 | P.S. | WTDR | 517 | -208 TO -268 | 60 | 18 | 153 | 06-02-50 | TURB | MAGOTHY | 31 |
| N 3475 | JERICHO WD | D 7 | 1950 | 208 | P.S. | WTDR | 487 | -224 TO -274 | 50 | 18 | 121 | 07-22-50 | TURB | MAGOTHY | 36 |
| N 3486 | OYSTER BAY WD | E 7 | 1950 | 18 | P.S. | WTDR | 102 | -52 TO -84 | 32 | 12 | | | | UPGLAC | |
| N 3561 | OYSTER BAY WD | E 7 | 1950 | 18 | P.S. | WTDR | 120 | -70 TO -100 | 30 | 12 | FLOWING | 08-31-50 | | UPGLAC | |
| N 3569 | CERRO WIRE | D 7 | 1951 | 181 | IND | WTDR | 402 | -172 TO -221 | 49 | 16 | 95 | 06-04-51 | TURB | MAGOTHY | 10 |
| N 3838 | SPIEGEL ASSOC. | D 7 | 1951 | 195 | UNSD | DEST | 163 | 42 TO 32 | 10 | 8 | 105 | 12-03-51 | NONE | MAGOTHY | 4 |
| N 3850 | FAIRCHILD CORP | D 7 | | 185 | UNSD | TEST | 501 | | | | | | NONE | | |
| N 3850 | FAIRCHILD CORP | D 7 | 1953 | 185 | UNSD | UNSD | 445 | -215 TO -255 | 40 | 16 | 104 | 02-08-52 | TURB | MAGOTHY | 39 |
| N 3860 | FAIRCHILD CORP | D 7 | 1953 | 183 | UNSD | UNSD | 445 | -217 TO -257 | 40 | 16 | 101 | 03-25-52 | SUBM | MAGOTHY | 43 |
| N 3874 | FAIRCHILD CORP | D 7 | 1952 | 183 | UNSD | UNSD | 335 | -127 TO -147 | 20 | 16 | 106 | 11-06-52 | TURB | MAGOTHY | 8 |
| N 3877 | HICKSVILLE WD | D 7 | 1952 | 152 | UNSD | TEST | 555 | | | | | | NONE | | |
| N 3878 | HICKSVILLE WD | D 7 | 1952 | 150 | UNSD | TEST | 606 | | | | | | NONE | | |
| N 3878 | HICKSVILLE WD | D 7 | 1952 | 150 | P.S. | WTDR | 428 | -225 TO -278 | 53 | 18 | 67 | 07-22-52 | TURB | MAGOTHY | 53 |
| N 3892 | GLEN COVE | E 6 | 1953 | 145 | UNSD | TEST | 445 | | | | | | NONE | | |
| N 3892 | GLEN COVE | E 6 | 1953 | 145 | P.S. | WTDR | 251 | 6 TO -101 | 54 | 16 | 87 | 10-07-53 | | UPGLAC | 40 |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 3925 | COCA COLA CO | D 7 | 1952 | 158 | UNSD | UNSD | 143 | 36 TO 15 | 21 | 8 | 63 | 08-14-52 | TURB | UPGLAC | |
| N 3953 | HICKSVILLE WD | D 7 | 1952 | 152 | UNSD | TEST | 514 | | | | | | NONE | | |
| N 3953 | HICKSVILLE WD | D 7 | 1953 | 152 | P.S. | WTDR | 419 | -17 TO -267 | 92 | 18 | 66 | 11-14-52 | TURB | MAGOTHY | 69 |
| N 3982 | A.DAVIS | E 7 | 1952 | 20 | DOM | WTDR | 419 | -376 TO -399 | 23 | 6 | FLOWING | 10-07-52 | TURB | LLOYD | |
| N 4058 | CERTIFIED IND | E 7 | 1952 | 75 | UNSD | DEST | 200 | | | | | | NONE | MAGOTHY | |
| N 4095 | PLAINVIEW WD | D 8 | 1954 | 150 | P.S. | WTDR | 495 | -290 TO -340 | 50 | 18 | 72 | 08-03-54 | TURB | MAGOTHY | 31 |
| N 4096 | PLAINVIEW WD | D 8 | 1954 | 150 | P.S. | WTDR | 499 | -294 TO -344 | 50 | 18 | 68 | 08-02-54 | TURB | MAGOTHY | 37 |
| N 4097 | PLAINVIEW WD | D 8 | 1954 | 158 | P.S. | WTDR | 470 | -255 TO -305 | 50 | 18 | 75 | 08-04-54 | TURB | MAGOTHY | 36 |
| N 4133 | JERICHO WD | D 7 | 1954 | 192 | P.S. | WTDR | 445 | -208 TO -258 | 50 | 18 | 102 | 05-28-54 | TURB | MAGOTHY | 17 |
| N 4136 | OYSTER BAY WD | E 7 | 1953 | 18 | UNSD | UNSD | 310 | | | | | | NONE | PTWAQ | |
| N 4137 | OYSTER BAY WD | E 7 | 1953 | 18 | UNSD | UNSD | 188 | -145 TO -170 | 25 | 12 | FLOWING | 04-28-53 | NONE | PTWCU | |
| N 4245 | JERICHO WD | D 7 | 1955 | 222 | P.S. | WTDR | 571 | -303 TO -343 | 40 | 18 | 150 | 11-12-53 | TURB | MAGOTHY | 30 |
| N 4246 | JERICHO WD | D 7 | 1954 | 200 | UNSD | UNSD | 458 | -203 TO -253 | 50 | 18 | 110 | 11-05-54 | TURB | MAGOTHY | 31 |
| N 4376 | MARY G.BURKE | E 7 | 1953 | 58 | DOM | WTDR | 367 | -298 TO -308 | 10 | 6 | 50 | 12-07-53 | TURB | LLOYD | 15 |
| N 4400 | OYSTER BAY WD | E 8 | 1954 | 36 | UNSD | TEST | 400 | | | | | | NONE | | |
| N 4400 | OYSTER BAY WD | E 8 | 1957 | 36 | P.S. | WTDR | 302 | -178 TO -266 | 88 | 20 | 2 | 09-04-56 | TURB | MAGOTHY | 50 |
| N 4431 | CERTIFIED IND | D 7 | 1953 | 98 | UNSD | DEST | 30 | 79 TO 68 | 11 | 4 | 4 | 06-00-53 | NONE | UPGLAC | 11 |
| N 4432 | DYCKMAN LAUNDRY | E 6 | 1955 | 28 | COM | WTDR | 352 | -304 TO -320 | 16 | 6 | FLOWING | 04-00-55 | TURB | LLOYD | 2 |
| N 4440 | F.MARMORALE | E 7 | 1954 | 16 | DOM | WTDR | 316 | -290 TO -300 | 10 | 6 | 0 | 07-16-54 | | LLOYD | 10 |
| N 4462 | NORTH SHORE CC | E 6 | 1954 | 69 | UNSD | TEST | 271 | | | | | | NONE | | |
| N 4462 | NORTH SHORE CC | E 6 | 1954 | 69 | IRR | WTDR | 181 | -80 TO -112 | 32 | 12 | 46 | 05-25-54 | TURB | PTWCU | 10 |
| N 4633 | MEADOWBROOK CL | D 7 | | 176 | UNSD | TEST | 308 | | | | | | NONE | | |
| N 4633 | MEADOWBROOK CL | D 7 | 1954 | 176 | IRR | WTDR | 216 | 13 TO -39 | 52 | 16 | 94 | 08-25-54 | TURB | MAGOTHY | 83 |
| N 4639 | NASSAU CC | E 6 | 1911 | 123 | | WTDR | 250 | | | 10 | | | | MAGOTHY | |
| N 4760 | PINE HOLLOW CC | E 7 | 1954 | 220 | IRR | WTDR | 247 | 5 TO -27 | 32 | 12 | 172 | 09-15-54 | TURB | UPGLAC | 51 |
| N 4891 | PINE HOLLOW CC | E 7 | 1933 | 230 | UNSD | UNSD | 245 | | | 10 | 183 | 05-00-33 | TURB | UPGLAC | 9 |
| N 5058 | WM.J.LEVITT | D 7 | 1955 | 238 | UNSD | UNSD | 255 | 3 TO -17 | 20 | 8 | 151 | 11-17-54 | TURB | MAGOTHY | 25 |
| N 5071 | NASSAU CC | E 6 | 1954 | 143 | IRR | WTDR | 242 | -67 TO -99 | 32 | 12 | 90 | 10-26-54 | TURB | MAGOTHY | 29 |
| N 5086 | S.L.LANG | D 7 | 1955 | 225 | UNSD | DEST | 193 | 36 TO 32 | 4 | 4 | 170 | 00-00-55 | NONE | MAGOTHY | |
| N 5152 | LOCUST VLY WD | E 6 | 1956 | 44 | P.S. | WTDR | 360 | -261 TO -311 | 50 | 18 | 18 | 08-10-56 | TURB | PTWAQ | 11 |
| N 5188 | P.SAMRAD | E 7 | 1955 | 22 | DOM | WTDR | 375 | -340 TO -350 | 10 | 6 | | | TURB | LLOYD | 3 |
| N 5201 | JERICHO WD | D 6 | 1956 | 48 | P.S. | WTDR | 509 | -386 TO -456 | 70 | 18 | 36 | 06-12-56 | TURB | LLOYD | 27 |
| N 5250 | NASSAU CO DPW | E 6 | 1944 | 128 | UNSD | DEST | 89 | | | 2.50 | 71.48 | 06-23-44 | NONE | UPGLAC | |
| N 5250 | NASSAU CO DPW | E 6 | 1967 | 123 | UNSD | OBS | 101 | | | 1.25 | 79.80 | 01-24-67 | NONE | UPGLAC | |
| N 5261 | GLEN COVE | E 6 | 1955 | 145 | UNSD | TEST | 302 | | | | | | NONE | | |
| N 5261 | GLEN COVE | E 6 | 1955 | 145 | P.S. | WTDR | 235 | 14 TO -85 | 59 | 18 | 97 | 05-14-55 | SUBM | PTWCU | 43 |
| N 5332 | CERTIFIED IND | E 7 | 1955 | 73 | UNSD | DEST | 162 | -44 TO -89 | 45 | 12 | 28 | 11-26-55 | NONE | UPGLAC | 34 |
| N 5335 | CERT.REDI MIX | D 7 | 1955 | 170 | UNSD | DEST | 144 | 47 TO 26 | 21 | 6 | 80 | 00-00-55 | NONE | MAGOTHY | |
| N 5450 | ENGINEERS CC | D 6 | 1955 | 57 | IRR | WTDR | 80 | -1 TO -23 | 22 | 12 | 7.5 | 06-29-55 | TURB | UPGLAC | 15 |
| N 5672 | BEAVER DAM CLUB | E 7 | 1955 | 25 | COM | WTDR | 121 | -76 TO -96 | 20 | 8 | FLOWING | 12-06-55 | TURB | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 5677 | KOLLSMAN INST. | D 7 | 1955 | 218 | UNSD | TEST | 429 | | | | | | NONE | | |
| N 5677 | KOLLSMAN INST. | D 7 | 1956 | 218 | | WTDR | 257 | 47 TO -39 | 60 | 12 | 130 | 06-22-56 | TURB | MAGOTHY | 44 |
| N 5762 | GLEN COVE | E 6 | 1956 | 145 | UNSD | TEST | 310 | | | | | | NONE | | |
| N 5762 | GLEN COVE | E 6 | 1956 | 145 | P.S. | WTDR | 283 | -76 TO -135 | 59 | 18 | 81 | 07-05-56 | SUBM | MAGOTHY | 58 |
| N 5792 | SEA CLIFF WATER | E 6 | 1956 | 140 | UNSD | TEST | 361 | | | | | | NONE | | |
| N 5792 | SEA CLIFF WATER | E 6 | 1957 | 140 | P.S. | WTDR | 300 | -115 TO -155 | 40 | 20 | 84.4 | 11-07-57 | TURB | UPGLAC | 175 |
| N 5851 | ST.UNIV.AT O.W. | D 7 | 1956 | 218 | DOM | WTDR | 177 | 47 TO 41 | 6 | 6 | 128 | 08-31-56 | SUBM | MAGOTHY | 2 |
| N 5901 | CERT.REDI-MIX | D 7 | 1956 | 179 | UNSD | DEST | 148 | 42 TO 31 | 11 | 4 | 90 | 06-02-56 | NONE | MAGOTHY | |
| N 5994 | GLEN COVE HOSP | E 6 | 1957 | 130 | INST | WTDR | 226 | -43 TO -96 | 36 | 16 | 73 | 08-22-56 | TURB | MAGOTHY | 43 |
| N 6042 | MILL NECK ESTS. | E 7 | | 10 | P.S. | WTDR | 347 | -318 TO -330 | 12 | 8 | | | | PTWAQ | |
| N 6076 | PLAINVIEW WD | D 8 | 1956 | 158 | UNSD | TEST | 694 | | | | | | NONE | | |
| N 6076 | PLAINVIEW WD | D 8 | 1957 | 158 | P.S. | WTDR | 358 | -138 TO -200 | 62 | 20 | 73 | 02-11-57 | TURB | MAGOTHY | 41 |
| N 6077 | PLAINVIEW WD | D 8 | 1956 | 158 | UNSD | TEST | 692 | | | | | | NONE | | |
| N 6077 | PLAINVIEW WD | D 8 | 1957 | 158 | P.S. | WTDR | 465 | -240 TO -302 | 62 | 20 | 75 | 03-06-57 | TURB | MAGOTHY | 45 |
| N 6092 | JERICHO WD | D 8 | 1958 | 241 | P.S. | WTDR | 637 | -320 TO -390 | 70 | 18 | 184 | 06-25-57 | TURB | MAGOTHY | 52 |
| N 6093 | JERICHO WD | D 8 | 1957 | 259 | P.S. | WTDR | 612 | -287 TO -347 | 60 | 18 | 171 | 09-09-57 | TURB | MAGOTHY | 54 |
| N 6190 | HICKSVILLE WD | D 7 | 1957 | 177 | UNSD | TEST | 642 | | | | | | NONE | | |
| N 6190 | HICKSVILLE WD | D 7 | 1958 | 177 | P.S. | WTDR | 605 | -373 TO -423 | 50 | 20 | 94 | 08-22-57 | TURB | MAGOTHY | 41 |
| N 6191 | HICKSVILLE WD | D 7 | 1957 | 176 | UNSD | TEST | 676 | | | | | | NONE | | |
| N 6191 | HICKSVILLE WD | D 7 | 1958 | 176 | P.S. | WTDR | 555 | -313 TO -374 | 61 | 20 | 93.5 | 06-26-57 | TURB | MAGOTHY | 37 |
| N 6289 | PIPING ROCK CL | E 6 | 1957 | 162 | UNSD | TEST | 385 | | | | | | NONE | | |
| N 6289 | PIPING ROCK CL | E 6 | 1957 | 162 | IRR | WTDR | 219 | 40 TO -57 | 37 | 12 | 71 | 09-19-57 | TURB | UPGLAC | 19 |
| N 6294 | U.S. GEOL SURV | E 7 | 1957 | 93 | UNSD | DEST | 28 | | | 1.25 | 22.81 | 06-17-57 | TURB | UPGLAC | |
| N 6294 | U.S. GEOL SURV | E 7 | 1966 | 93 | UNSD | | 37 | | | 1.25 | | | NONE | UPGLAC | |
| N 6416 | ZARA ASPHALT CO | E 6 | 1958 | 15 | UNSD | TEST | 295 | | | | | | NONE | | |
| N 6416 | ZARA ASPHALT CO | E 6 | 1958 | 15 | UNSD | UNSD | 107 | -83 TO -92 | 9 | 6 | 6.5 | 06-06-58 | TURB | UPGLAC | 1 |
| N 6435 | LAVISTA | E 7 | 1958 | 58 | DOM | WTDR | 438 | -360 TO -380 | 15 | 6 | 38.5 | 06-00-58 | SUBM | LLOYD | |
| N 6444 | BROOKVILLE CC | E 6 | 1958 | 170 | IRR | WTDR | 257 | -51 TO -87 | 36 | 12 | 75 | 06-30-58 | TURB | MAGOTHY | 37 |
| N 6531 | RIVERSIDE PLAS. | D 7 | 1959 | 178 | UNSD | DEST | 119 | 64 TO 59 | 5 | 6 | 89 | 09-25-58 | NONE | UPGLAC | 8 |
| N 6531 | METCO INC | D 7 | 1966 | 178 | IRR | WTDR | 174 | 17 TO 5 | 12 | 6 | 102 | 05-05-66 | SUBM | UPGLAC | 10 |
| N 6549 | POWERS CHEMCO | E 6 | 1958 | 32 | IND | RECH | 425 | -292 TO -393 | 60 | 8 | 20 | 08-13-58 | NONE | LLOYD | 14 |
| N 6579 | GLEN COMPONENTS | E 6 | 1958 | 57 | | WTDR | 146 | -73 TO -89 | 16 | 4 | | | TURB | UPGLAC | |
| N 6580 | PLAINVIEW WD | D 8 | 1958 | 158 | UNSD | TEST | 702 | | | | 75 | 08-13-58 | TURB | | |
| N 6580 | PLAINVIEW WD | D 8 | 1958 | 158 | P.S. | WTDR | 601 | -365 TO -438 | 63 | 20 | 75 | 08-13-58 | TURB | MAGOTHY | 54 |
| N 6587 | ZARA ASPHALT | E 6 | 1958 | 15 | UNSD | UNSD | 56 | -25 TO -41 | 16 | 6 | 7 | 06-06-58 | TURB | UPGLAC | |
| N 6651 | JERICHO WD | D 7 | 1960 | 232 | P.S. | WTDR | 615 | -328 TO -378 | 50 | 18 | 133.7 | 05-17-60 | TURB | MAGOTHY | 27 |
| N 6655 | METCO INC | D 7 | 1959 | 122 | UNSD | UNSD | 236 | -74 TO -114 | 40 | 8 | 47 | 04-24-59 | NONE | MAGOTHY | 15 |
| N 6665 | U.S. GEOL SURV | D 6 | 1959 | 97 | UNSD | | 29 | 70 TO 68 | 2 | 1.25 | | | NONE | UPGLAC | |
| N 6666 | U.S. GEOL SURV | D 6 | 1959 | 97 | UNSD | | 12 | | | 1.25 | | | NONE | UPGLAC | |
| N 6667 | U.S. GEOL SURV | D 6 | 1959 | 94 | UNSD | | 43 | 53 TO 51 | 2 | 1.25 | | | NONE | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 6668 | U.S. GEOL SURV | E 6 | 1959 | 103 | UNSD | OBS | 43 | | | 1.25 | | | NONE | UPGLAC | |
| N 6669 | U.S. GEOL SURV | E 6 | 1959 | 89 | UNSD | OBS | 44 | | | 1.25 | | | NONE | UPGLAC | |
| N 6670 | U.S. GEOL SURV | E 6 | 1959 | 81 | UNSD | OBS | 13 | | | 1.25 | | | NONE | UPGLAC | |
| N 6675 | PAR ARNEBERG | E 7 | 1959 | 7 | DOM | WTDR | 460 | -448 TO -453 | 5 | | | | SUBM | LLOYD | |
| N 6708 | ZARA ASPHALT CO | E 6 | 1959 | 13 | UNSD | OBS | 50 | -33 TO -37 | 4 | 4 | 5.5 | 06-00-59 | NONE | UPGLAC | |
| N 6741 | CERRO WIRE | D 7 | 1959 | 181 | IND | WTDR | 423 | -192 TO -242 | 50 | 18 | 102 | 09-04-59 | TURB | MAGOTHY | 35 |
| N 6768 | L.I. STATE PARK | E 7 | 1914 | 208 | INST | WTDR | 175 | 45 TO 33 | 12 | 8 | | | | MAGOTHY | |
| N 6806 | CEDAR BROOK CC | E 6 | 1960 | 154 | IRR | WTDR | 323 | -133 TO -163 | 30 | 12 | 86 | 02-18-60 | TURB | MAGOTHY | 33 |
| N 6860 | GENERAL INST. | D 7 | 1960 | 138 | UNSD | DEST | 96 | 52 TO 42 | 10 | 8 | 57 | 04-04-60 | NONE | UPGLAC | 10 |
| N 6876 | U.S. GEOL SURV | E 8 | 1960 | 146 | UNSD | TEST | 113 | | | | | | NONE | | |
| N 6877 | U.S. GEOL SURV | E 7 | 1960 | 130 | UNSD | TEST | 133 | | | | | | NONE | | |
| N 6878 | U.S. GEOL SURV | E 7 | 1960 | 35 | UNSD | | 23 | 15 TO 12 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6879 | U.S. GEOL SURV | E 7 | | 131 | UNSD | OBS | 131 | 2 TO 0 | 2 | 1.25 | | | NONE | MAGOTHY | |
| N 6880 | U.S. GEOL SURV | E 7 | 1960 | 115 | UNSD | TEST | 133 | | | | | | NONE | | |
| N 6881 | U.S. GEOL SURV | D 6 | | 94 | UNSD | | 75 | 22 TO 19 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6882 | U.S. GEOL SURV | D 6 | 1960 | 140 | UNSD | | 77 | 66 TO 63 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6883 | U.S. GEOL SURV | D 6 | 1960 | 118 | UNSD | | 82 | 39 TO 36 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6884 | U.S. GEOL SURV | E 7 | 1960 | 191 | UNSD | | 108 | 86 TO 83 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6885 | U.S. GEOL SURV | E 7 | 1960 | 165 | UNSD | | 114 | 54 TO 51 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6886 | U.S. GEOL SURV | E 7 | 1960 | 164 | UNSD | | 98 | 69 TO 66 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6887 | U.S. GEOL SURV | E 8 | 1960 | 160 | UNSD | | 90 | 73 TO 70 | 3 | 1.25 | | | NONE | UPGLAC | |
| N 6888 | U.S. GEOL SURV | E 8 | 1960 | 86 | UNSD | | 56 | 33 TO 30 | 3 | 1.25 | | | NONE | MAGOTHY | |
| N 6889 | U.S. GEOL SURV | D 8 | 1960 | 290 | UNSD | TEST | 135 | | | | | | NONE | | |
| N 6973 | NASSAU CO DPW | D 7 | 1960 | 48 | UNSD | DEST | 34 | 17 TO 14 | 3 | 1.25 | 8.23 | 08-02-60 | NONE | UPGLAC | |
| N 7030 | JERICHO WD | D 7 | 1962 | 158 | P.S. | WTDR | 531 | -322 TO -372 | 50 | 20 | 75 | 04-23-62 | TURB | MAGOTHY | 10 |
| N 7034 | WOODCREST CLUB | D 7 | 1961 | 219 | IRR | WTDR | 232 | 18 TO -13 | 31 | 12 | 145 | 03-16-61 | TURB | UPGLAC | 42 |
| N 7045 | ST.UNIV.AT O.W. | D 7 | 1961 | 241 | UNSD | UNSD | 151 | 105 TO 90 | 15 | 8 | 143 | 05-21-61 | TURB | MAGOTHY | |
| N 7047 | L.I. STATE PARK | E 7 | 1962 | 223 | INST | WTDR | 264 | 11 TO -41 | 52 | 12 | 169 | 06-09-61 | SUBM | MAGOTHY | 39 |
| N 7066 | MEYER GOLDSTEIN | E 7 | 1961 | 9 | UNSD | UNSD | 89 | -65 TO -80 | 15 | 6 | 2 | 05-15-61 | SUBM | PTWCU | 7 |
| N 7115 | MUTTONTOWN CC | E 7 | 1961 | 205 | IRR | WTDR | 274 | -29 TO -69 | 40 | 12 | | | TURB | MAGOTHY | |
| N 7152 | U.S. GEOL SURV | E 7 | 1961 | 14 | UNSD | OBS | 370 | -346 TO -356 | 10 | 6 | 6 | 08-17-61 | NONE | LLOYD | |
| N 7190 | U.S. GEOL SURV | E 7 | 1961 | 14 | UNSD | OBS | 240 | -223 TO -226 | 3 | 2 | 8.24 | 09-07-61 | NONE | PTWAQ | |
| N 7191 | U.S. GEOL SURV | E 7 | 1961 | 14 | UNSD | OBS | 142 | -125 TO -128 | 3 | 2 | 3.94 | 09-07-61 | NONE | PTWCU | |
| N 7192 | U.S. GEOL SURV | E 7 | 1961 | 14 | UNSD | OBS | 40 | -23 TO -26 | 3 | 2 | 14.31 | 09-07-61 | NONE | UPGLAC | |
| N 7193 | U.S. GEOL SURV | E 7 | 1961 | 14 | UNSD | UNSD | 18 | -1 TO -4 | 3 | 1.25 | 10.88 | 09-07-61 | NONE | UPGLAC | |
| N 7277 | CERTIFIED IND | E 7 | 1962 | 77 | UNSD | UNSD | 235 | -122 TO -157 | 35 | 12 | | | NONE | UPGLAC | |
| N 7419 | OYSTER BAY | D 8 | 1963 | 243 | UNSD | UNSD | 325 | -57 TO -82 | 25 | 10 | 173 | 08-14-63 | SUBM | MAGOTHY | 9 |
| N 7420 | AM.PHYSICS INST | D 8 | 1963 | 283 | COM | WTDR | 265 | 33 TO 18 | 15 | 6 | 211 | 10-09-63 | SUBM | MAGOTHY | 4 |
| N 7427 | PHOTOCIRCUITS | E 6 | 1963 | 58 | IND | WTDR | 161 | -62 TO -103 | 41 | 12 | 3 | 05-13-63 | TURB | UPGLAC | 57 |
| N 7439 | GLEN COVE | E 6 | 1963 | 22 | | WTDR | 212 | -182 TO -188 | 6 | 4 | | | SUBM | LLOYD | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 7446 | JERICHO WD | D 7 | 1964 | 222 | P.S. | WTDR | 498 | -221 TO -271 | 50 | 20 | 146 | 05-26-64 | TURB | MAGOTHY | 30 |
| N 7450 | NASSAU CO DPW | D 6 | 1975 | 176 | UNSD | OBS | 134 | 47 TO 42 | 5 | 4 | | | NONE | MAGOTHY | |
| N 7478 | NASSAU CO DPW | D 7 | 1963 | 217 | UNSD | OBS | 165 | | | 4 | 131.40 | 07-18-63 | NONE | MAGOTHY | |
| N 7510 | F.F.PASSARELLA | E 7 | 1964 | 19 | DOM | WTDR | 329 | -302 TO -310 | 8 | 8 | 12 | 04-21-64 | SUBM | LLOYD | 2 |
| N 7526 | PLAINVIEW WD | D 8 | 1964 | 228 | P.S. | WTDR | 691 | -342 TO -460 | 73 | 20 | 140 | 08-03-64 | SUBM | MAGOTHY | 43 |
| N 7546 | NASSAU CO DPW | E 7 | 1964 | 11 | UNSD | OBS | 364 | -348 TO -353 | 5 | 4 | | | NONE | LLOYD | |
| N 7547 | NASSAU CO DPW | E 6 | 1966 | 9 | UNSD | TEST | 322 | | | 6 | | | NONE | | |
| N 7549 | OLD WESTBURY | D 6 | 1965 | 198 | P.S. | WTDR | 504 | -251 TO -301 | 50 | 20 | 126 | 06-03-65 | TURB | MAGOTHY | 22 |
| N 7562 | HICKSVILLE WD | D 7 | 1964 | 163 | P.S. | WTDR | 550 | | | 20 | 80 | 06-01-64 | TURB | MAGOTHY | 28 |
| N 7570 | BAYVILLE | E 7 | 1964 | 125 | UNSD | TEST | 522 | | | | | | NONE | | |
| N 7593 | JERICHO WD | E 8 | 1965 | 253 | P.S. | WTDR | 473 | -155 TO -215 | 60 | 20 | 205 | 05-24-65 | TURB | MAGOTHY | 40 |
| N 7614 | POWERS CHEMCO | E 6 | 1964 | 32 | IND | WTDR | 393 | -319 TO -360 | 41 | 10 | 32 | 08-28-64 | TURB | LLOYD | 9 |
| N 7620 | BAYVILLE | E 7 | 1964 | 125 | P.S. | WTDR | 480 | -287 TO -355 | 68 | 16 | 113.36 | 09-09-64 | TURB | LLOYD | 19 |
| N 7643 | BAYVILLE | E 7 | 1964 | 125 | P.S. | WTDR | 218 | -34 TO -93 | 59 | 20 | 121.6 | 09-18-64 | TURB | UPGLAC | 169 |
| N 7644 | J.D.MOONEY | E 7 | 1964 | 19 | DOM | WTDR | 320 | -286 TO -301 | 15 | 4 | 13 | 09-04-64 | SUBM | LLOYD | 5 |
| N 7664 | ENGINEERS CC | D 6 | 1965 | 53 | IRR | WTDR | 85 | -5 TO -26 | 21 | 12 | | | TURB | UPGLAC | 22 |
| N 7665 | LOCUST VLY WD | E 6 | 1966 | 218 | P.S. | WTDR | 375 | -102 TO -152 | 50 | 20 | 172 | 12-11-65 | TURB | UPGLAC | 30 |
| N 7672 | NASSAU CO DPW | D 7 | 1964 | 177 | UNSD | OBS | 159 | 20 TO 18 | 2 | 2 | 90.00 | 11-02-64 | NONE | MAGOTHY | |
| N 7719 | BAYVILLE | E 7 | 1964 | 20 | UNSD | OBS | 400 | -378 TO -380 | 2 | 4 | | | NONE | BEDROCK | |
| N 7745 | W.J.LEVITT | E 7 | 1965 | 150 | DOM | WTDR | 215 | -40 TO -65 | 25 | 16 | 105 | 02-24-65 | TURB | PTWCU | 6 |
| N 7772 | JERICHO WD | E 7 | 1966 | 258 | P.S. | WTDR | 568 | -245 TO -305 | 60 | 20 | 194 | 05-19-66 | TURB | MAGOTHY | 23 |
| N 7773 | JERICHO WD | E 7 | 1966 | 230 | P.S. | WTDR | 565 | -270 TO -330 | 60 | 20 | 188 | 05-24-66 | TURB | MAGOTHY | 30 |
| N 7781 | JERICHO WD | D 7 | 1965 | 217 | P.S. | WTDR | 459 | -177 TO -237 | 60 | 20 | 140 | 06-29-65 | TURB | MAGOTHY | 42 |
| N 7782 | ST. PATRICKS | E 6 | 1965 | 95 | ARCD | WTDR | 226 | -105 TO -131 | 26 | 8 | 40.2 | 03-14-65 | TURB | MAGOTHY | |
| N 7830 | MILL RIVER CLUB | E 7 | 1965 | 118 | IRR | WTDR | 197 | -48 TO -79 | 31 | 12 | 67 | 05-05-65 | TURB | MAGOTHY | 33 |
| N 7834 | GLEN HEAD CC | E 6 | 1965 | 150 | IRR | WTDR | 202 | -21 TO -52 | 31 | 12 | 116 | 05-25-65 | TURB | UPGLAC | 27 |
| N 7857 | SEA CLIFF WATER | E 6 | 1966 | 195 | P.S. | WTDR | 614 | -365 TO -419 | 54 | 20 | 195 | 05-10-66 | SUBM | LLOYD | 13 |
| N 7858 | TAM OSHANTER CC | D 7 | 1966 | 218 | IRR | WTDR | 375 | -92 TO -142 | 50 | 16 | 140 | 03-01-66 | TURB | MAGOTHY | 80 |
| N 8043 | JERICHO WD | D 8 | 1966 | 222 | P.S. | WTDR | 688 | -293 TO -466 | 173 | 20 | 153 | 06-10-66 | TURB | MAGOTHY | 48 |
| N 8048 | POWERS CHEMCO | E 6 | 1966 | 60 | | RECH | 370 | -266 TO -310 | 44 | 12 | | | NONE | LLOYD | |
| N 8123 | WINSTON GUEST | E 7 | 1966 | 263 | OTHR | WTDR | 326 | -56 TO -63 | 7 | 6 | 215 | 09-00-66 | SUBM | MAGOTHY | |
| N 8183 | OYSTER BAY WD | E 7 | 1966 | 90 | UNSD | TEST | 487 | | | | | | NONE | | |
| N 8183 | OYSTER BAY WD | E 7 | 1968 | 90 | P.S. | WTDR | 230 | -91 TO -140 | 49 | 16 | 54.5 | 11-17-67 | TURB | UPGLAC | 30 |
| N 8224 | PHOTOCIRUITS | E 6 | 1970 | 58 | IND | WTDR | 155 | -46 TO -97 | 51 | 12 | 11.5 | 01-29-70 | TURB | UPGLAC | 254 |
| N 8249 | HICKSVILLE WD | D 7 | 1967 | 163 | P.S. | WTDR | 495 | -237 TO -327 | 90 | 20 | 89 | 02-25-67 | SUBM | MAGOTHY | 71 |
| N 8259 | NASSAU CO DPW | E 6 | 1967 | 70 | UNSD | OBS | 42 | 30 TO 28 | 2 | 1.25 | 35.50 | 01-17-67 | NONE | UPGLAC | |
| N 8326 | GLEN COVE | E 6 | 1967 | 53 | UNSD | TEST | 507 | | | | | | NONE | | |
| N 8326 | GLEN COVE | E 6 | 1965 | 53 | P.S. | WTDR | 168 | -67 TO -112 | 45 | 20 | 6.5 | 07-26-67 | SUBM | UPGLAC | 33 |
| N 8327 | GLEN COVE | E 6 | 1967 | 53 | UNSD | TEST | 362 | | | | | | NONE | | |
| N 8327 | GLEN COVE | E 6 | 1965 | 53 | P.S. | WTDR | 168 | -65 TO -115 | 50 | 20 | 13.5 | 09-06-67 | SUBM | UPGLAC | 41 |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 8355 | JERICHO WD | D 7 | 1969 | 258 | P.S. | WTDR | 595 | -272 TO -332 | 60 | 20 | 194 | 04-25-69 | TURB | MAGOTHY | 42 |
| N 8394 | GLEN COVE HOSP. | E 6 | 1969 | 138 | | RECH | 580 | -379 TO -442 | 63 | 8 | | | NONE | LLOYD | |
| N 8426 | MILL NECK ESTS. | E 7 | 1968 | 10 | P.S. | WTDR | 360 | -335 TO -350 | 15 | 8 | FLOWING | 05-20-68 | SUBM | PTWAQ | 3 |
| N 8430 | NASSAU CO DPW | E 7 | 1968 | 190 | UNSD | OBS | 145 | 50 TO 45 | 5 | 4 | 133.17 | 04-10-68 | NONE | MAGOTHY | |
| N 8432 | C.W.POST COLL. | D 6 | 1968 | 165 | IRR | WTDR | 250 | -55 TO -85 | 30 | 10 | 107 | 05-07-68 | SUBM | MAGOTHY | 26 |
| N 8492 | MRS.G.PELLICORO | D 7 | 1969 | 178 | DOM | WTDR | 150 | 34 TO 29 | 5 | 6 | | | SUBM | UPGLAC | |
| N 8493 | J.GIANETTO | D 7 | 1968 | 175 | DOM | WTDR | 255 | -75 TO -80 | 5 | 6 | | | SUBM | MAGOTHY | |
| N 8542 | MUTTONTOWN CC | E 7 | 1969 | 175 | IRR | WTDR | 335 | -119 TO -160 | 41 | 12 | 116 | 04-30-69 | SUBM | UPGLAC | 24 |
| N 8583 | NASSAU CO DPW | D 8 | 1969 | 194 | UNSD | | 177 | 22 TO 17 | 5 | 4 | | | NONE | MAGOTHY | |
| N 8597 | G.VAN AKEN | E 8 | 1969 | 100 | DOM | WTDR | 228 | -116 TO -126 | 10 | 6 | | | SUBM | UPGLAC | |
| N 8606 | NASSAU CO DPW | D 8 | 1969 | 197 | UNSD | | 80 | 121 TO 117 | 4 | 2 | 71.60 | 08-20-69 | NONE | UPGLAC | |
| N 8610 | NASSAU CO DPW | E 6 | 1969 | 8 | UNSD | OBS | 22 | -12 TO -14 | 2 | 1.25 | 8.27 | 08-06-69 | NONE | UPGLAC | |
| N 8642 | GLEN OAKES CC | D 7 | 1970 | 243 | IRR | WTDR | 400 | -126 TO -157 | 31 | 12 | 185 | 05-14-70 | SUBM | MAGOTHY | 27 |
| N 8658 | OLD WESTBURY | D 7 | 1970 | 325 | UNSD | TEST | 670 | | | | | | NONE | | |
| N 8658 | OLD WESTBURY | D 7 | 1972 | 320 | P.S. | WTDR | 615 | -230 TO -290 | 60 | 20 | 248.4 | 03-30-72 | TURB | MAGOTHY | 49 |
| N 8681 | FOX RUN CC | E 7 | 1970 | 200 | IRR | WTDR | 370 | -117 TO -169 | 52 | 12 | 133 | 08-12-70 | | MAGOTHY | 32 |
| N 8690 | FABRIC LEATHER | E 6 | 1970 | 25 | | WTDR | 347 | -292 TO -317 | 25 | 8 | | | | LLOYD | |
| N 8709 | FABRIC LEATHER | E 6 | 1970 | 22 | IND | RECH | 312 | -218 TO -290 | 72 | 6 | 8 | 10-07-70 | NONE | LLOYD | |
| N 8713 | JERICHO WD | D 6 | 1970 | 168 | UNSD | TEST | 412 | | | | | | NONE | | |
| N 8713 | JERICHO WD | D 6 | 1972 | 168 | P.S. | WTDR | 377 | -144 TO -204 | 60 | 20 | 113.1 | 03-23-72 | TURB | MAGOTHY | 51 |
| N 8716 | NASSAU CO DPW | E 6 | 1970 | 47 | UNSD | OBS | 25 | | | 1.25 | 7.60 | 09-29-70 | NONE | UPGLAC | |
| N 8776 | BAYVILLE | E 7 | 1972 | 98 | P.S. | WTDR | 459 | -301 TO -361 | 60 | 20 | 106.3 | 06-24-71 | TURB | LLOYD | 29 |
| N 8805 | G.E.RODUIT | E 7 | 1971 | 63 | DOM | WTDR | 457 | -384 TO -394 | 10 | 5 | 53.5 | 09-10-71 | SUBM | LLOYD | 6 |
| N 8807 | CERTIFIED IND | D 7 | 1971 | 118 | IND | WTDR | 140 | 9 TO -22 | 31 | 8 | 17 | 10-25-71 | TURB | MAGOTHY | 9 |
| N 8880 | METCO INC | D 7 | 1972 | 122 | IND | WTDR | 247 | -99 TO -125 | 26 | 8 | 51 | 10-03-72 | SUBM | MAGOTHY | 19 |
| N 8887 | SLATER ELECTRIC | E 6 | 1972 | 65 | IND | WTDR | 130 | -40 TO -65 | 25 | 8 | 12 | 10-17-72 | SUBM | UPGLAC | 6 |
| N 8888 | NASSAU CO DPW | D 7 | 1972 | 174 | UNSD | OBS | 111 | 68 TO 63 | 5 | 4 | 91.38 | 10-25-72 | NONE | UPGLAC | |
| N 8898 | L.I.LIGHTING CO | D 6 | 1973 | 18 | UNSD | TEST | 223 | | | | | | NONE | | |
| N 8928 | NASSAU CO DPW | E 7 | 1973 | 10 | UNSD | OBS | 31 | -18 TO -21 | 3 | 1.25 | 8.06 | 01-18-73 | NONE | UPGLAC | |
| N 8937 | L.I.LIGHTING CO | D 6 | 1973 | 18 | COM | WTDR | 164 | -103 TO -143 | 40 | 12 | 3 | 10-10-73 | TURB | UPGLAC | 24 |
| N 8962 | MRS.S.PRATT | E 6 | 1973 | 6 | DOM | WTDR | 420 | -365 TO -414 | 41 | 4 | | | | LLOYD | |
| N 8995 | THURSTON SMITH | E 7 | 1974 | 41 | DOM | WTDR | 405 | -354 TO -364 | 10 | 6 | | | SUBM | LLOYD | |
| N 9023 | PINE HOLLOW CC | E 7 | 1974 | 219 | IRR | WTDR | 247 | 2 TO -28 | 30 | 12 | 175 | 07-09-74 | TURB | UPGLAC | 50 |
| N 9059 | NASSAU CO DPW | D 7 | 1974 | 228 | UNSD | OBS | 175 | 58 TO 53 | 5 | 4 | 117.90 | 10-31-74 | NONE | MAGOTHY | |
| N 9066 | GLEN COVE | E 6 | 1975 | 143 | UNSD | TEST | 651 | | | | | | NONE | | |
| N 9066 | GLEN COVE | E 6 | 1975 | 143 | UNSD | TEST | 460 | -277 TO -317 | 40 | | | | | LLOYD | |
| N 9066 | GLEN COVE | E 6 | 1975 | 143 | UNSD | OBS | 270 | -77 TO -127 | 50 | 12 | 92 | 09-00-75 | | MAGOTHY | |
| N 9068 | NATL. PARK SERV | E 8 | | 154 | | WTDR | 325 | | | 6 | | | | PTWCU | |
| N 9076 | NATL. PARK SERV | E 8 | 1975 | 154 | | WTDR | 199 | -35 TO -45 | 10 | 8 | | | | PTWCU | |
| N 9087 | NASSAU CO DPW | E 7 | 1975 | 157 | UNSD | OBS | 111 | 51 TO 46 | 5 | 4 | 83.60 | 08-08-75 | NONE | UPGLAC | |

TABLE 6.--WELL COMPLETION DATA ON SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NASSAU COUNTY, NEW YORK.

| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 9089 | NASSAU CO DPW | D 8 | 1975 | 173 | UNSD | OBS | 178 | 0 TO -5 | 5 | 4 | 93.20 | 11-19-75 | NONE | MAGOTHY | |
| N 9100 | NASSAU CO DPW | E 6 | 1976 | 54 | UNSD | OBS | 70 | -11 TO -16 | 5 | 4 | 13.85 | 02-27-76 | NONE | PTWCU | |
| N 9115 | NASSAU CO DPW | E 6 | 1976 | 145 | UNSD | OBS | 110 | 40 TO 35 | 5 | 4 | | | NONE | MAGOTHY | |
| N 9117 | NASSAU CO DPW | E 6 | 1976 | 112 | UNSD | OBS | 73 | 44 TO 39 | 5 | 4 | 40.73 | 04-05-76 | NONE | MAGOTHY | |
| N 9127 | NASSAU CO DPW | E 7 | 1976 | 10 | UNSD | OBS | 41 | -26 TO -31 | 5 | 4 | 6.32 | 07-09-76 | NONE | UPGLAC | |
| N 9152 | NASSAU CO DPW | E 8 | 1976 | 40 | UNSD | OBS | 58 | -13 TO -18 | 5 | 4 | | | NONE | UPGLAC | |
| N 9154 | NASSAU CO DPW | E 7 | 1976 | 34 | UNSD | OBS | 66 | -27 TO -32 | 5 | 4 | | | NONE | PTWCU | |
| N 9170 | REG.PLAN.BOARD | D 7 | 1977 | 184 | UNSD | TEST | 553 | | | | | | NONE | | |
| N 9170 | REG.PLAN.BOARD | D 7 | 1977 | 184 | UNSD | OBS | 510 | -321 TO -326 | 5 | 1.25 | 95.5 | 01-00-77 | NONE | MAGOTHY | |
| N 9189 | NASSAU CO CPW | E 7 | 1977 | 59 | UNSD | OBS | 42 | 22 TO 17 | 5 | 4 | 13.05 | 03-02-77 | NONE | UPGLAC | |
| N 9210 | GLEN COVE | E 6 | 1979 | 142 | P.S. | WTDR | 275 | -67 TO -128 | 61 | 20 | 89.2 | 08-19-77 | | MAGOTHY | |
| N 9211 | GLEN COVE | E 6 | 1979 | 142 | P.S. | WTDR | 269 | -60 TO -122 | 62 | 20 | | | TURB | MAGOTHY | 34 |
| N 9259 | HENRY R. STERN | E 7 | 1977 | 58 | IRR | UNSD | 5 10 | | 3 1 | 0 | 55.5 | 09-02-77 | SUBM | UPGLAC | 15 |
| N 9276 | D.HOLTERBOSCH | E 7 | 1978 | 10 | UNSD | TEST | 321 | | | | | | NONE | | |
| N 9300 | NASSAU CO WTR | E 7 | | 45 | UNSD | DEST | | | | | | | NONE | UPGLAC | |
| N 9301 | NASSAU CO WTR | E 7 | | 45 | UNSD | DEST | | | | | | | NONE | UPGLAC | |
| N 9302 | NASSAU CO WTR | E 7 | | 45 | UNSD | DEST | | | | | | | NONE | UPGLAC | |
| N 9303 | NASSAU CO WTR | E 7 | | 45 | UNSD | DEST | | | | | | | NONE | UPGLAC | |
| N 9314 | NASSAU CO DPW | E 7 | 1977 | 32 | UNSD | OBS | 54 | -17 TO -22 | 5 | 4 | | | NONE | PTWCU | |
| N 9315 | NASSAU CO DPW | E 6 | 1977 | 9 | UNSD | OBS | 41 | -27 TO -32 | 5 | 4 | 3.40 | 05-04-77 | NONE | UPGLAC | |
| N 9316 | NASSAU CO DPW | E 7 | 1977 | 25 | UNSD | OBS | 58 | -28 TO -33 | 5 | 4 | 21.36 | 07-13-77 | NONE | UPGLAC | |
| N 9317 | NASSAU CO DPW | D 7 | 1977 | 218 | UNSD | OBS | 194 | 29 TO 24 | 5 | 4 | | | NONE | MAGOTHY | |
| N 9334 | GLEN COVE | E 6 | 1978 | 143 | UNSD | TEST | 631 | | | | | | NONE | | |
| N 9334 | GLEN COVE | E 6 | 1978 | 143 | UNSD | TEST | 603 | -417 TO -460 | 43 | | | | TURB | LLOYD | |
| N 9334 | GLEN COVE | E 6 | | 143 | P.S. | WTDR | | | | | | | | MAGOTHY | |
| N 9353 | NASSAU CO DPW | D 7 | 1978 | 143 | UNSD | OBS | 101 | 47 TO 42 | 5 | 4 | 57.82 | 05-11-78 | NONE | MAGOTHY | |
| N 9455 | REG.PLAN.BOARD | D 7 | 1977 | 184 | UNSD | OBS | 195 | -6 TO -11 | 5 | 1.25 | 95.5 | 01-00-77 | NONE | UPGLAC | |
| N 9456 | REG.PLAN.BOARD | D 7 | 1977 | 184 | UNSD | OBS | 361 | -172 TO -177 | 5 | 1.25 | 95.5 | 01-00-77 | NONE | MAGOTHY | |
| N 9463 | HICKSVILLE WD | D 7 | 1979 | 141 | P.S. | WTDR | 638 | -419 TO -497 | 70 | 20 | | | | MAGOTHY | 14 |
| N 9464 | MARVIN SCHUR | E 7 | 1979 | 22 | DOM | WTDR | 330 | -298 TO -308 | 10 | 4 | 20 | 03-00-79 | SUBM | LLOYD | |
| N 9478 | NASSAU CO DPW | E 6 | 1978 | 9 | UNSD | OBS | 24 | -10 TO -15 | 5 | 2 | 3.47 | 11-13-78 | NONE | UPGLAC | |
| N 9488 | HICKSVILLE WD | D 7 | 1979 | 161 | UNSD | TEST | 638 | | | | | | NONE | | |
| N 9488 | HICKSVILLE WD | D 7 | 1979 | 161 | P.S. | WTDR | 583 | | 60 | 20 | | | | MAGOTHY | 21 |
| N 9489 | S.L.LANG | D 7 | 1979 | 225 | DOM | WTDR | 198 | 32 TO 27 | 5 | 6 | 150 | 04-00-79 | SUBM | MAGOTHY | |
| N 9520 | OYSTER BAY WD | E 7 | 1979 | 90 | UNSD | TEST | 556 | | | | | | NONE | | |
| N 9520 | OYSTER BAY WD | E 7 | | 90 | P.S. | WTDR | | -361 TO -422 | 61 | | | | | PTWAQ | |
| N 9593 | H.D.KOHLER | E 7 | 1979 | 5 | DOM | WTDR | 370 | -353 TO -365 | 12 | 6 | | | | LLOYD | |
| N 9595 | F.H.GILLMORE | E 7 | 1980 | 20 | DOM | WTDR | 467 | -416 TO -447 | 31 | 6 | +3 | 09-15-80 | CENT | LLOYD | |
| N 9606 | MICHAEL HURLEY | E 8 | | 121 | UNSD | TEST | 203 | | | | | | NONE | | |
| N 9606 | MICHAEL HURLEY | E 8 | 1980 | 121 | DOM | WTDR | 134 | -8 TO -13 | 5 | 4 | 106 | 12-00-79 | SUBM | UPGLAC | |

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| WELL NUMBER | OWNER OR WELL USER | MAP COORD. | YEAR COMP-LETED | ALTITUDE OF LSD (FT ABOVE SEA LEVEL) | USE OF WATER | USE OF WELL | DEPTH OF WELL (FT) | SCREEN SETTING (FT ABOVE OR BELOW (-) SEA LEVEL | TOTAL SCREEN LENGTH (FT) | DIAM OF WELL (IN) | WATER LEVEL (FT BELOW LSD) | DATE OF MEAS. (M-D-Y) | LIFT TYPE | AQUIFER DEVEL-OPED | SPECIFIC CAPACITY [(GAL/MIN)/FT] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N 9616 | LEROY CLOSE | E 7 | 1980 | 163 | IRR | WTDR | 193 | -20 TO -30 | 10 | 6 | 132 | 01-22-80 | SUBM | UPGLAC | 1 |
| N 9695 | U.S. GEOL SURV | D 8 | 1980 | 194 | UNSD | OBS | 92 | 113 TO 102 | 11 | 4 | 73.5 | 05-30-80 | NONE | UPGLAC | |
| N 9696 | U.S. GEOL SURV | D 8 | 1980 | 194 | UNSD | OBS | 88 | 126 TO 110 | 16 | 4 | 73.5 | 06-04-80 | NONE | UPGLAC | |
| N 9697 | U.S. GEOL SURV | D 8 | 1980 | 180 | UNSD | OBS | 129 | 62 TO 57 | 5 | 4 | 57 | 05-07-80 | NONE | MAGOTHY | |
| N 9698 | U.S. GEOL SURV | D 8 | 1980 | 181 | UNSD | OBS | 78 | 128 TO 107 | 21 | 4 | 57 | 05-12-80 | NONE | UPGLAC | |
| N 9699 | U.S. GEOL SURV | E 8 | 1980 | 67 | UNSD | OBS | 47 | 28 TO 23 | 5 | 4 | 19.1 | 05-15-80 | NONE | UPGLAC | |
| N 9700 | U.S. GEOL SURV | E 8 | 1980 | 70 | UNSD | OBS | 31 | 58 TO 42 | 16 | 4 | | | NONE | UPGLAC | |
| N 9708 | A.J.PEGNO | E 7 | 1980 | 12 | UNSD | TEST | 387 | | | | | | NONE | | |
| N 9708 | A.J.PEGNO | E 7 | 1980 | 12 | DOM | WTDR | 334 | -312 TO -322 | 10 | 6 | 12 | 07-22-80 | | LLOYD | 10 |

## TABLE 7

*Geohydrologic correlations of selected wells and test holes in northern part of Town of Oyster Bay, Nassau County, New York.*

### EXPLANATION OF DATA AND ABBREVIATIONS

#### Well number

Well numbers are assigned by the New York State Department of Environmental Conservation. The prefix N designates Nassau County.

#### Location of Well

Locations of wells are given by map coordinates, based on a latitude and longitude grid system, to aid the reader in locating the wells shown in plate 1. In this system, 5-minute intervals of latitude are lettered consecutively from south to north, and 5-minute intervals of longitude are numbered consecutively from west to east. The grid coordinates are shown along the margins of plate 1.

The wells are also numbered according to the national well-numbering system of the U.S. Geological Survey. This system locates wells to the nearest second of latitude and longitude and gives a sequence number to the well to denote the chronological order in which a particular well within a 1-second quadrangle was recorded. For example, in well number 4054330733446.01 (N7152), the first six numbers indicate latitude 40°54'33" north; the remaining numbers before the period indicate longitude 073°34'46". The 01 after the period is the sequence number. It was the first of five wells (N7151, and N7190 to N7193 in the 1-second quadrangle) to be defined by latitude and longitude.

#### Hydrogeologic Unit Penetrated and Altitude of Top of Unit

Altitudes of the tops of the hydrogeologic units penetrated by wells are given in feet above or below (-) sea level. These data were used to compile the maps and sections in this report. The number in the "upper glacial aquifer" column is the altitude of the land surface at the well site. Absence of an altitude figure indicates that the test hole did not penetrate the unit.

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 107 | D 6 | 4047330733524.01 | 212 | | | 153 | | | |
| N 109 | D 6 | 4049250733817.01 | 48 | | | | -272 | -374 | |
| N 110 | D 6 | 4049310733821.01 | 56 | | | | -296 | -335 | |
| N 112 | E 6 | 4051140733727.01 | 53 | | | | | | |
| N 114 | E 6 | 4052010733603.01 | 123 | | | | | | |
| N 115 | E 6 | 4052420733516.01 | 75 | -106 | -255 | | | | |
| N 116 | E 6 | 4052420733523.01 | 80 | | | | | | |
| N 117 | E 6 | 4052400733522.01 | 77 | | | | | | |
| N 118 | E 6 | 4052440733509.01 | 65 | -15 | -247 | | | -337 | -411 |
| N 119 | E 6 | 4052440733523.02 | 80 | -184 | -387 | | | -411 | -492 |
| N 120 | E 6 | 4052410733526.01 | 80 | -133 | -312 | | | -363 | -478 |
| N 121 | E 6 | 4053070733550.01 | 120 | | | | | | |
| N 121 | E 6 | 4053070733550.02 | 120 | -87 | -279 | | | | |
| N 124 | E 6 | 4053550733558.01 | 9 | | | | | | |
| N 149 | D 7 | 4046260733112.01 | 161 | | | | | | |
| N 150 | D 7 | 4046290733111.01 | 161 | | | | | | |
| N 166 | E 7 | 4051480733417.01 | 55 | | | 0 | | | |
| N 167 | E 7 | 4051480733417.02 | 55 | | | 34 | | | |
| N 173 | E 7 | 4053370733448.01 | 38 | 18 | -252 | | | -322 | |
| N 198 | D 8 | 4049170732929.01 | 240 | | | 40 | -390 | -576 | |
| N 199 | D 8 | 4049220732924.01 | 235 | | | 20 | | | |
| N 202 | E 7 | 4052310733231.01 | 18 | | | | | | |
| N 486 | E 7 | 4052300733136.01 | 3 | -117 | | | | | |
| N 511 | E 7 | 4053410733401.01 | 11 | -89 | -289 | | | | |
| N 551 | E 7 | 4053070733002.01 | 154 | | | | | | |
| N 570 | D 8 | 4049190732931.01 | 237 | | | -27 | -369 | | |
| N 576 | D 7 | 4046040734633.01 | 144 | | | 54 | | | |
| N 585 | E 7 | 4052300733231.01 | 18 | | | | | | |
| N 590 | E 8 | 4053120732946.01 | 120 | 70 | | | | | |
| N 613 | E 7 | 4051480733417.03 | 55 | | | 33 | | | |
| N 614 | E 7 | 4051480733417.04 | 55 | | | | | | |
| N 638 | D 6 | 4048110733604.01 | 295 | | | 138 | | | |
| N 660 | E 6 | 4051480733820.01 | 58 | | | | | | |
| N 661 | E 6 | 4051510733816.01 | 60 | | | | -140 | -212 | |
| N 733 | E 7 | 4052300733230.01 | 18 | | | | | | |
| N 734 | E 7 | 4052300733229.01 | 18 | | | | | | |
| N 735 | E 7 | 4052310733232.01 | 18 | | | | | | |
| N 736 | E 7 | 4052300733231.02 | 20 | | | | | | |
| N 801 | E 6 | 4051130733727.01 | 53 | | | | | | |
| N 802 | E 6 | 4051130733726.01 | 53 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 803 | E 6 | 405113073372б.02 | 53 | | | | | | |
| N 804 | E 6 | 4051120733726.01 | 53 | | | | | | |
| N 805 | E 6 | 4051120733725.01 | 53 | | | | | | |
| N 806 | E 6 | 4051130733724.01 | 53 | | | | | | |
| N 807 | E 6 | 4051130733725.01 | 53 | | | | | | |
| N 808 | E 6 | 4051140733727.02 | 53 | | | | | | |
| N 809 | E 6 | 4051150733727.01 | 53 | | | | | | |
| N 810 | E 6 | 4051150733728.01 | 53 | | | | | | |
| N 811 | E 6 | 4051140733728.01 | 53 | | | | | | |
| N 811 | E 6 | 4051140733728.02 | 53 | | | | | | |
| N 812 | E 6 | 4051140733728.03 | 53 | | | | | | |
| N 813 | E 6 | 4051130733728.01 | 53 | | | | | | |
| N 814 | E 6 | 4051170733729.01 | 53 | | | | | | |
| N 815 | E 6 | 4051160733727.01 | 53 | | | | | | |
| N 816 | E 6 | 4051160733727.02 | 53 | | | | | | |
| N 817 | E 6 | 4051160733728.01 | 53 | | | | | | |
| N 818 | E 6 | 4051150733728.02 | 53 | | | | | | |
| N 834 | E 6 | 4053460733752.01 | 10 | | | | | | |
| N 835 | E 6 | 4053460733752.01 | 10 | | | | | | |
| N 842 | E 6 | 4050320733912.01 | 8 | | | | | -336 | -433 |
| N 844 | D 7 | 4046040734633.02 | 149 | | | | | | |
| N 901 | E 6 | 4050340734012.01 | 9 | | | | | | |
| N 901 | E 6 | 4050340734012.02 | 9 | | | | | | |
| N 902 | E 6 | 4050340734012.03 | 9 | | | | | | |
| N 902 | E 6 | 4050340734012.04 | 9 | | | | | | |
| N 903 | E 6 | 4050340734012.05 | 9 | | | | | | |
| N 904 | E 6 | 4050340734012.06 | 9 | | | | | | |
| N 905 | E 6 | 4050350734010.01 | 9 | | | | | | |
| N 905 | E 6 | 4050350734010.02 | 9 | | | | | | |
| N 906 | E 6 | 4050340734012.07 | 9 | | | | | | -427 |
| N 907 | E 6 | 4050340734012.08 | 9 | | | | | | |
| N 908 | E 6 | 4050340734012.09 | 9 | | | | | | |
| N 909 | E 6 | 4050340734012.10 | 9 | | | | | | |
| N 1037 | E 6 | 4052310733634.01 | 10 | | | | | | |
| N 1149 | E 6 | 4053180733755.01 | 89 | | | | | | |
| N 1150 | E 6 | 4051590733752.01 | 53 | | | | | | |
| N 1150 | E 6 | 4051590733752.02 | 56 | | | | | | |
| N 1151 | E 6 | 4051420733756.01 | 34 | | | | | | |
| N 1151 | E 6 | 4051420733756.02 | 33 | | | | | | |
| N 1152 | E 6 | 4051040733752.01 | 154 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 1152 | E 6 | 4051040733752.02 | 154 | | | | | | |
| N 1153 | E 6 | 4050070733731.01 | 122 | | | | | | |
| N 1170 | E 6 | 4053580733645.01 | 10 | | | | | | |
| N 1170 | E 6 | 4053580733645.02 | 10 | | | | | | |
| N 1171 | E 6 | 4053200733629.01 | 68 | | | | | | |
| N 1171 | E 6 | 4053180733634.01 | 83 | | | | | | |
| N 1172 | E 6 | 4052290733628.01 | 144 | | | | | | |
| N 1173 | E 6 | 4051130733614.01 | 145 | | | | | | |
| N 1174 | E 6 | 4050130733556.01 | 113 | | | | | | |
| N 1175 | D 6 | 4049020733539.01 | 177 | | | 97 | | | |
| N 1176 | D 6 | 4047360733531.01 | 195 | | | 163 | | | |
| N 1187 | E 7 | 4054280733451.01 | 6 | | | | | | |
| N 1188 | E 7 | 4053500733453.01 | 37 | | | | | | |
| N 1188 | E 7 | 4053510733458.01 | 35 | | | | | | |
| N 1189 | E 7 | 4053460733433.01 | 67 | | | | | | |
| N 1190 | E 7 | 4051320733407.01 | 128 | | | 35 | | | |
| N 1191 | E 7 | 4050190733355.01 | 154 | | | | | | |
| N 1192 | D 7 | 4049330733346.01 | 143 | | | | | | |
| N 1193 | D 7 | 4048320733332.01 | 231 | | | | | | |
| N 1194 | D 7 | 4047020733311.01 | 174 | | | | | | |
| N 1194 | D 7 | 4046590733326.01 | 168 | | | | | | |
| N 1195 | D 7 | 4046090733303.01 | 147 | | | 90 | | | |
| N 1195 | D 7 | 4046140733305.01 | 148 | | | | | | |
| N 1195 | D 7 | 4046140733305.02 | 148 | | | | | | |
| N 1195 | D 7 | 4046140733305.03 | 148 | | | | | | |
| N 1195 | D 7 | 4046140733305.04 | 148 | | | | | | |
| N 1206 | E 7 | 4054220733259.01 | 9 | | | | | | |
| N 1207 | E 7 | 4052280733229.01 | 23 | | | | | | |
| N 1208 | E 7 | 4051410733207.01 | 59 | | | | | | |
| N 1208 | E 7 | 4051470733202.01 | 59 | | | | | | |
| N 1208 | E 7 | 4051470733202.02 | 58 | | | | | | |
| N 1209 | E 7 | 4051090733207.01 | 126 | | | -3 | | | |
| N 1209 | E 7 | 4051090733207.02 | 126 | | | | | | |
| N 1209 | E 7 | 4051090733207.03 | 126 | | | | | | |
| N 1209 | E 7 | 4051090733207.04 | 126 | | | | | | |
| N 1209 | E 7 | 4051010733200.01 | 122 | | | | | | |
| N 1210 | E 7 | 4050230733155.01 | 188 | | | | | | |
| N 1210 | E 7 | 4050230733155.02 | 188 | | | 90 | | | |
| N 1210 | E 7 | 4050230733155.03 | 187 | | | | | | |
| N 1211 | D 7 | 4049280733138.01 | 217 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 1212 | D 7 | 4048400733119.01 | 227 | | | | | | |
| N 1212 | D 7 | 4048400733119.02 | 227 | | | 104 | | | |
| N 1213 | D 7 | 4047030733056.01 | 175 | | | | | | |
| N 1214 | D 7 | 4046010733035.01 | 149 | | | | | | |
| N 1214 | D 7 | 4046010733035.02 | 149 | | | | | | |
| N 1214 | D 7 | 4046000733034.01 | 148 | | | | | | |
| N 1224 | F 7 | 4053260733021.01 | 25 | | | | | | |
| N 1225 | E 7 | 4052200733010.01 | 8 | | | | | | |
| N 1226 | E 7 | 4051580733000.01 | 34 | | | | | | |
| N 1227 | E 8 | 4050550732950.01 | 172 | | | 132 | | | |
| N 1228 | D 8 | 4049540732939.01 | 224 | | | 38 | | | |
| N 1228 | D 8 | 4049540732939.02 | 224 | | | | | | |
| N 1228 | D 8 | 4050000732933.01 | 227 | | | | | | |
| N 1229 | D 8 | 4048460732910.01 | 251 | | | 93 | | | |
| N 1230 | D 8 | 4047190732857.01 | 174 | | | | | | |
| N 1231 | D 8 | 4046280732840.01 | 143 | | | 85 | | | |
| N 1231 | D 8 | 4046290732837.01 | 139 | | | | | | |
| N 1242 | E 8 | 4051260732756.01 | 41 | | | | | | |
| N 1242 | E 8 | 4051260732756.02 | 41 | | | | | | |
| N 1243 | E 8 | 4050260732725.01 | 65 | | | | | | |
| N 1243 | E 8 | 4050260732725.02 | 65 | | | | | | |
| N 1243 | E 8 | 4050270732726.01 | 67 | | | | | | |
| N 1243 | E 8 | 4050260732720.01 | 64 | | | | | | |
| N 1243 | F 8 | 4050260732720.02 | 64 | | | | | | |
| N 1244 | D 8 | 4049100732708.01 | 249 | | | 184 | | | |
| N 1245 | D 8 | 4048200732659.01 | 260 | | | 192 | | | |
| N 1246 | D 8 | 4047030732642.01 | 186 | | | 97 | | | |
| N 1327 | E 6 | 4050340733910.01 | 10 | | | | | | |
| N 1476 | E 7 | 4050570733251.01 | 130 | | | 101 | | | |
| N 1477 | E 7 | 4051250733047.01 | 216 | | | 30 | | | |
| N 1491 | D 7 | 4046080733029.01 | 149 | | | 78 | | | |
| N 1486 | E 8 | 4053250732933.01 | 5 | | | | | -475 | |
| N 1595 | E 6 | 4050330733909.02 | 11 | | | | | | |
| N 1651 | F 6 | 4052310733633.01 | 162 | | | | | -259 | |
| N 1767 | D 8 | 4049040732851.02 | 251 | | | | | | |
| N 1768 | D 8 | 4049040732850.01 | 250 | | | | | | |
| N 1773 | D 7 | 4047270733425.01 | 228 | | | | | | |
| N 1774 | D 7 | 4047290733423.01 | 241 | | | | | | |
| N 1775 | D 7 | 4047110733403.01 | 188 | | | | | | |
| N 1917 | E 6 | 4051380733824.01 | 15 | | | | | -200 | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 2017 | E 7 | 4053110733200.01 | 10 | | | | | -325 | |
| N 2027 | E 6 | 4051380733351.01 | 21 | | | | | | |
| N 2060 | E 6 | 4051390733801.01 | 26 | | | | | | |
| N 2072 | D 7 | 4046340733111.01 | 162 | | | | | | |
| N 2087 | E 6 | 4051450733820.01 | 50 | | | | | | |
| N 2087 | E 6 | 4051450733820.02 | 50 | | | | | -278 | |
| N 2088 | E 8 | 4052090732844.01 | 159 | | | -174 | | -369 | |
| N 2113 | E 7 | 4053090733137.01 | 10 | | | | | -350 | |
| N 2132 | E 7 | 4053370733015.01 | 10 | | | | | -396 | |
| N 2208 | E 8 | 4051260732755.01 | 15 | | | | | | |
| N 2209 | E 8 | 4051260732754.01 | 15 | | | | | | |
| N 2210 | E 8 | 4051260732754.02 | 15 | | | | | | |
| N 2211 | E 8 | 4051260732754.03 | 15 | | | | | | |
| N 2238 | E 7 | 4052290733146.01 | 10 | | | | | | |
| N 2241 | E 7 | 4053250733151.01 | 18 | | | | | -341 | |
| N 2316 | E 6 | 4051070733723.01 | 157 | | | | | | |
| N 2409 | E 8 | 4051260732754.04 | 15 | | | | | | |
| N 2410 | E 8 | 4051250732754.01 | 15 | | | | | | |
| N 2528 | E 7 | 4050010733432.01 | 92 | | | -195 | | | |
| N 2528 | E 7 | 4050010733432.02 | 93 | | | | | | |
| N 2616 | E 6 | 4050530733705.01 | 75 | | | | | | |
| N 2920 | E 8 | 4052570732930.01 | 10 | | | | | | |
| N 3310 | D 6 | 4049530733850.01 | 27 | | | | | | |
| N 3444 | D 7 | 4048450733441.01 | 263 | | | 183 | | | |
| N 3466 | E 6 | 4051130733727.02 | 53 | | | | | | |
| N 3474 | D 7 | 4048470733440.01 | 244 | | | 188 | | | |
| N 3475 | D 7 | 4048490733445.01 | 208 | | | 44 | | | |
| N 3486 | E 7 | 4052310733234.01 | 18 | | | | | | |
| N 3561 | E 7 | 4052300733230.02 | 18 | | | | | | |
| N 3569 | D 7 | 4047510733045.01 | 181 | | | 93 | | | |
| N 3838 | D 7 | 4047590733115.01 | 195 | | | 100 | | | |
| N 3850 | D 7 | 4047490733059.01 | 185 | | | | | | |
| N 3850 | D 7 | 4047490733059.02 | 185 | | | 110 | | | |
| N 3860 | D 7 | 4047450733059.01 | 183 | | | 123 | | | |
| N 3874 | D 7 | 4047450733059.02 | 183 | | | 108 | | | |
| N 3877 | D 7 | 4046280733237.01 | 152 | | | -5 | | | |
| N 3878 | D 7 | 4046240733233.01 | 150 | | | 12 | | | |
| N 3878 | D 7 | 4046240733233.02 | 150 | | | | | | |
| N 3892 | E 6 | 4052330733724.01 | 145 | | | | | -234 | |
| N 3892 | E 6 | 4052330733724.02 | 145 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 3925 | D 7 | 4046450733330.01 | 158 | | | | | | |
| N 3953 | D 7 | 4046280733237.02 | 152 | | | 23 | | | |
| N 3953 | D 7 | 4046280733237.03 | 152 | | | | | | |
| N 3982 | E 7 | 4053150733342.01 | 20 | | | | | -311 | |
| N 4058 | E 7 | 4051410733213.01 | 75 | | | | | | |
| N 4095 | D 8 | 4046390732809.01 | 150 | | | 76 | | | |
| N 4096 | D 8 | 4046390732802.01 | 150 | | | | | | |
| N 4097 | D 8 | 4046310732939.01 | 158 | | | 112 | | | |
| N 4133 | D 7 | 4048090733034.01 | 192 | | | -2 | | | |
| N 4136 | E 7 | 4052300733229.02 | 18 | | | | | | |
| N 4137 | E 7 | 4052300733226.01 | 18 | | | | | | |
| N 4245 | D 7 | 4047460733211.01 | 222 | | | 72 | | | |
| N 4246 | D 7 | 4048020733128.01 | 200 | | | 40 | | | |
| N 4376 | E 7 | 4054450733112.01 | 58 | | | | | -242 | |
| N 4400 | E 8 | 4051540732958.01 | 36 | | | -177 | | | |
| N 4400 | E 8 | 4051540732958.02 | 36 | | | | | | |
| N 4431 | D 7 | 4045420733244.01 | 98 | | | | | | |
| N 4432 | E 6 | 4051430733821.01 | 28 | | | | | -272 | |
| N 4440 | E 7 | 4051350733829.01 | 16 | | | | | -234 | |
| N 4462 | E 6 | 4050100733849.01 | 69 | | | | | | |
| N 4462 | F 6 | 4050100733849.02 | 69 | | | | | | |
| N 4633 | D 7 | 4047210733322.01 | 176 | | | 19 | | | |
| N 4633 | D 7 | 4047210733322.02 | 176 | | | | | | |
| N 4639 | E 6 | 4052010733602.02 | 123 | | | | | | |
| N 4760 | E 7 | 4051070733120.01 | 220 | | | | | | |
| N 4891 | E 7 | 4051070733120.01 | 230 | | | | | | |
| N 5058 | D 7 | 4048480733407.01 | 238 | | | 170 | | | |
| N 5071 | E 6 | 4052130733655.01 | 143 | | | 48 | | | |
| N 5086 | D 7 | 4049120733235.01 | 225 | | | | | | |
| N 5152 | E 6 | 4053250733514.01 | 44 | | | | | | |
| N 5188 | E 7 | 4053500733124.01 | 22 | | | | | -338 | |
| N 5201 | D 6 | 4049250733817.02 | 48 | | | | | -376 | |
| N 5250 | E 6 | 4052380733748.01 | 128 | | | | | | |
| N 5250 | E 6 | 4052450733748.01 | 123 | | | | | | |
| N 5261 | E 6 | 4052330733722.01 | 145 | | | | | | |
| N 5261 | E 6 | 4052330733722.02 | 145 | | | | | | |
| N 5332 | E 7 | 4051400733210.01 | 73 | | | | | | |
| N 5335 | D 7 | 4047130733145.01 | 170 | | | 112 | | | |
| N 5450 | D 6 | 4049220733814.01 | 57 | | | | | | |
| N 5672 | E 7 | 4052560733405.01 | 25 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 5677 | D 7 | 4048410733047.01 | 218 | | | 139 | | | |
| N 5677 | D 7 | 4048410733047.02 | 218 | | | | | | |
| N 5762 | E 6 | 4051290733615.01 | 145 | | | -19 | | | |
| N 5762 | E 6 | 4051290733615.02 | 145 | | | | | | |
| N 5792 | E 6 | 4050140733736.01 | 140 | | | 101 | | | |
| N 5792 | E 6 | 4050140733736.02 | 140 | | | | | | |
| N 5851 | D 7 | 4047140733420.01 | 218 | | | 90 | | | |
| N 5901 | D 7 | 4047310733105.01 | 179 | | | 103 | | | |
| N 5994 | E 6 | 4052110733718.01 | 130 | | | 25 | | | |
| N 6042 | E 7 | 4053590733323.01 | 10 | | | | | | |
| N 6076 | D 8 | 4046500732911.01 | 158 | | | 86 | | | |
| N 6076 | D 8 | 4046500732911.02 | 158 | | | | | | |
| N 6077 | D 8 | 4046490732910.01 | 158 | | | 86 | | | |
| N 6077 | D 8 | 4046490732910.02 | 158 | | | | | | |
| N 6092 | D 8 | 4049120732751.01 | 241 | | | 191 | | | |
| N 6093 | D 8 | 4049080732751.01 | 259 | | | 141 | | | |
| N 6190 | D 7 | 4047070733053.01 | 177 | | | -41 | | | |
| N 6190 | D 7 | 4047070733053.02 | 177 | | | | | | |
| N 6191 | D 7 | 4047070733049.01 | 176 | | | 9 | | | |
| N 6191 | D 7 | 4047070733049.02 | 176 | | | | | | |
| N 6289 | E 6 | 4051220733517.01 | 162 | | | | | | |
| N 6289 | E 6 | 4051220733517.02 | 162 | | | | | | |
| N 6294 | E 7 | 4050010733432.03 | 93 | | | | | | |
| N 6416 | E 6 | 4051330733818.01 | 15 | | | | | -236 | |
| N 6416 | F 6 | 4051330733818.02 | 15 | | | | | | |
| N 6435 | E 7 | 4052280733126.01 | 58 | | | | | -307 | |
| N 6444 | E 6 | 4050310733535.01 | 170 | | | 80 | | | |
| N 6531 | D 7 | 4047120733057.01 | 178 | | | | | | |
| N 6531 | D 7 | 4047120733057.02 | 178 | | | | | | |
| N 6549 | F 6 | 4051440733824.01 | 32 | | | | | -223 | -404 |
| N 6579 | E 6 | 4051100733725.01 | 57 | | | | | | |
| N 6580 | D 8 | 4046300732938.01 | 158 | | | 98 | | | |
| N 6580 | D 8 | 4046300732938.02 | 158 | | | | | | |
| N 6587 | F 6 | 4051330733818.03 | 15 | | | | | | |
| N 6651 | D 7 | 4047540733157.01 | 232 | | | 89 | | | |
| N 6655 | D 7 | 4045340733244.01 | 122 | | | 57 | | | |
| N 6665 | D 6 | 4049130733701.01 | 97 | | | | | | |
| N 6666 | D 6 | 4049130733701.02 | 97 | | | | | | |
| N 6667 | D 6 | 4052000733256.01 | 94 | | | | | | |
| N 6668 | E 6 | 4052120733540.01 | 103 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 6669 | E 6 | 4053060733546.01 | 89 | | | | | | |
| N 6670 | E 6 | 4052420733522.01 | 81 | | | | | | |
| N 6675 | E 7 | 4053330733032.01 | 7 | | | | | -431 | |
| N 6708 | E 6 | 4051340733917.01 | 13 | | | | | | |
| N 6741 | D 7 | 4047510733045.02 | 181 | | | 93 | | | |
| N 6768 | E 7 | 4051420733322.01 | 208 | | | | | | |
| N 6806 | E 6 | 4050260733616.01 | 154 | | | 69 | | | |
| N 6860 | D 7 | 4045560733300.01 | 138 | | | | | | |
| N 6876 | E 8 | 4051300732856.01 | 146 | | | | | | |
| N 6877 | E 7 | 4052560733000.01 | 130 | | | | | | |
| N 6878 | E 7 | 4054320733116.01 | 35 | | | | | | |
| N 6879 | E 7 | 4053110733318.01 | 131 | | | | | | |
| N 6880 | E 7 | 4054250733359.01 | 115 | | | | | | |
| N 6881 | D 6 | 4049360733700.01 | 94 | | | | | | |
| N 6882 | D 6 | 4049020733628.01 | 140 | | | | | | |
| N 6883 | D 6 | 4049420733634.01 | 118 | | | | | | |
| N 6884 | E 7 | 4050050733145.01 | 191 | | | | | | |
| N 6885 | E 7 | 4050430733131.01 | 165 | | | | | | |
| N 6886 | E 7 | 4050290733225.01 | 164 | | | | | | |
| N 6887 | E 8 | 4050320732755.01 | 160 | | | | | | |
| N 6888 | E 8 | 4050050732718.01 | 86 | | | | | | |
| N 6889 | D 8 | 4048010732804.01 | 290 | | | | | | |
| N 6973 | D 7 | 4051450733728.01 | 48 | | | | | | |
| N 7030 | D 7 | 4046350733311.01 | 158 | | | -3 | | | |
| N 7034 | D 7 | 4049190733038.01 | 219 | | | | | | |
| N 7045 | D 7 | 4047290733423.02 | 241 | | | 91 | | | |
| N 7047 | E 7 | 4051530733326.01 | 223 | | | 83 | | | |
| N 7066 | E 7 | 4054270733458.01 | 9 | | | | | | |
| N 7115 | E 7 | 4050290733317.01 | 205 | | | -10 | | | |
| N 7152 | E 7 | 4054330733446.01 | 14 | | | | | -266 | -369 |
| N 7190 | E 7 | 4054330733446.02 | 14 | | | | | | |
| N 7191 | E 7 | 4054330733446.03 | 14 | | | | | | |
| N 7192 | E 7 | 4054330733446.04 | 14 | | | | | | |
| N 7193 | E 7 | 4054330733446.05 | 14 | | | | | | |
| N 7277 | E 7 | 4051400733211.01 | 77 | | | | | | |
| N 7419 | D 8 | 4049050732852.01 | 243 | | | 78 | | | |
| N 7420 | D 8 | 4048030732806.01 | 283 | | | 153 | | | |
| N 7427 | E 6 | 4051020733715.01 | 58 | | | | | | |
| N 7439 | E 6 | 4052590733850.01 | 22 | | | | | -179 | |
| N 7446 | D 7 | 4048490733443.01 | 222 | | | 85 | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 7450 | D 6 | 4048550733601.01 | 176 | | | 71 | | | |
| N 7478 | D 7 | 4047510733219.01 | 217 | | | | | | |
| N 7510 | E 7 | 4054440733131.01 | 19 | | | | | -265 | |
| N 7526 | D 8 | 4047030732801.01 | 228 | | | 108 | | | |
| N 7546 | E 7 | 4054180733240.01 | 11 | | | | | -332 | |
| N 7547 | E 6 | 4054300733528.01 | 9 | | | | | -291 | |
| N 7549 | D 6 | 4047380733531.01 | 198 | | | 65 | | | |
| N 7562 | D 7 | 4046340733111.01 | 163 | | | -18 | | | |
| N 7570 | E 7 | 4054240733400.01 | 125 | | | | | -286 | |
| N 7593 | E 8 | 4050450732830.01 | 253 | | | 66 | | | |
| N 7614 | E 6 | 4051450733815.01 | 32 | | | | | -229 | |
| N 7620 | E 7 | 4054240733400.02 | 125 | | | | | -281 | |
| N 7643 | E 7 | 4054240733400.03 | 125 | | | | | | |
| N 7644 | E 7 | 4054210733052.01 | 19 | | | | | -277 | |
| N 7664 | D 6 | 4049230733814.01 | 53 | | | | | | |
| N 7665 | E 6 | 4052030733500.01 | 218 | | | | | | |
| N 7672 | D 7 | 4047340733143.01 | 177 | | | | | | |
| N 7719 | E 7 | 4054420733429.01 | 20 | | | | | | -340 |
| N 7745 | E 7 | 4052130733343.01 | 150 | | | | | | |
| N 7772 | E 7 | 4050120733102.01 | 258 | | | -86 | | | |
| N 7773 | E 7 | 4050100733059.01 | 230 | | | -136 | | | |
| N 7781 | D 7 | 4047510733220.01 | 217 | | | 91 | | | |
| N 7782 | E 6 | 4051420733714.01 | 95 | | | 24 | | | |
| N 7830 | E 7 | 4051110733258.01 | 118 | | | 83 | | | |
| N 7834 | E 6 | 4050390733717.01 | 150 | | | 59 | | | |
| N 7857 | E 6 | 4050590733841.01 | 195 | | | | | -275 | -432 |
| N 7858 | D 7 | 4048110733321.01 | 218 | | | 33 | | | |
| N 8043 | D 8 | 4047540732831.01 | 222 | | | 132 | | | |
| N 8048 | E 6 | 4051520733419.01 | 60 | | | | | -240 | |
| N 8123 | E 7 | 4050490733035.01 | 263 | | | 41 | | | |
| N 8183 | E 7 | 4051460733134.01 | 90 | | | | | | |
| N 8183 | E 7 | 4051460733134.02 | 90 | | | | | | |
| N 8224 | E 6 | 4051010733715.01 | 58 | | | | | | |
| N 8249 | D 7 | 4046320733111.01 | 163 | | | -27 | | | |
| N 8259 | E 6 | 4053200733629.01 | 70 | | | | | | |
| N 8326 | E 6 | 4051160733729.01 | 53 | | | | | -304 | |
| N 8326 | E 6 | 4051160733729.02 | 53 | | | | | | |
| N 8327 | E 6 | 4051130733726.03 | 53 | | | | | -304 | |
| N 8327 | E 6 | 4051130733726.04 | 53 | | | | | | |
| N 8355 | D 7 | 4048290733159.01 | 258 | | | 136 | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 8394 | E 6 | 4052170733721.01 | 138 | | | 11 | | -251 | -444 |
| N 8426 | E 7 | 4053590733323.02 | 10 | | | | | | |
| N 8430 | E 7 | 4050090733146.01 | 190 | | | | | | |
| N 8432 | D 6 | 4048570733521.01 | 165 | | | 102 | | | |
| N 8492 | D 7 | 4046530733423.01 | 178 | | | | | | |
| N 8493 | D 7 | 4046520733426.01 | 175 | | | | | | |
| N 8542 | E 7 | 4050170733336.01 | 175 | | | | | | |
| N 8583 | D 8 | 4048150732946.01 | 194 | | | 115 | | | |
| N 8597 | E 8 | 4053270732939.01 | 100 | | | | | | |
| N 8606 | D 8 | 4048150732946.02 | 197 | | | | | | |
| N 8610 | E 6 | 4054290733502.01 | 8 | | | | | | |
| N 8642 | D 7 | 4047270733456.01 | 243 | | | 57 | | | |
| N 8658 | D 7 | 4048190733433.01 | 325 | | | 246 | | | |
| N 8658 | D 7 | 4048190733433.02 | 320 | | | | | | |
| N 8681 | E 7 | 4049530733302.01 | 200 | | | 78 | | | |
| N 8690 | E 6 | 4051340733843.01 | 25 | | | | | -220 | |
| N 8709 | E 6 | 4051320733845.01 | 22 | | | | | -218 | |
| N 8713 | D 6 | 4049200733733.01 | 168 | | | -22 | | | |
| N 8713 | D 6 | 4049200733733.02 | 168 | | | | | | |
| N 8716 | E 6 | 4051450733729.02 | 47 | | | | | | |
| N 8776 | E 7 | 4054230733353.01 | 98 | | | | | -294 | |
| N 8805 | E 7 | 4053230733131.01 | 63 | | | | | -327 | |
| N 8807 | D 7 | 4045430733246.01 | 119 | | | 58 | | | |
| N 8880 | D 7 | 4045340733244.02 | 122 | | | 52 | | | |
| N 8887 | E 6 | 4051010733725.01 | 65 | | | | | | |
| N 8888 | D 7 | 4047030733056.02 | 174 | | | | | | |
| N 8898 | D 6 | 4049410733845.01 | 18 | | | | | | |
| N 8928 | E 7 | 4054160733256.01 | 10 | | | | | | |
| N 8937 | D 6 | 4049410733845.01 | 18 | | | | | | |
| N 8962 | E 6 | 4054210733548.01 | 6 | | | | | -368 | -422 |
| N 8995 | E 7 | 4053570733109.01 | 41 | | | | | -346 | |
| N 9023 | F 7 | 4051060733120.01 | 219 | | | | | | |
| N 9059 | D 7 | 4048320733330.01 | 228 | | | | | | |
| N 9066 | E 6 | 4052040733634.01 | 143 | | | 5 | | -282 | -461 |
| N 9066 | E 6 | 4052040733634.02 | 143 | | | | | | |
| N 9066 | E 6 | 4052040733634.03 | 143 | | | | | | |
| N 9068 | F 8 | 4053070733002.02 | 154 | | | | | | |
| N 9076 | E 8 | 4053070733002.03 | 154 | | | | | | |
| N 9087 | E 7 | 4050190733355.02 | 157 | | | | | | |
| N 9089 | D 8 | 4047190732857.02 | 173 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 9100 | E 6 | 4051580733753.01 | 54 | | | | | | |
| N 9115 | E 6 | 4051130733613.01 | 145 | | | | | | |
| N 9117 | E 6 | 4050110733559.01 | 112 | | | | | | |
| N 9127 | E 7 | 4054160733257.01 | 10 | | | | | | |
| N 9152 | E 8 | 4051260732756.03 | 40 | | | | | | |
| N 9154 | E 7 | 4051580733001.01 | 34 | | | | | | |
| N 9170 | D 7 | 4047540733039.01 | 184 | | | 40 | | | |
| N 9170 | D 7 | 4047540733039.02 | 184 | | | | | | |
| N 9189 | E 7 | 4051480733202.01 | 59 | | | | | | |
| N 9210 | E 6 | 4052020733633.01 | 142 | | | 2 | | | |
| N 9211 | E 6 | 4052050733634.01 | 142 | | | 0 | | | |
| N 9259 | E 7 | 4052240733137.01 | 58 | | | | | | |
| N 9276 | E 7 | 4053180733036.01 | 10 | | | | | | |
| N 9300 | E 7 | 4052030733227.01 | 45 | | | | | | |
| N 9301 | E 7 | 4052030733227.02 | 45 | | | | | | |
| N 9302 | E 7 | 4052030733227.03 | 45 | | | | | | |
| N 9303 | E 7 | 4052030733227.04 | 45 | | | | | | |
| N 9314 | E 7 | 4053500733454.01 | 32 | | | | | | |
| N 9315 | E 6 | 4054280733503.01 | 9 | | | | | | |
| N 9316 | E 7 | 4053260733021.02 | 25 | | | | | | |
| N 9317 | D 7 | 4049280733134.01 | 218 | | | | | | |
| N 9334 | E 6 | 4051280733705.01 | 143 | | | 8 | | -294 | -481 |
| N 9334 | E 6 | 4051280733705.02 | 143 | | | | | | |
| N 9334 | E 6 | 4051280733705.03 | 143 | | | | | | |
| N 9353 | D 7 | 4049340733348.01 | 143 | | | | | | |
| N 9455 | D 7 | 4047540733039.03 | 184 | | | | | | |
| N 9456 | D 7 | 4047540733039.04 | 184 | | | | | | |
| N 9463 | D 7 | 4046010733150.01 | 141 | | | -64 | | | |
| N 9464 | E 7 | 4054390733045.01 | 22 | | | | | -288 | |
| N 9478 | E 6 | 4054280733503.02 | 9 | | | | | | |
| N 9488 | D 7 | 4046280733112.01 | 161 | | | -111 | | | |
| N 9488 | D 7 | 4046280733112.02 | 161 | | | | | | |
| N 9489 | D 7 | 4049120733235.02 | 225 | | | 130 | | | |
| N 9520 | E 7 | 4051440733135.01 | 90 | | | | | -447 | |
| N 9520 | E 7 | 4051440733135.02 | 90 | | | | | | |
| N 9593 | E 7 | 4054100733120.01 | 5 | | | | | -295 | |
| N 9595 | E 7 | 4053000733250.02 | 20 | | | | | -306 | |
| N 9606 | E 8 | 4053360732944.01 | 121 | | | | | | |
| N 9606 | E 8 | 4053360732944.02 | 121 | | | | | | |
| N 9616 | E 7 | 4052250733243.01 | 163 | | | | | | |

TABLE 7.--GEOHYDROLOGIC CORRELATIONS OF SELECTED WELLS AND TEST HOLES IN NORTHERN PART OF TOWN OF OYSTER BAY, NEW YORK.

| LOCATION OF WELL | | | HYDROGEOLOGIC UNIT PENETRATED AND ALTITUDE OF TOP OF UNIT IN FEET ABOVE OR BELOW (-) SEA LEVEL | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WELL NUMBER | MAP COORD. | LATITUDE AND LONGITUDE | UPPER GLACIAL AQUIFER | PORT WASHINGTON CONFINING UNIT | PORT WASHINGTON AQUIFER | MAGOTHY AQUIFER | RARITAN CLAY | LLOYD AQUIFER | BEDROCK |
| N 9695 | D 8 | 4048150732946.02 | 194 | | | | | | |
| N 9696 | D 8 | 4048150732946.03 | 194 | | | 124 | | | |
| N 9697 | D 8 | 4047130732730.01 | 180 | | | 104 | | | |
| N 9698 | D 8 | 4047130732730.02 | 181 | | | | | | |
| N 9699 | E 8 | 4051240732926.01 | 67 | | | 33 | | | |
| N 9700 | E 8 | 4051240732926.02 | 70 | | | | | | |
| N 9708 | E 7 | 4054260733119.01 | 12 | | | | | -300 | |
| N 9708 | E 7 | 4054260733119.02 | 12 | | | | | | |