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DEPARTMENT OF THE INTERIOR
March 3, 1849



Water Resources Data New York Water Year 1991

Volume 2. Long Island

U.S. GEOLOGICAL SURVEY
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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-91-2
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1991

1990

OCTOBER

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1991

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Water Resources Data New York Water Year 1991

Volume 2. Long Island

by A.G. Spinello, J.H. Nakao, R. Busciolano, R.B. Winowitch, and V.K. Eagen



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-91-2
Prepared in cooperation with the State of New York
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in New York write to
District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Courthouse
P.O. Box 1669
Albany, New York 12201

or

For information on the water program in Long Island write to
Subdistrict Chief, Water Resources Division
U.S. Geological Survey
5 Aerial Way
Syosset, New York 11791

PREFACE

This volume of the annual hydrologic data report of New York is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New York are contained in 3 volumes:

- Volume 1. Eastern New York excluding Long Island
- Volume 2. Long Island
- Volume 3. Western New York.

The data contained in these three volumes were collected, computed, and processed from three subdistrict offices and one area field office. The offices, and personnel in charge, are:

- Volume 1. Albany, John R. Ritter, Subdistrict Chief
Potsdam, Howard G. Lent, Jr., Technician-in-charge
- Volume 2. Syosset, Bronius Nemickas, Acting Subdistrict Chief
- Volume 3. Ithaca, Robin G. Brown, Acting Subdistrict Chief

The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

A. D. Lange	G. Pena-Cruz
K. McGrath	V. R. Simone

J. A. Pitt typed the text of the report.

This report was prepared in cooperation with the State of New York and with other agencies under the general supervision of L. G. Moore, District Chief, New York.

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operation with the State of New York and other agencies.

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sources data for the 1991 water year for New York consist of records of stage, and water quality of streams; stage, contents, and water quality of reservoirs; and water levels and water quality of ground-water wells. This includes records for water discharge at 17 gaging stations; water quality at 113 streams, 33 wells, and 1 precipitation station; and water levels at 217 wells. Also included are data for 79 low-flow partial-record stations. Water data were collected at various sites not involved in the systematic program, and are published as miscellaneous measurements and analyses. These data, with the data in Volumes 1 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey in cooperation with State, Federal, and local agencies in New York.

1. Descriptors
Hydrologic data, *Groundwater, *Surface waters, *Water quality, Gaging stations, Streamflow, Flow rates, Lakes, Reservoirs, Chemical analysis, Sediments, Climate, Water analysis, Water levels, Water wells, Data collections, Site characteristics

ded Terms

May be purchased from:

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vi SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

NOTE.--Data for partial-record stations and miscellaneous sites for surface-water discharge are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letter after station name designates type of data: (d) discharge, (e) contents and/or elevation, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment]

<u>STREAMS ON LONG ISLAND</u>	Station number	Page
Glen Cove Creek at Glen Cove (dct).....	01302500	37
Mill Neck Creek at Mill Neck (dct).....	01303000	39
Cold Spring Brook at Cold Spring Harbor (d).....	01303500	41
Nissequogue River near Smithtown (dcts).....	01304000	42
Peconic River at Riverhead (dct).....	01304500	46
Carmans River at Yaphank (dcts).....	01305000	48
Swan River at East Patchogue (dct).....	01305500	52
Patchogue River at Patchogue (ct).....	01306000	54
Connetquot Brook at Central Islip (d).....	01306440	55
Connetquot Brook near Central Islip (d).....	01306460	56
Connetquot River near Oakdale (dct).....	01306500	57
Champlin Creek at Islip (ct).....	01307000	60
Penataquit Creek at Bay Shore (ct).....	01307500	61
Sampawams Creek at Babylon (dct).....	01308000	62
Carlls River at Babylon (dct).....	01308500	65
Santapogue Creek at Lindenhurst (ct).....	01309000	67
Massapequa Creek at Massapequa (dct).....	01309500	68
Bellmore Creek at Bellmore (dct).....	01310000	70
East Meadow Brook at Freeport (dct).....	01310500	72
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Valley Stream at Valley Stream (d).....	01311500	76
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DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water discharge stations on Long Island have been discontinued. Daily streamflow records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as partial record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Station name	Station number	Drainage area (sq mi)	Period of record
Patchogue River at Patchogue (d)	01306000*	13.5	1946-69, 1974-76
Champlin Creek at Islip (d)	01307000*	6.5	1945-69
Penataquit Creek at Bay Shore (d)	01307500*	5	1945-76
Santapoque Creek at Lindenhurst (d)	01309000*	7	1947-69

WATER RESOURCES DATA FOR NEW YORK, 1991
Volume 2--Long Island

INTRODUCTION

Water resources data for the 1991 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; water quality of precipitation; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 17 gaging stations; water quality at 18 gaging stations, 33 wells, and 1 precipitation station; and water levels at 217 observation wells. Also included are data for 79 low-flow partial-record stations. Locations of these sites are shown on pages 28-36. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements and analyses. These data together with the data in Volumes 1 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225.

Since the 1981 water year, streamflow data and since the 1984 water year, water-quality data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports provided rapid release of water data in each state shortly after the end of the water year. Through 1970 the data were also released in the water-supply paper series mentioned above.

Streamflow and water-quality data beginning with the 1971 water year, and ground-water data beginning with the 1975 water year are published only in reports on a State-boundary basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-91-2." Water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (518) 472-2457. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Services Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative programs for the systematic collection of water records since 1900. Organizations that assisted in collecting the data included in Volume 2 through cooperative agreements with the U.S. Geological Survey are:

New York State Department of Environmental Conservation, Thomas Jorling, Commissioner.
County of Nassau, Department of Public Works, L. C. Hasl, Commissioner.
County of Suffolk, Department of Health Services, Dr. David Harris, Commissioner.
Suffolk County Water Authority, Michael A. LoGrande, Chairman.

The following organizations aided in collecting records:

Nassau County Department of Health, Nassau County Department of Public Works, Suffolk County Department of Health Services, and Suffolk County Water Authority.

SUMMARY OF HYDROLOGIC CONDITIONS

Above-average precipitation in October 1990 caused streamflow and ground-water levels to increase to near or above average. They remained relatively constant through the winter and began to decline in May and (or) June.

Most maximum stream discharges on Long Island, N.Y., during the 1991 water year occurred on August 19 as a result of Hurricane Bob, although some maximum discharges occurred in Nassau County in October. The hurricane caused discharge of Connetquot Brook near Central Islip (13 years of record) to reach a new peak. Heavy localized precipitation on October 13 also caused discharge of Sampawams Creek (47 years of record) to reach a new peak. Discharge of Valley Stream, in extreme southwestern Nassau County, peaked in May, in response to a localized storm. In general, streamflow on Long Island was slightly less than that in the previous water year; it ranged from slightly below average to average in the western streams and increased to above average in the eastern streams. Maximum monthly mean discharges at most stations occurred in October, and minimum monthly mean discharges occurred mostly in July.

Water levels in most wells screened in the upper glacial aquifer were above historic averages at the beginning of the water year. Precipitation for the water year was near average, and water levels began a slow decline after March in most areas. Record-high water levels were measured in many wells at the beginning of the water year in western Suffolk County, in southwestern Nassau County, in southern and central Queens County, and in southeastern Kings County. One record-low water level was measured on the North Fork of Suffolk County during the second half of the water year. Water levels in most wells screened in the Magothy and Lloyd aquifers were above historic averages at the beginning of the water year and began a slow decline in March that continued until the end of the water year. Water levels were at record highs in many wells in western and central Suffolk County, southwestern Nassau County, and southern and central Queens County at the beginning of the water year. Two record-low water levels were measured in eastern Suffolk County. The record-high water levels in the three main aquifers in extreme western Nassau County and in most of southern and central Queens County occurred during a time when pumping by a principal water-supply company was being decreased.

Observed concentrations of inorganic constituents in surface water and ground water during the 1991 water year did not differ significantly from those of the previous year. Specific conductance of surface-water samples ranged from 75 to 488 $\mu\text{S}/\text{cm}$ (microsiemens per centimeter at 25 degrees Celsius); the median was 138 $\mu\text{S}/\text{cm}$. Unusually high specific conductance in samples collected during the winter at surface-water sites reflect road deicing with salt. The pH of water samples from streams ranged from 5.1 to 9.2; the median pH was 6.3. Annual median stream pH was highest in the north-shore streams of Nassau County and generally decreased to the south and east into Suffolk County. Specific conductance of water samples from the Magothy aquifer ranged from 29 to 307 $\mu\text{S}/\text{cm}$, with a median of 36 $\mu\text{S}/\text{cm}$, and specific conductance of water samples from the Lloyd aquifer ranged from 68 to 524 $\mu\text{S}/\text{cm}$, with a median of 153 $\mu\text{S}/\text{cm}$. The pH of water samples from the upper glacial aquifer ranged from 5.6 to 8.1, with a median of 6.1 and the pH of water samples from the Magothy aquifer ranged from 5.6 to 6.5, with a median of 6.3. The pH of water samples from the Lloyd aquifer ranged from 6.2 to 8.1, with a median of 6.6.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1991 water year that began October 1, 1990, and ended September 30, 1991. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface water, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figures 6A, B, C, 7A, B, C, and 8A, B, C. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a "List of Stations" in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01300500 includes the 2-digit part number "01" plus the 6-digit downstream order number "300500". The part number designates the major river basin. (In a few instances where no gaps were left in the 8-digit numbering sequence, one or two digits were added (making a 9- or 10-digit station number) and (or) a latitude-longitude number was used for identification.)

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first 8 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. See figure 1 on next page.

A local well-numbering system is also used. It is a 2-part identifier, assigned by the New York State Department of Environmental Conservation, consisting of the abbreviation of county name and the serial number of the well within the county.

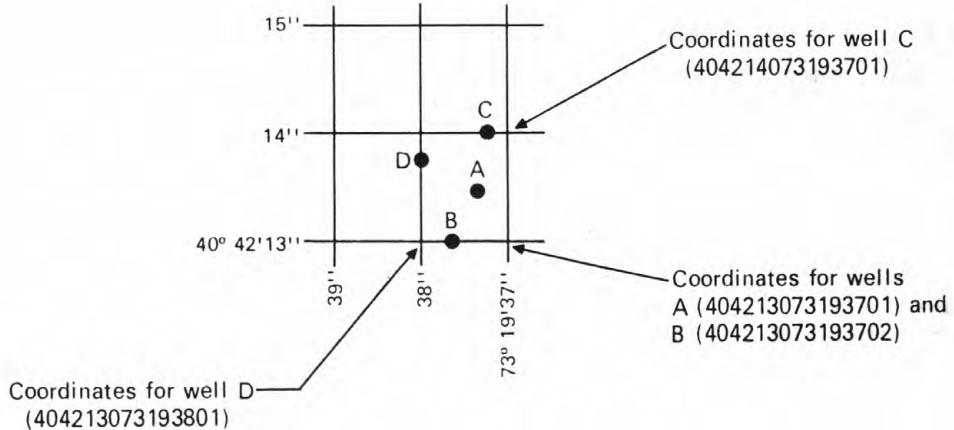


Figure 1. System for numbering wells (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Locations of all gaging stations and observations wells in this report are shown in figures 6A, B, C, and 7A, B, and C.

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for some stations, were determined and used by the U.S. Army Corps of Engineers or other agencies.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented at the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been depleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges and the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") or monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _____ BY WATER YEAR (WY)" and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected "WATER YEARS _____" will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes. At least 5 complete years of record must be available before this statistic is published for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

ANNUAL RUNOFF (CFSM).--Indicates the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft/s; to tenths between 1.0 and 10 ft/s; to whole numbers between 10 and 1,000 ft/s; and to 3 significant figures above 1,000 ft/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where large adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-readable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, unless otherwise footnoted under "REMARKS". Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appears next. The table of ground-water quality follows ground-water level records. Data for quality of ground water is listed alphabetically by County, and is identified by well number.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the *in situ* quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the *in situ* water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 6, Chap. A1, A3, and A4. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Historical and current (1991) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Laboratory Measurements

Samples for indicator bacteria and daily samples for specific conductance are analyzed locally. Sediment samples are analyzed in the Geological Survey laboratory in Harrisburg, Pa. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colo., or Doraville, Ga. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial record stations and miscellaneous sampling sites are published in a separate table following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Records of Ground-Water Levels

Although over 950 wells are measured at annual or more frequent intervals, only ground-water level data from a basic network of 217 observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet in reference to National Geodetic Vertical Datum of 1929. National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum in reference to National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported as mean daily values, and the extremes are instantaneous values selected from the digital record. Water levels in wells not equipped with recording gages are read periodically or measured periodically with a weighted tape by U.S. Geological Survey personnel and/or an observer.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot.

Data Presentation

Most well records consist of three parts, the station description, the data table of water levels observed during the current water year, and a graph of the water levels for the current water year or other selected period. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings of the well description.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above National Geodetic Vertical Datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level means are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level. A hydrograph of water levels follows the data table for some wells. The current year and the previous 9 years of record are plotted in feet above National Geodetic Vertical Datum. If the period of record is less than 10 years, the water levels for the entire record are plotted.

A hydrograph of water levels follows the data table for some wells. The current year and the previous 9 years of record are plotted in feet above National Geodetic Vertical Datum. If the period of record is less than 10 years, the water levels for the entire record are plotted.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of a special study in a specific area. Consequently, a number of chemical analyses are presented for one county, but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

- * Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time filed measurements such as water temperature.

In 1978, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound system units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present as stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C $\pm 1.0^{\circ}\text{C}$ on M-endo median (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C $\pm 0.2^{\circ}\text{C}$ on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35° $\pm 1.0^{\circ}\text{C}$ on KF Streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material: See Bottom material.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium, for example water, that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is the term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table (it can also be above ground level). Formerly called artesian aquifer.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The data shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Dissolved is that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organic carbon (OC) is a measure of the organic matter present in aqueous solution and (or) suspension. May be reported in any of three categories (DOC, dissolved organic carbon; SOC, suspended organic carbon; TOC, total organic carbon).

Organism is any living entity, such as an insect, phytoplankton, or zooplankton.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of algae, fungi, and bacteria which are attached to or live upon submerged objects in lakes or rivers.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red spot.

Green-algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and $[\text{mg C}/(\text{m}^3 \cdot \text{time})]$ for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$] for periphyton and macrophytes and $[\text{mg O}_2/(\text{m}^3 \cdot \text{time})]$ for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentrations of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as a boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.....	Animal
Phylum.....	Arthropoda
Class.....	Insecta
Order.....	Ephemeroptera
Family.....	Ephemeridae
Genus.....	Hexagenia
Species.....	<u>Hexagenia limbata</u>

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses):

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample).

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

When virtually all of a constituent is present in the dissolved phase, the reported value for the dissolved constituent may appear slightly greater than that for the total determination. The difference is within the standard laboratory error for the analytical methods used.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total organic carbon (TOC) is a measure of all organic matter present in aqueous solution and suspension.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure. It is defined by the levels at which water stands in wells that penetrate the water body just far enough to hold standing water.

Water-table aquifer is an unconfined aquifer whose upper boundary is the water table.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to state annual basic-data reports published beginning in 1975.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. Scott Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
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- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
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- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS—TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS—TWRI Book 3, Chapter A12. 1986. 41 pages.

3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS—TWRI Book 3, Chapter A13. 1983. 53 pages.

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3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS—TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS—TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS—TWRI Book 3, Chapter A17. 1985. 38 pages.

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3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS—TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS—TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow*, by Richard L. Cooley and Richard L. Naff: USGS—TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS—TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS—TWRI Book 3, Chapter B6. 1987. 28 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS—TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS—TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS—TWRI Book 3, Chapter C3. 1972. 66 pages.

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4-A2. *Frequency curves*, by H. C. Riggs: USGS—TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS—TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS—TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS—TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS—TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman: USGS—TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

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8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

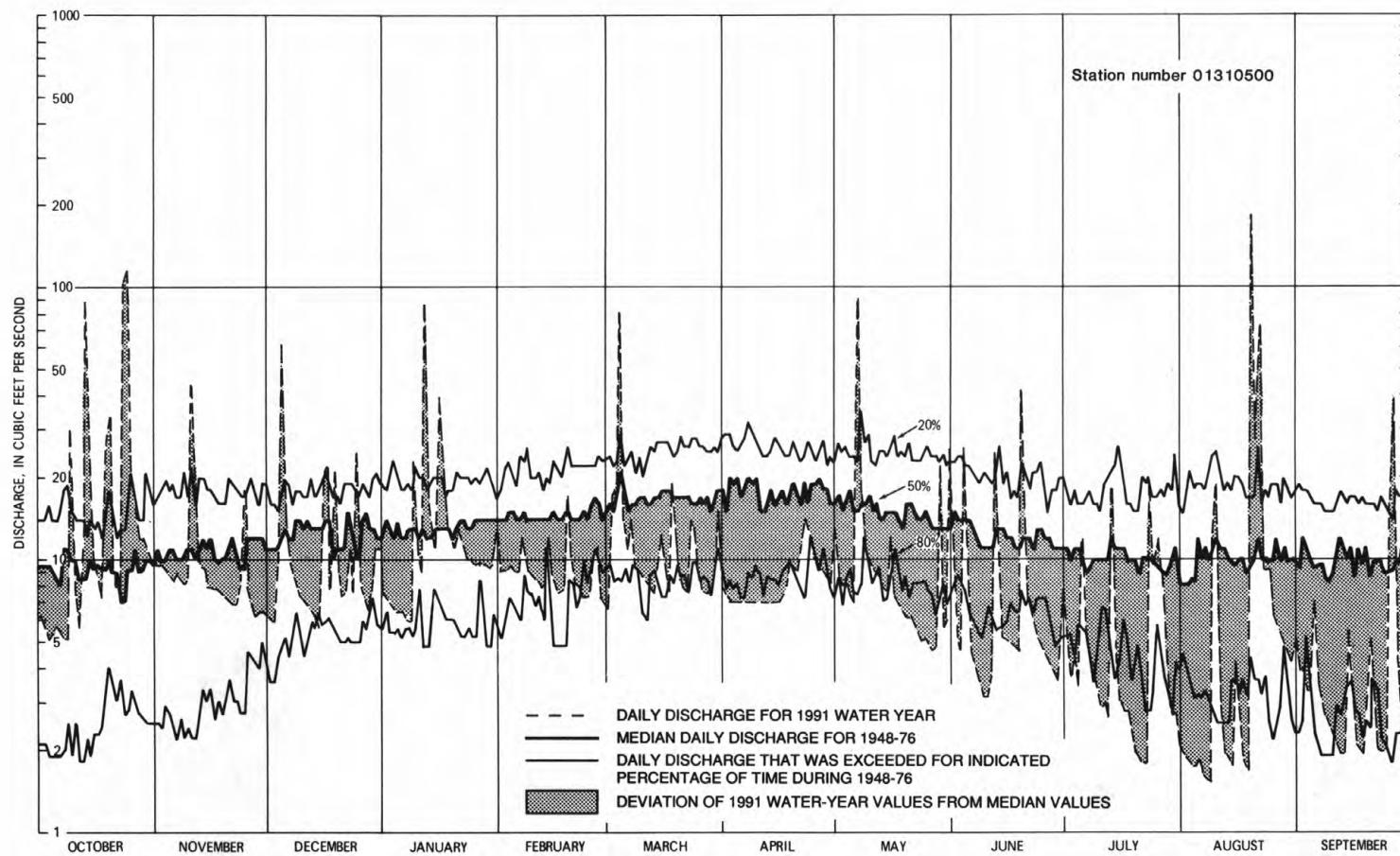


Figure 2.--Hydrographic Comparisons, East Meadow Brook at Freeport

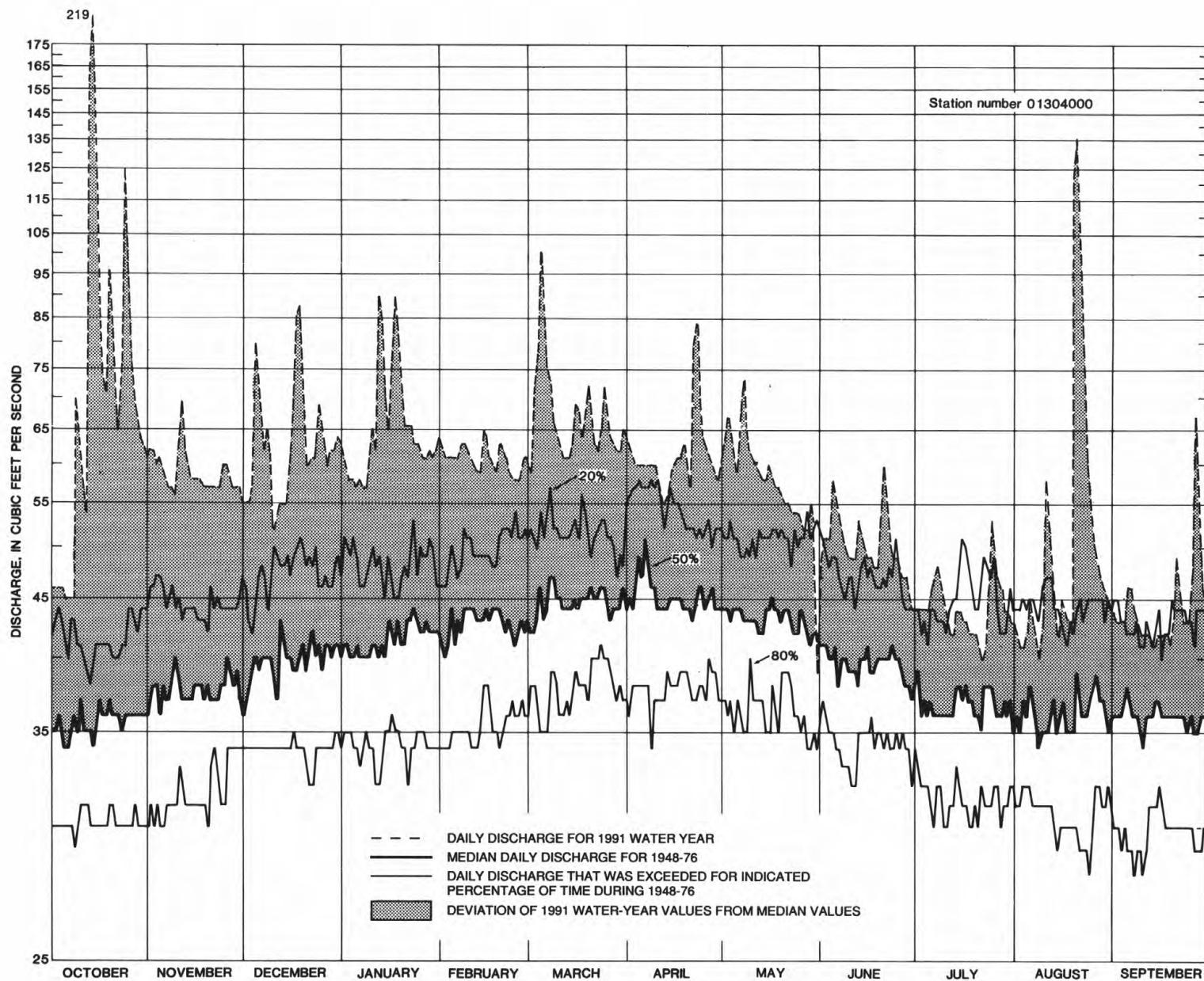
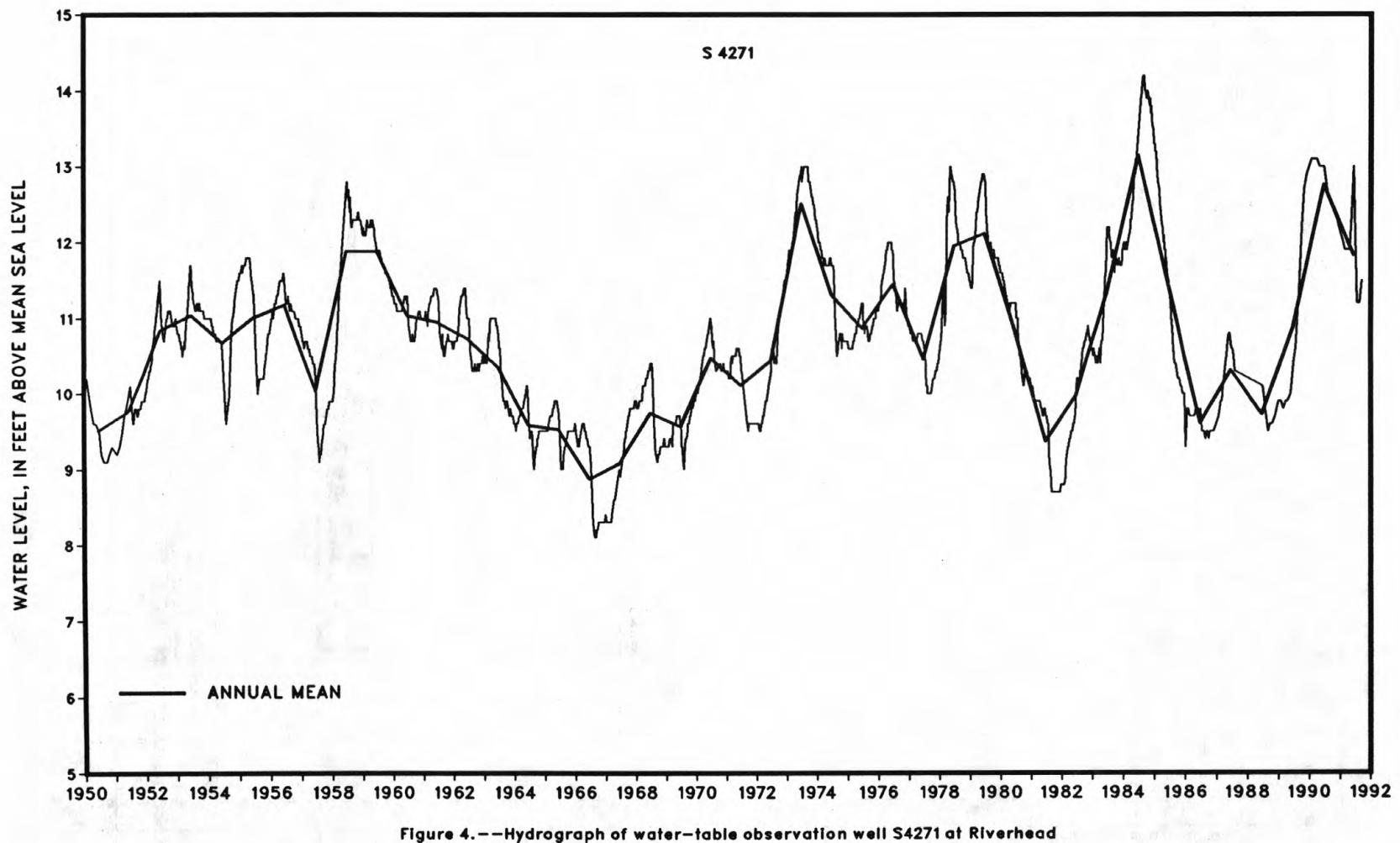


Figure 3 --Hydrographic Comparisons, Nissequogue River near Smithtown



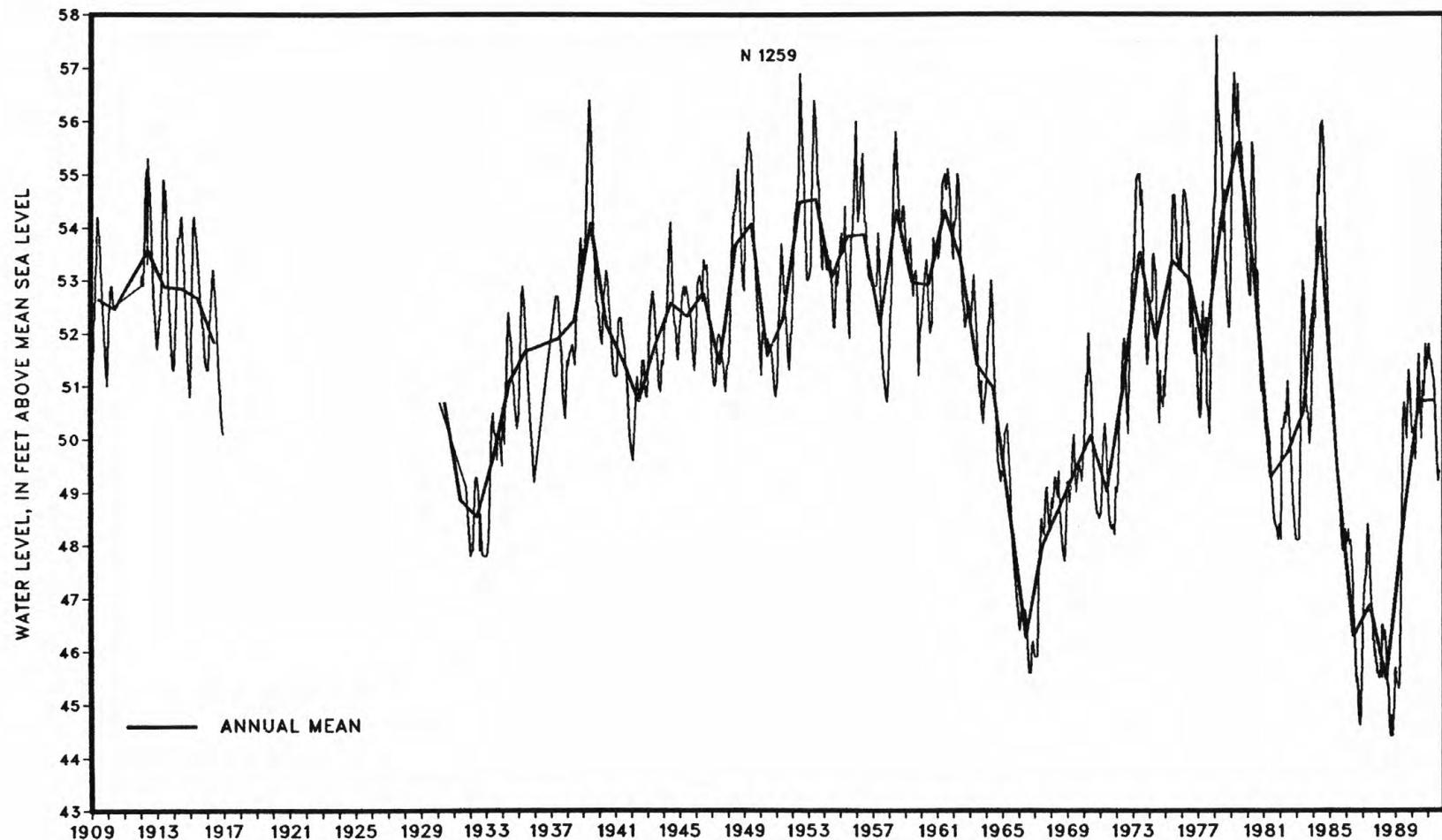


Figure 5.--Hydrograph of water-table observation well N1259 at Plainedge

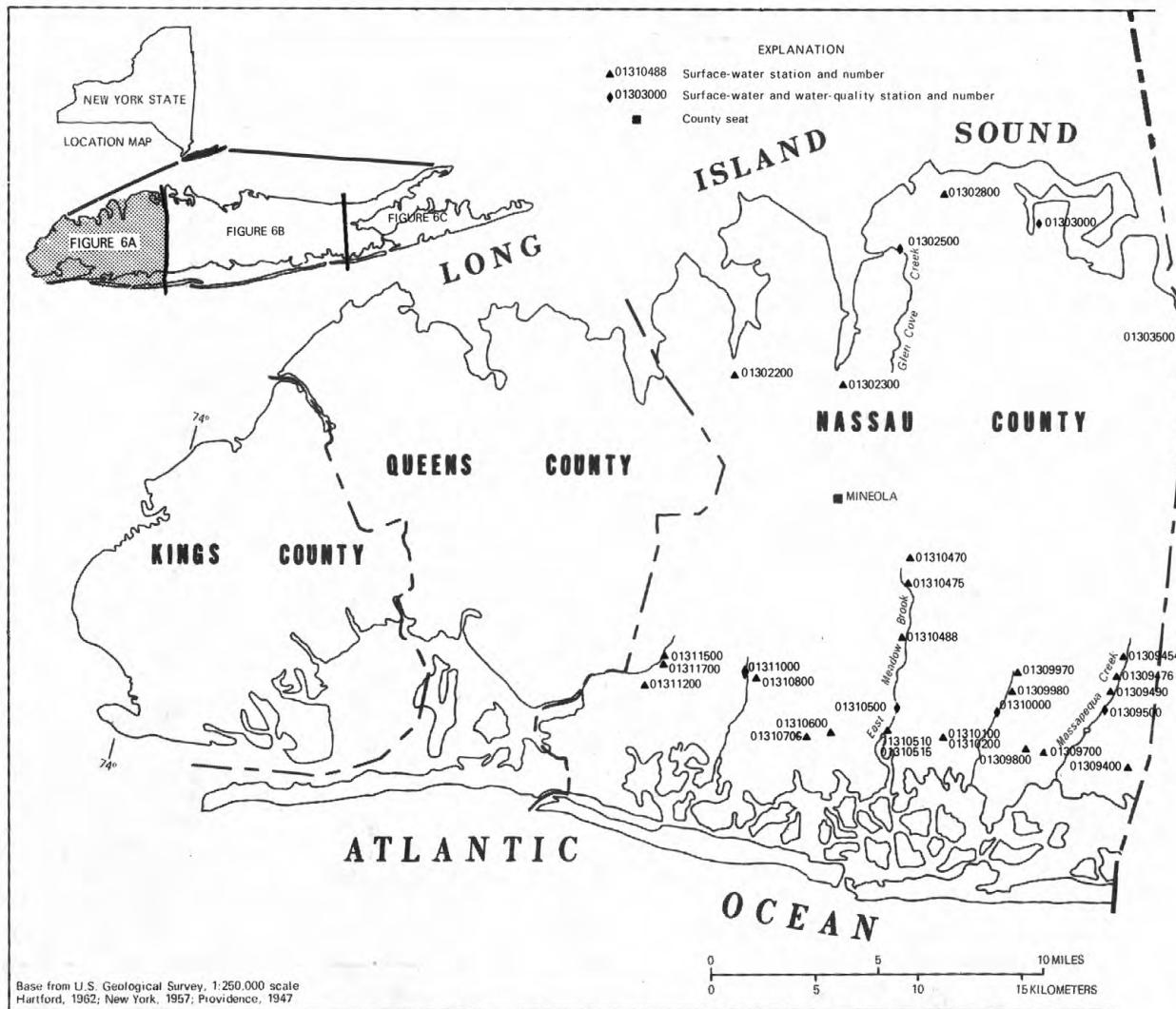


FIGURE 6A.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

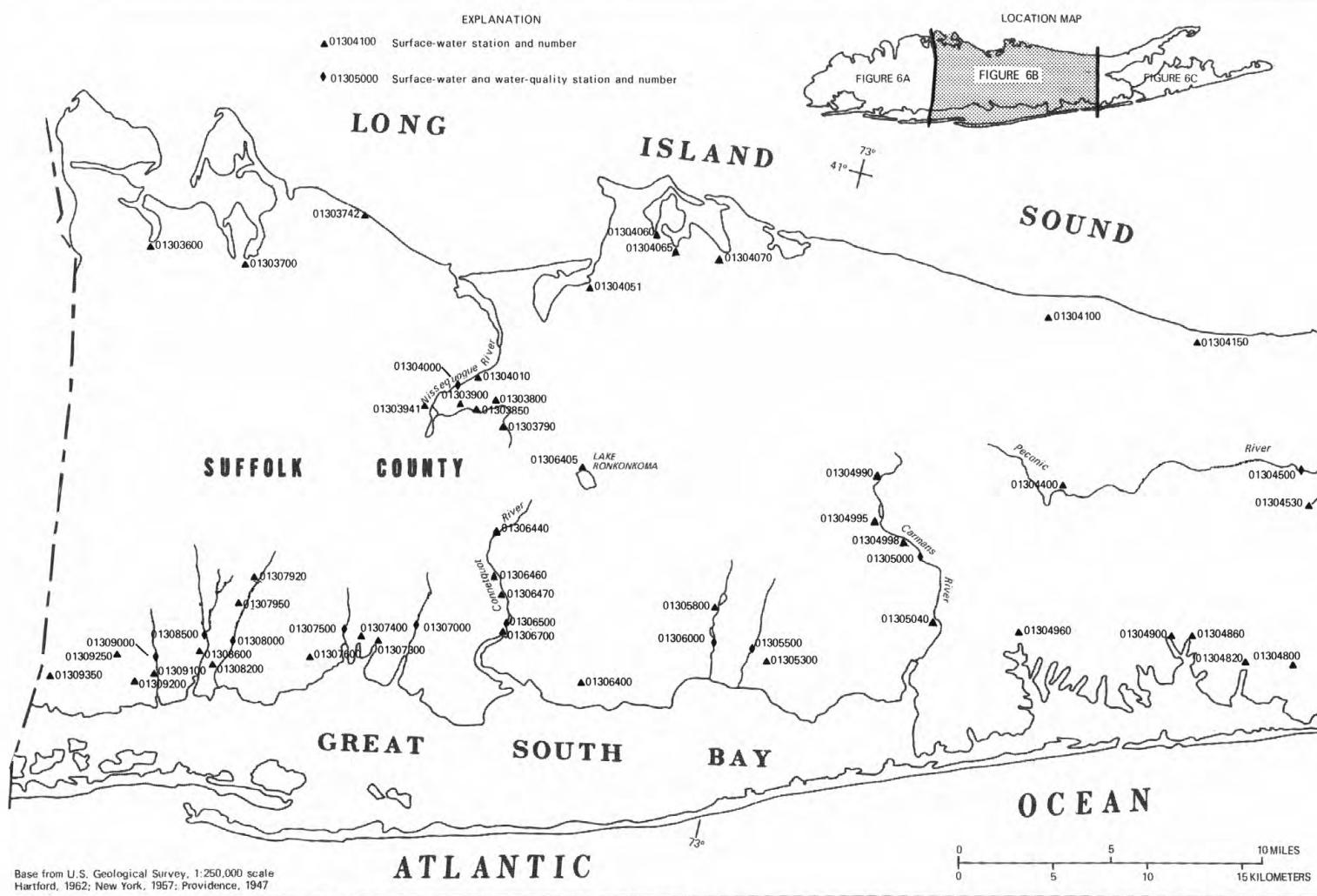


FIGURE 6B.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

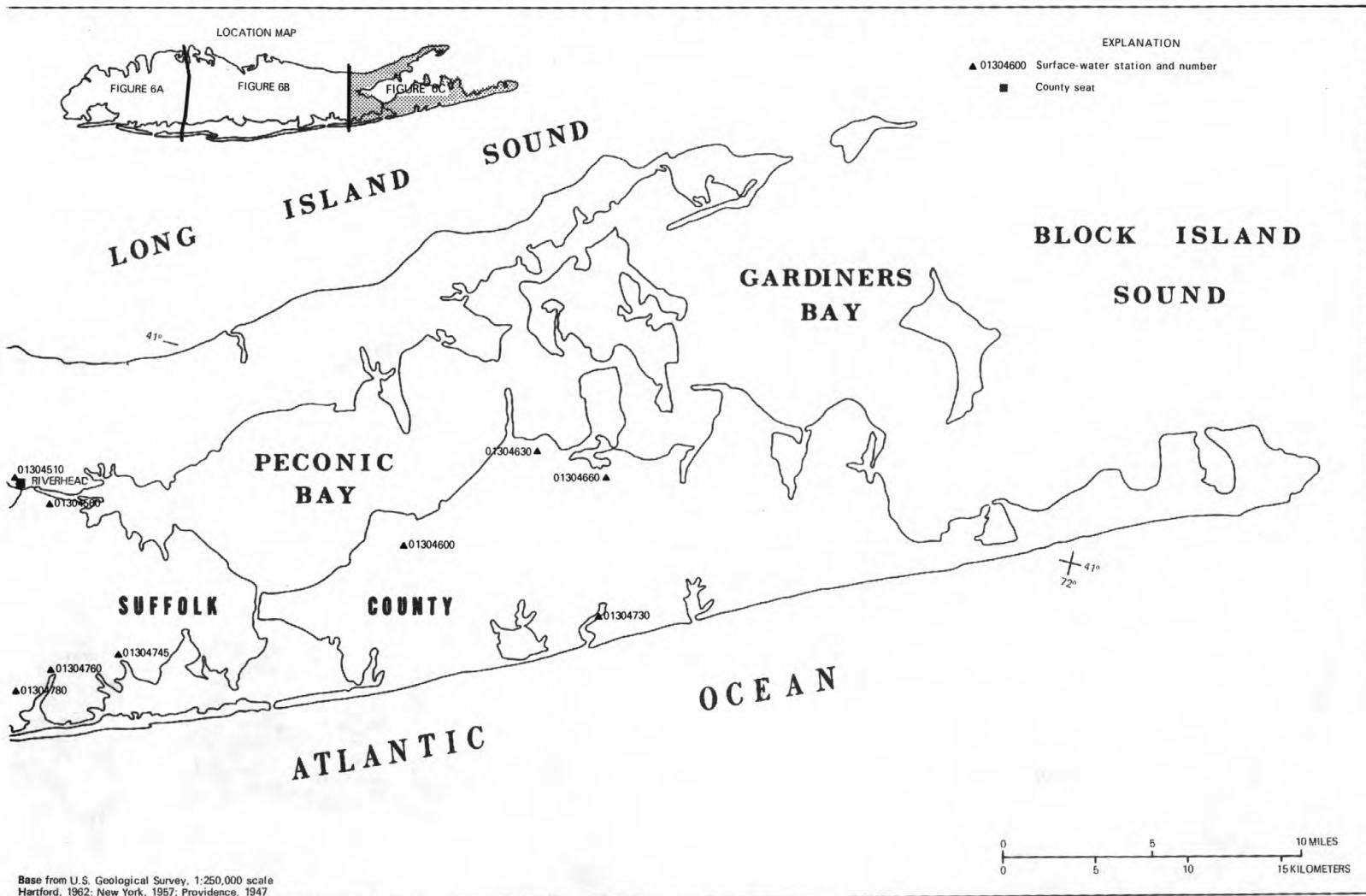


FIGURE 6C.-- LOCATION OF SURFACE-WATER DATA COLLECTION STATIONS

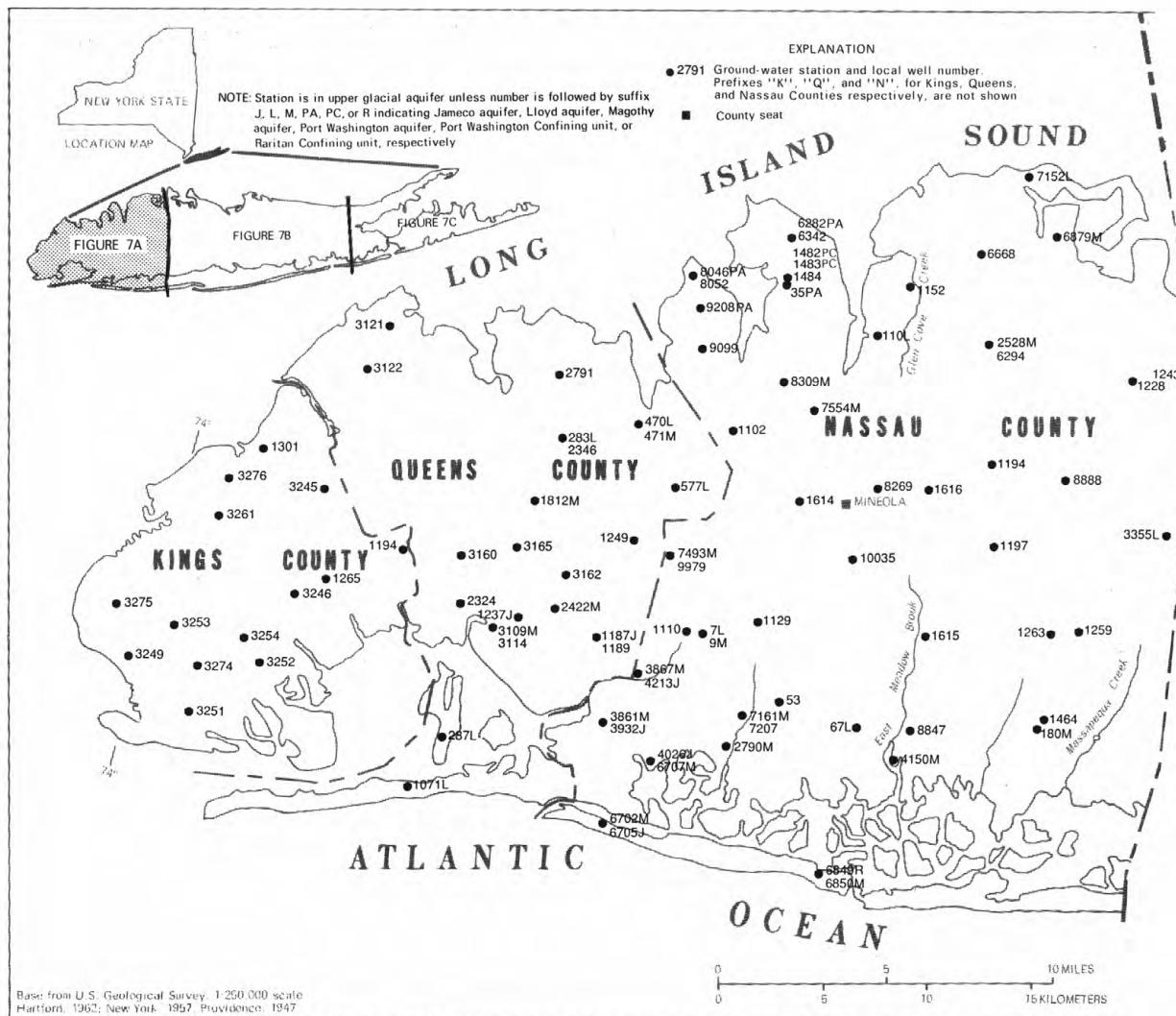


FIGURE 7A.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

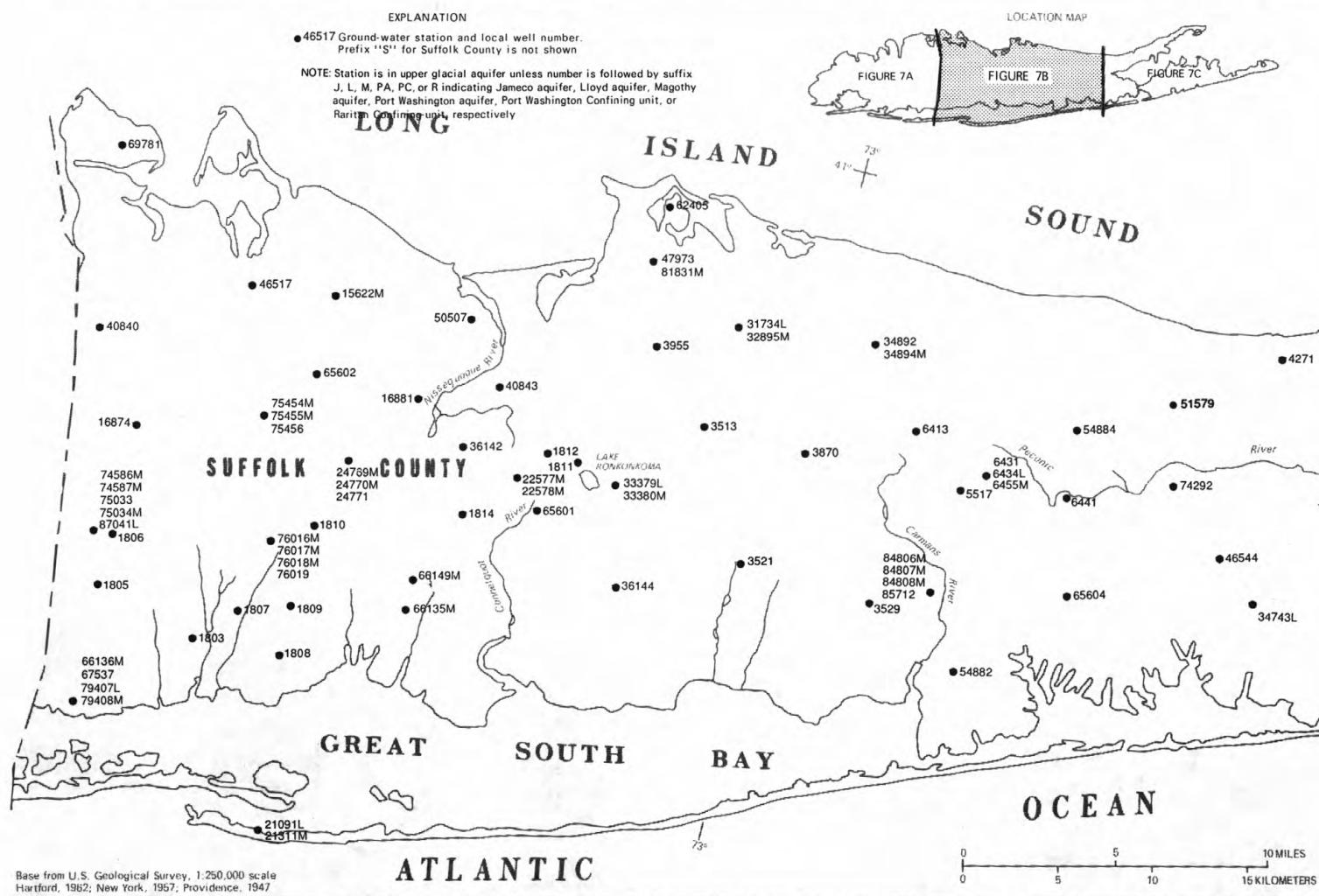


FIGURE 7B.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

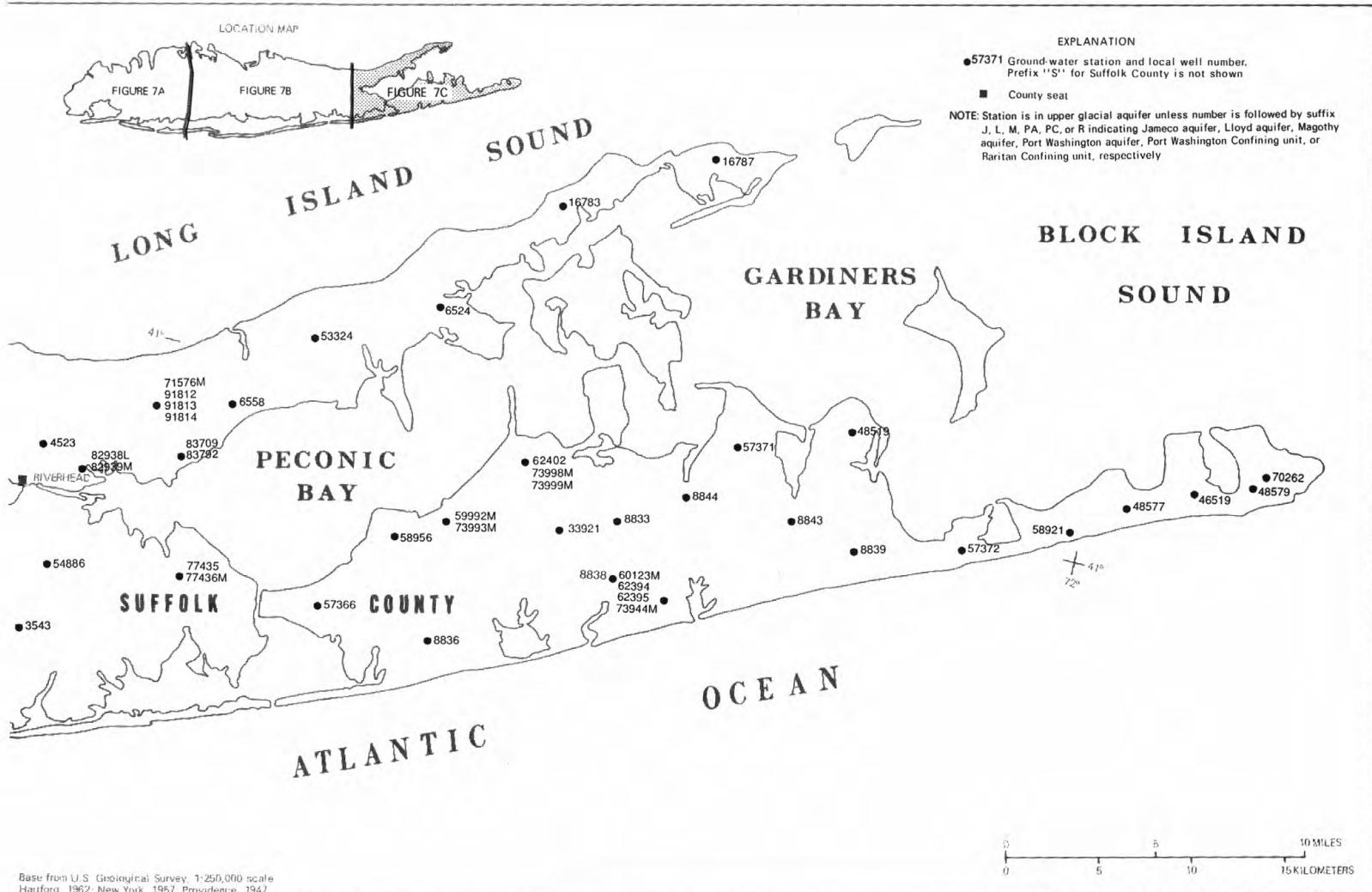


FIGURE 7C.-- LOCATION OF WATER-LEVEL DATA COLLECTION STATIONS

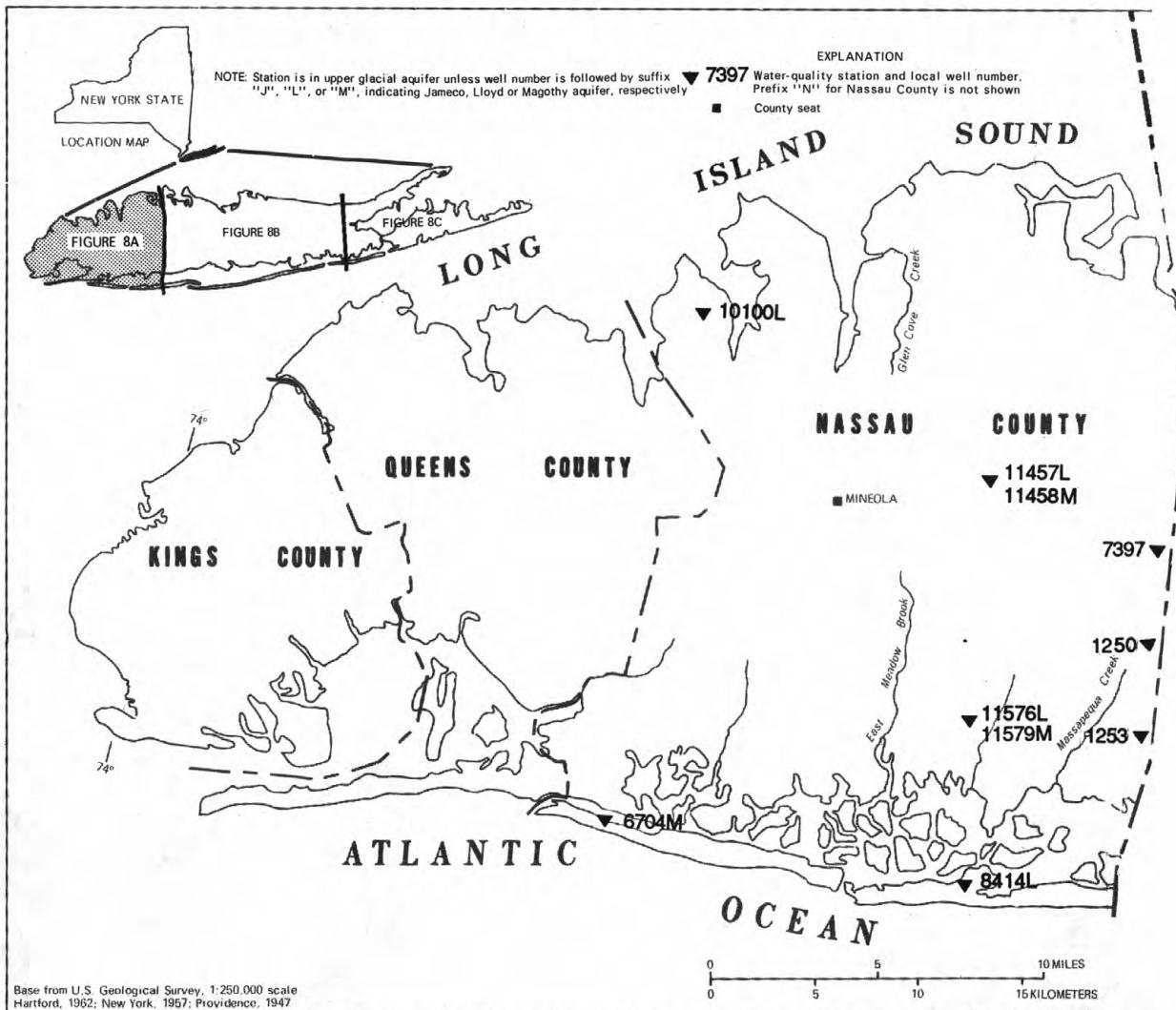


FIGURE 8A.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

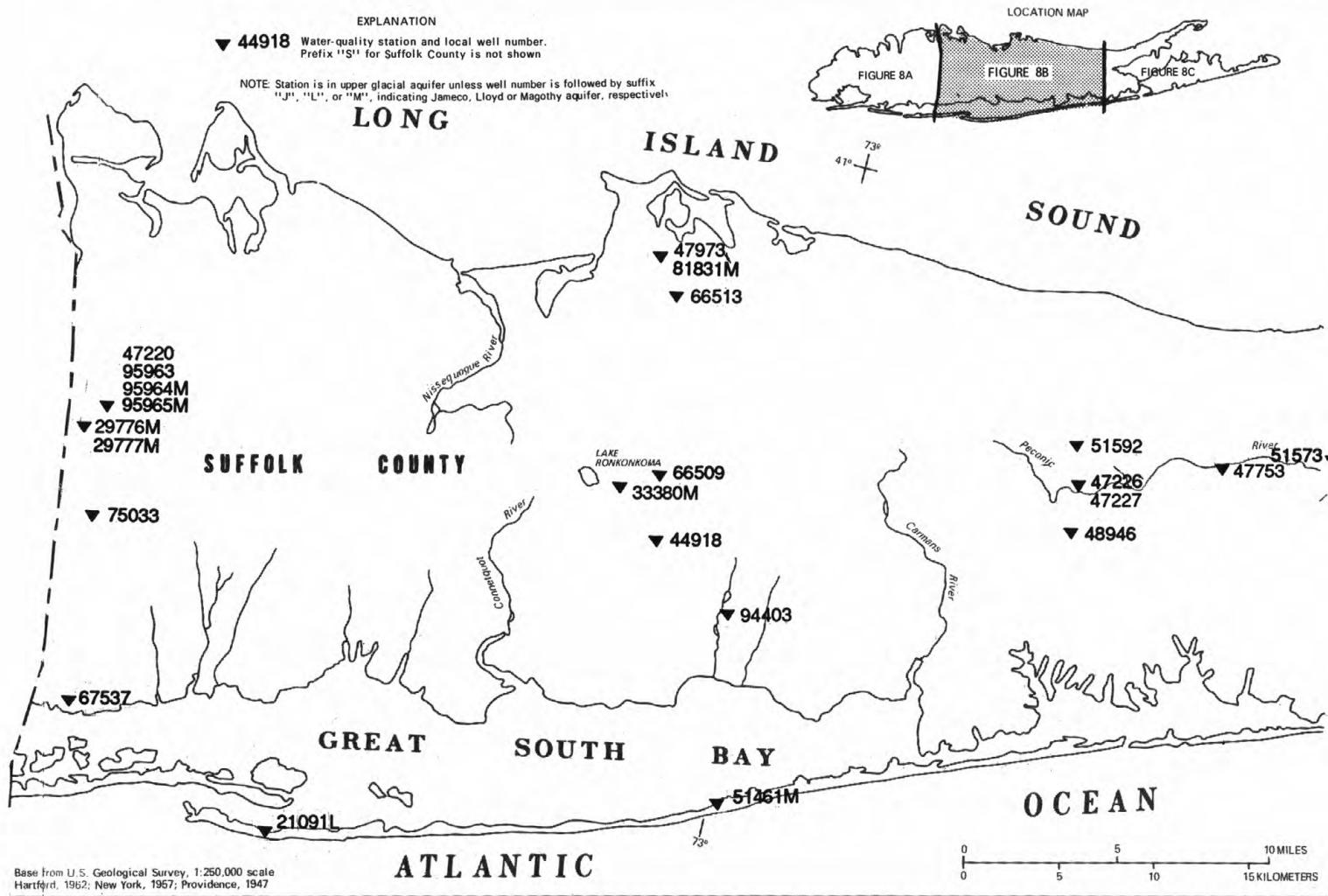


FIGURE 8B.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

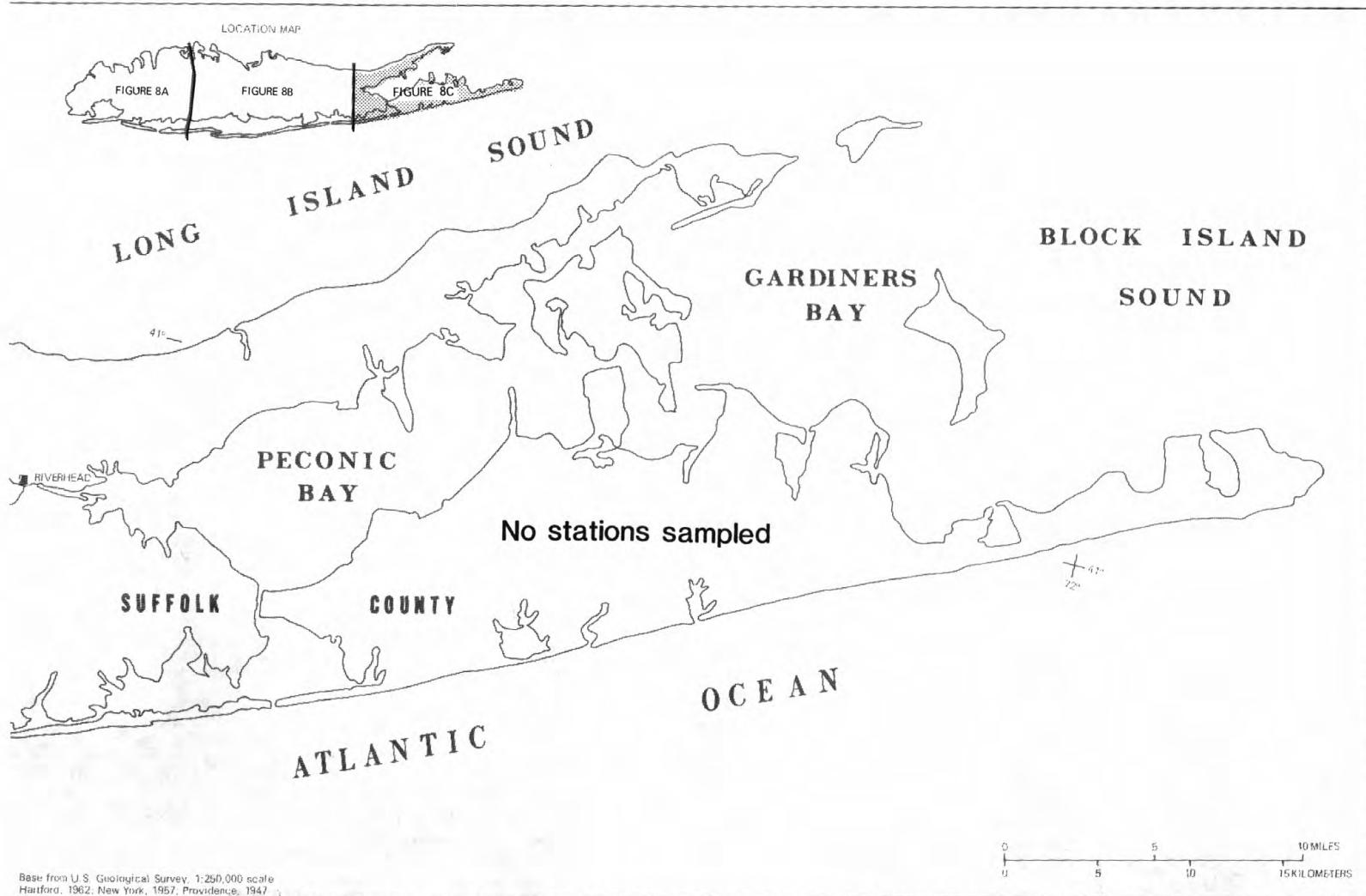


FIGURE 8C.-- LOCATION OF QUALITY OF GROUND-WATER DATA COLLECTION STATIONS

01302500 GLEN COVE CREEK AT GLEN COVE, NY

LOCATION.--Lat $40^{\circ}51'48''$, long $73^{\circ}38'05''$, Nassau County, Hydrologic Unit 02030201, on right bank just downstream from Glen Cove Road, at 8- by 10-foot concrete culvert in Pratt Park, one block west of post office, in Glen Cove. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as Cedar Swamp Creek.

REVISED RECORDS (WATER YEARS).--WSP 971: 1939-42. WDR NY-86-2: 1960 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 15.88 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1977, at datum 0.15 ft higher. Prior to June 17, 1965, at datum 0.19 ft higher.

REMARKS.--No estimated daily discharges. Records good except those above 200 ft³/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.0	4.0	6.3	5.0	5.7	5.9	5.9	6.9	4.8	4.4	5.4
2	4.9	4.9	4.0	6.1	4.9	15	5.6	5.7	5.2	4.7	4.4	5.4
3	5.1	4.7	9.2	5.7	4.9	23	5.5	5.6	12	4.7	4.4	5.5
4	5.1	4.7	32	5.3	4.9	33	5.5	5.5	15	4.6	11	5.4
5	4.8	4.8	7.1	5.1	4.9	11	5.5	5.6	6.0	6.5	4.8	6.0
6	4.8	4.5	6.9	5.1	6.1	9.6	5.3	45	5.3	4.6	4.3	5.3
7	4.8	4.4	5.0	4.9	6.7	11	5.3	10	5.0	4.8	4.6	5.3
8	4.8	4.4	4.9	4.8	5.2	7.4	5.3	6.8	5.0	4.5	4.7	5.3
9	18	4.4	4.7	9.4	5.0	7.0	5.3	6.3	4.9	4.8	34	5.3
10	5.3	19	4.8	5.5	4.9	6.8	5.1	6.3	4.9	5.1	16	5.3
11	5.3	6.8	4.7	5.1	4.7	6.4	4.9	5.7	9.7	4.9	7.7	5.3
12	16	5.5	4.5	22	4.7	5.7	4.9	5.7	10	4.8	6.7	5.2
13	41	5.1	4.5	8.1	4.8	5.4	6.8	5.7	5.4	6.2	5.8	5.3
14	13	4.9	4.4	5.9	10	7.5	5.7	5.5	5.0	5.1	5.2	7.0
15	10	4.7	9.8	5.6	5.4	8.2	8.9	5.4	5.1	4.9	5.6	5.3
16	8.7	4.7	9.9	29	5.1	5.7	5.4	5.4	5.1	4.6	4.7	5.3
17	7.4	5.7	5.3	16	5.1	5.5	10	5.3	4.9	4.7	4.5	5.4
18	13	4.7	13	9.0	6.4	9.8	6.2	5.2	4.8	4.9	4.5	5.3
19	11	4.5	5.7	7.8	9.1	7.0	5.2	5.2	9.0	5.0	83	13
20	6.3	4.4	5.0	7.3	6.4	5.5	5.1	5.2	5.2	4.7	52	8.8
21	5.8	4.4	6.5	9.4	5.4	5.3	45	5.1	4.8	4.7	33	6.2
22	5.5	4.4	6.1	6.4	5.2	5.3	13	5.2	4.7	4.7	16	5.7
23	34	6.1	6.8	6.1	5.0	9.7	8.6	5.1	4.5	12	12	6.0
24	34	8.2	16	5.9	4.9	6.5	8.6	5.0	4.6	7.0	16	5.6
25	11	4.6	6.9	5.3	5.1	5.6	7.6	5.0	4.8	12	7.3	50
26	8.9	4.4	6.5	5.1	7.5	5.3	7.1	4.9	4.8	14	6.6	26
27	7.7	4.4	6.0	5.1	7.3	5.4	6.7	14	4.7	6.5	6.3	9.9
28	7.2	4.4	8.3	5.2	5.5	5.5	6.3	15	4.8	5.5	6.2	7.9
29	6.4	4.4	10	5.0	---	5.8	6.3	9.0	4.9	5.5	5.9	6.6
30	5.6	4.2	12	6.3	---	10	7.0	8.3	4.7	4.8	5.9	6.3
31	5.3	---	9.1	8.2	---	5.7	---	17	---	4.5	5.6	---
TOTAL	323.7	161.1	241.6	242.0	160.1	268.3	233.4	250.6	181.7	180.1	393.1	250.3
MEAN	10.4	5.37	7.79	7.81	5.72	8.59	7.78	8.08	6.06	5.81	12.7	8.34
MAX	41	19	32	29	10	33	45	45	15	14	83	50
MIN	4.8	4.2	4.0	4.8	4.7	5.3	4.9	4.9	4.5	4.5	4.3	5.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	6.42	7.11	7.15	7.64	7.91	8.44	8.27	7.64	6.85	6.94	7.37	6.78
MAX	11.7	15.4	12.4	29.8	16.2	14.7	23.5	21.2	16.0	19.1	20.5	13.7
(WY)	1990	1978	1984	1979	1941	1980	1983	1989	1984	1984	1955	1975
MIN	3.18	3.23	3.48	3.27	3.48	4.32	3.90	3.87	3.07	3.14	3.25	2.84
(WY)	1986	1966	1966	1970	1967	1981	1966	1965	1971	1970	1965	1967

SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR				FOR 1991 WATER YEAR				WATER YEARS 1939 - 1991			
ANNUAL TOTAL		3153.3				2884.0				7.37			
ANNUAL MEAN		8.64				7.90				12.8			
HIGHEST ANNUAL MEAN										4.22			
LOWEST ANNUAL MEAN													
HIGHEST DAILY MEAN		83				83				455			
LOWEST DAILY MEAN		4.0				4.0				2.2			
ANNUAL SEVEN-DAY MINIMUM		4.3				4.3				2.3			
INSTANTANEOUS PEAK FLOW						464a				728a			
INSTANTANEOUS PEAK STAGE						5.24				7.12			
INSTANTANEOUS LOW FLOW						4.0b				2.1			
10 PERCENT EXCEEDS		13				12				11			
50 PERCENT EXCEEDS		5.9				5.5				5.9			
90 PERCENT EXCEEDS		4.8				4.7				3.5			

a From rating curve extended above 110 ft³/s on basis of step-backwater method.

b Also occurred on Dec 1-3.

STREAMS ON LONG ISLAND

01302500 GLEN COVE CREEK AT GLEN COVE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST- CUBIC FEET PER SECOND (00081)	SPE- CIFIC CON- DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)
OCT 29...	1020	6.5	258	6.9	12.0	772	9.3	20	6.5	19
JAN 02...	1255	6.1	282	6.9	10.0	776	10.0	21	7.1	21
APR 01...	1135	5.5	298	7.0	11.0	771	10.0	24	8.3	24
JUL 02...	0755	4.7	286	6.9	14.5	781	9.7	22	7.9	20
DATE	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY LAB AS CACO ₃ (90410)	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) (00950)	SILICA, DIS- SOLVED (MG/L) (00955)	NITRO- GEN NITRITE TOTAL (MG/L) (00615)	NITRO- GEN NITRITE TOTAL (MG/L) (00613)	NITRO- GEN NO ₂ +NO ₃ TOTAL (MG/L) (00630)	NITRO- GEN AMMONIA TOTAL (MG/L) (00610)
OCT 29...	2.3	42	21	33	<0.1	13	0.024	0.012	2.90	0.45
JAN 02...	2.3	44	29	38	0.1	14	0.006	0.012	3.40	0.21
APR 01...	2.4	45	30	46	<0.1	15	0.105	0.006	3.90	0.05
JUL 02...	2.2	40	28	37	0.1	16	0.008	0.007	4.20	0.04
DATE	NITRO- GEN AMMONIA DIS- SOLVED (MG/L) (00608)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) (00623)	PHOS- PHORUS DIS- TOTAL (MG/L) (00665)	PHOS- PHORUS ORTHO, TOTAL (MG/L) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) (00871)	IRON, TOTAL, RECOV- ERABLE (UG/L) (01045)	IRON, DIS- SOLVED (UG/L) (01046)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L) (01055)	METHY- LENE, BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 29...	0.46	0.80	0.90	0.067	0.044	0.031	560	340	60	0.08
JAN 02...	0.20	0.90	0.60	0.026	0.018	0.006	550	390	70	0.06
APR 01...	0.03	0.20	0.30	0.010	0.006	0.004	400	260	60	0.05
JUL 02...	0.05	0.50	0.50	0.019	0.004	0.005	250	220	40	0.04

STREAMS ON LONG ISLAND

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01303000 MILL NECK CREEK AT MILL NECK, NY

LOCATION.--Lat $40^{\circ}53'15''$, long $73^{\circ}33'51''$, Nassau County, Hydrologic Unit 02030201, on right bank at Beaver Lake, 30 ft upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi southwest of Bayville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 11.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1937 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and steel sheet-piling control. Datum of gage is 6.49 ft above National Geodetic Vertical Datum of 1929. Prior to June 23, 1965, at datum 0.06 ft higher.

REMARKS.--No estimated daily discharges. Records good. Slight regulation by ponds above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 32 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 24	0100	*56	*1.00	Aug. 19	1400	55	0.99
Mar. 4	0430	34	.76	Aug. 21	0100	43	.86

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.7	7.4	9.3	9.7	9.0	9.1	9.1	9.7	6.5	6.6	7.0
2	6.8	7.7	7.3	8.6	8.9	12	8.7	8.4	8.1	6.3	6.2	7.1
3	6.8	7.7	8.1	8.2	8.5	12	8.4	7.8	7.5	6.6	6.1	7.3
4	6.9	7.7	24	8.0	8.4	27	8.4	7.7	11	6.7	6.7	7.4
5	7.0	7.6	15	7.9	8.2	15	8.4	7.7	10	7.1	8.0	7.9
6	6.8	7.7	10	8.0	8.5	11	8.5	18	8.7	7.4	6.9	7.9
7	6.7	7.3	8.4	7.9	9.8	11	8.3	18	7.8	7.4	6.3	7.7
8	7.0	7.2	8.0	7.7	9.5	9.3	8.0	11	7.3	7.2	6.2	7.5
9	12	7.2	7.7	9.1	8.8	8.7	8.0	9.3	7.1	6.7	8.0	7.3
10	9.6	14	7.5	9.8	8.4	8.3	7.7	8.8	7.0	6.3	16	7.3
11	8.1	15	7.5	9.3	8.4	8.1	7.2	8.3	7.1	6.3	9.9	7.1
12	8.6	9.5	7.7	16	8.4	8.3	7.4	8.0	9.4	6.4	7.6	6.8
13	18	8.0	7.7	13	8.8	8.4	8.0	8.1	8.3	7.3	6.9	7.0
14	15	7.6	7.4	9.9	11	9.0	9.1	8.0	7.5	7.6	6.5	7.5
15	9.8	7.7	9.1	8.9	10	11	9.8	7.9	7.2	7.1	7.6	7.8
18	7.8	7.7	12	13	8.9	9.9	9.9	7.6	7.0	6.5	7.3	7.9
17	7.4	7.8	9.7	18	8.4	9.0	9.9	7.4	7.0	6.0	6.9	7.6
18	8.2	8.0	11	12	8.4	9.6	11	7.3	7.0	5.9	6.4	7.3
19	13	7.7	10	10	10	10	9.2	7.3	8.2	5.9	29	7.6
20	9.2	7.5	8.6	9.3	10	9.2	8.4	7.2	9.1	6.0	27	10
21	8.0	7.4	8.4	9.8	9.3	8.6	19	7.3	8.0	5.9	30	8.5
22	7.7	7.5	9.2	11	8.4	8.4	19	7.4	7.4	6.0	15	7.9
23	14	8.4	9.0	9.4	7.8	9.4	12	7.3	7.2	6.4	11	7.8
24	35	10	12	8.6	7.8	11	10	7.4	7.1	7.5	10	7.8
25	15	8.6	9.8	8.2	7.7	9.7	9.6	7.3	7.0	8.3	9.4	20
26	10	7.4	8.4	8.0	8.9	9.0	8.9	7.1	6.7	9.4	8.4	22
27	8.5	7.6	7.8	8.0	9.9	8.7	8.4	7.2	6.7	10	8.3	13
28	8.0	8.7	10	8.6	8.9	8.7	8.1	13	6.8	8.1	8.0	9.0
29	7.6	8.3	9.9	8.4	---	8.4	8.3	9.3	6.6	7.5	8.0	8.1
30	7.6	7.7	11	8.6	---	10	9.0	7.9	6.6	7.3	7.8	7.5
31	7.7	---	11	11	---	9.6	8.7	---	6.9	7.6	---	
TOTAL	310.8	249.9	300.6	303.5	249.7	317.3	285.7	272.8	231.9	216.5	315.6	262.6
MEAN	10.0	8.33	9.70	9.79	8.92	10.2	9.52	8.80	7.73	6.98	10.2	8.75
MAX	35	15	24	18	11	27	19	18	11	10	30	22
MIN	6.6	7.2	7.3	7.7	7.7	8.1	7.2	7.1	6.6	5.9	6.1	6.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1991, BY WATER YEAR (WY)

MEAN	8.40	9.27	9.25	9.21	9.48	10.0	9.80	9.37	8.84	8.53	8.61	8.42
MAX	12.9	12.3	14.5	16.4	13.4	13.8	14.9	13.9	14.1	17.9	15.7	13.3
(WY)	1956	1978	1974	1979	1979	1953	1980	1984	1984	1984	1955	1960
MIN	5.22	5.48	5.20	5.36	5.66	6.59	5.19	5.45	4.53	4.10	4.54	4.64
(WY)	1966	1967	1967	1967	1968	1966	1966	1965	1966	1966	1966	1965

STREAMS ON LONG ISLAND

01303000 MILL NECK CREEK AT MILL NECK, NY--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1937 - 1991
ANNUAL TOTAL	3578.2	3316.9	
ANNUAL MEAN	9.80	9.09	9.09
HIGHEST ANNUAL MEAN			12.1 1984
LOWEST ANNUAL MEAN			5.59 1966
HIGHEST DAILY MEAN	38 Aug 24	35 Oct 24	105 Aug 12 1955
LOWEST DAILY MEAN	6.6 Oct 3	5.9 Jul 18	3.6 Sep 11 1965
ANNUAL SEVEN-DAY MINIMUM	6.8 Oct 2	6.0 Jul 17	3.7 Oct 7 1966
INSTANTANEOUS PEAK FLOW		58 Oct 24	137a Sep 12 1960
INSTANTANEOUS PEAK STAGE		1.00 Oct 24	4.85b Sep 21 1938
INSTANTANEOUS LOW FLOW		5.3 Jul 23	.09c Dec 11 1941
10 PERCENT EXCEEDS	13	11	12
50 PERCENT EXCEEDS	8.8	8.2	8.5
90 PERCENT EXCEEDS	7.4	6.9	5.8

a From rating curve extended above 70 ft³/s.

b From hurricane wave.

c Result of freezeup.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE PER FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	
OCT 29...	0840	7.7	133	7.4	16.5	772	11.3	9.6	3.7	9.3	
JAN 02...	1135	8.4	150	7.2	3.5	777	13.1	11	4.1	12	
APR 01...	1025	8.8	174	7.7	8.5	771	12.0	14	4.8	16	
JUL 01...	1305	6.6	155	9.2	27.5	769	10.9	12	5.0	12	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY LAB SOLVED (MG/L) CACO ₃ (90410)	SULFATE DIS- SOLVED (MG/L) AS SO ₄ (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	SILICA, DIS- SOLVED (MG/L) AS SI02 (00955)	NITRO- GEN, DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, DIS- SOLVED (MG/L) AS N (00630)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L) AS N (00610)	
OCT 29...	1.8	26	14	14	<0.1	8.3	0.020	0.012	0.90	0.12	
JAN 02...	1.3	24	18	20	<0.1	10	0.012	0.013	1.60	0.14	
APR 01...	1.4	26	21	28	<0.1	7.3	0.019	0.016	1.30	0.01	
JUL 01...	1.5	33	19	19	0.1	9.0	0.007	0.005	<0.05	<0.01	
DATE		NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) AS N (00608)	NITRO- GEN AM- MONIA + ORGANIC DIS. TOTAL (MG/L) AS N (00625)	NITRO- GEN AM- MONIA + ORGANIC DIS. TOTAL (MG/L) AS N (00823)	PHOS- PHORUS TOTAL (MG/L) AS P (00665)	PHOS- PHORUS TOTAL (MG/L) AS P (70507)	PHOS- PHORUS TOTAL (MG/L) AS P (00871)	IRON, DIS- SOLVED (UG/L) AS FE (01045)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L) AS MN (01055)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 29...	0.12	0.50	0.40	0.028	0.015	0.009	440	160	20	0.04	
JAN 02...	0.15	0.40	0.50	0.027	0.005	<0.001	250	100	20	0.04	
APR 01...	<0.01	0.60	0.20	0.017	0.004	<0.001	420	100	30	0.03	
JUL 01...	0.02	0.90	0.40	0.084	0.006	<0.001	470	160	50	0.04	

STREAMS ON LONG ISLAND

41

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY

LOCATION.--Lat $40^{\circ}51'28''$ long $73^{\circ}27'50''$, Nassau County, Hydrologic Unit 02030201, on left bank 270 ft upstream from State Highway 25A, at Cold Spring Harbor State Fish Hatchery, and 1.0 mi southwest of village of Cold Spring Harbor.

DRAINAGE AREA.--About 7.3 mi².

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR NY-81-2: 1954 (M), 1958 (M), 1962-63 (M), 1971 (M), 1978-79, 1980 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good except those above 100 ft³/s, which are fair. Flow occasionally regulated at outlet of pond 40 ft above station. Diversion from this pond by New York State Fish Hatchery bypasses station, except during the 1979 water year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.1	3.0	3.8	3.4	3.5	3.7	4.0	3.7	3.2	2.6	2.7
2	3.0	3.2	3.0	3.5	3.2	4.4	3.7	3.9	3.5	3.2	2.5	2.7
3	3.1	3.4	3.2	3.5	3.2	4.4	3.9	3.7	3.5	3.2	2.6	2.6
4	3.2	3.0	9.0	3.5	3.2	9.3	4.0	3.6	4.9	3.2	2.7	2.6
5	2.8	3.0	5.3	3.3	3.2	4.9	4.0	3.5	4.3	3.3	3.5	2.8
6	2.7	3.2	4.0	3.5	3.3	4.0	3.9	8.6	3.8	3.5	3.0	2.8
7	2.8	3.0	3.5	3.5	3.8	4.2	4.0	7.4	3.5	3.5	2.7	2.7
8	3.1	3.0	3.5	3.2	3.8	3.8	4.0	4.8	3.5	3.4	2.6	2.6
9	6.8	3.0	3.4	3.9	3.5	3.5	4.0	4.1	3.4	3.2	2.6	2.6
10	4.8	5.4	3.2	4.4	3.4	3.5	4.0	4.0	3.3	3.0	4.8	2.3
11	3.9	5.8	3.2	4.0	3.2	3.2	3.7	3.9	3.5	3.0	3.6	2.5
12	3.3	3.8	3.2	7.1	3.1	3.3	3.7	3.7	4.5	3.0	2.9	2.5
13	7.6	3.2	3.2	5.2	3.2	3.5	3.8	3.7	4.0	3.2	2.7	2.5
14	7.0	3.0	3.2	4.1	4.0	3.7	4.2	3.7	3.9	3.5	2.5	2.7
15	4.2	3.1	3.6	3.8	4.0	4.5	4.5	4.0	3.5	3.2	2.8	2.8
16	3.3	3.2	4.8	5.1	3.4	4.2	4.7	3.7	3.6	2.8	2.8	2.8
17	3.0	3.2	4.1	6.5	3.2	3.8	4.7	3.8	3.5	2.6	2.5	2.6
18	3.3	3.3	4.2	4.2	3.3	4.2	4.5	3.6	3.5	2.6	2.4	2.6
19	5.3	3.0	4.1	3.7	3.9	4.5	4.2	3.5	3.7	2.6	32	2.6
20	3.9	3.0	3.6	3.5	3.9	3.9	4.1	3.5	4.1	2.6	5.7	3.1
21	3.2	3.1	3.5	3.8	3.6	3.7	7.4	3.5	3.6	2.6	6.0	2.8
22	3.0	3.2	3.9	3.6	3.4	3.5	6.9	3.5	3.5	2.6	4.3	2.4
23	6.6	3.5	3.7	3.5	3.1	3.9	4.7	3.5	3.5	3.1	3.1	2.4
24	20	4.1	4.4	3.3	3.2	4.3	4.3	3.4	3.5	4.6	3.8	3.1
25	5.1	3.8	4.0	3.2	3.2	4.1	4.1	3.6	3.2	3.9	3.7	4.6
26	3.8	3.5	3.5	3.2	3.7	3.8	4.0	3.5	3.2	3.6	3.0	6.4
27	3.3	3.5	3.2	3.2	4.1	3.7	3.8	3.5	3.2	3.4	2.9	4.3
28	3.3	3.4	4.1	3.4	3.6	3.7	3.7	5.4	3.2	2.9	2.7	3.2
29	3.2	3.2	4.0	3.4	---	3.8	3.8	4.3	3.2	2.7	2.6	2.8
30	3.0	3.1	4.1	3.5	---	4.2	3.9	3.7	3.2	2.9	2.6	2.7
31	3.0	---	4.1	3.9	---	4.0	---	3.7	---	2.7	2.7	---
TOTAL	137.8	102.3	120.8	121.3	97.1	127.0	127.9	128.3	108.5	96.8	126.9	87.8
MEAN	4.45	3.41	3.90	3.91	3.47	4.10	4.26	4.07	3.62	3.12	4.09	2.93
MAX	20	5.8	9.0	7.1	4.1	9.3	7.4	8.6	4.9	4.6	32	6.4
MIN	2.7	3.0	3.0	3.2	3.1	3.2	3.7	3.4	3.2	2.6	2.4	2.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1991, BY WATER YEAR (WY)

MEAN	2.49	2.71	2.65	2.85	2.94	2.92	2.92	2.79	2.67	2.65	2.76	2.53
MAX	6.02	6.35	5.95	9.88	6.85	6.56	7.25	6.60	6.37	6.17	6.11	6.35
(WY)	1980	1980	1980	1979	1979	1979	1980	1979	1979	1979	1979	1979
MIN	.38	.29	.29	.27	.29	.46	.45	.41	.67	.63	.59	.63
(WY)	1966	1967	1967	1967	1967	1967	1966	1967	1967	1968	1988	1965

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1950 - 1991
ANNUAL TOTAL	1341.5	1380.5	
ANNUAL MEAN	3.68	3.78	2.71
HIGHEST ANNUAL MEAN			6.43
LOWEST ANNUAL MEAN			.51
HIGHEST DAILY MEAN	20	Oct 24	94
LOWEST DAILY MEAN	2.5	Feb 14	.18
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 16	.22
INSTANTANEOUS PEAK FLOW		117a Aug 19	181ab Jan 21 1979
INSTANTANEOUS PEAK STAGE		1.99 Dec 4	5.34c Aug 31 1954
INSTANTANEOUS LOW FLOW		1.4bd Jul 31	.20 Jan 24 1967
10 PERCENT EXCEEDS	4.7	4.5	4.5
50 PERCENT EXCEEDS	3.2	3.5	2.5
90 PERCENT EXCEEDS	2.8	2.7	.86

a From rating curve extended above 70 ft³/s.

b Result of regulation.

c Backwater from high tide.

d Also occurred on Aug 17, 18 and Sep 10.

STREAMS ON LONG ISLAND

01304000 NISSEQUOQUE RIVER NEAR SMITHTOWN, NY

(National stream-quality accounting network station)

LOCATION.--Lat $40^{\circ}50'58''$, long $73^{\circ}13'29''$, Suffolk County, Hydrologic Unit 02030201, on left bank 0.5 mi downstream from New Mill Pond, 1.0 mi southwest of Smithtown, and 1.5 mi southwest of village of Smithtown Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 27 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records excellent. Occasional regulation caused by cleaning of fish screens and trash racks at outlets of New Mill Pond on main stream and ponds on tributaries above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	62	55	61	62	59	63	63	51	44	42	43
2	46	62	55	59	61	72	61	67	51	44	41	43
3	46	60	57	58	61	78	60	63	51	44	41	43
4	46	61	80	58	61	101	60	60	58	44	42	43
5	46	60	75	57	61	89	60	59	55	46	45	46
6	45	58	66	58	61	75	60	68	53	47	43	46
7	45	57	62	57	63	73	60	73	51	48	42	44
8	45	57	65	57	63	66	60	65	50	46	40	43
9	70	56	62	61	62	65	60	62	49	44	43	42
10	65	64	52	65	61	63	58	61	49	43	58	42
11	57	69	54	62	60	61	56	60	49	42	52	42
12	54	62	55	90	59	61	55	59	53	42	46	41
13	157	60	55	84	59	61	56	58	52	44	44	41
14	219	58	55	71	65	63	59	58	50	44	42	42
15	122	58	60	65	64	69	60	60	49	43	45	42
16	88	58	71	76	61	68	61	58	49	43	44	42
17	74	58	85	90	60	64	61	57	48	42	43	42
18	71	57	88	82	59	67	63	57	48	42	43	41
19	96	57	74	72	63	72	60	56	54	42	122	43
20	84	57	63	66	62	66	57	55	60	41	135	49
21	71	57	60	66	61	63	79	55	54	40	101	46
22	65	57	81	66	59	62	84	54	51	41	73	43
23	76	57	61	63	58	65	71	54	49	46	60	43
24	125	60	69	63	58	72	64	54	49	53	55	43
25	97	60	65	62	58	67	62	53	48	49	51	48
26	78	58	62	61	60	64	61	52	47	47	49	67
27	70	57	60	61	61	63	60	52	47	46	47	59
28	66	57	62	62	60	62	59	55	46	44	46	50
29	64	57	62	61	---	62	58	53	44	44	45	46
30	63	55	64	62	---	65	62	39	44	43	45	44
31	61	---	63	64	---	64	---	48	---	43	44	---
TOTAL	2358	1766	1978	2040	1703	2102	1850	1788	1509	1371	1869	1349
MEAN	76.1	58.9	63.8	65.8	60.8	67.8	61.7	57.7	50.3	44.2	53.8	45.0
MAX	219	69	88	90	65	101	84	73	60	53	135	67
MIN	45	55	52	57	58	59	55	39	44	40	40	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	40.5	42.1	43.6	44.7	46.7	47.9	48.0	42.9	40.1	39.7	38.3
MAX	76.1	70.0	63.8	75.5	68.2	70.1	73.7	63.0	69.2	70.4	59.0
(WY)	1991	1956	1991	1979	1979	1979	1983	1989	1984	1984	1984
MIN	23.5	24.3	24.0	23.3	23.4	29.2	27.3	30.8	25.6	22.4	22.1
(WY)	1967	1987	1987	1967	1987	1988	1966	1986	1986	1986	1986

SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR				FOR 1991 WATER YEAR				WATER YEARS 1944 - 1991			
ANNUAL TOTAL		20988				21483				42.6			
ANNUAL MEAN		57.5				58.9				58.9			
HIGHEST ANNUAL MEAN										1991			
LOWEST ANNUAL MEAN										1986			
HIGHEST DAILY MEAN		219				219				334			
LOWEST DAILY MEAN		37				39				19			
ANNUAL SEVEN-DAY MINIMUM		44				42				21			
INSTANTANEOUS PEAK FLOW						271				952a			
INSTANTANEOUS PEAK STAGE						1.71				3.22			
INSTANTANEOUS LOW FLOW						26b				16c			
10 PERCENT EXCEEDS		66				72				56			
50 PERCENT EXCEEDS		56				58				41			
90 PERCENT EXCEEDS		47				43				31			

a Result of dam failure, from rating curve extended above 600 ft³.

b Result of regulation.

c Also occurred on Jun 6 1987.

STREAMS ON LONG ISLAND

43

01304000 NISSEQUOQUE RIVER NEAR SMITHSTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1978 to September 1981.

WATER TEMPERATURES: January 1978 to September 1981.

COOPERATION.--Some water-quality analyses for this station were collected and analyzed by Suffolk County Department of Health Services. They are identified in the table by an asterisk (*).

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE FIELD (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT) (00301)	SOLIDS, RESIDUE AT 180 DEG. C (00300)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL 0.45 UM-MF (COLS./ 100 ML) (31616)	STREP- TOCOCCI FECAL KF AGAR (COLS. PER 100 ML) (31673)
NOV 15...	0900	58	135	6.8	6.0	777	12.2	96	84	1.0	K13	26
DEC * 10...	1445	52	152	6.0	6.5	--	10.9	--	--	--	--	--
FEB 06...	0820	60	138	6.9	8.5	775	11.7	98	82	1.1	K8	K6
APR * 08...	1440	60	97	6.2	19.0	--	8.0	--	--	--	--	--
* 16...	1055	61	143	7.1	12.0	765	11.1	102	--	--	K15	K2
MAY 07...	0920	75	142	7.1	15.0	770	9.0	89	67	1.3	52	K13
JUL * 08...	1340	45	98	5.8	18.5	--	7.4	--	--	--	--	--
AUG 14...	1010	42	126	7.0	20.5	761	9.8	109	69	0.5	42	37

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 15...	8.1	2.7	14	1.6	20	12	19	<0.1	9.3	<0.01	2.1	0.07
DEC * 10...	7.3	2.9	13	1.6	--	8.9	19	--	--	--	--	0.06
FEB 06...	8.5	2.8	14	1.5	18	12	20	<0.1	7.9	0.02	2.4	0.05
APR * 08...	8.5	3.3	15	1.7	--	14	22	--	--	--	--	0.05
* 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 07...	8.4	2.7	14	1.6	15	11	18	<0.1	7.8	0.02	1.7	0.04
JUL * 08...	7.2	3.0	13	1.5	--	12	18	--	--	--	--	<0.02
AUG 14...	7.5	2.6	12	1.1	18	9.3	16	<0.1	5.7	0.01	1.5	0.05

K Results based on colony counts outside the acceptable range (non-ideal colony count).

STREAMS ON LONG ISLAND
01304000 NISSEQUOGUE RIVER NEAR SMITHSTOWN, NY--Continued

DATE	NITRO-GEN AM- MONIA + ORGANIC DIS- TOTAL (MG/L AS N) (00608)	NITRO-GEN AM- MONIA + ORGANIC DIS- TOTAL (MG/L AS N) (00625)	PHOS- PHORUS DIS- TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
NOV 15...	0.04	0.50	<0.01	<0.01	<0.01	20	10	<1	18	<0.5	<1	<1.0
DEC * 10...	--	0.53	<0.01	<0.01	--	--	20	<20	<50	<10	--	<10
FEB 06...	0.07	0.30	<0.01	<0.01	<0.01	30	<10	<1	17	<0.5	<1	<1.0
APR * 08...	--	0.66	<0.01	--	--	--	<50	<20	<50	<10	--	<10
MAY 16...	--	--	--	--	--	150	--	--	--	--	<1	--
MAY 07...	0.04	0.40	0.02	<0.01	<0.01	60	<10	<1	10	<0.5	<1	<1.0
JUL * 08...	--	--	--	--	--	--	<50	<20	<50	<10	--	<20
AUG 14...	0.05	0.40	<0.01	<0.01	0.01	50	<10	<1	16	<0.5	<1	<1.0
DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01051)	LITHIUM DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV 15...	<1	<3	3	1	170	64	1	1	<4	30	27	
DEC * 10...	<20	<20	--	<10	70	49	--	<20	--	17	18	
FEB 06...	<1	<3	7	<1	190	65	2	<1	<4	220	210	
APR * 08...	<20	<20	--	<10	200	80	--	<20	--	90	60	
MAY 16...	--	--	5	--	240	--	2	--	--	200	--	
MAY 07...	4	<3	3	1	370	110	3	<1	<4	230	90	
JUL * 08...	<20	<20	--	<20	130	60	--	<20	--	60	40	
AUG 14...	<1	<3	3	1	170	30	--	<1	<4	80	31	

STREAMS ON LONG ISLAND

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01304000 NISSEQUOQUE RIVER NEAR SMITHTOWN, NY--Continued

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NT) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	
NOV 15...	<0.10	0.3	<10	1	1	<1	<1.0	57	<6	<10	8	
DEC	--	--	<20	--	<20	<20	<10	60	<20	--	17	
* 10...	--	--	<20	--	<20	<20	<10	70	<20	--	20	
FEB 06...	<0.10	<0.1	<10	35	2	<1	<1.0	58	<6	<10	12	
APR * 08...	--	--	<20	--	<20	<20	<10	--	--	--	20	
16...	<0.10	--	--	4	--	--	--	--	--	<10	--	
MAY 07...	<0.10	<0.1	<10	2	1	<1	<1.0	58	<6	10	13	
JUL * 08...	--	--	<20	--	<20	<20	<20	60	<20	--	<20	
AUG 14...	<0.10	<0.1	<10	--	<1	<1	<1.0	56	<6	20	<3	

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (80154)	SED- IMENT, DIS- CHARGE, SUS- PENDED (80155)	SED. SUSP. DIAM. % FINER .062 MM (70331)
NOV 15...	0900	58	1	0.16	80
FEB 06...	0820	60	2	0.32	63
APR 16...	1055	61	3	0.49	--
MAY 07...	0920	75	2	0.41	89
AUG 14...	1010	42	5	0.57	48

STREAMS ON LONG ISLAND

01304500 PECONIC RIVER AT RIVERHEAD, NY

LOCATION.--Lat $40^{\circ}54'49''$ long $72^{\circ}41'14''$ Suffolk County, Hydrologic Unit 02030202, on right bank 200 ft downstream from Long Island Lighting Co. dam, 0.4 mi west of Riverhead, and 1.2 mi upstream from outlet of Sweezy Pond. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 75 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by ponds above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	32	53	51	45	58	65	46	26	25	40
2	34	42	32	52	61	46	57	66	43	26	24	38
3	31	41	32	51	58	48	58	66	42	26	23	36
4	26	40	40	49	56	65	54	64	45	26	24	35
5	24	39	42	49	56	66	53	61	44	26	25	40
6	23	40	41	48	52	66	52	61	43	27	23	42
7	25	38	40	47	51	66	52	61	41	28	23	42
8	28	38	39	45	52	65	50	60	40	27	23	42
9	29	37	38	48	52	64	50	57	39	26	24	41
10	28	40	38	52	50	63	49	57	38	24	33	39
11	30	43	37	51	50	62	48	56	37	24	31	38
12	31	41	36	67	48	60	43	56	39	24	29	35
13	34	38	36	69	47	59	40	53	39	25	28	34
14	40	37	35	66	52	59	42	43	37	34	28	33
15	40	37	36	60	53	61	48	50	36	33	29	32
16	39	37	43	86	51	60	49	53	35	24	29	32
17	37	37	42	77	49	59	49	54	34	24	27	31
18	38	37	43	70	49	60	52	54	34	21	26	30
19	48	35	42	77	51	64	51	52	38	24	52	31
20	47	35	40	72	52	63	50	50	36	24	66	33
21	47	34	40	69	50	65	61	49	34	21	88	32
22	50	34	42	71	50	67	72	49	34	20	68	30
23	48	34	42	66	47	66	75	47	34	22	65	30
24	58	35	52	65	45	68	71	47	33	26	86	29
25	56	34	52	55	45	66	70	47	32	26	63	32
26	43	34	50	64	46	64	68	44	32	27	59	40
27	44	34	54	59	48	62	67	43	31	28	55	42
28	46	34	67	60	46	81	65	45	30	28	49	41
29	45	34	55	59	---	59	62	44	26	28	44	42
30	44	33	54	59	---	60	64	44	25	27	43	41
31	43	---	54	60	---	59	---	46	---	26	43	---
TOTAL	1190	1115	1326	1856	1418	1896	1674	1644	1095	798	1235	1083
MEAN	38.4	37.2	42.8	59.9	50.6	61.2	55.8	53.0	36.5	25.7	39.8	36.1
MAX	58	43	87	77	61	68	75	66	46	34	88	42
MIN	23	33	32	45	45	45	40	43	25	20	23	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1991, BY WATER YEAR (WY)

MEAN	26.7	31.1	34.6	39.1	42.8	48.4	51.5	46.9	40.5	31.0	29.0	25.7
MAX	69.6	80.6	63.8	106	105	109	96.4	96.3	104	84.7	83.4	62.6
(WY)	1990	1990	1984	1979	1979	1979	1984	1958	1984	1984	1989	1954
MIN	12.5	13.3	13.2	14.7	16.4	22.8	17.1	18.7	17.1	13.5	10.8	11.1
(WY)	1967	1987	1987	1986	1987	1986	1986	1986	1986	1986	1986	1986

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1942 - 1991

ANNUAL TOTAL	19474	16330	37.3
ANNUAL MEAN	53.4	44.7	67.9
HIGHEST ANNUAL MEAN			1984
LOWEST ANNUAL MEAN			1966
HIGHEST DAILY MEAN	81	Feb 3	16.1
LOWEST DAILY MEAN	23	Oct 6	3.7
ANNUAL SEVEN-DAY MINIMUM	26	Oct 4	5.8
INSTANTANEOUS PEAK FLOW		128 Aug 21	225a Jan 30 1978
INSTANTANEOUS PEAK STAGE		.93 Aug 21	2.09b Mar 29 1984
INSTANTANEOUS LOW FLOW		15a Jul 18	1.4c Jan 9 1966
10 PERCENT EXCEEDS	72	65	63
50 PERCENT EXCEEDS	55	43	33
90 PERCENT EXCEEDS	35	26	17

a Result of regulation.

b Backwater from high tide.

c Also occurred on Jan 31 1987, Dec 6 1989, Jan 27 1972 and Dec 10, 11 1977. Result of freezeup.

01304500 PECONIC RIVER AT RIVERHEAD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1975 to September 1980.

WATER TEMPERATURES: June 1975 to September 1980.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services, except for those identified by asterisk (*) which were collected and analyzed by U.S.G.S.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
OCT 31...	1135	43	98	6.8	9.5	10.9	5.7	2.0	8.2	1.6	--
DEC 11...	0830	37	119 91	6.0 6.9	2.5 3.0	13.3 12.2	4.7 6.2	2.2 2.1	7.4 8.5	1.2 1.5	-- 11
* APR 08...	0900	50	75	5.7	16.5	9.5	6.1	2.1	8.6	1.5	--
JUL 01...	1000	27	77	6.2	23.0	5.8	6.5	2.3	9.5	1.4	--
SEP 30...	0920	42	77	5.1	14.0	9.9	6.6	2.2	9.4	1.7	--
DATE	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	NITRO- GEN, NITRATE TOTAL (MG/L) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L) (00615)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) (00623)	PHOS- PHORUS TOTAL (MG/L) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L) (70507)
OCT 31...	9.8	14	0.188	0.012	0.20	0.10	0.50	0.40	0.097	--	0.067
DEC 11...	14	14	--	--	0.35	0.03	0.39	0.31	0.071	0.035	0.039
* APR 08...	13	15	--	<0.01	0.40	0.07	0.70	0.30	0.056	--	0.042
JUL 01...	9.3	15	--	--	<0.20	<0.02	0.70	--	0.058	--	0.007
SEP 30...	11	16	--	--	<0.02	<0.04	--	--	--	--	0.006
DATE	ALUM- INUM, DIS- SOLVED (UG/L) (01106)	ANTI- MONY, DIS- SOLVED (UG/L) (01095)	ARSENIC DIS- SOLVED (UG/L) (01000)	BARIUM, DIS- SOLVED (UG/L) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L) (01010)	CADMIUM DIS- SOLVED (UG/L) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L) (01030)	COBALT, DIS- SOLVED (UG/L) (01035)	COPPER, DIS- SOLVED (UG/L) (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L) (01045)	IRON, DIS- SOLVED (UG/L) (01046)
OCT 31...	--	--	--	--	--	--	--	--	--	870	450
DEC 11...	<20	<20	<20	<50	<10	<10	<20	<20	<10	400	280
* APR 08...	--	--	--	--	--	--	--	--	--	510	260
JUL 01...	<50	<20	<20	<50	<10	<10	<20	<20	<10	880	420
SEP 30...	<50	<20	<20	<50	<10	<20	<20	<20	<20	350	310
DATE	LEAD, DIS- SOLVED (UG/L) (01049)	MANGA- NESE, TOTAL, DIS- SOLVED (UG/L) (01055)	MANGA- NESE, DIS- SOLVED (UG/L) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L) (01060)	NICKEL, DIS- SOLVED (UG/L) (01065)	SELE- NIUM, DIS- SOLVED (UG/L) (01145)	STRON- TIUM, DIS- SOLVED (UG/L) (01080)	TI- ANIUM, DIS- SOLVED (UG/L) (01150)	VANA- DIUM, DIS- SOLVED (UG/L) (01085)	ZINC, DIS- SOLVED (UG/L) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 31...	--	40	46	--	--	--	--	--	--	--	0.02
DEC 11...	<20	60	80	<20	<20	<20	20	<20	<20	<20	<0.02
* APR 08...	--	70	52	--	--	--	--	--	--	--	0.04
JUL 01...	<20	170	130	<20	<20	<20	<50	<20	<20	<20	<0.02
SEP 30...	<20	40	50	<20	<20	<20	<50	<20	<20	<20	--
	<20	30	50	--	<20	--	30	<20	--	<20	<0.02

STREAMS ON LONG ISLAND

01305000 CARMANS RIVER AT YAPHANK, NY

(National stream-quality accounting network station)

LOCATION.--Lat $40^{\circ}49'49''$ long $72^{\circ}54'24''$, Suffolk County, Hydrologic Unit 02030202, on left bank 50 ft upstream from Long Island Railroad bridge, 0.6 mi northeast of Yaphank Station, and 0.7 mi southeast of Yaphank. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 71 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1942 to current year.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 17.95 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 2, 1967, at same site at datum 1.00 ft higher.

REMARKS.-- Records good except those for estimated period; which are fair. Some regulation by two lakes above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	29	27	29	32	29	31	35	31	26	24	28
2	29	29	27	28	31	30	31	35	30	26	24	28
3	29	29	26	28	31	31	31	34	30	26	24	28
4	29	29	34	28	31	45	31	33	32	26	24	28
5	29	28	32	28	31	37	31	33	31	27	25	37
6	28	29	29	28	31	34	31	35	30	27	24	33
7	28	28	29	28	32	34	31	36	30	27	23	30
8	28	28	29	28	32	e33	30	35	30	27	23	28
9	31	28	28	30	31	e33	30	33	29	26	25	28
10	30	32	27	31	31	e32	30	34	29	25	37	28
11	30	32	27	29	31	e32	30	33	30	25	29	28
12	29	29	27	42	31	e32	29	33	24	25	26	27
13	31	28	27	35	30	e32	30	33	28	26	25	27
14	44	28	27	32	32	e32	31	33	29	26	25	27
15	34	28	29	31	33	e35	32	34	28	25	26	27
16	31	28	33	35	31	e34	32	33	29	25	25	27
17	29	26	30	37	30	e33	32	32	29	25	25	27
18	31	26	29	34	30	e34	33	32	29	24	25	26
19	42	27	29	33	31	e37	32	32	31	24	63	26
20	33	27	28	33	31	e34	31	31	30	24	51	27
21	31	27	27	34	30	e33	43	31	29	24	42	26
22	30	27	28	33	30	e32	42	31	28	24	35	25
23	33	27	28	32	30	e33	37	31	28	25	32	25
24	40	28	35	32	29	e35	35	31	28	26	31	26
25	34	28	30	32	29	e33	34	31	27	25	30	29
26	31	27	29	32	30	e32	34	30	27	25	30	38
27	31	27	28	31	30	e32	34	32	27	25	29	32
28	30	27	29	32	29	e32	33	33	28	25	30	28
29	30	27	29	32	---	e32	33	31	27	25	29	27
30	29	27	29	32	---	34	35	32	26	25	29	26
31	29	---	30	34	---	32	---	33	---	24	29	---
TOTAL	972	840	896	983	860	1033	979	1015	862	785	919	847
MEAN	31.4	28.0	28.9	31.7	30.7	33.3	32.6	32.7	28.7	25.3	29.6	28.2
MAX	44	32	35	42	33	45	43	36	32	27	63	38
MIN	28	26	26	28	29	29	29	30	24	24	23	25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1991, BY WATER YEAR (WY)

MEAN	22.1	22.4	22.8	23.7	24.9	26.0	27.2	26.6	25.4	23.8	23.3	22.3
MAX	38.6	37.9	35.0	42.6	44.0	45.4	42.5	41.8	49.2	46.6	40.9	38.7
(WY)	1980	1990	1980	1979	1979	1979	1984	1984	1984	1984	1984	1984
MIN	10.9	10.6	9.48	9.35	9.74	13.7	13.1	14.1	13.8	10.5	10.5	10.6
(WY)	1967	1967	1967	1967	1967	1967	1966	1966	1966	1966	1966	1966

SUMMARY STATISTICS			FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1942 - 1991		
ANNUAL TOTAL			11796			10991			24.2		
ANNUAL MEAN			32.3			30.1			37.7		
HIGHEST ANNUAL MEAN									12.9		
LOWEST ANNUAL MEAN									1979		
HIGHEST DAILY MEAN			55			Aug 24			1978		
LOWEST DAILY MEAN			28			Aug 17			Feb 28		
ANNUAL SEVEN-DAY MINIMUM			27			Nov 17			1987		
INSTANTANEOUS PEAK FLOW						112c			Feb 25		
INSTANTANEOUS PEAK STAGE						1.94			1987		
INSTANTANEOUS LOW FLOW						15d			Aug 11		
10 PERCENT EXCEEDS			38			Aug 19			1989		
50 PERCENT EXCEEDS			32			Jun 12			Aug 11		
90 PERCENT EXCEEDS			28			26			1989		
									Feb 24		
									1987		

a Also occurred on Mar 3 1987.

b Result of temporary construction upstream.

c From rating curve extended above 80 ft³/s.

d Result of regulation.

STREAMS ON LONG ISLAND

01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--December 1979 to September 1981.

WATER TEMPERATURES.--December 1979 to September 1981.

COOPERATION.--Some water-quality analyses for this station were collected and analyzed by Suffolk County Department of Health Services. They are identified in the table by an asterisk (*).

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST- CUBIC FEET PER SECOND (00061)	SPE- CIFIC DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED OF WATER (MG/L) (00300)	OXYGEN, DIS- SOLVED AT 180 (PER- CENT) (MG/L) (00301)	SOLIDS RESIDUE AT 180 (DEG C) TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL (COLS./ 100 ML) (31616)	STREP- TOCOCCE FECAL (COLS. 100 ML) (31673)
NOV 14...	0955	28	125	6.8	4.0	778	12.7	95	78	1.3	K5
DEC * 11...	1045	27	141	6.0	4.0	--	10.3	--	--	--	--
FEB 05...	0930	32	130	7.0	7.5	772	11.5	95	97	1.0	K10
APR * 08...	1030	31	86	5.9	15.5	--	8.5	--	--	--	--
16...	0745	32	122	6.9	10.5	766	10.8	96	--	--	K17
MAY 07...	1220	36	133	7.2	15.0	762	8.1	81	71	2.2	K12
JUL 01...	0950	27	134	7.0	20.0	759	8.9	99	--	--	--
* 01...	1115	27	86	6.1	21.0	--	7.7	--	--	--	--
AUG 13...	1200	26	126	7.0	22.5	761	11.0	127	70	0.7	46
SEP * 30...	1050	26	82	5.6	12.5	--	7.2	--	--	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO ₃ (39086)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN N0 ₂ +N0 ₃ DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN N0 ₂ +N0 ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN AMMONIA TOTAL (MG/L AS N) (00610)
NOV 14...	8.0	3.2	11	1.1	17	16	19	<0.1	13	<0.01	1.5	0.04
DEC * 11...	6.7	2.9	9.2	1.0	--	9.9	15	--	--	--	--	<0.02
FEB 05...	8.1	3.0	10	1.1	16	13	17	<0.1	12	<0.01	1.6	<0.01
APR * 08...	8.9	3.4	12	1.3	--	12	16	--	--	--	--	<0.02
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 07...	8.1	3.1	12	1.2	14	11	15	<0.1	10	0.01	1.3	0.04
JUL 01...	8.6	3.5	12	1.0	--	13	18	0.1	9.1	0.01	1.1	0.03
* 01...	6.5	3.2	9.8	1.5	--	12	16	--	--	--	--	0.07
AUG 13...	7.9	2.9	10	1.0	19	12	16	<0.1	9.9	<0.01	1.0	0.01
SEP * 30...	7.2	2.7	10	1.3	--	13	15	--	--	--	--	<0.02

K Results based on colony counts outside the acceptable range (non-ideal colony count).

STREAMS ON LONG ISLAND
01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (00671)	ALUM- INUM, TOTAL DIS- SOLVED (MG/L AS AL) (01105)	ALUM- INUM, TOTAL DIS- RECOV- ERABLE SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMUM- TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMUM DIS- SOLVED (UG/L AS CD) (01025)
NOV 14...	0.03	<0.20	<0.01	<0.01	<0.01	40	<10	<1	20	<0.5	<1	<1.0
DEC * 11...	--	0.18	<0.01	<0.01	--	--	<20	<20	<50	<10	--	<10
FEB 05...	0.02	0.60	0.02	<0.01	<0.01	<10	<10	<1	21	<0.5	<1	<1.0
APR * 08...	--	<0.05	<0.01	--	--	--	<50	<20	<50	<10	--	<10
MAY 16...	--	--	--	--	--	140	--	--	--	--	<1	--
MAY 07...	0.05	0.30	0.02	<0.01	<0.01	50	<10	<1	22	<0.5	<1	<1.0
JUL 01...	0.04	0.30	0.017	--	0.001	--	--	--	--	--	--	--
AUG * 01...	--	--	--	--	--	--	<50	<20	<50	<10	--	<20
SEP 13...	0.02	0.50	0.02	<0.01	<0.01	30	<10	<1	19	<0.5	<1	<1.0
SEP * 30...	--	0.90	<0.01	<0.01	--	--	<50	<20	<50	<10	--	<20
DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL DIS- RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- RECOV- ERABLE (UG/L AS FE) (01046)	LEAD, TOTAL DIS- RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
NOV 14...	<1	<3	1	1	460	140	1	<1	<4	70	59	
DEC * 11...	<20	<20	--	<10	140	120	--	<20	--	60	50	
FEB 05...	1	<3	3	1	220	100	2	<1	<4	60	62	
APR * 08...	<20	<20	--	<10	280	180	--	<20	--	60	70	
MAY 16...	--	--	7	--	270	--	3	--	--	70	--	
MAY 07...	4	<3	3	1	480	160	5	<1	<4	100	75	
JUL 01...	--	--	--	--	380	170	--	--	--	70	75	
AUG * 01...	<20	<20	--	<20	270	170	--	<20	--	60	50	
SEP 13...	<1	<3	3	1	300	150	3	<1	<4	50	45	
SEP * 30...	<20	<20	--	<20	170	170	--	<20	--	30	40	

STREAMS ON LONG ISLAND

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01305000 CARMANS RIVER AT YAPHANK, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL, RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	
NOV 14...	<0.10	<0.1	<10	<1	1	<1	<1.0	37	<6	<10	4	
DEC * 11...	--	--	<20	--	<20	<20	<10	40	<20	--	<20	
FEB 05...	1.0	0.1	<10	4	1	<1	<1.0	38	<6	<10	6	
APR * 08...	--	--	<20	--	<20	<20	<10	<50	<20	--	<20	
MAY 16...	<0.10	--	--	1	--	--	--	--	--	<10	--	
JUL 07...	<0.10	<0.1	<10	2	2	<1	<1.0	41	<6	<10	13	
JUL 01...	--	--	--	--	--	--	--	--	--	--	--	
* 01...	--	--	<20	--	<20	<20	<20	<50	<20	--	<20	
AUG 13...	<0.10	<0.1	<10	--	<1	<1	<1.0	37	<6	<10	3	
SEP * 30...	--	--	--	--	<20	--	<20	30	--	--	<20	

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (80155)	SED. SIEVE DIAM. % FINER THAN 062 MM (70331)
NOV 14...	0955	28	5	0.38	69
FEB 05...	0930	32	1	0.09	77
APR 18...	0745	32	2	0.17	--
MAY 07...	1220	36	4	0.39	79
AUG 13...	1200	26	3	0.21	44

STREAMS ON LONG ISLAND

01305500 SWAN RIVER AT EAST PATCHOGUE, NY

LOCATION.--Lat $40^{\circ}46'01''$, long $72^{\circ}59'39''$, Suffolk County, Hydrologic Unit 02030202, on left bank 94 ft downstream from Montauk Highway in East Patchogue, 200 ft downstream from outlet of Swan Lake, and 1.2 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 8.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1622: Drainage area. WDR NY-81-2: 1952-77 (M), 1978, 1979-80 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair except those for May and June; which are poor. Flow regulated at outlet of Swan Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	12	12	13	13	15	17	12	9.3	11	10
2	12	12	11	13	13	18	14	18	13	9.4	11	9.9
3	13	12	12	12	13	16	14	16	14	9.8	10	10
4	13	12	13	12	14	26	14	15	15	9.3	11	10
5	12	13	13	13	14	15	13	16	15	10	12	19
6	11	12	12	13	14	14	14	16	15	9.6	11	12
7	12	12	12	13	15	14	15	17	14	9.8	9.9	11
8	12	12	12	13	14	13	16	17	13	9.7	9.6	11
9	12	12	12	17	14	13	15	17	13	9.2	11	11
10	11	17	12	14	14	13	15	17	13	9.0	13	11
11	11	14	11	13	14	13	13	17	12	8.8	8.4	11
12	10	13	12	26	14	13	13	16	15	9.1	8.9	11
13	13	13	12	15	13	13	13	16	13	9.6	9.6	11
14	17	12	11	13	16	14	14	18	12	9.1	9.5	11
15	12	12	14	13	15	13	16	19	12	9.0	9.1	11
16	11	13	16	17	14	12	16	18	12	8.5	9.4	11
17	10	13	12	18	13	13	17	18	11	8.5	8.3	11
18	14	13	14	14	13	17	16	16	11	8.3	8.1	11
19	20	13	12	14	15	16	14	17	12	8.4	33	11
20	12	13	11	14	14	13	13	17	12	8.3	18	12
21	11	13	12	15	13	13	23	16	11	8.0	15	11
22	11	12	12	14	13	14	17	15	10	7.9	12	11
23	17	13	12	14	13	15	15	16	10	9.6	12	11
24	18	14	21	14	13	14	15	16	10	9.4	10	11
25	13	12	13	14	13	13	16	14	10	8.5	9.9	15
26	13	12	12	13	14	13	17	14	9.9	8.7	11	21
27	12	12	12	13	14	14	17	12	10	8.7	10	12
28	12	12	13	14	13	14	17	13	9.7	8.5	9.8	11
29	12	12	13	14	---	14	17	13	9.3	11	10	11
30	12	12	13	14	---	16	17	13	9.4	12	11	11
31	12	---	13	15	---	14	---	13	---	12	11	---
TOTAL	394	379	392	441	385	444	461	493	358.3	287.0	353.5	350.9
MEAN	12.7	12.6	12.6	14.2	13.7	14.3	15.4	15.9	11.9	9.28	11.4	11.7
MAX	20	17	21	26	16	28	23	19	15	12	33	21
MIN	10	12	11	12	13	12	13	12	9.3	7.9	8.1	9.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1991, BY WATER YEAR (WY)

MEAN	11.4	11.6	11.7	12.4	12.8	13.5	14.3	14.0	13.4	12.5	12.0	11.4
MAX	17.3	17.7	18.4	19.5	18.3	19.8	21.7	21.5	21.6	20.7	20.1	19.7
(WY)	1980	1956	1984	1978	1973	1984	1984	1984	1984	1979	1984	1984
MIN	7.26	7.67	7.84	7.64	8.03	9.49	8.85	9.30	8.01	7.78	7.31	7.64
(WY)	1989	1966	1987	1987	1967	1968	1986	1986	1981	1988	1981	1988

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1947 - 1991

ANNUAL TOTAL	4942.3	4738.7		
ANNUAL MEAN	13.5	13.0	12.6	
HIGHEST ANNUAL MEAN			18.5	1984
LOWEST ANNUAL MEAN			8.68	1986
HIGHEST DAILY MEAN	40	Aug 24	85	Jan 26 1978
LOWEST DAILY MEAN	9.3	Jun 19	4.3a	Oct 13 1986
ANNUAL SEVEN-DAY MINIMUM	11	Jun 13	5.8	Oct 25 1988
INSTANTANEOUS PEAK FLOW			77b	Aug 24 1990
INSTANTANEOUS PEAK STAGE			2.71	Aug 24 1990
INSTANTANEOUS LOW FLOW			.06d	Sep 2 1984
10 PERCENT EXCEEDS	16	16	16	
50 PERCENT EXCEEDS	13	13	12	
90 PERCENT EXCEEDS	11	9.7	9.0	

a Also occurred on Oct 14 1987.

b From rating curve extended above 55 ft³/s.

c Also occurred on Jul 20-23 and Aug 17.

d Result of regulation.

01305500 SWAN RIVER AT EAST PATCHOGUE, NY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1968 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00081)	SPE- CIFIC COND- DUCT- FIELD (US/CM) (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, WATER (00300)	DIS- SOLVED (MG/L) (00915)	CALCIUM (MG/L) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
DEC 11...	1320	11	132	6.1	4.5	11.9	6.3	2.2	10	1.3	13	
APR 03...	1030	14	86	5.9	8.0	11.2	7.2	2.4	11	1.5	--	
JUL 01...	1345	9.4	81	6.6	20.0	10.5	6.4	2.4	10	1.5	--	
SEP 30...	1250	11	81	6.8	13.0	11.1	6.8	2.2	11	1.7	--	
DATE		SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	NITRO- GEN NITRATE TOTAL (MG/L) AS N (00620)	NITRO- GEN NITRATE TOTAL (MG/L) AS N (00615)	NITRO- GEN N2O+N2 TOTAL (MG/L) AS N (00630)	NITRO- GEN AMMONIA TOTAL (MG/L) AS N (00610)	GEN AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	GEN AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00623)	PHOS- PHORUS TOTAL (MG/L) AS P (00665)	PHOS- PHORUS TOTAL (MG/L) AS P (00666)	PHOS- PHORUS TOTAL (MG/L) AS P (70507)
DEC 11...	13	15	--	--	2.2	0.09	<0.05	<0.05	<0.01	<0.01	<0.01	
APR 03...	9.8	16	--	--	2.2	0.08	<0.05	--	<0.01	--	<0.005	
JUL 01...	11	16	--	--	1.8	0.06	--	--	--	--	<0.005	
SEP 30...	10	15	--	--	2.1	<0.02	0.74	0.58	<0.01	<0.01	<0.005	
DATE		ALUM- INUM, DIS- SOLVED (UG/L) AS AL (01108)	ANTI- MONY, DIS- SOLVED (UG/L) AS SB (01095)	ARSENIC DIS- SOLVED (UG/L) AS AS (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA (01005)	BERYL- LIUM, DIS- SOLVED (UG/L) AS BE (01010)	CADMIUM DIS- SOLVED (UG/L) AS CD (01025)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COBALT, DIS- SOLVED (UG/L) AS CD (01035)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L) AS FE (01045)	IRON, DIS- SOLVED (UG/L) AS FE (01048)
DEC 11...	20	<20	<20	<50	<10	<10	<20	<20	<10	90	50	
APR 03...	<50	<20	<20	<40	<10	<10	<20	<20	<10	140	80	
JUL 01...	<50	<20	<20	<50	<10	<20	<20	<20	<20	140	120	
SEP 30...	<50	<20	<20	<50	<10	<20	<20	<20	<20	50	50	
DATE		MANGA- NESE, TOTAL LEAD, DIS- SOLVED (UG/L) AS PB (01049)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01055)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MN (01056)	NICKEL, DIS- SOLVED (UG/L) AS MO (01060)	SELE- NIUM, DIS- SOLVED (UG/L) AS NI (01065)	STRON- TIUM, DIS- SOLVED (UG/L) AS SE (01145)	TI- ANIUM, DIS- SOLVED (UG/L) AS SR (01080)	VANA- DIUM, DIS- SOLVED (UG/L) AS TI (01150)	ZINC, DIS- SOLVED (UG/L) AS V (01085)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	ZINC, DIS- SOLVED (UG/L) AS ZN (01090)
DEC 11...	<20	60	50	<20	<20	<20	40	<20	<20	<20	<0.02	
APR 03...	<20	250	240	<20	<20	<20	<50	<20	<20	<20	<0.02	
JUL 01...	<20	90	120	<20	<20	<20	<50	<20	<20	<20	--	
SEP 30...	<20	<10	<20	--	<20	<20	36	<20	--	<20	<0.02	

STREAMS ON LONG ISLAND

01306000 PATCHOGUE RIVER AT PATCHOGUE, NY

LOCATION.--Lat 40°45'56", long 73°01'18", Suffolk County, Hydrologic Unit 02030202, on left bank just downstream from Montauk Highway in Patchogue, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--About 13.5 square miles.

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

		SPECIFIC CONDUCTANCE		PH (STANDARD UNITS)		TEMPERATURE WATER (DEG C)		OXYGEN, DIS-SOLVED (MG/L)		CALCIUM DIS-SOLVED (MG/L AS CA)		MAGNESIUM, DIS-SOLVED (MG/L AS MG)		SODIUM, DIS-SOLVED (MG/L AS NA)		POTASSIUM, DIS-SOLVED (MG/L AS K)		ALKALINITY, TOT FET FIELD MG/L AS CACO3		WAT WH FIELD MG/L AS		SULFATE DIS-SOLVED (MG/L AS SO4)	
DATE	TIME	FIELD (US/CM) (00094)	(00400)	FIELD (US/CM) (00094)	(00400)	FIELD (US/CM) (00010)	(00010)	FIELD (US/CM) (00030)	(00030)	FIELD (US/CM) (00915)	(00915)	FIELD (US/CM) (00925)	(00925)	FIELD (US/CM) (00930)	(00930)	FIELD (US/CM) (00935)	(00935)	FIELD (US/CM) (00410)	(00410)	FIELD (US/CM) (00945)	(00945)		
DEC 11...	1205	199		6.3		4.0		11.9		9.6		3.6		15		3.0		27		12			
APR 03...	0900	128		6.4		9.0		9.8		11		3.7		18		3.4		--		12			
JUL 01...	1230	114		6.2		24.5		7.6		9.3		3.4		16		3.2		--		11			
SEP 30...	1150	106		6.2		15.0		9.2		9.5		3.2		17		3.4		--		11			
		CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN NO2+N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS DIS. (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (00666)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)											
DEC 11...	26	3.0		0.68		0.85		0.27		<0.01		<0.01		0.020		20		<20					
APR 03...	28	3.2		0.40		0.48		--		0.033		--		<0.005		<50		<20					
JUL 01...	29	2.7		0.05		--		--		--		--		<0.005		<50		<20					
SEP 30...	25	3.0		0.08		1.0		0.88		<0.01		<0.01		<0.005		<50		<20					
		ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)												
DEC 11...	<20	60		<10		<10		<20		<20		<20		<10		320		260		<20			
APR 03...	<20	<50		<10		<10		<20		<20		<20		<10		410		250		<20			
JUL 01...	<20	<50		<10		<20		<20		<20		<20		<20		180		100		<20			
SEP 30...	<20	<50		<10		<20		<20		<20		<20		<20		210		260		<20			
		MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	TI- ANIUM, DIS- SOLVED (UG/L AS TI) (01150)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L (38260)												
DEC 11...	200	180		<20		<20		<20		<20		80		<20		<20		<20		<0.02			
APR 03...	140	140		<20		<20		<20		<20		<1000		<20		<20		<20		<0.02			
JUL 01...	90	70		<20		<20		<20		<20		60		<20		<20		<20		--			
SEP 30...	40	60	--	<20		<20		<20		<20		60		<20	--	<20		<20		0.02			

STREAMS ON LONG ISLAND

55

01306440 CONNETQUOT BROOK AT CENTRAL ISLIP, NY

LOCATION.--Lat 40°47'33", long 73°09'58", Suffolk County, Hydrologic Unit 02030202, 200 ft downstream from culvert on Veterans Memorial Highway, 2.0 mi northeast of Central Islip, and 3.8 mi upstream from gaging station 01306499.

DRAINAGE AREA.--About 12 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1971-78. May 1979 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 29.93 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for November to June and estimated period, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	15	12	13	14	12	13	13	11	7.0	5.4	7.4
2	9.3	15	12	13	13	15	13	14	10	6.9	5.2	7.7
3	9.1	15	12	13	13	15	12	13	9.9	7.0	5.1	7.6
4	9.1	15	18	12	13	23	12	12	12	6.8	5.4	7.5
5	9.2	15	15	12	13	18	12	12	9.8	7.7	5.9	8.8
6	9.0	15	14	12	13	16	12	14	9.1	7.7	5.2	8.0
7	8.9	15	13	12	14	17	12	13	8.8	7.4	5.0	7.6
8	8.7	15	13	12	14	15	12	12	8.5	7.2	4.9	7.4
9	12	14	13	14	14	15	12	12	8.3	6.9	5.2	7.3
10	11	17	13	13	13	15	12	12	8.2	6.6	11	7.2
11	9.9	16	12	12	13	14	12	12	8.2	6.4	7.3	7.2
12	9.8	15	12	21	13	14	12	12	9.4	6.2	6.4	7.0
13	16	14	12	17	13	14	12	12	9.1	6.9	6.0	e6.8
14	e23	14	12	16	14	14	12	12	8.6	6.7	5.7	e7.0
15	e16	14	13	15	14	15	13	12	8.4	5.9	5.8	e7.0
16	15	14	15	19	13	14	12	12	8.3	5.9	5.5	e6.8
17	14	14	13	20	13	14	12	12	8.3	5.8	5.3	e6.8
18	18	14	14	17	13	16	13	12	8.1	5.8	5.2	e6.8
19	22	13	14	17	13	17	12	12	10	5.6	e25	e7.0
20	17	13	12	16	13	15	12	11	11	5.5	e18	e7.5
21	16	13	13	16	13	14	19	11	9.3	5.3	15	6.9
22	15	13	13	15	13	14	17	11	8.7	5.2	12	6.6
23	18	13	13	15	12	15	15	11	8.4	5.8	11	6.7
24	24	14	16	15	12	16	14	11	8.2	6.5	11	6.7
25	19	13	14	15	12	14	14	11	8.0	5.8	10	8.3
26	17	13	13	14	13	14	13	10	7.8	5.9	9.6	12
27	17	12	13	14	13	14	13	10	7.6	6.0	9.3	9.0
28	18	12	14	14	12	14	13	11	7.4	5.8	8.8	7.8
29	16	12	14	14	---	14	13	11	7.3	5.8	8.5	7.4
30	18	12	14	14	---	15	13	11	7.2	5.7	8.1	7.1
31	15	---	14	15	---	13	---	12	---	5.5	7.2	---
TOTAL	443.4	419	415	457	366	465	388	366	264.9	195.2	259.0	224.9
MEAN	14.3	14.0	13.4	14.7	13.1	15.0	12.9	11.8	8.83	6.30	8.35	7.50
MAX	24	17	18	21	14	23	19	14	12	7.7	25	12
MIN	8.7	12	12	12	12	12	12	10	7.2	5.2	4.9	6.6

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1991, BY WATER YEAR (WY)

MEAN	5.90	6.22	6.36	6.09	6.43	7.12	8.65	8.47	8.45	6.78	6.46	5.86
MAX	14.3	14.0	13.4	14.7	13.1	15.0	14.9	14.7	17.8	18.8	15.6	16.0
(WY)	1991	1991	1991	1991	1991	1991	1984	1984	1984	1984	1984	1984
MIN	.93	1.69	2.29	2.18	2.53	3.41	3.79	3.14	1.99	.94	.62	.76
(WY)	1989	1982	1983	1989	1989	1989	1988	1981	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1979 - 1991
ANNUAL TOTAL	4280.6	4263.4	
ANNUAL MEAN	11.7	11.7	6.74
HIGHEST ANNUAL MEAN			12.3
LOWEST ANNUAL MEAN			2.56
HIGHEST DAILY MEAN	24	Oct 24	1984
LOWEST DAILY MEAN	7.4	Aug 18	1988
ANNUAL SEVEN-DAY MINIMUM	7.9	Aug 4	1988
INSTANTANEOUS PEAK FLOW			1984
INSTANTANEOUS PEAK STAGE			1984
INSTANTANEOUS LOW FLOW			1984
10 PERCENT EXCEEDS	15	16	1984
50 PERCENT EXCEEDS	11	12	1984
90 PERCENT EXCEEDS	8.9	6.6	1984

a From floodmarks.

b Result of regulation.

STREAMS ON LONG ISLAND

01306460 CONNETQUOT BROOK NEAR CENTRAL ISLIP, NY

LOCATION.--Lat $40^{\circ}46'19''$, long $73^{\circ}09'33''$, Suffolk County, Hydrologic Unit 02030202, 200 ft upstream from bridge on dirt road in Connetquot River State Park Preserve, and 1.8 mi upstream from gaging station 01306499.

DRAINAGE AREA.--About 18 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1968, 1973-77. November 1977 to current year.

GAGE.--Water-stage recorder and wooden stoplog control. Datum of gage is 15.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	41	33	37	38	33	35	36	30	26	20	28
2	32	41	32	36	38	39	35	37	29	27	20	28
3	32	40	33	38	38	39	35	35	29	27	20	27
4	32	40	45	35	38	57	35	34	32	29	21	27
5	32	40	39	35	37	48	35	34	31	32	23	34
6	31	40	38	35	36	47	35	37	31	29	21	30
7	31	40	35	35	35	46	35	36	31	28	20	28
8	31	40	35	34	35	45	35	34	30	27	20	27
9	38	40	35	38	35	44	34	34	30	25	21	27
10	36	45	34	39	35	42	34	35	29	25	39	27
11	34	43	34	37	35	38	34	34	29	23	28	26
12	33	40	34	56	35	36	33	34	32	23	25	26
13	57	38	34	48	35	36	34	33	31	25	24	26
14	69	37	34	45	37	36	35	33	29	25	23	27
15	47	36	37	44	37	36	36	32	28	23	23	27
16	41	36	43	53	35	36	36	32	28	22	22	26
17	40	36	37	52	35	36	36	31	28	21	21	26
18	42	36	40	46	35	39	38	31	27	21	22	26
19	66	36	38	43	34	42	36	31	33	21	80	27
20	49	36	36	43	35	38	35	31	37	20	59	28
21	45	36	36	43	35	38	49	31	32	20	51	27
22	42	36	38	40	34	36	46	30	30	20	42	26
23	48	36	37	40	33	37	42	30	30	22	39	27
24	71	37	44	39	32	39	40	28	30	21	39	26
25	52	35	39	39	32	37	38	28	29	20	35	29
26	48	34	37	38	33	36	37	29	29	20	33	39
27	46	34	36	38	34	35	36	28	28	20	32	31
28	44	34	38	38	34	35	35	30	28	20	31	28
29	44	34	38	38	---	35	35	29	27	21	30	26
30	43	34	39	38	---	36	37	29	27	21	30	26
31	43	---	39	39	---	35	---	31	---	21	29	---
TOTAL	1332	1131	1145	1257	985	1212	1096	997	894	725	943	833
MEAN	43.0	37.7	36.9	40.5	35.2	39.1	36.5	32.2	29.8	23.4	30.4	27.8
MAX	71	45	45	56	38	57	49	37	37	32	80	39
MIN	31	34	32	34	32	33	33	28	27	20	20	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1991, BY WATER YEAR (WY)

MEAN	24.3	26.2	28.4	28.3	29.6	32.1	34.7	32.7	31.6	27.1	26.1	23.6
MAX	43.0	38.8	38.0	45.4	49.4	52.0	48.6	44.1	46.2	47.8	43.5	37.2
(WY)	1991	1990	1991	1979	1979	1979	1983	1979	1984	1984	1979	1984
MIN	13.0	17.1	18.4	18.1	20.2	21.3	20.2	18.0	15.8	13.5	11.5	12.3
(WY)	1989	1988	1988	1981	1989	1988	1988	1986	1988	1988	1988	1988

SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR				FOR 1991 WATER YEAR				WATER YEARS 1978 - 1991			
ANNUAL TOTAL		13269				12550				27.9			
ANNUAL MEAN		36.4				34.4				39.8			
HIGHEST ANNUAL MEAN										17.1			
LOWEST ANNUAL MEAN													
HIGHEST DAILY MEAN		74				80				85			
LOWEST DAILY MEAN		27				20				11			
ANNUAL SEVEN-DAY MINIMUM		28				20				11			
INSTANTANEOUS PEAK FLOW						154				154			
INSTANTANEOUS PEAK STAGE						2.82				2.82			
INSTANTANEOUS LOW FLOW						19				11a			
10 PERCENT EXCEEDS		42				43				41			
50 PERCENT EXCEEDS		35				35				28			
90 PERCENT EXCEEDS		31				25				17			

a Also occurred on Aug 9-14, Sept 29 to Oct 2 1988, minimum recorded.

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY

LOCATION.--Lat $40^{\circ}44'51''$ long $73^{\circ}09'03''$, Suffolk County. Hydrologic Unit 02030202, on left bank just downstream from bridge on State Highway 27, 1.0 mi west of Oakdale. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 24 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year (monthly means estimated October 1974 to September 1975).

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Base gage (01306499): Water-stage recorder and wooden stoplog control. Datum of gage is 1.56 ft above National Geodetic Vertical Datum of 1929.

Supplementary gage (01306495): Water-stage recorder with concrete control on left bank of secondary channel 0.25 mi northeast of base gage at datum of 4.74 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 10, 1965, at datum 1.0 ft higher.

REMARKS.--Records fair. Flow at both gages occasionally regulated by cleaning operations at outlets of ponds above stations. Discharge figures are those of combined flows in main and secondary channels.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	e59	49	54	52	48	51	53	43	34	31	37
2	40	e58	48	53	51	57	51	53	41	34	29	37
3	39	57	50	52	51	59	50	50	41	35	28	36
4	41	57	73	52	51	94	48	48	44	34	30	37
5	e40	57	62	50	51	72	48	48	43	38	35	45
6	e38	59	55	51	51	62	48	54	39	39	30	41
7	e38	54	53	50	52	63	48	54	37	38	28	38
8	e38	54	54	50	51	58	48	48	37	38	27	38
9	e48	53	53	57	51	56	48	47	35	34	31	37
10	e45	65	52	60	50	55	49	48	37	33	50	37
11	e42	64	50	54	50	55	48	46	37	32	39	36
12	e40	55	49	89	49	55	46	46	43	32	34	34
13	e58	56	50	76	49	54	48	46	39	36	32	34
14	e98	53	49	65	55	56	49	46	38	36	31	36
15	e72	53	53	61	56	61	50	47	36	33	32	36
18	e58	52	63	73	51	57	51	46	37	32	31	35
17	54	52	58	87	48	54	52	45	37	31	30	35
18	59	52	59	67	48	58	55	45	36	30	31	35
19	94	54	57	62	51	68	53	45	40	30	101	37
20	68	53	54	61	51	59	52	43	47	29	89	38
21	62	51	54	62	49	55	75	42	40	29	70	35
22	59	51	54	59	48	54	73	41	37	28	54	35
23	e64	53	54	57	48	58	61	42	38	33	49	35
24	e99	56	66	57	46	59	57	41	36	36	48	35
25	e75	52	58	54	48	56	54	40	36	33	45	41
26	e66	50	54	54	49	54	53	39	35	33	44	56
27	e64	49	54	53	50	54	51	40	35	32	42	46
28	e62	49	56	54	49	54	50	41	34	31	40	40
29	e60	49	57	53	---	54	50	41	33	31	40	37
30	e60	49	58	53	---	56	53	41	34	32	39	36
31	e60	---	58	56	---	53	---	44	---	31	39	---
TOTAL	1781	1626	1712	1836	1406	1806	1570	1410	1143	1027	1279	1135
MEAN	57.5	54.2	55.2	59.2	50.2	58.3	52.3	45.5	38.1	33.1	41.3	37.8
MAX	99	65	73	89	56	94	75	54	47	39	101	56
MIN	38	49	48	50	46	48	46	39	33	28	27	34

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	33.5	36.4	38.1	39.3	40.6	43.5	44.4	42.4	40.3	36.3	35.0	33.1
MAX	65.2	67.3	55.2	65.1	62.3	70.3	69.7	62.2	64.1	64.3	52.1	48.6
(WY)	1956	1958	1991	1979	1979	1979	1980	1958	1984	1984	1984	1984
MIN	22.0	17.3	21.8	24.0	23.8	29.4	25.8	28.2	25.6	20.0	19.5	21.2
(WY)	1967	1983	1967	1967	1967	1966	1966	1966	1988	1966	1966	1986

SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR				FOR 1991 WATER YEAR				WATER YEARS 1944 - 1991			
ANNUAL TOTAL		18903				17731				38.7			
ANNUAL MEAN		51.8				48.6				52.5			
HIGHEST ANNUAL MEAN										24.9			
LOWEST ANNUAL MEAN										1984			
HIGHEST DAILY MEAN		120				101				263			
LOWEST DAILY MEAN		36				27				9.3a			
ANNUAL SEVEN-DAY MINIMUM		39				30				13			
10 PERCENT EXCEEDS		61				61				52			
50 PERCENT EXCEEDS		51				49				37			
90 PERCENT EXCEEDS		41				34				27			

a Result of regulation.

STREAMS ON LONG ISLAND

01306500 CONNETQUOT RIVER NEAR OAKDALE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01306499 (Base gage): May 1966 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC COND- DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
OCT 31...	1510	31	126	6.8	10.5	11.1	7.0	3.2	11	1.5	--
DEC 11...	1420	26	140	6.1	5.0	11.4	8.9	3.1	9.3	1.4	17
APR 08...	1240	26	88	6.2	17.0	9.7	6.4	3.3	9.4	1.1	--
JUL 02...	0930	14	94	6.1	19.0	7.0	7.0	3.3	11	1.3	--
DATE	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	NITRO- GEN NITRATE TOTAL (MG/L) (00620)	NITRO- GEN NITRITE TOTAL (MG/L) (00615)	NITRO- GEN NO2+N03 TOTAL (MG/L) (00630)	NITRO- GEN AMMONIA TOTAL (MG/L) (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) (00623)	PHOS- PHORUS TOTAL (MG/L) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) (00666)	PHOS- PHORUS TOTAL (MG/L) (70507)
OCT 31...	10	17	2.18	0.018	2.2	0.07	0.70	0.50	0.028	--	<0.012
DEC 11...	7.6	18	--	--	2.1	0.06	0.16	<0.05	0.048	<0.01	0.02
APR 08...	9.3	17	--	--	2.0	<0.02	<0.05	--	<0.01	--	<0.005
JUL 02...	12	18	--	--	2.0	<0.02	--	--	--	--	<0.005
DATE	ALUM- INUM, DIS- SOLVED (UG/L) (01106)	ANTI- MONY, DIS- SOLVED (UG/L) (01095)	ARSENIC DIS- SOLVED (UG/L) (01000)	BARIUM, DIS- SOLVED (UG/L) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L) (01010)	CADMIUM DIS- SOLVED (UG/L) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L) (01030)	COBALT, DIS- SOLVED (UG/L) (01035)	COPPER, DIS- SOLVED (UG/L) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L) (01045)	IRON, DIS- SOLVED (UG/L) (01046)
OCT 31...	--	--	--	--	--	--	--	--	--	240	100
DEC 11...	20	<20	<20	<50	<10	<10	<20	<20	<10	180	90
APR 08...	<50	<20	<20	<50	<10	<10	<20	<20	<10	140	80
JUL 02...	<50	<20	<20	<50	<10	<20	<20	<20	<20	180	120
DATE	LEAD, DIS- SOLVED (UG/L) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L) (01055)	MANGA- NESE, DIS- SOLVED (UG/L) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L) (01060)	NICKEL, DIS- SOLVED (UG/L) (01065)	SELE- NIUM, DIS- SOLVED (UG/L) (01145)	STRON- TIUM, DIS- SOLVED (UG/L) (01080)	TI- TANIUM, DIS- SOLVED (UG/L) (01150)	VANA- DIUM, DIS- SOLVED (UG/L) (01085)	ZINC, DIS- SOLVED (UG/L) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 31...	--	40	46	--	--	--	--	--	--	--	0.03
DEC 11...	<20	50	40	<20	<20	<20	50	<20	<20	<20	<0.02
APR 08...	<20	50	40	<20	<20	<20	<50	<20	<20	<20	<0.02
JUL 02...	<20	50	40	<20	<20	<20	<50	<20	<20	<20	--

STREAMS ON LONG ISLAND

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01306500 CONNETQUOT RIVER NEAR OAKDALE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01306495 (Supplementary gage): March 1988 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CONDUC- TANCE FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
APR 08...	1140	22	92	6.0	16.0	8.8	7.8	3.5	12	1.8	--
JUL 02...	1045	20	93	6.2	18.0	7.0	7.2	3.7	12	1.6	--
DATE		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN NO2+N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (00666)
APR 08...	9.7	18	--	--	2.3	0.05	1.2	--	<0.01	--	<0.005
JUL 02...	10	17	--	--	2.1	0.03	--	--	--	--	<0.005
DATE		ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE) (01045)
APR 08...	<50	<20	<20	<50	<10	<10	<20	<20	<10	120	70
JUL 02...	<50	<20	<20	<50	<10	<20	<20	<20	<20	140	80
DATE		MANGA- NESE, LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, RECOV- ERABLE (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS NI) (01065)	STRON- TIUM, DIS- SOLVED (UG/L AS SE) (01145)	TI- ANIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS TI) (01150)	ZINC, DIS- SOLVED (UG/L AS V) (01085)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
APR 08...	<20	50	40	<20	<20	<20	<50	<20	<20	<20	<0.02
JUL 02...	<20	40	30	<20	<20	<20	<50	<20	<20	<20	--

STREAMS ON LONG ISLAND
 01307000 CHAMPLIN CREEK AT ISLIP, NY

LOCATION.--Lat $40^{\circ}44'13''$, long $73^{\circ}12'08''$, Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Long Island Railroad bridge, 220 ft downstream from Moffit Boulevard, at Islip, and 1.8 mi upstream from mouth.

DRAINAGE AREA.--About 6.5 square miles.

PERIOD OF RECORD.--Water years 1986 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE		PH (STAND-ARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, WATER (MG/L)	DIS-SOLVED (00300)	CALCIUM (MG/L)	MAGNE-SIUM, DIS-SOLVED (00915)	SODIUM, DIS-SOLVED (00925)	POTAS-SIUM, DIS-SOLVED (00930)	ALKALINITY, TOT FET (00935)	WAT WH FIELD (00410)	SULFATE SOLVED (00945)
		FIELD (US/CM) (00094)	FIELD (00400)											
DEC 10...	1330	293		5.8	10.0	7.7	13		4.2	33		2.2	22	20
APR 03...	1145	185		5.8	11.5	10.2	14		4.4	43		2.4	--	21
JUL 02...	1215	165		5.6	15.0	4.4	12		4.0	32		2.5	--	21
SEP 30...	1350	156		6.2	14.0	8.4	14		4.1	33		2.7	--	21

STREAMS ON LONG ISLAND

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01307500 PENATAQUIT CREEK AT BAY SHORE, NY

LOCATION.--Lat 40°43'37", long 73°14'41", Suffolk County, Hydrologic Unit 02030202, on right bank just upstream from Union Avenue in Bay Shore, and 4,500 ft upstream from mouth.

DRAINAGE AREA.--About 5 square miles.

PERIOD OF RECORD.--May 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE		PH (STAND-ARD (US/CM) (00094)	TEMPERATURE (DEG C) (00010)	OXYGEN, WATER (MG/L) (00300)	DIS-SOLVED (MG/L) (00915)	CALCIUM (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	SODIUM, DIS-SOLVED (MG/L) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	ALKALINITY, TOT FET (MG/L AS K) (00410)	WAT WH FIELD (MG/L AS CACO3) (00410)	SULFATE (MG/L AS SO4) (00945)
		FIELD (00400)	UNITS (00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)	(00010)
DEC 10...	1215	228		5.9	10.0	8.4	15	3.8	26	2.3	26	23		
APR 03...	1300	159		5.7	13.0	11.9	16	3.8	30	2.7	--	23		
JUL 02...	1345	157		6.0	16.0	7.4	16	3.5	27	2.9	--	22		
SEP 30...	1450	146		6.5	14.5	7.8	15	3.3	29	2.8	--	22		
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (00666)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (01106)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01095)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01096)			
DEC 10...	47	3.4	0.39	0.60	0.49	<0.01	<0.01	<0.01	0.014	20	<20			
APR 03...	46	3.5	0.32	0.35	--	<0.01	--	<0.005	<0.005	<50	<20			
JUL 02...	49	3.3	0.36	--	--	--	--	<0.005	<0.005	<50	<20			
SEP 30...	44	3.6	0.32	--	--	<0.01	<0.01	<0.01	0.005	<50	<20			
DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01006)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)			
DEC 10...	<20	<50	<10	<10	<20	<20	<20	<10	510	180	<20			
APR 03...	<20	<50	<10	<10	<20	<20	<20	<10	340	170	<20			
JUL 02...	<20	<50	<10	<20	<20	<20	<20	<20	300	100	<20			
SEP 30...	<20	50	<10	<20	<20	<20	<20	<20	340	210	<20			
DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	TI- ANIUM, DIS- SOLVED (UG/L AS TI) (01150)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)				
DEC 10...	780	800	<20	<20	<20	100	<20	<20	<20	<20	0.02			
APR 03...	720	800	<20	<20	<20	96	<20	<20	<20	<20	<0.02			
JUL 02...	620	480	<20	<20	<20	90	<20	<20	<20	30	--			
SEP 30...	560	850	--	<20	<20	90	<20	<20	--	20	0.03			

STREAMS ON LONG ISLAND

01308000 SAMPAWAMS CREEK AT BABYLON, NY

LOCATION.--Lat $40^{\circ}42'15''$, long $73^{\circ}18'52''$, Suffolk County, Hydrologic Unit 02030202, on left bank at upstream side of John Street Bridge in Babylon, 180 ft downstream from Long Island Railroad, and 0.6 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 23 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year (monthly means estimated December 1966 to November 1987).

REVISED RECORDS.--WSP 1141: Drainage area. WSP 1702: 1955(M), 1956(M). WRD NY 1974: 1970(P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft above National Geodetic Vertical Datum of 1929. October 1944 to December 1966, water-stage recorder at site 100 ft east at datum 0.34 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for Oct. to Dec. and Sept., which are fair. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumping for water-supply purposes at Smith Street substation 0.2 mi northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 88 ft/s and maximum (*):

Date	Time	Discharge	Gage height	Date	Time	Discharge	Gage height
		(ft ³ /s)	(ft)			(ft ³ /s)	(ft)
Oct. 13	1015	*212	*3.08	Jan. 12	0500	107	1.72
Oct. 18	2200	114	1.81	Mar. 2	1115	95	1.57
Oct. 23	2400	112	1.79	Aug. 19	1200	165	2.46

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	11	13	15	12	14	14	12	9.2	8.2	5.1
2	11	18	11	14	15	27	14	13	11	9.2	6.1	5.1
3	11	17	12	13	15	22	13	13	10	8.9	5.9	5.7
4	11	17	24	13	15	33	14	14	11	8.4	6.3	5.8
5	11	17	15	13	14	19	14	13	11	15	7.4	11
6	11	17	13	13	14	17	14	24	11	17	6.7	7.3
7	11	16	12	13	14	18	14	18	10	16	6.1	6.6
8	11	15	12	13	14	16	13	15	10	12	6.1	6.0
9	18	15	11	21	14	15	13	14	9.9	7.5	8.0	5.9
10	13	24	11	16	13	15	13	15	9.6	7.1	18	6.4
11	11	19	11	15	13	15	12	14	10	6.9	8.4	6.3
12	11	16	11	47	12	15	11	13	16	6.7	6.9	5.7
13	93	15	10	22	13	14	12	13	12	10	6.2	5.7
14	55	14	9.7	18	15	16	13	13	10	8.0	6.0	6.5
15	23	14	15	18	13	17	15	15	10	7.0	6.3	6.4
16	20	14	18	30	12	16	14	13	9.8	6.6	5.9	6.4
17	19	14	13	26	12	15	16	12	9.7	6.4	5.6	6.4
18	30	13	17	21	13	19	16	12	10	6.5	4.7	6.6
19	33	13	13	19	15	18	13	12	17	6.7	71	8.8
20	21	12	12	19	14	16	12	12	18	7.0	19	10
21	20	12	12	19	13	15	31	12	13	7.4	18	8.3
22	18	12	12	18	13	14	19	12	9.9	7.0	7.8	7.6
23	37	13	12	18	12	17	15	11	11	14	5.9	7.6
24	46	16	19	17	12	17	14	12	9.8	8.8	5.9	7.7
25	23	13	13	17	11	15	14	11	9.4	7.9	5.0	13
26	21	12	12	16	12	14	14	11	9.1	7.6	5.2	24
27	20	12	12	16	12	14	14	11	8.4	7.1	5.1	12
28	19	12	14	16	12	14	14	14	8.8	6.7	5.1	9.9
29	20	12	15	18	---	14	13	11	8.8	6.5	5.2	8.9
30	19	11	15	16	---	16	16	12	9.1	6.4	5.0	7.7
31	18	---	15	17	---	14	---	16	---	6.2	6.0	---
TOTAL	697	443	412.7	563	372	519	434	415	325.3	267.7	289.0	240.4
MEAN	22.5	14.8	13.3	18.2	13.3	18.7	14.5	13.4	10.8	8.64	9.32	8.01
MAX	93	24	24	47	15	33	31	24	18	17	71	24
MIN	11	11	9.7	13	11	12	11	11	8.4	6.2	4.7	5.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1991, BY WATER YEAR (WY)

MEAN	8.99	8.36	9.45	10.4	11.0	12.4	13.4	11.8	10.1	8.83	8.36	7.41
MAX	18.1	19.8	14.2	19.6	18.6	20.1	23.7	20.7	24.3	21.9	20.5	16.3
(WY)	1990	1956	1984	1978	1979	1958	1983	1989	1989	1975	1989	1989
MIN	3.95	4.30	4.23	5.13	5.77	6.97	5.98	5.79	4.70	3.38	3.43	3.79
(WY)	1988	1951	1968	1981	1947	1988	1986	1986	1986	1988	1988	1986

STREAMS ON LONG ISLAND

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01308000 SAMPAWAMS CREEK AT BABYLON, NY--Continued

SUMMARY STATISTICS		FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1945 - 1991		
ANNUAL TOTAL		5479.9			4978.1			9.88		
ANNUAL MEAN		15.0			13.6			15.4		
HIGHEST ANNUAL MEAN								5.55		
LOWEST ANNUAL MEAN								1.7		
HIGHEST DAILY MEAN		93 Oct 13			93 Oct 13			78 Oct 16 1955		
LOWEST DAILY MEAN		7.3 Jan 5			4.7 Aug 18			1.7 May 29 1976		
ANNUAL SEVEN-DAY MINIMUM		8.5 Jan 2			5.2 Aug 24			2.6 Aug 17 1988		
INSTANTANEOUS PEAK FLOW					212a Oct 13			212a Oct 13 1990		
INSTANTANEOUS PEAK STAGE					3.08 Oct 13			3.28 Feb 7 1971		
INSTANTANEOUS LOW FLOW					4.4 Aug 18			1.3b Sep 13 1986		
10 PERCENT EXCEEDS		20			19			16		
50 PERCENT EXCEEDS		13			13			8.8		
90 PERCENT EXCEEDS		10			6.4			4.8		

a From rating curve extended above 110 ft³/s.

b Result of regulation, also occurred on Sept 14 1988.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1986 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC COND- DUCT- FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKALI- NITY WAT WH TOT FET FIELD MG/L AS CACO ₃ (00410)
DEC 10...	1045	11	216	5.9	8.0	8.4	13	3.1	17	2.9	30
APR 03...	1400	13	125	5.9	11.0	9.8	16	3.6	18	3.1	--
JUL 08...	1000	18	106	6.1	19.0	1.5	13	2.3	11	2.0	--
DATE		SULFATE DIS- SOLVED (MG/L) AS SO ₄ (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS Cl (00940)	NITRO- GEN NITRATE TOTAL (MG/L) AS N (00620)	NITRO- GEN NITRITE TOTAL (MG/L) AS N (00615)	NITRO- GEN NO ₂ +N ₀₃ TOTAL (MG/L) AS N (00630)	NITRO- GEN AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00623)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P (00666)
DEC 10...	24	24	--	--	2.6	0.77	0.81	0.76	<0.01	<0.01	0.016
APR 03...	24	25	--	--	2.6	0.74	0.68	--	<0.01	--	<0.005
JUL 08...	16	18	--	--	1.20	0.22	--	--	--	--	0.125

STREAMS ON LONG ISLAND

01308000 SAMPAWAMS CREEK AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01096)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CD) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
DEC 10...	20	<20	<20	<50	<10	<10	<20	<20	<10	540	360
APR 03...	<50	<20	<20	<50	<10	<10	<20	<20	<10	730	370
JUL 08...	<50	<20	<20	<50	<10	<20	<20	<20	<20	760	300
DATE	MANGA- NESE, LEAD, TOTAL, DIS- RECOV- ERABLE (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01058)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	TI- ANIUM, DIS- SOLVED (UG/L AS TI) (01150)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
DEC 10...	<20	890	810	<20	<20	<20	80	<20	<20	<20	0.08
APR 03...	<20	940	840	<20	<20	<20	80	<20	<20	20	0.06
JUL 08...	<20	590	420	<20	<20	<20	50	<20	<20	<20	--

STREAMS ON LONG ISLAND

65

01308500 CARLLS RIVER AT BABYLON, NY

LOCATION.--Lat $40^{\circ}42'31''$, long $73^{\circ}19'44''$ Suffolk County, Hydrologic Unit 02030202, on left bank 130 ft downstream from outlet of Southards Pond in Babylon, and 0.9 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 35 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WSP 1141: Drainage area. WRD NY 1972: 1947(m), 1952(m), 1954(m), 1958(m), 1960-63(m).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated period, Mar. 18-29, which are fair. Occasional regulation at outlet of Southards Pond.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	40	28	e36	36	28	35	36	33	18	17	24
2	27	39	28	e34	34	44	34	35	26	18	18	23
3	23	39	28	34	34	53	33	33	25	19	15	23
4	21	38	65	34	34	85	33	31	26	18	15	23
5	23	37	46	33	34	56	33	30	24	26	19	33
6	23	37	35	33	34	45	33	60	23	23	18	26
7	22	34	33	32	37	48	32	57	23	21	15	23
8	22	34	32	31	36	42	31	39	22	20	15	22
9	45	33	31	40	34	39	31	36	21	19	17	21
10	34	53	30	49	32	38	31	36	21	18	45	21
11	28	53	29	35	31	36	30	34	21	17	23	20
12	24	38	29	96	30	35	29	32	33	17	18	19
13	137	34	29	68	31	35	31	32	28	24	17	19
14	149	33	28	47	41	36	35	31	23	23	17	21
15	63	33	34	43	33	41	38	39	22	18	17	20
16	51	32	58	68	31	38	38	32	21	17	17	20
17	44	32	38	85	30	35	38	30	20	16	18	19
18	49	31	46	55	30	e40	46	30	20	16	15	19
19	98	30	41	50	38	e45	35	28	38	15	154	21
20	52	30	34	47	36	e40	33	28	48	15	99	31
21	44	29	33	48	32	e35	74	28	27	15	80	21
22	42	29	37	44	32	e34	59	28	24	14	42	19
23	58	30	34	41	30	e44	43	26	23	23	35	19
24	147	39	50	41	29	e44	40	26	22	34	35	20
25	72	31	38	39	28	e36	38	27	21	21	33	26
26	58	29	34	38	29	e35	36	25	21	22	30	61
27	51	29	32	38	31	e35	36	24	21	22	29	32
28	47	29	35	38	30	e35	34	32	20	18	28	25
29	45	31	40	39	---	e35	34	25	19	18	26	23
30	44	29	40	39	---	43	39	25	18	18	26	23
31	42	---	e40	39	---	36	---	35	---	18	26	---
TOTAL	1612	1035	1135	1394	917	1271	1112	1010	734	601	973	717
MEAN	52.0	34.5	36.8	45.0	32.7	41.0	37.1	32.6	24.5	19.4	31.4	23.9
MAX	149	53	65	96	41	85	74	60	48	34	154	61
MIN	21	29	28	31	28	28	29	24	18	14	15	19

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1991, BY WATER YEAR (WY)

MEAN	21.1	24.5	27.2	28.6	30.2	33.1	34.3	30.7	26.5	22.7	22.0	20.3
MAX	52.0	50.3	48.8	55.8	49.3	54.5	64.3	53.8	50.7	49.6	40.7	36.4
(WY)	1991	1956	1978	1978	1979	1979	1983	1989	1989	1984	1990	1960
MIN	10.5	11.3	12.3	13.6	15.1	18.5	13.2	14.1	11.8	8.57	9.66	9.67
(WY)	1966	1966	1966	1966	1967	1966	1966	1986	1986	1966	1966	1965

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1945 - 1991

ANNUAL TOTAL	13349		12511		26.7							
ANNUAL MEAN	36.6		34.3		39.9							
HIGHEST ANNUAL MEAN					14.1							
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	196	Aug 24	154	Aug 19	205	Jan 26	1978					
LOWEST DAILY MEAN	20	Aug 5	14	Jul 22	4.5	Jul 6	1966					
ANNUAL SEVEN-DAY MINIMUM	22	Jul 30	15	Jul 16	7.4	Aug 4	1966					
INSTANTANEOUS PEAK FLOW			290a	Aug 19	300a	Aug 24	1990					
INSTANTANEOUS PEAK STAGE			2.29	Aug 19	2.39	Aug 24	1990					
INSTANTANEOUS LOW FLOW			14b	Jul 21	.05c	Sep 4	1963					
10 PERCENT EXCEEDS	50		48		41							
50 PERCENT EXCEEDS	33		32		24							
90 PERCENT EXCEEDS	25		19		14							

a From rating curve extended above 190 ft³/s.

b Also occurred on Jul 22 and Aug 4.

c Also occurred on Jul 6 1966 and Aug 29 1972, result of regulation.

STREAMS ON LONG ISLAND

01308500 CARLLS RIVER AT BABYLON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
DEC 10...	0930	30	213	6.2	5.5	10.1	12	2.7	18	2.9	26
APR 08...	1340	31	131	6.0	17.5	8.0	11	2.6	16	2.6	--
JUL 08...	1145	20	122	6.0	22.5	6.4	12	3.0	17	3.0	--
DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN NITRATE TOTAL (MG/L AS N) (00615)	NITRO- GEN NO2-N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN AM- MONIA + AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00685)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)
DEC 10...	26	24	--	--	2.7	1.06	1.3	1.3	<0.01	<0.01	0.015
APR 08...	30	25	--	--	3.1	0.64	0.8	--	<0.01	--	<0.005
JUL 08...	28	23	--	--	2.2	0.17	--	--	--	--	<0.005
DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
DEC 10...	20	<20	<20	<50	--	<10	<20	<20	<10	420	180
APR 08...	<50	<20	<20	<50	<10	<10	<20	<20	<10	450	120
JUL 08...	<50	<20	<20	<50	<10	<20	<20	<20	<20	270	140
DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	TI- TANIUM, DIS- SOLVED (UG/L AS TI) (01150)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
DEC 10...	<20	970	830	<20	<20	<20	70	<20	<20	<20	0.04
APR 08...	<20	1600	1200	<20	<20	<20	58	<20	<20	<20	<0.04
JUL 08...	<20	790	700	<20	<20	<20	70	<20	<20	<20	--

STREAMS ON LONG ISLAND

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01309000 SANTAPOQUE CREEK AT LINDENHURST, NY

LOCATION:--Lat 40°41'30", long 73°21'20", Suffolk County, Hydrologic Unit 02030202, on left bank just upstream from East Hoffman Avenue bridge, 1.0 mi east of Long Island Railroad station in Lindenhurst, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--About 7 square miles.

PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Partial-record discharge data included in this report.

COOPERATION.--All water-quality samples were collected and analyzed by Suffolk County Department of Health Services.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (00010)	OXYGEN, DIS- SOLVED (00300)	CALCIUM DIS- SOLVED (00915)	MAGNE- SIUM, DIS- SOLVED (00925)	SODIUM, DIS- SOLVED (00930)	POTAS- SIUM, DIS- SOLVED (00935)	ALKA- LINITY WAT TOT FIELD MG/L CACO3 (00410)	SULFATE DIS- SOLVED (00945)
DEC 10...	0815	219	6.3	8.0	8.3	19	4.2	31	5.0	65	29
APR 03...	1500	201	6.3	15.0	8.8	23	4.8	39	7.5	--	30
JUL 08...	0830	167	6.0	17.0	5.0	19	3.9	25	4.3	--	32
DATE		CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN N02+N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00685)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00686)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01108)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)
DEC 10...		50	0.98	2.4	2.5	2.4	<0.01	<0.01	0.014	20	<20
APR 03...		56	1.2	3.48	3.3	--	<0.01	--	<0.005	<50	<20
JUL 08...		45	1.4	1.6	--	--	--	--	<0.005	<50	<20
DATE		ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
DEC 10...		<20	60	<10	<10	<20	<20	<10	740	850	<20
APR 03...		<20	60	<10	<10	<20	<20	<10	1100	600	<20
JUL 08...		<20	50	<10	<20	<20	<20	<20	750	550	<20
DATE		MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01080)	NICKEL, DIS- SOLVED (UG/L AS NT) (01085)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	TI- TANIUM, DIS- SOLVED (UG/L AS TI) (01150)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38280)
DEC 10...		240	2000	<20	<20	<20	130	<20	<20	<20	0.04
APR 03...		2300	2000	<20	<20	<20	130	<20	<20	<20	0.04
JUL 08...		1800	2000	<20	<20	<20	110	<20	<20	28	--

STREAMS ON LONG ISLAND

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY

LOCATION.--Lat $40^{\circ}41'20''$ long $73^{\circ}27'19''$, Nassau County, Hydrologic Unit 02030202, on left bank 3000 ft upstream from Clark Boulevard Bridge in Massapequa, and 350 ft west of Lake Shore Drive at Garfield Street in Massapequa Park. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 38 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1903, December 1936 to current year (monthly means estimated December 1959 to February 1961). Published as Massatayun Creek at Massapequa, December 1936 to September 1941.

REVISED RECORDS.--WSP 1411: Drainage area. WRD NY 1970: 1966-89 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft above National Geodetic Vertical Datum of 1929. Prior to October 1903, non-recording gage at different datum. December 1936 to March 1981, at same site at datum 1.0 ft higher.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1130	172	1.71			149	1.64
Oct. 23	2315	*275	*1.97	Aug. 10	0145		
Jan. 12	0700	155	1.66	Aug. 19	1245	271	1.98
Mar. 4	0115	125	1.56	Aug. 21	0200	114	1.52

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	11	6.7	8.6	10	8.0	8.7	9.4	8.5	3.5	2.4	4.5
2	5.6	11	6.7	8.5	10	20	8.4	8.8	6.5	2.8	2.2	4.5
3	5.4	10	8.5	8.1	10	17	8.1	8.4	5.7	2.9	2.1	4.5
4	5.7	9.7	29	7.8	9.5	42	8.1	8.1	9.4	2.7	4.1	4.5
5	5.9	9.1	10	7.7	9.1	14	8.1	8.0	8.1	9.2	3.3	8.2
6	5.2	8.9	8.7	7.7	9.1	13	8.0	29	5.2	3.9	1.9	4.9
7	5.1	8.5	8.0	7.4	11	15	8.0	18	4.7	3.7	1.8	4.3
8	4.9	8.3	7.7	7.2	9.6	11	8.0	11	4.5	3.4	1.7	3.9
9	23	8.3	7.6	17	9.0	11	8.4	10	3.9	3.1	8.2	3.8
10	7.0	26	7.2	10	8.6	11	8.3	9.8	3.8	2.7	33	3.7
11	6.7	12	6.9	8.8	8.6	10	8.3	8.7	4.4	2.6	5.0	3.5
12	6.7	9.6	8.9	53	8.1	10	7.8	8.5	16	2.2	3.6	3.2
13	50	8.7	7.1	15	8.3	10	8.1	8.4	6.7	8.4	3.1	3.2
14	29	8.3	6.7	13	11	11	9.2	8.0	4.7	3.4	2.9	4.3
15	11	8.1	15	12	9.0	11	14	11	4.4	2.6	4.8	3.4
16	9.3	8.1	17	35	8.2	9.6	9.4	7.4	3.9	2.2	2.8	3.3
17	8.3	8.1	8.6	20	8.1	9.1	12	7.4	3.7	2.1	2.3	3.2
18	18	7.7	17	16	8.5	16	13	7.1	3.7	1.9	2.2	3.1
19	21	7.7	9.5	14	12	12	8.4	6.7	23	1.9	103	4.2
20	9.1	7.7	8.2	14	10	10	8.0	6.6	8.0	1.9	19	7.0
21	8.3	7.5	8.4	14	8.4	9.1	41	6.6	5.6	2.3	33	3.3
22	8.5	7.3	9.2	12	8.6	9.2	15	6.4	5.0	1.8	12	2.9
23	56	7.8	8.2	12	7.8	14	12	6.0	4.5	16	9.6	2.9
24	74	11	18	12	7.7	12	11	5.9	3.9	6.5	9.6	2.9
25	20	7.7	8.7	11	7.7	9.9	10	6.0	3.7	5.0	7.2	10
26	16	7.3	8.1	11	9.0	9.0	9.7	5.5	3.5	7.7	6.7	24
27	14	7.3	7.7	11	8.7	9.1	9.7	5.6	3.3	4.9	6.3	6.3
28	13	7.2	8.6	11	7.9	9.0	9.0	12	3.1	3.3	5.8	5.1
29	12	7.3	11	10	---	9.2	8.6	5.6	3.0	3.1	5.4	4.4
30	11	6.9	11	10	---	13	12	7.6	4.1	2.7	4.9	3.8
31	11	---	11	12	---	9.0	---	20	---	2.6	5.4	---
TOTAL	486.8	274.1	312.9	416.8	253.5	383.2	318.3	282.5	176.5	123.0	315.3	150.8
MEAN	15.7	9.14	10.1	13.4	9.05	12.4	10.6	9.11	5.88	3.97	10.2	5.03
MAX	74	26	29	53	12	42	41	29	23	16	103	24
MIN	4.9	6.9	8.7	7.2	7.7	8.0	7.8	5.5	3.0	1.8	1.7	2.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1991, BY WATER YEAR (WY)

MEAN	7.58	9.04	9.73	11.1	12.0	14.1	15.3	13.4	11.1	9.02	8.62	7.31
MAX	18.6	24.5	18.8	33.2	25.7	28.7	33.3	32.5	28.7	25.7	22.9	18.2
(WY)	1958	1968	1973	1979	1973	1939	1953	1979	1952	1984	1955	1938
MIN	1.95	2.01	2.12	2.71	3.72	3.85	2.91	2.92	1.95	1.90	1.73	1.47
(WY)	1987	1966	1966	1966	1989	1966	1966	1986	1986	1986	1986	1986

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, NY--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1937 - 1991
ANNUAL TOTAL	3730.3	3493.7	
ANNUAL MEAN	10.2	9.57	10.8
HIGHEST ANNUAL MEAN			19.4
LOWEST ANNUAL MEAN			3.19
HIGHEST DAILY MEAN	160	Aug 24	191
LOWEST DAILY MEAN	3.0	Aug 4	1.0
ANNUAL SEVEN-DAY MINIMUM	3.1	Jul 30	2.0
INSTANTANEOUS PEAK FLOW			275a
INSTANTANEOUS PEAK STAGE			Oct 23
INSTANTANEOUS LOW FLOW			1.97
10 PERCENT EXCEEDS	15		510a
50 PERCENT EXCEEDS	7.7	15	2.40
90 PERCENT EXCEEDS	5.3	8.2	1.2
		3.2	Jul 29 1980
			0.48c
			Jul 29 1980
			Nov 21 1987
			20
			8.7
			3.6

a From rating curve extended above 200 ft³/s.

b Also occurred on Jul 23 and Aug 8.

c Result of regulation.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00081)	SPE-CIFIC COND- DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRESS- URE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)	SODIUM, DIS- SOLVED (MG/L) (00930)
OCT 30...	1035	11	260	6.6	11.0	775	9.5	18	3.3	24
JAN 03...	1110	8.1	257	6.5	7.0	777	10.4	19	3.4	24
APR 02...	1115	8.1	253	6.8	13.0	774	13.1	18	3.5	23
JUL 03...	0845	2.9	255	6.6	19.0	759	6.0	18	3.7	22
DATE	POTAS- SIUM, DIS- SOLVED (MG/L) (00935)	ALKA- LINITY, LAB (MG/L) (90410)	SULFATE DIS- SOLVED (MG/L) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) (00950)	SILICA, DIS- SOLVED (MG/L) (00955)	NITRO- GEN, NITRITE TOTAL (MG/L) (00615)	NITRO- GEN, NITRITE TOTAL (MG/L) (00613)	NITRO- GEN, NITRITE TOTAL (MG/L) (00630)	NITRO- GEN, NITRITE TOTAL (MG/L) (00610)
OCT 30...	3.1	27	27	37	<0.1	8.6	0.028	0.024	3.0	0.43
JAN 03...	3.1	26	30	39	0.1	8.5	0.016	0.017	3.2	0.59
APR 02...	3.5	22	36	38	0.2	7.9	0.027	0.015	3.3	0.41
JUL 03...	3.0	27	28	36	<0.1	6.3	0.013	0.017	2.2	0.11
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) (00623)	PHOS- PHORUS DIS. (AS P) (00665)	PHOS- PHORUS ORTHO, TOTAL (MG/L) (70507)	PHOS- PHORUS ORTHO, TOTAL (MG/L) (00671)	IRON, DIS- SOLVED (UG/L) (01045)	IRON, DIS- SOLVED (UG/L) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L) (01055)	METHY- LENE, BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 30...	0.43	0.80	1.00	0.015	0.008	0.001	410	140	830	0.06
JAN 03...	0.60	0.70	0.70	0.011	<0.001	<0.001	250	90	800	0.07
APR 02...	0.39	0.70	0.70	0.002	<0.001	<0.001	290	74	570	0.07
JUL 03...	0.08	0.40	0.40	0.019	0.004	<0.001	260	110	380	0.07

STREAMS ON LONG ISLAND

01310000 BELLMORE CREEK AT BELLMORE, NY

LOCATION.--Lat $40^{\circ}40'43''$ long $73^{\circ}30'58''$, Nassau County, Hydrologic Unit 02030202, on right bank 40 ft east of intersection of Valentine Place and Mill Road, in Bellmore, 0.5 mi north of Sunrise Highway, and 0.5 mi northwest of Wantagh. Water-quality sampling site at base gage.

DRAINAGE AREA.--About 17 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to October 1883 (fragmentary), July to October 1903, published in Professional Paper 44, September 1937 to current year. Prior to October 1957, published as Wantagh Stream at Wantagh. October 1957 to October 1967, published as Wantagh Stream at Bellmore.

GAGE.--Base gage (01309950): Water-stage recorder. Concrete control since July 24, 1974. Datum of gage is 15.06 ft above National Geodetic Vertical Datum of 1929. June to October 1883, determination of flow by various methods at different site and datum. July to October 1903, nonrecording gages on two channels near present site at different datum. Sept. 23, 1937 to Aug. 1, 1958, water-stage recorder with concrete control on right bank of present secondary channel about 1,000 ft east at datum 1.88 ft higher (used as supplementary gage since Aug. 1, 1958).

Supplementary gage (01309990): Water-stage recorder with concrete control on right bank of secondary channel about 1,000 ft east of base gage at datum of 16.98 ft National Geodetic Vertical Datum of 1929. Prior to July 28, 1965, at datum 2.00 ft higher. From July 28, 1965 to Oct. 6, 1965, at datum 1.00 ft higher.

REMARKS.--Records good. No estimated daily discharges. Prior to Nov. 4, 1955, flow at all stages regulated intermittently at outlet of Wantagh Reservoir, 1.0 mi above station, and prior to November 1953 by Browning Pond, 0.5 mi above station. Subsequent to Nov. 3, 1955, permanent diversion of a substantial portion of the flow through west branch of Bellmore Creek. Discharge figures given are those of combined flows in main and secondary channels.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	9.2	5.3	6.5	7.7	6.2	6.6	7.0	5.9	3.4	2.2	3.1
2	4.4	9.0	5.0	6.5	7.9	14	6.3	6.5	4.9	3.2	1.8	3.0
3	4.4	9.0	8.9	6.1	8.0	18	6.1	6.2	4.8	3.3	1.7	3.2
4	4.6	8.5	22	6.1	7.5	28	6.0	5.9	6.4	2.9	1.9	3.0
5	5.4	8.4	7.4	6.1	7.6	9.8	6.2	5.8	5.3	7.3	1.7	6.1
6	4.5	8.3	6.2	6.1	7.7	9.0	6.3	33	4.8	3.6	1.7	3.4
7	4.3	8.4	5.8	5.6	9.5	11	5.8	9.6	4.4	3.2	1.7	3.2
8	4.3	8.2	5.7	5.6	8.2	8.3	5.8	7.3	4.2	3.4	1.6	2.7
9	15	8.4	5.3	14	7.8	8.1	5.8	6.7	4.0	2.5	11	2.5
10	5.0	22	5.2	8.0	7.3	7.8	5.4	6.5	3.9	2.3	13	2.6
11	4.7	9.2	4.7	6.7	7.1	7.8	5.2	6.3	4.4	2.2	2.5	2.6
12	6.2	7.3	4.7	45	6.7	7.7	5.1	6.1	12	2.1	2.2	2.5
13	58	6.7	4.7	12	7.1	7.6	5.8	5.9	5.3	6.2	2.1	2.4
14	13	8.5	4.4	9.9	9.5	8.7	5.9	6.0	4.4	2.7	2.0	3.9
15	7.3	6.6	11	9.3	7.7	9.1	10	8.8	4.1	2.2	3.4	2.6
16	6.2	6.7	14	25	6.8	7.4	6.6	5.7	3.8	2.1	2.1	2.6
17	6.0	6.9	5.9	16	6.9	7.0	9.7	5.7	3.7	2.1	2.0	2.6
18	17	6.5	12	12	8.1	13	9.0	5.5	3.7	2.1	1.8	2.4
19	15	6.7	6.5	11	10	9.3	6.4	5.5	16	1.8	86	3.7
20	6.9	6.4	5.6	10	7.5	7.3	6.4	5.4	5.7	1.8	13	3.5
21	6.2	6.4	6.1	11	7.0	7.1	37	5.8	4.6	1.7	25	2.6
22	6.4	6.5	6.6	9.5	6.3	7.0	12	5.1	3.8	1.8	6.4	2.3
23	97	6.9	6.6	9.4	5.8	11	8.5	4.8	4.1	7.0	5.4	2.4
24	48	12	14	8.7	6.0	9.2	7.9	4.7	3.7	2.6	5.0	2.3
25	15	6.0	6.4	8.7	6.3	7.2	7.5	4.8	3.4	2.8	4.4	7.0
26	13	5.4	6.1	8.7	7.2	6.7	7.0	4.3	3.4	4.7	4.0	12
27	11	5.6	5.6	8.7	7.0	6.9	6.8	4.5	3.3	2.9	4.1	3.8
28	10	5.6	6.3	8.2	6.0	6.8	6.5	7.7	3.3	2.5	3.7	3.3
29	9.8	5.4	7.5	8.1	---	7.0	6.6	4.5	3.1	2.4	3.4	3.0
30	9.4	5.8	7.8	8.5	---	9.4	11	5.8	4.4	2.4	3.3	2.9
31	9.3	---	7.8	10	---	6.6	---	14	---	2.2	4.1	---
TOTAL	431.9	234.5	230.9	327.0	208.0	290.0	241.2	221.0	148.8	93.4	224.2	103.2
MEAN	13.9	7.82	7.45	10.5	7.43	9.35	8.04	7.13	4.96	3.01	7.23	3.44
MAX	97	22	22	45	10	28	37	33	16	7.3	86	12
MIN	4.3	5.4	4.4	5.6	5.8	6.2	5.1	4.3	3.1	1.7	1.6	2.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1991, BY WATER YEAR (WY)

MEAN	7.22	8.60	9.26	10.1	11.0	12.5	12.9	11.1	9.57	7.95	7.92	6.94
MAX	18.9	24.4	20.8	21.8	19.9	24.4	26.2	23.2	26.5	19.5	21.2	23.0
(WY)	1959	1958	1978	1978	1958	1981	1953	1958	1952	1975	1961	1960
MIN	.65	1.17	1.71	2.45	3.03	3.78	2.93	2.58	1.02	93	.69	.29
(WY)	1987	1988	1988	1989	1983	1988	1988	1986	1986	1986	1986	1986

01310000 BELLMORE CREEK NEAR BELLMORE, NY--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1937 - 1991
ANNUAL TOTAL	2946.5	2754.1	9.58
ANNUAL MEAN	8.07	7.55	19.7
HIGHEST ANNUAL MEAN			2.41
LOWEST ANNUAL MEAN			1961
HIGHEST DAILY MEAN	110	Aug 24	1986
LOWEST DAILY MEAN	2.2	Aug 5	
ANNUAL SEVEN-DAY MINIMUM	2.8	Jul 30	.00a
10 PERCENT EXCEEDS	13		.18
50 PERCENT EXCEEDS	5.6	11	17
90 PERCENT EXCEEDS	3.7	6.2	7.8
		2.5	3.0

a Also occurred on Jul 25 1986.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--01309950 (Base gage): April 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC COND- DUCT- ANCE FIELD (00094)	PH (STAND- ARD (00400)	TEMPE- RATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 30...	0910	6.9	269	6.6	10.5	774	7.8	18	3.1	29
JAN 03...	1000	4.8	259	6.5	8.0	778	8.1	19	3.2	29
APR 02...	1005	6.9	286	6.7	10.0	775	10.9	19	3.3	31
JUL 03...	0745	3.1	255	6.7	20.0	759	8.4	18	3.3	26
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB DIS- SOLVED (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00615)	NITRO- GEN, NITRITE, TOTAL DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 30...	2.7	35	23	45	<0.1	8.3	0.019	0.019	2.4	0.14
JAN 03...	2.4	33	28	43	0.1	8.6	0.019	0.019	2.9	0.19
APR 02...	2.8	33	33	43	0.2	8.2	0.015	0.011	3.1	0.06
JUL 03...	2.1	35	22	38	<0.1	6.0	0.033	0.032	1.6	0.05
DATE	NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	METHY- LENE, BLUE ACTIVE SUB- STANCE (MG/L) (38260)
OCT 30...	0.15	0.50	0.70	0.017	0.006	0.004	370	150	440	0.05
JAN 03...	0.19	0.30	0.40	0.012	<0.001	<0.001	340	89	320	0.06
APR 02...	0.04	0.20	0.20	<0.001	<0.001	<0.001	210	46	230	0.05
JUL 03...	0.02	0.50	0.30	0.017	0.001	<0.001	3200	130	390	0.05

STREAMS ON LONG ISLAND

01310500 EAST MEADOW BROOK AT FREEPORT, NY

LOCATION.--Lat $40^{\circ}39'58''$, long $73^{\circ}34'13''$, Nassau County, Hydrologic Unit 02030202, on right bank 24 ft upstream from bridge on Hempstead-Babylon Turnpike and 400 ft west of Meadowbrook Parkway, in Freeport. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 31 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1851 to December 1852, June to October 1883, September and October 1885 (fragmentary), June to October 1903, published in Professional Paper 44, January 1937 to current year (monthly means estimated November 1962 to December 1963).

REVISED RECORDS.--WRD NY 1972: 1967-71 (P). WDR NY 1977: 1973-76 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.45 ft above National Geodetic Vertical Datum of 1929. Prior to October 1885, determinations of flow by various methods at different site and datum. June to October 1903, weir in swamp at head of Brooklyn waterworks supply pond. January 1937 to November 1962, water-stage recorder and concrete control at site 81 ft east at datum 0.47 ft higher.

REMARKS.--No estimated daily discharges. Records good except those below 5 ft³/s, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1200	320	1.99	May 6	1430	344	2.08
Oct. 24	0030	*681	*3.13	Aug. 19	1415	555	2.77
Jan. 12	0700	296	1.90	Aug. 21	0200	296	1.90
Mar. 4	0200	314	1.97				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	9.6	6.0	7.4	9.0	6.6	7.6	8.8	9.4	5.8	1.8	3.9
2	5.4	9.5	5.9	7.2	9.0	17	7.2	8.0	5.0	3.8	1.7	4.0
3	5.1	9.0	9.4	6.8	9.1	18	6.9	7.9	4.6	4.5	1.5	3.3
4	5.3	8.9	62	8.4	9.4	80	6.9	7.1	26	3.5	1.5	3.3
5	5.7	8.4	14	6.4	9.0	14	6.9	6.9	6.6	12	1.7	6.9
6	5.3	8.9	9.8	6.4	9.0	11	6.9	90	4.5	4.9	1.2	3.5
7	5.1	8.3	8.4	6.0	12	14	6.9	19	4.1	4.5	1.1	2.8
8	5.1	8.1	7.7	5.9	9.6	9.4	6.9	12	3.6	4.2	1.1	2.6
9	30	8.4	7.4	23	8.9	9.0	6.9	10	3.2	3.3	12	2.3
10	7.4	44	7.1	11	8.6	8.6	6.9	9.6	3.2	2.9	19	2.2
11	5.5	14	6.5	8.9	8.3	8.3	6.9	8.9	3.8	3.0	2.9	2.1
12	14	9.6	6.4	87	7.9	7.9	6.9	8.6	25	2.6	1.9	1.9
13	88	9.3	6.3	17	8.2	7.4	6.9	7.8	8.6	18	1.6	1.9
14	19	8.1	5.7	12	12	9.2	6.9	7.6	5.2	4.7	1.5	5.5
15	10	7.9	20	11	8.6	12	6.9	12	5.1	3.1	4.2	2.8
16	8.4	7.9	22	39	7.6	8.9	7.3	7.1	4.9	2.8	2.4	2.1
17	7.3	7.9	8.1	22	7.6	7.4	7.7	6.8	4.9	2.8	1.6	2.0
18	25	7.5	21	13	7.9	19	9.4	6.6	4.7	2.4	1.4	1.9
19	39	7.3	9.2	12	17	12	9.3	6.1	43	2.0	182	3.1
20	9.8	7.0	7.4	11	10	8.8	9.0	6.1	12	1.8	28	5.0
21	8.1	6.9	7.5	13	8.1	7.9	11	5.9	6.8	1.6	71	2.4
22	7.6	6.9	11	11	7.9	7.6	14	5.5	5.7	1.6	12	2.0
23	105	8.2	7.8	10	7.3	14	13	5.0	5.3	19	9.1	2.0
24	117	18	25	10	7.3	13	12	5.1	4.9	9.5	9.2	2.0
25	21	7.9	8.4	9.6	7.4	9.0	11	4.9	4.5	12	6.3	16
26	15	6.7	7.3	9.6	10	7.6	9.1	4.6	4.2	9.5	5.8	39
27	12	6.4	6.6	9.6	11	7.5	9.0	4.7	4.0	6.2	5.3	4.5
28	12	6.4	7.7	9.6	7.4	7.6	8.6	22	3.7	2.9	5.1	2.9
29	11	6.5	11	9.4	---	7.6	8.1	5.7	3.6	2.7	4.8	2.4
30	10	6.2	11	9.6	---	15	13	6.0	7.7	2.7	4.2	2.2
31	9.8	---	11	14	---	7.9	---	26	---	2.1	5.1	---
TOTAL	635.1	289.7	364.4	434.8	255.1	393.2	256.0	352.3	237.8	162.4	408.0	138.5
MEAN	20.5	9.66	11.8	14.0	9.11	12.7	8.53	11.4	7.93	5.24	13.2	4.62
MAX	117	44	62	87	17	80	14	90	43	19	182	39
MIN	5.1	6.2	5.7	5.9	7.3	6.6	6.9	4.6	3.2	1.6	1.1	1.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1991, BY WATER YEAR (WY)

MEAN	10.8	12.0	12.6	13.8	15.0	16.7	18.4	16.7	14.5	12.9	12.3	11.0
MAX	27.3	29.6	23.8	37.0	28.8	31.7	36.2	34.2	34.3	34.7	39.6	34.0
(WY)	1956	1956	1955	1978	1949	1953	1980	1958	1984	1984	1955	1960
MIN	75	88	1.36	1.72	2.03	3.09	2.02	3.27	1.56	21	48	.42
(WY)	1987	1968	1966	1987	1967	1968	1968	1988	1988	1966	1966	1965

STREAMS ON LONG ISLAND

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01310500 EAST MEADOW BROOK AT FREEPORT, NY--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1937 - 1991
ANNUAL TOTAL	4919.6	3927.3	
ANNUAL MEAN	13.5	10.8	13.9
HIGHEST ANNUAL MEAN			23.3
LOWEST ANNUAL MEAN			2.51
HIGHEST DAILY MEAN	136	May 17	375
LOWEST DAILY MEAN	3.0	Aug 5	.00
ANNUAL SEVEN-DAY MINIMUM	3.9	Jul 30	.00
INSTANTANEOUS PEAK FLOW		681	848
INSTANTANEOUS PEAK STAGE		3.13	4.38a
INSTANTANEOUS LOW FLOW		1.0b	.00c
10 PERCENT EXCEEDS	22	17	24
50 PERCENT EXCEEDS	8.5	7.6	12
90 PERCENT EXCEEDS	5.6	2.7	2.4

a Datum then in use.

b Also occurred on Aug 8.

c Also occurred on Aug 15-23 1988.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE FIELD (00094)	PH (STAND- ARD (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
OCT 29...	1450	10	376	6.7	11.0	771	9.0	20	4.8	52	
JAN 03...	0855	8.9	488	6.5	5.5	778	9.4	17	4.2	71	
APR 02...	0900	8.9	331	6.6	9.0	774	9.8	18	4.0	45	
JUL 02...	1110	4.0	278	6.8	21.5	759	8.1	15	3.9	35	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB DIS- SOLVED (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00615)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NITRITE TOTAL DIS- SOLVED (MG/L AS N) (00630)	NITRO- GEN, NITRITE TOTAL DIS- SOLVED (MG/L AS N) (00610)
OCT 29...	2.4	39	22	81	<0.1	7.7	0.023	0.015	2.4	0.13	
JAN 03...	2.1	32	28	120	0.1	6.6	0.017	0.014	2.2	0.17	
APR 02...	2.0	32	31	69	0.2	5.4	0.020	0.017	2.0	0.05	
JUL 02...	2.3	40	18	49	<0.1	5.1	0.060	0.059	1.5	0.13	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00625)	NITRO- GEN, AMMONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, TOTAL (MG/L AS P) (00671)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	METHY- LENE, TOTAL RECOV- ERABLE (UG/L AS MN) (38260)
OCT 29...	0.14	0.80	0.60	0.011	0.002	0.007	560	300	210	0.05	
JAN 03...	0.16	0.30	0.40	0.003	<0.001	<0.001	550	300	250	0.08	
APR 02...	0.03	0.30	0.30	0.009	<0.001	<0.001	690	260	220	0.07	
JUL 02...	0.14	0.70	0.40	0.046	0.007	<0.001	240	140	70	0.11	

STREAMS ON LONG ISLAND

01311000 PINES BROOK AT MALVERNE, NY

LOCATION.--Lat 40°39'59", long 73°39'35", Nassau County, Hydrologic Unit 02030202, on left bank 300 ft downstream from Lakeview Avenue and southern boundary of Malverne. Water-quality sampling site at discharge station.

DRAINAGE AREA.--About 10 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1851-52, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44); December 1936 to current year (monthly means estimated March to September 1970).

REVISED RECORDS.--WSP 1432: 1937, 1940.

GAGE.--Water-stage recorder with steel plate V-notch weir and concrete controls. Datum of gage is 7.11 ft above National Geodetic Vertical Datum of 1929 (Nassau County Bench mark). Prior to 1894, determinations of flow by various methods, at different sites and datums. December 1936 to Oct. 1, 1970, at site 200 ft upstream at datum 2.31 ft higher. Oct. 1, 1970 to May 31, 1972, supplementary gage on secondary channel 10 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Prior to Feb. 20, 1956, flow occasionally regulated by Pines Pond. Indeterminate diversion from Pines Pond for emergency municipal water supply for City of New York, August 1953 to September 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 23	2100	312	4.21	Aug. 19	1130	*319	*4.23
Jan. 12	0430	208	3.91	Aug. 20	2400	224	3.96

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.94	.84	.77	1.4	1.1	1.3	1.7	2.9	.82	1.8	.52
2	.30	.94	.86	.81	1.4	4.8	1.3	1.8	1.2	4.2	1.9	.30
3	.29	.94	11	.78	1.4	13	1.2	1.8	4.7	2.5	1.1	.27
4	.33	.94	20	.77	1.4	20	1.2	1.5	11	1.4	.26	.23
5	.34	.94	1.3	1.0	1.4	2.1	1.4	1.4	1.1	5.3	.75	1.0
6	.29	.87	.88	1.1	1.7	2.0	1.5	37	.92	1.4	1.6	.22
7	.27	.75	.72	1.1	2.8	3.9	1.5	2.3	.83	.50	.47	.17
8	.27	.72	.68	1.1	1.6	1.8	1.5	1.8	.72	.35	.19	.16
9	9.7	.70	.59	10	1.5	1.8	1.5	1.6	.64	.29	17	.13
10	.50	16	.59	1.0	1.5	1.7	1.6	1.7	.60	.41	6.3	.13
11	.44	1.2	.68	.82	1.5	1.7	1.7	1.5	1.0	.78	.55	.13
12	5.5	.84	.77	38	1.4	1.7	1.4	1.3	.25	.52	.13	
13	29	.82	.78	2.2	1.5	1.6	1.6	1.5	3.0	9.2	1.3	.11
14	.94	.78	.65	1.7	2.6	1.9	2.9	3.0	1.6	.74	.26	1.5
15	.63	.85	7.5	1.6	1.4	2.2	7.2	5.9	1.6	.30	1.6	.16
16	.49	.95	6.4	15	1.2	1.5	2.1	1.6	.68	.53	.16	.15
17	.42	1.2	.75	2.9	1.2	1.5	10	1.7	.51	1.2	.13	.15
18	15	1.1	7.0	1.8	1.5	8.2	4.9	1.5	.51	.22	.11	.15
19	4.0	1.2	.81	1.7	4.0	3.6	3.4	1.4	17	.19	68	1.7
20	.78	.87	.66	1.7	1.5	1.7	2.0	1.4	1.3	.17	27	2.7
21	.70	.86	1.1	2.1	1.2	1.6	38	1.4	.98	.22	18	.13
22	.73	.86	1.3	1.6	1.2	1.5	4.4	1.4	.75	.23	4.3	.13
23	50	1.3	1.1	1.5	1.0	5.9	3.1	1.3	2.1	6.4	4.1	.14
24	7.4	5.0	8.1	1.5	1.1	2.9	4.6	1.2	2.0	1.3	5.8	.13
25	1.6	1.7	.76	1.4	1.2	1.4	2.3	1.2	2.3	7.5	2.8	21
26	1.2	1.1	.70	1.5	2.0	1.2	2.0	1.1	2.0	8.4	4.7	16
27	.97	.91	.66	1.4	2.2	1.3	2.0	1.1	1.5	2.0	3.7	.27
28	.98	.87	.68	1.4	1.1	1.3	1.8	14	1.8	1.3	1.7	.20
29	.98	.87	1.2	1.4	---	1.5	1.8	2.1	1.4	2.3	1.0	.20
30	1.2	.66	.85	1.5	---	5.5	2.8	6.1	1.6	1.4	.93	.20
31	1.0	---	1.8	2.9	---	1.3	---	7.7	---	1.8	1.9	---
TOTAL	136.56	47.68	81.71	104.03	44.9	103.2	114.1	112.1	81.24	63.60	179.93	48.41
MEAN	4.41	1.59	2.64	3.36	1.60	3.33	3.80	3.62	2.71	2.05	5.80	1.61
MAX	50	18	20	38	4.0	20	38	37	17	9.2	68	21
MIN	.27	.66	.59	.76	1.0	1.1	1.2	1.1	.51	.17	.11	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1991, BY WATER YEAR (WY)

MEAN	3.16	3.26	3.59	3.86	4.48	4.85	4.41	3.78	3.35	3.16	2.81
MAX	9.41	7.49	7.22	11.4	10.9	12.2	14.0	10.3	11.7	11.0	11.7
(WY)	1939	1952	1945	1949	1949	1939	1939	1984	1948	1955	1938
MIN	.000	.050	.019	.051	.099	.21	.31	.41	.027	.001	.002
(WY)	1983	1966	1986	1967	1983	1981	1966	1987	1971	1966	1981

STREAMS ON LONG ISLAND

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01311000 PINES BROOK AT MALVERNE, NY--Continued

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1937 - 1991
ANNUAL TOTAL	1046.11	1117.48	
ANNUAL MEAN	2.87	3.06	
HIGHEST ANNUAL MEAN			3.55
LOWEST ANNUAL MEAN			8.35
HIGHEST DAILY MEAN	50	Oct 23	.52
LOWEST DAILY MEAN	.20	Aug 5	1939
ANNUAL SEVEN-DAY MINIMUM	.28	Jul 30	1966
INSTANTANEOUS PEAK FLOW			
INSTANTANEOUS PEAK STAGE			
INSTANTANEOUS LOW FLOW			
10 PERCENT EXCEEDS	6.9	6.4	
50 PERCENT EXCEEDS	.98	1.4	8.1
90 PERCENT EXCEEDS	.49	.28	2.3
			.00

a From rating curve extended above 220 ft³/s.

b Also occurred on Aug 15, 17-19 and Sep 12-14, 21, 24.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC COND- DUCT- ANCE FIELD (US/CM) (00094)	BARO- METRIC PRES- SURE (MM HG)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, OF HG (00026)	CALCIUM DIS- SOLVED (MG/L AS CA) (00300)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00915)	SODIUM, DIS- SOLVED (MG/L AS NA) (00925)		
OCT 29...	1320	1.2	318	6.8	12.5	771	8.4	26	5.9	27	
JAN 02...	1515	0.82	343	6.7	10.0	776	8.7	25	5.5	35	
APR 01...	1400	1.5	275	6.7	10.5	771	8.3	25	5.7	29	
JUL 02...	0930	2.0	209	7.0	21.0	759	6.3	18	4.4	18	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY DIS- SOLVED (MG/L AS CACO ₃) (90410)	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO ₂) (00955)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00616)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITRO- GEN, TOTAL (MG/L AS N) (00610)
OCT 29...	3.3	56	29	42	<0.1	8.6	0.020	0.014	2.6	0.15	
JAN 02...	3.4	51	33	55	0.1	8.0	0.012	0.012	2.7	0.18	
APR 01...	3.6	47	33	38	<0.1	7.2	0.021	0.014	2.5	0.13	
JUL 02...	3.2	30	26	26	0.1	6.0	0.080	0.079	0.8	0.45	
DATE		NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00625)	NITRO- GEN, AMMONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00671)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	METHY- LENE, TOTAL RECOV- ERABLE (UG/L AS MN) (38260)
OCT 29...	0.15	0.50	0.60	0.020	0.009	0.009	350	73	190	0.07	
JAN 02...	0.18	0.40	0.40	0.009	<0.001	<0.001	220	130	240	0.06	
APR 01...	0.11	0.50	0.40	0.021	0.011	0.004	450	81	260	0.08	
JUL 02...	0.45	1.2	0.90	0.114	0.041	0.015	770	410	210	0.15	

STREAMS ON LONG ISLAND

01311500 VALLEY STREAM AT VALLEY STREAM, NY

LOCATION.--Lat 40°39'49", long 73°42'18", Nassau County, Hydrologic Unit 02030202, on right bank 40 ft upstream from West Valley Stream Boulevard in Valley Stream.

DRAINAGE AREA.--About 4.5 mi².

PERIOD OF RECORD.--1851-52, 1854, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44), July 1954 to current year. Prior to October 1956, published as Watts Creek at Valley Stream.

REVISED RECORDS.--WRD NY 1971: 1962-63(M), 1966-69(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft above National Geodetic Vertical Datum of 1929. Prior to 1894, determinations of flow by various methods, at different sites and datums. July 1954 to July 18, 1984 at same site at datum 1.0 ft higher.

REMARKS.--Records good except those above 140 ft³/s, which are fair. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.30	.10	.39	.51	.37	.64	1.6	.72	.13	.04	.02
2	.00	.38	.20	.39	.44	1.8	.65	.86	.27	.34	.00	.01
3	.00	.35	.73	.36	.46	3.6	.51	.50	.78	1.6	.00	.05
4	.00	.28	16	.36	.44	22	.63	.47	7.6	.16	.00	.06
5	.00	.32	1.6	.36	.48	1.6	.60	.48	.87	1.4	.00	.05
6	.00	.45	.56	.39	.43	1.0	.60	e33	.62	.47	.00	.00
7	.00	.30	.55	.27	.48	2.8	.55	3.9	.55	.23	.00	.00
8	.00	.27	.35	.10	.43	1.2	.51	1.3	.48	.18	.00	.00
9	3.5	.15	.28	4.9	.35	.74	.55	1.0	.38	.12	3.7	.51
10	.40	7.2	.25	1.8	.49	.65	.56	.88	.29	.09	7.6	.00
11	.23	2.5	.53	.39	.28	.67	.48	.81	.36	.07	.23	.00
12	.24	.90	.40	20	.44	.72	.46	.80	6.8	.07	.03	.00
13	20	.59	.32	1.7	.51	.79	.48	.75	2.6	3.4	.12	.00
14	2.1	.41	.31	.70	.75	1.1	.62	.89	.36	.59	.04	.00
15	.25	.29	2.1	.60	.74	1.2	1.9	8.6	.25	.04	.14	.00
16	.10	.25	4.9	8.5	.75	.91	1.5	.95	.29	.00	.01	.00
17	.19	.36	.49	2.8	.75	.72	1.7	.94	.36	.00	.00	.00
18	4.7	.28	3.8	.86	.70	3.7	3.5	.75	.36	.05	.00	.00
19	6.7	.10	.94	.64	1.5	2.8	.75	.56	8.4	.01	34	.00
20	.40	.14	.29	.62	.80	1.1	.60	.51	1.9	.00	16	.00
21	.23	.09	.36	.85	.52	.61	16	.61	.33	.00	21	.00
22	.18	.11	.59	.65	.42	.59	5.4	.55	.21	.00	3.1	.00
23	18	.26	.48	.56	.34	2.2	1.5	.37	.10	.27	1.3	.00
24	17	1.5	4.8	.51	.41	2.7	3.9	.43	.07	.56	.63	.00
25	.87	1.1	.68	.51	.29	.78	2.2	.41	.32	2.0	.37	4.8
26	.59	.74	.32	.51	.59	.60	1.0	.45	.20	.65	.36	9.9
27	.32	.44	.23	.51	.69	.61	.84	.43	.19	.13	.42	.28
28	.40	.46	.44	.51	.51	.63	.70	9.7	.17	.11	.37	.00
29	.32	.37	.43	.52	---	.60	.50	.74	.17	.14	.33	.00
30	.29	.15	.43	.55	---	3.0	.74	1.1	.10	.02	.23	.00
31	.28	---	.94	1.1	---	.99	---	1.6	---	.06	.22	---
TOTAL	77.33	21.04	44.30	52.91	15.50	62.78	50.57	75.94	36.10	12.89	90.24	15.66
MEAN	2.49	.70	1.43	1.71	.55	2.03	1.69	2.45	1.20	.42	2.91	.52
MAX	20	7.2	16	20	1.5	22	18	33	8.4	3.4	34	9.9
MIN	.00	.09	.10	.10	.28	.37	.46	.37	.07	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1991, BY WATER YEAR (WY)

MEAN	1.72	2.03	1.90	2.15	2.18	2.42	3.00	2.54	2.00	1.70	2.05	1.85
MAX	10.8	10.9	9.18	9.37	9.91	10.2	12.0	12.3	8.43	8.32	16.8	11.6
(WY)	1959	1956	1956	1958	1955	1956	1958	1958	1956	1956	1955	1954
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1966	1966	1966	1966	1980	1981	1981	1981	1966	1966	1965	1982

SUMMARY STATISTICS FOR 1990 CALENDAR YEAR FOR 1991 WATER YEAR WATER YEARS 1954 - 1991

ANNUAL TOTAL	565.33	555.26		
ANNUAL MEAN	1.55	1.52	2.09	
HIGHEST ANNUAL MEAN			8.86	1956
LOWEST ANNUAL MEAN			.11	1986
HIGHEST DAILY MEAN	27	Aug 24	140	Aug 12 1955
LOWEST DAILY MEAN	.00	Many days	.00	Many days
ANNUAL SEVEN-DAY MINIMUM	.00	Many days	.00	Many years
INSTANTANEOUS PEAK FLOW				
INSTANTANEOUS PEAK STAGE				
INSTANTANEOUS LOW FLOW				
10 PERCENT EXCEEDS	3.5	3.2	6.5	
50 PERCENT EXCEEDS	.37	.48	.16	
90 PERCENT EXCEEDS	.09	.00	.00	

a From rating curve extended above 130 ft³/s.

b From floodmarks.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site. Where "Drainage area" column is blank, drainage area was not available at time of publication.

Discharge measurements made at low-flow partial-record stations during water year 1991

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft/s)
Streams on Long Island						
01302200	Whitney Lake Outlet at Manhasset, N.Y.	Lat 40°47'30", long 73°42'32", Nassau County, at bridge on Creek Road, at Manhasset, 0.25 mi northwest of State Highway 25A.	--	1953-91	11-27-90 3-27-91	1.0 2.6
01302300	Roslyn Brook at Roslyn, N.Y.	Lat 40°47'55", long 73°38'51", Nassau County, at Roslyn, 200 ft downstream from dam in Roslyn Park.	--	1953-91	11-27-90 3-27-91	.56 .54
01302800	Island Swamp Brook at Lattingtown, N.Y.	Lat 40°53'25", long 73°37'10", Nassau County, at bridge on Lattingtown Road, 0.3 mi southwest of Lattingtown, and 1.5 mi northwest of Locust Valley.	--	1953-91	11-27-90 3-27-91	.81 .93
01303600	Mill Creek near Huntington, N.Y.	Lat 40°52'58", long 73°25'17", Suffolk County, at culvert on Creek Road, 300 ft west on New York Ave., 1 mi northeast of Huntington.	--	1953-91	11-27-90 3- 8-91	3.1 3.1
01303700	Stony Hollow Run at Centerport, N.Y.	Lat 40°53'05", long 73°21'41", Suffolk County, at culvert on State Highway 25A, 0.25 mi east of Centerport, and 1.5 mi southwest of Northport.	--	1953-91	11-27-90 3- 8-91	1.7 1.8
01303742	Fresh Pond Outlet at Fort Salonga, N.Y.	Lat 40°55'28", long 73°17'43", Suffolk County, 200 ft downstream from Fresh Pond outlet, 0.75 mi north of Fort Salonga.	--	1977-91	11-27-90 3- 8-91	1.0 1.8
00303790	Northeast Branch Nissequogue River near East Hauppauge, N.Y.	Lat 40°50'27", long 73°10'41", Suffolk County, at culvert on State Highway 347, 1.5 mi northwest of East Hauppauge, and 4.0 mi upstream from gaging station near Smithtown.	--	1972-87 1989-91	11-28-90 4- 4-91	1.4 1.7
01303800	Northeast Branch Nissequogue River at Smithtown, N.Y.	Lat 40°51'05", long 73°11'15", Suffolk County, 300 ft upstream from culvert on State Highway 111, 0.75 mi southeast of Smithtown, and 3.0 mi upstream from gaging station near Smithtown.	--	1948-49 1951-76 1979-91	11-28-90	3.0
01303850	Northeast Branch Nissequogue River near Hauppauge, N.Y.	Lat 40°50'43", long 73°11'50", Suffolk County, at culvert on Maple Avenue, 0.75 mi south of Smithtown, and 2.5 mi upstream from gaging station near Smithtown.	--	1972-91	11-28-90 4- 4-91	3.8 4.4

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01303900	Northeast Branch Nissequogue River near Smithtown, N.Y.	Lat 40°50'45", long 73°12'29", Suffolk County, 10 ft upstream from culvert at Brooksite Drive, 0.75 mi southwest of Smithtown, and 2.0 mi upstream from gaging station near Smithtown.	--	1953-91	11-28-90 4- 4-91	7.2 7.7
01303941	Nissequogue River near Hauppauge, N.Y.	Lat 40°50'30", long 73°13'43", Suffolk County, 30 ft downstream from dam at New Mill Road, 2 mi northwest of Hauppauge, and 0.5 mi upstream from gaging station near Smithtown.	--	1972-91	11-28-90 4- 4-91	38. 39.
01304010	Nissequogue River at Smithtown, N.Y.	Lat 40°51'48", long 73°12'05", Suffolk County, at culvert on Landing Ave. at Smithtown, and 1.5 mi downstream from gaging station near Smithtown.	--	1974-91	11-28-90 4- 4-91	59. 60.
01304051	Stony Brook at Stony Brook, N.Y.	Lat 40°54'53", long 73°08'52", Suffolk County, 100 ft downstream from Harbor Road, at Stony Brook.	--	1977-91	2-11-91 5-21-91	3.3 3.3
01304060	Unnamed tributary to Conscience Bay at Setauket, N.Y.	Lat 40°56'49", long 73°07'01", Suffolk County, 30 ft downstream from pond below Old Field Road, at Setauket.	--	1977-91	2-11-91 5-21-91	2.5 2.6
01304065	Unnamed tributary to Setauket Harbor at East Setauket, N.Y.	Lat 40°58'35", long 73°06'08", Suffolk County, at culvert on State Highway 25A, at East Setauket.	--	1977-91	2-11-91 5-21-91	.49 .50
01304070	Unnamed tributary to Port Jefferson Harbor at Port Jefferson, N.Y.	Lat 40°58'41", long 73°04'18", Suffolk County, at culvert on Barnum Ave., at Port Jefferson.	--	1977-91	2-11-91 5-21-91	.50 .59
01304100	Wading River at Wading River, N.Y.	Lat 40°57'20", long 72°51'19", Suffolk County, at pond outlet, 0.25 mi west of Wading River.	--	1953-62 1964-83 1985-86 1989-91	11-20-90 3- 8-91 5-20-91 9-25-91	1.0 1.3 1.2 .21
01304150	Fresh Pond Outlet, at Baiting Hollow, N.Y.	Lat 40°57'43", long 72°46'17", Suffolk County, 25 ft downstream from dirt road at outlet of Fresh Pond, 0.7 mi northwest of Baiting Hollow.	--	1977-91	3- 8-91 9-25-91	.97 .28
01304400	Peconic River at Manorville, N.Y.	Lat 40°52'38", long 72°49'42", Suffolk County, at bridge on Schultz Road, 1 mi northwest of Manorville, and 8.5 mi upstream from gaging station at Riverhead.	--	1948-49 1951-91	1- 3-91 5-20-91	9.6 7.9
01304510	Peconic River at Nugent Drive, at Riverhead, N.Y.	Lat 40°55'03", long 72°40'11", Suffolk County, at bridge on Nugent Drive, at Riverhead, and 1.4 mi downstream from gaging station at Riverhead.	--	1976-91	1- 3-91 5-20-91	61. 54.
01304530	Little River near Riverhead, N.Y.	Lat 40°53'52", long 72°40'30", Suffolk County, at Wildwood Lake outlet, 500 ft east of Moriches-Riverhead Road, 1.5 mi southwest of Riverhead.	--	1952-91	11-14-90 3- 8-91 9-25-91	4.6 5.6 1.7
01304560	White Brook at Riverhead, N.Y.	Lat 40°54'40", long 72°38'37", Suffolk County, at culvert on State Highway 24, 1 mi southeast of Riverhead.	--	1953-69 1973-91	11-14-90 3- 8-91 9-25-91	2.2 3.5 .50

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01304600	Big Fresh Pond Outlet at North Sea, N.Y.	Lat 40°55'49", long 72°25'04", Suffolk County, at culvert on Noyack Road, at North Sea, 3.5 mi northwest of Southampton.	--	1951-69 1971-91	1-3-91 6-24-91 9-26-91	1.2 .52 .41
01304630	Mill Creek at Noyack, N.Y.	Lat 40°59'35", long 72°21'00", Suffolk County, 50 ft upstream from culvert on Noyack Road, 0.25 mi west of Noyack.	--	1958-91	1-3-91 4-11-91 6-24-91 9-26-91	.64 .61 .64 .33
01304660	Ligonee Brook at Sag Harbor, N.Y.	Lat 40°59'21", long 72°18'12", Suffolk County, at culvert on Brick Kiln Road, 0.75 mi southwest of Sag Harbor.	--	1953-69 1973-91	1-3-91 4-11-91 6-24-91 9-26-91	0 .16 .07 .08
01304730	Poxabogue Pond Outlet at Sagaponack, N.Y.	Lat 40°55'48", long 72°17'18" Suffolk County, at culvert on Sagg St. at Sagaponack, and 1 mi southeast of Bridgehampton.	--	1953-78 1980-86 1988-91	1-3-91 2-13-91	2.4 1.6
01304745	Weesuck Creek at East Quogue, N.Y.	Lat 40°50'52", long 72°34'42", Suffolk County, at culvert on State Highway 27A, 0.5 mi northeast of East Quogue.	--	1974-91	2-13-91 9-27-91	2.1 .98
01304760	Quantuck Creek at Quogue, N.Y.	Lat 40°49'57", long 72°37'06", Suffolk County, at culvert in Old Meeting House Road, 1 mi northwest of Quogue.	--	1953-69 1974-91	2-13-91 9-27-91	2.1 1.7
01304780	Aspatuck Creek near Westhampton Beach, N.Y.	Lat 40°49'04", long 72°38'13", Suffolk County, at culvert on Brook Road, at Westhampton Beach.	--	1959-88 1990-91	2-13-91 9-27-91	1.7 .68
01304800	Beaverdam Creek at Westhampton Beach, N.Y.	Lat 40°49'23", long 72°39'42", Suffolk County, at culvert on Old Country Road, 100 ft north- west of State Highway 27A, and 1 mi northwest of Westhampton.	--	1953-88 1990-91	2-13-91 9-27-91	2.2 .52
01304820	Speonk River at Speonk, N.Y.	Lat 40°49'08", long 72°41'29", Suffolk County, at culvert on State Highway 27A, 0.75 mi east of Speonk.	--	1974-91	2-13-91 9-27-91	.89 .32
01304860	Seatuck Creek at Eastport, N.Y.	Lat 40°49'30", long 72°43'43", Suffolk County, 15 ft downstream from culvert on State Highway 27A, at Eastport.	--	1953-91	2-13-91 9-27-91	5.7 2.0
01304900	Little Seatuck Creek at Eastport, N.Y.	Lat 40°49'12", long 72°44'23", Suffolk County, at culvert on Moriches Blvd., 0.75 mi southwest of Eastport.	--	1955-69 1974-91	2-13-91 9-27-91	3.3 2.5
01304960	Forge River at Moriches, N.Y.	Lat 40°48'22", long 72°50'00", Suffolk County, at culvert on State Highway 27A, at Moriches.	--	1948-50 1952-91	3-8-91 9-27-91	7.4 5.5

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01304990	Carmans River at Middle Island, N.Y.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mi south of Middle Island, and 3.0 mi upstream from gaging station at Yaphank.	--	1947-91	1- 8-91 4- 4-91	2.3 3.1
01304995	Carmans River near Yaphank, N.Y.	Lat 40°50'29", long 72°56'13", Suffolk County, 25 ft downstream from Mill Road, 1.2 mi northwest of Yaphank, and 1.9 mi upstream from gaging station at Yaphank.	--	1973-91	1- 8-91 4- 4-91	12. 16.
01304998	Carmans River, below Lower Lake, at Yaphank, N.Y.	Lat 40°50'07", long 72°55'01", Suffolk County, at culvert on Yaphank Avenue, at Yaphank, and 0.7 mi upstream from gaging station at Yaphank.	--	1973-91	1- 8-91 4- 4-91	21. 23.
01305040	Carmans River at South Haven, N.Y.	Lat 40°48'09", long 72°53'09", Suffolk County, 75 ft upstream from culvert on State Highway 27A, at South Haven, and 2.6 mi downstream from gaging station at Yaphank.	--	1973-91	1- 8-91 4- 4-91	64. 78.
01305300	Mud Creek at East Patchogue, N.Y.	Lat 40°45'47", long 72°58'59", Suffolk County, at culvert on South Country Road, at East Patchogue, 2 mi east of Patchogue.	--	1947-69 1971-91	1- 8-91 9-20-91	4.9 3.4
01305800	Patchogue River near Patchogue, N.Y.	Lat 40°46'55", long 73°01'19", Suffolk County, at bridge on discontinued road, 300 ft west of North Ocean Ave., and 1 mi north of State Highway 27A and gaging station at Patchogue.	--	1945-50 1952-91	1- 4-91 4- 5-91	13. 14.
01306000c/	Patchogue River at Patchogue, N.Y.	Lat 40°45'56", long 73°01'16", Suffolk County, at State Highway 27A, at Patchogue.	13.5	1946-69* 1970-73 1974-76* 1977-91	1- 7-91 4- 5-91	26. 24.
01306400	Green Creek at West Sayville, N.Y.	Lat 40°43'51", long 73°05'32", Suffolk County, 30 ft upstream from State Highway 27A at West Sayville.	--	1953-91	1- 7-91 4- 5-91 9-25-91	6.1 6.1 5.3
01306405	Lake Ronkonkoma Inlet at Lake Ronkonkoma, N.Y.	Lat 40°49'57", long 73°07'34", Suffolk County, 300 ft southeast of Smithtown Blvd., 0.2 mi west of Lake Ronkonkoma.	--	1948-49 1953-54 1977-79 1981-86 1988-89 1991	1- 4-91 9-28-91	1.5 1.7
01306470	Connetquot Brook near Oakdale, N.Y.	Lat 40°45'47", long 73°09'10", Suffolk County, 100 ft downstream from fish hatchery, and 1.1 mi upstream from gaging station 01306499.	--	1968 1973-91	12-26-90 2-26-91	45. 41.
01306700	Rattlesnake Brook near Oakdale, N.Y.	Lat 40°44'52", long 73°08'45", Suffolk County, 50 ft downstream from State Highway 27, 1.5 mi northwest of Oakdale.	--	1944-69 1971-91	12-26-90 2-25-91	41. 38.

* Operated as a continuous-record gaging station.

b About

c/ Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01307000c/	Champlin Creek at Islip, N.Y.	Lat 40°44'13", long 73°12'08", Suffolk County, at Long Island Railroad Railroad bridge, 220 ft downstream from Moffitt Boulevard, at Islip.	b6.5	1948-69* 1970-86 1991	1- 7-91 9-20-91	8.0 4.7
01307300	Pardees Ponds Outlet at Islip, N.Y.	Lat 40°43'40", long 73°13'16", Suffolk County, at culvert on State Highway 27A, at Islip.	--	1948-72 1974-91	1- 7-91 4- 5-91	2.6 3.4
01307400	Awixa Creek at Islip, N.Y.	Lat 40°43'39", long 73°13'51", Suffolk County, at culvert on State Highway 27A, 0.75 mi west of Islip.	--	1948-91	12-27-90 4- 5-91	1.8 2.0
01307500c/	Penataquit Creek at Bay Shore, N.Y.	Lat 40°43'37", long 73°14'41", Suffolk County, at Union Avenue, at Bayshore.	b5	1945-76* 1977-91	12-27-90 4-13-91	6.8 6.2
01307600	Cascade Lakes Outlet at Brightwaters, N.Y.	Lat 40°42'40", long 73°15'38", Suffolk County, at culvert on Montauk Highway, at Brightwaters.	--	1958-91	12-27-90 9-20-91	2.1 1.2
01307920	Sampawams Creek near Deer Park, N.Y.	Lat 40°44'27", long 73°18'24", Suffolk County, 30 ft downstream from Bay Shore Road, and 2.5 mi upstream from gaging station at Babylon.	--	1965-66 1973-91	1- 4-91 4- 3-91 7-10-91	6.7 7.0 3.9
01307950	Sampawams Creek near North Babylon, N.Y.	Lat 40°43'37", long 73°18'46", Suffolk County, 120 ft downstream from Hunter Avenue, and 1.8 mi upstream from gaging station at Babylon.	--	1967 1971-91	1- 4-91 4- 3-91 7-10-91	8.2 9.3 3.5
01308200	Sampawams Creek below Hawleys Lake at Babylon, N.Y.	Lat 40°41'48", long 73°19'04", Suffolk County at pond outlet, 200 ft upstream from State Highway 27A, at Babylon, and 0.5 mi downstream from gaging station at Babylon.	--	1953-67 1969-91	1- 4-91 4- 3-91 7-10-91	15. 14. 6.6
01308600	Carlls River at Park Avenue, Babylon, N.Y.	Lat 40°42'06", long 73°19'43", Suffolk County, at culvert on Park Avenue, at Babylon, and 0.5 mi downstream from gaging station at Babylon.	--	1968-85 1987-91	1- 4-91 3-29-91 7-10-91	37. 36. 21.
01309000c/	Santapogue Creek at Lindenhurst, N.Y.	Lat 40°41'30", long 73°21'20", Suffolk County, at culvert on East Hoffman Avenue, 1 mi east of Long Island Railroad station at Lindenhurst.	b7	1947-69* 1970-91	2-11-91 9-20-91	4.0 1.5
01309100	Santapogue Creek at State Highway 27A, Lindenhurst, N.Y.	Lat 40°41'02", long 73°21'06", Suffolk County, at culvert on State Highway 27A, 0.5 mi downstream from discontinued gaging station at Lindenhurst.	--	1953-69 1971-91	2-11-91	9.1

* Operated as a continuous-record gaging station.

b About

c/ Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01309200	Neguntatogue Creek at Lindenhurst, N.Y.	Lat 40°40'47", long 73°21'40", Suffolk County, 20 ft upstream from State Highway 27A, in Lindenhurst.	--	1948-50 1952-91	2-11-91 9-20-91	4.1 2.5
01309250	Strong Creek at Lindenhurst, N.Y.	Lat 40°40'22", long 73°22'40", Suffolk County, 30 ft upstream from State Highway 27A, at Lindenhurst.	--	1953-69 1971-91	3-26-91 9-20-91	1.9 1.1
01309350	Amityville Creek at Amityville, N.Y.	Lat 40°40'13", long 73°24'51", Suffolk County, 100 ft upstream from State Highway 27A, at Amityville.	--	1953-91	3-26-91 9-20-91	2.8 1.3
01309400	Carman Creek at Amityville, N.Y.	Lat 40°40'09", long 73°26'02", Nassau County, at bridge on State Highway 27A, 0.75 mi west of Amityville.	--	1949 1953-69 1971-88 1990-91	3-26-91 9-20-91	8.5 6.8
01309454	Massapequa Creek at South Farmingdale, N.Y.	Lat 40°42'55", long 73°27'00", Nassau County, 75 ft upstream from Tomes Avenue, 0.2 mi south of South Farmingdale, and 1.9 mi upstream from gaging station at Massapequa.	--	1962-65 1973-78 1980-91	11-19-90 3-7-91 7-9-91	.28 .54 .03
01309476	Massapequa Creek at Southern State Parkway, at South Farmingdale, N.Y.	Lat 40°42'21", long 73°27'05", Nassau County, 30 ft upstream from culvert at Southern State Parkway, 0.8 mi south of South Farmingdale, and 1.2 mi upstream from gaging station at Massapequa.	--	1962-65 1973-91	11-19-90 3-7-91 7-9-91	3.0 4.6 .67
01309490	Massapequa Creek at North Massapequa, N.Y.	Lat 40°41'55", long 73°27'08", Nassau County, opposite Franklin Street, at North Massapequa, and 0.55 mi upstream from gaging station at Massapequa.	--	1962 1964 1973-91	11-19-90 3-7-91 7-9-91	5.3 8.6 2.0
01309700	Seaford Creek at Seaford, N.Y.	Lat 40°40'00", long 73°28'57", Nassau County, at bridge on State Highway 27A, in Seaford.	--	1953-91	11-16-90 5-23-91	2.0 1.3
01309800	Seamans Creek at Seaford, N.Y.	Lat 40°39'56", long 73°29'37", Nassau County, at culvert on State Highway 27A, 0.2 mi west of Seaford.	--	1953-67 1971-81 1983-91	11-16-90 5-23-91	4.0 2.5
01309970	Bellmore Creek tributary near North Wantagh, N.Y.	Lat 40°41'52", long 73°30'33", Nassau County, at culvert on Duck Pond Drive North, 0.3 mi north of North Wantagh, and 1.2 mi upstream from gaging station 01309990.	--	1973-91	11-20-90 5-24-91	.12 .03
01309980	Bellmore Creek tributary at North Wantagh, N.Y.	Lat 40°41'20", long 73°30'37", Nassau County, at culvert on Beltagh Avenue, at North Wantagh, and 0.8 mi upstream from gaging station 01309990.	--	1973-91	11-20-90 5-24-91	.87 .72
01310100	Newbridge Creek at Merrick, N.Y.	Lat 40°39'42", long 73°32'02", Nassau County, downstream from bridge on Merrick Road in Merrick.	--	1963-91	11-20-90 5-24-91	.38 .40

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1991--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Measurements Discharge (ft ³ /s)
Streams on Long Island						
01310200	Cedar Swamp Creek at Merrick, N.Y.	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 mi east of Freeport.	--	1953-82 1965-91	11-16-90 5-24-91	5.6 4.4
01310470	East Meadow Brook near Westbury, N.Y.	Lat 40°44'01", long 73°35'06", Nassau County, 50 ft downstream from culvert on Meadowbrook State Parkway, 1.0 mi south of Westbury, and 4.8 mi upstream from gage at Freeport.	--	1973-91	11-19-90 4- 2-91	.28 .41
01310475	East Meadow Brook at Uniondale, N.Y.	Lat 40°43'17", long 73°35'00", Nassau County, at bridge on Hempstead Turnpike, 0.9 mi northeast of Uniondale, and 3.9 mi upstream from gage at Freeport.	--	1973-91	11-19-90 4- 2-91	1.7 .57
01310488	East Meadow Brook at East Meadow, N.Y.	Lat 40°41'56", long 73°34'37", Nassau County, 300 ft west of Luddington Road, 1.4 mi southwest of East Meadow, and 2.3 mi upstream from gage at Freeport.	--	1973-91	11-19-90 4- 2-91	2.5 1.8
01310510	East Meadow Pond Outlet at Freeport, N.Y.	Lat 40°39'32", long 73°34'01", Nassau County, 50 ft downstream from culvert at Sunrise Highway, and 0.5 mi downstream from gaging station 01310500.	--	1975-80 1986 1990-91	11-20-90 4- 2-91	8.2 5.9
01310515	Freeport Creek at Freeport, N.Y.	Lat 40°39'28", long 73°34'22", Nassau County, 20 ft upstream from culvert at Sunrise Highway, and 0.5 mi downstream from gaging station 01310500.	--	1975-80 1986 1990-91	11-20-90 4- 2-91	1.0 3.5
01310600	Milburn Creek at Baldwin, N.Y.	Lat 40°39'04", long 73°38'13", Nassau County, 50 ft downstream from bridge on State Highway 27A, 0.5 mi east of Baldwin.	--	1953-91	11-16-90	2.7
01310700	Parsonage Creek at Baldwin, N.Y.	Lat 40°38'48", long 73°38'59", Nassau County, 20 ft downstream from bridge on Foxhurst Road, at Baldwin.	--	1953-89 1971-81 1983-84 1986-88 1991	11-15-90	1.5
01310800	South Pond Outlet at Rockville Centre, N.Y.	Lat 40°40'00", long 73°39'08", Nassau County, at bridge on Lakeview Ave, 0.75 mi north of Rockville Centre.	--	1953-91	11-15-90 3-28-91	1.4 2.5
01311200	Motts Creek at Valley Stream, N.Y.	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft downstream from bridge on Rosedale Road, 1 mile southwest of Valley Stream.	--	1954-91	11-15-90 3-28-91	.72 1.4
01311700	Valley Stream, below West Branch, at Valley Stream, N.Y.	Lat 40°39'47", long 73°42'21", Nassau County, 200 ft downstream from West Branch, 500 ft downstream from bridge on West Valley Stream Blvd, at village park in Valley Stream, and 500 ft downstream from gaging station.	--	1953-91	3-28-91 7-12-91 8- 2-91	0 0 0

GROUND-WATER LEVELS: NASSAU COUNTY

CONTINUOUS RECORDING STATIONS

404931073382101. Local number, N 110.1

LOCATION.--Lat 40°49'31", long 73°38'21", Hydrologic Unit 02030201, at Jericho Water District storage garage, 27 ft south of Scudders Lane, 32 ft west of Motts Cove Road, in recorder shelter, Glenwood Landing.

Owner: Jericho Water District.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 16 in., reported depth 519 ft, measured depth 324 ft, screened 445 to 515 ft.

INSTRUMENTATION.--Digital water-level recorder -- 30-minute punch.

DATUM.--Land-surface datum is 58.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel nipple, 0.44 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

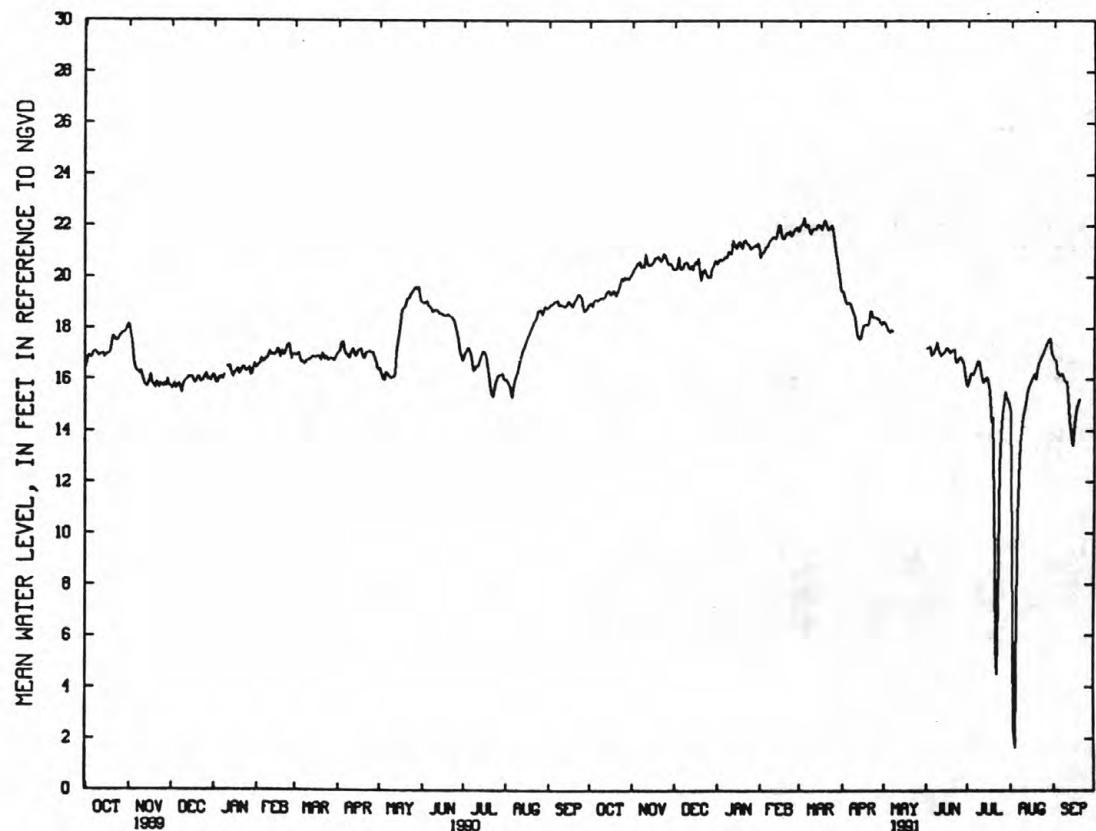
PERIOD OF RECORD.--January 1948 to current year. Unpublished records for 1948-48, 1952, 1955, 1961, 1965, 1970-75, are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.99 ft NGVD, December 15, 1970; lowest measured, -9.05 ft NGVD, May 22, 1957.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.11	20.59	20.38	20.89	21.18	22.02	18.98	17.85	16.98	16.20	7.10	16.14
10	19.17	20.90	20.58	20.91	21.58	21.85	18.43	---	17.07	16.46	14.56	15.92
15	19.48	20.55	20.49	21.13	21.99	22.04	17.90	---	17.25	16.09	15.91	13.95
20	19.27	20.89	19.89	21.40	21.78	22.05	18.25	---	17.17	11.26	16.35	---
25	19.87	20.77	19.99	21.10	21.84	21.88	18.43	---	16.89	13.87	17.14	---
EDM	20.09	20.33	20.59	21.21	21.79	19.48	18.27	---	15.92	14.99	16.91	---
MEAN	19.45	20.58	20.37	21.09	21.54	21.66	18.43	18.02	18.97	14.50	14.41	15.42
MAX	20.09	20.91	20.80	21.47	22.05	22.33	19.45	18.27	17.47	16.73	17.59	16.80
MIN	18.87	20.19	19.89	20.51	20.77	19.48	17.56	17.85	15.92	4.51	1.68	13.44

WTR YR 1991 MEAN 18.66 MAX 22.33 MIN 1.68



CONTINUOUS RECORDING STATIONS

403805073395301. Local number, N 2790.2

LOCATION.--Lat 40°38'05", long 73°39'53", Hydrologic Unit 02030202, at Bay Park Sewage Treatment Plant, in recorder shelter, Bay Park. Owner: Nassau County Department of Public Works.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 571 ft, screened 538 to 560 ft.

INSTRUMENTATION.--Digital water-level recorder -- 30-minute punch.

DATUM.--Land-surface datum is 8.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Base of recorder shelf, 3.82 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

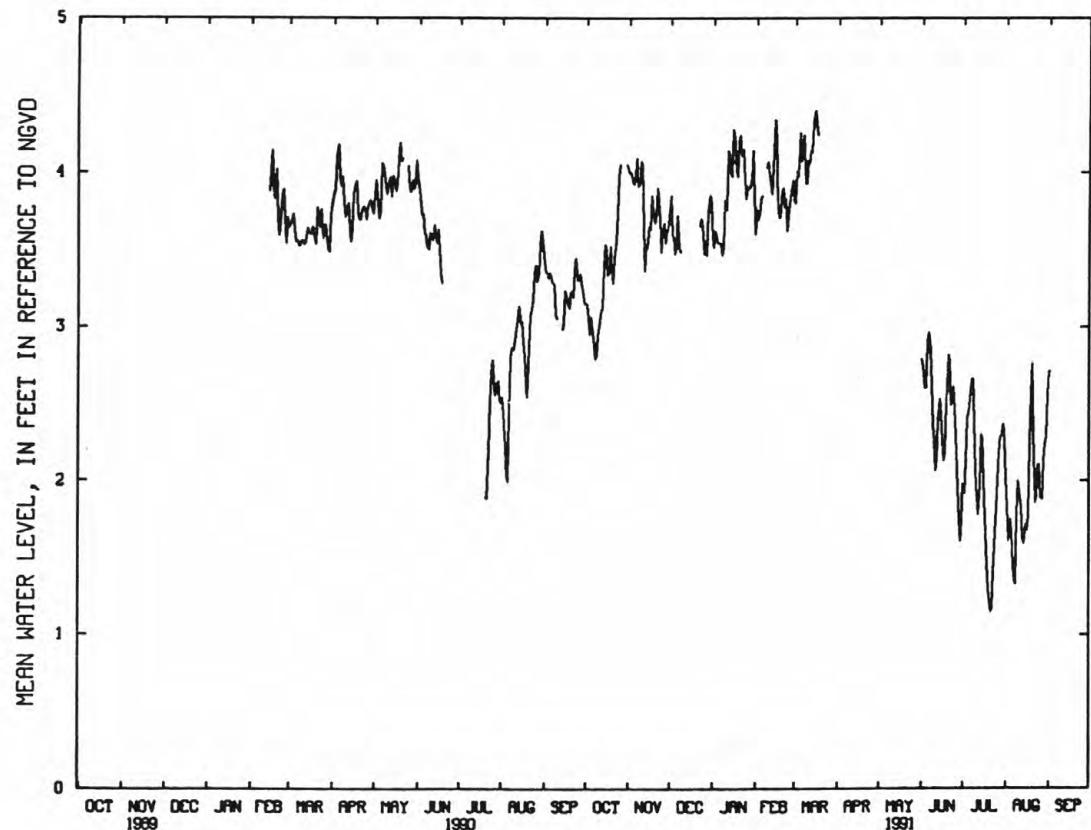
PERIOD OF RECORD.--February 1950 to current year. Unpublished records from February 1950 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.50 ft NGVD, April 6, 1958; lowest measured, -0.36 ft NGVD, July 20, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.99	3.99	3.51	3.54	3.85	4.07	---	---	2.90	2.44	1.87	---
10	3.03	4.05	---	3.76	3.98	4.08	---	---	2.25	2.06	2.00	---
15	3.49	3.85	---	4.28	4.22	4.40	---	---	2.43	2.27	1.72	---
20	3.28	3.72	---	4.24	3.90	---	---	---	2.82	1.21	2.76	---
25	4.05	3.81	3.47	3.91	3.83	---	---	---	2.39	1.82	2.11	---
EOM	4.02	3.71	3.58	3.60	3.81	---	---	---	1.74	2.26	2.56	---
MEAN	3.33	3.76	3.82	3.88	3.88	4.12	---	2.34	2.40	1.99	1.93	2.71
MAX	4.05	4.09	3.85	4.28	4.34	4.40	---	2.34	2.98	2.66	2.76	2.71
MIN	2.79	3.36	3.46	3.46	3.62	3.80	---	2.34	1.61	1.15	1.33	2.71

WTR YR 1991 MEAN 3.12 MAX 4.40 MIN 1.15



GROUND-WATER LEVELS: QUEENS COUNTY

CONTINUOUS RECORDING STATIONS

404418073434101. Local number, Q 577.1

LOCATION.--Lat 40°44'18", long 73°43'41", Hydrologic Unit 02030201, at Creedmoor State Hospital, near the intersection of Hillside Avenue and Cross Island Parkway, in recorder shelter, Bellerose. Owner: State of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in., depth 640 ft, screen assumed at bottom.

INSTRUMENTATION.--Digital water-level recorder -- 60-minute punch.

DATUM.--Land-surface datum is 113.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 12-in. steel casing, 0.22 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--February 1946 to current year. Unpublished records from February 1946 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.62 ft NGVD, April 22, 1991; lowest measured, -18.66 ft NGVD, July 30, 1954.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.02	7.99	6.84	8.47	7.96	---	9.78	9.79	5.15	3.87	1.24	---
10	6.54	8.00	7.49	8.70	8.16	9.98	9.94	10.19	4.92	3.46	1.82	---
15	6.98	7.44	7.91	9.00	8.77	10.02	9.83	9.06	4.62	3.50	2.31	---
20	6.87	7.44	7.80	9.37	---	10.17	10.16	7.95	5.08	1.18	---	---
25	6.42	6.96	7.80	9.14	9.76	9.93	10.46	5.86	4.63	.72	---	---
EOM	7.29	6.29	8.28	8.34	9.75	9.42	10.15	5.44	2.51	1.41	---	---
MEAN	6.51	7.43	7.54	8.87	8.70	9.91	10.03	8.26	4.61	2.43	1.85	---
MAX	7.29	8.09	8.31	9.37	9.91	10.27	10.60	10.22	5.72	4.18	3.67	---
MIN	5.08	6.29	6.23	8.20	7.90	9.42	9.53	5.24	2.17	.31	1.04	---

WTR YR 1991 MEAN 7.06 MAX 10.60 MIN .31



CONTINUOUS RECORDING STATIONS

403727073154601. Local number, S 21091.1

LOCATION.--Lat 40°37'27", long 73°15'48", Hydrologic Unit 02030202, at Robert Moses State Park, in water treatment building, Fire Island. Owner: Long Island State Park Commission.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 1,921 ft, screened 1,918 to 1,921 ft.

INSTRUMENTATION.--Digital water-level recorder -- 15-minute punch.

DATUM.--Land-surface datum is 10.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 13.68 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation. Well also sampled for water quality.

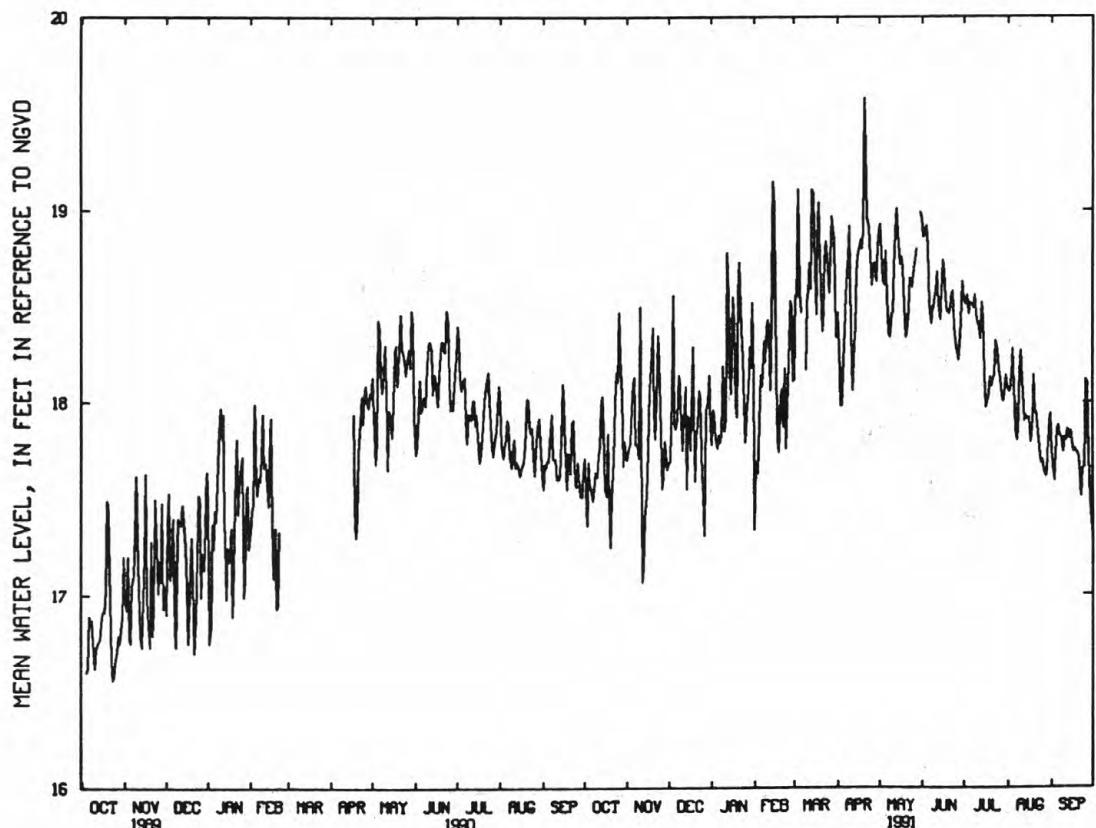
PERIOD OF RECORD.--September 1982 to current year. Unpublished records from September 1982 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.10 ft NGVD, March 16, 1976; lowest measured, 15.13 ft NGVD, June 2, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.58	18.10	17.89	17.78	18.14	18.57	18.14	18.61	18.81	18.52	18.09	17.85
10	17.61	18.50	17.89	17.85	18.43	18.52	18.92	18.46	18.55	18.41	18.27	17.82
15	17.87	17.52	17.93	18.04	19.01	19.09	18.68	18.88	18.57	18.14	17.92	17.79
20	17.25	17.95	17.59	18.58	18.07	18.60	18.89	18.34	18.46	18.08	17.94	17.71
25	18.11	17.98	17.62	17.79	18.33	18.76	18.76	18.60	18.28	18.17	17.70	18.12
EDM	17.73	17.65	17.87	18.09	18.11	18.34	18.81	18.99	18.63	18.08	17.94	17.31
MEAN	17.75	17.84	17.89	18.12	18.15	18.67	18.63	18.66	18.56	18.27	17.91	17.73
MAX	18.47	18.50	18.56	18.78	19.15	19.11	19.58	19.01	18.96	18.56	18.28	18.12
MIN	17.25	17.07	17.31	17.76	17.34	18.12	17.98	18.34	18.22	17.97	17.61	17.31

WTR YR 1991 MEAN 18.18 MAX 19.58 MIN 17.07



GROUND-WATER LEVELS: SUFFOLK COUNTY--Continued

CONTINUOUS RECORDING STATIONS

403727073154503. Local number, S 21311.1

LOCATION.--Lat 40°37'28", long 73°15'48", Hydrologic Unit 02030202, at Robert Moses State Park, in water treatment building, Fire Island. Owner: Long Island State Park Commission.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 721 ft, screened 711 to 721 ft.

INSTRUMENTATION.--Digital water-level recorder -- 15-minute punch.

DATUM.--Land-surface datum is 10.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 20.01 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

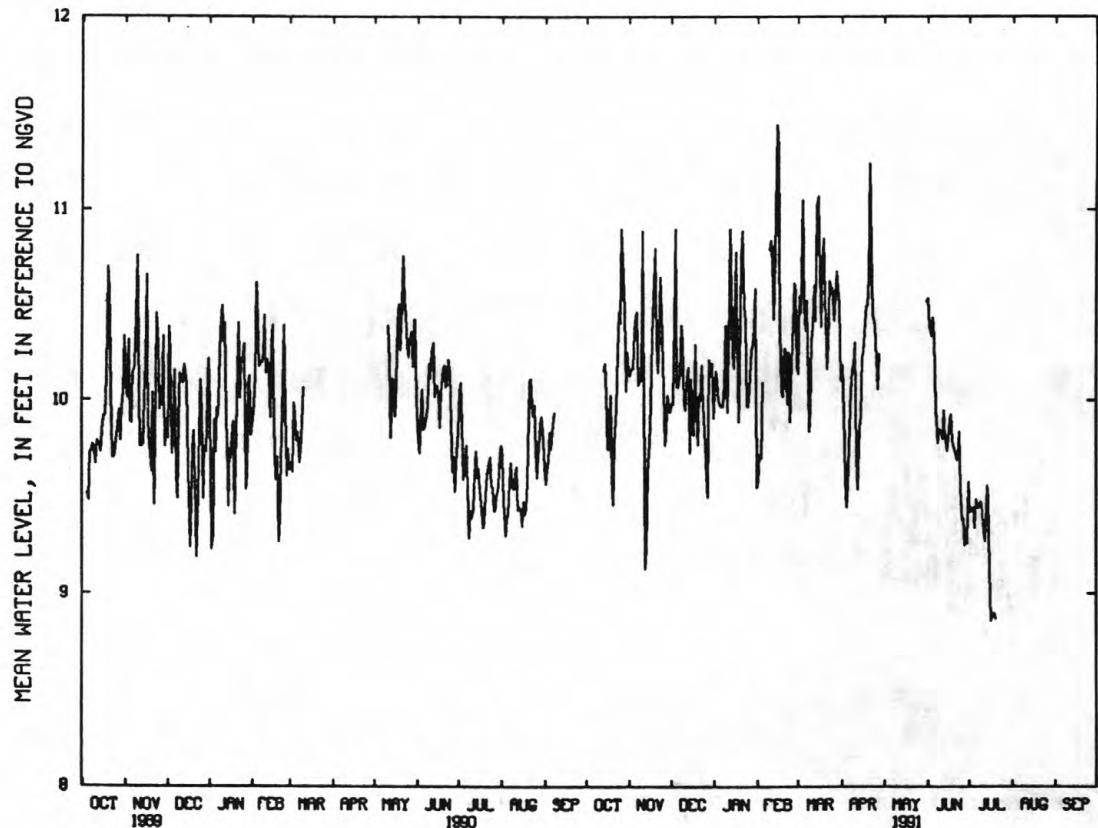
PERIOD OF RECORD.--November 1982 to current year. Unpublished records from November 1982 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.04 ft NGVD, January 25, 1979; lowest measured, 5.35 ft above NGVD, February 23, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	10.45	10.07	9.97	---	10.49	9.58	---	10.34	9.49	---	---
10	---	10.89	9.98	9.94	10.84	10.32	10.31	---	9.84	9.36	---	---
15	10.03	9.78	10.12	10.17	11.32	11.07	10.23	---	9.80	9.12	---	---
20	9.46	10.31	9.77	10.76	10.25	10.41	10.64	---	9.72	---	---	---
25	10.41	10.20	9.77	9.97	10.41	10.59	10.22	---	9.38	---	---	---
EOM	10.18	9.94	9.91	9.55	10.18	10.11	---	10.52	9.58	---	---	---
MEAN	10.13	10.14	10.05	10.25	10.35	10.50	10.16	10.52	9.82	9.29	---	---
MAX	10.90	10.89	10.90	10.90	11.44	11.07	11.24	10.52	10.54	9.56	---	---
MIN	9.46	9.13	9.50	9.55	9.58	9.84	9.45	10.52	9.25	8.86	---	---

WTR YR 1991 MEAN 10.10 MAX 11.44 MIN 8.86



CONTINUOUS RECORDING STATIONS

404936073055901. Local number, S 33379.1

LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, in pumping center, in recorder shelter, Lake Ronkonkoma. Owner: Suffolk County Water Authority.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 1,305 ft, screened 1,290 to 1,300 ft.

INSTRUMENTATION.--Digital water-level recorder -- 15-minute punch.

DATUM.--Land-surface datum is 134.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 2.34 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

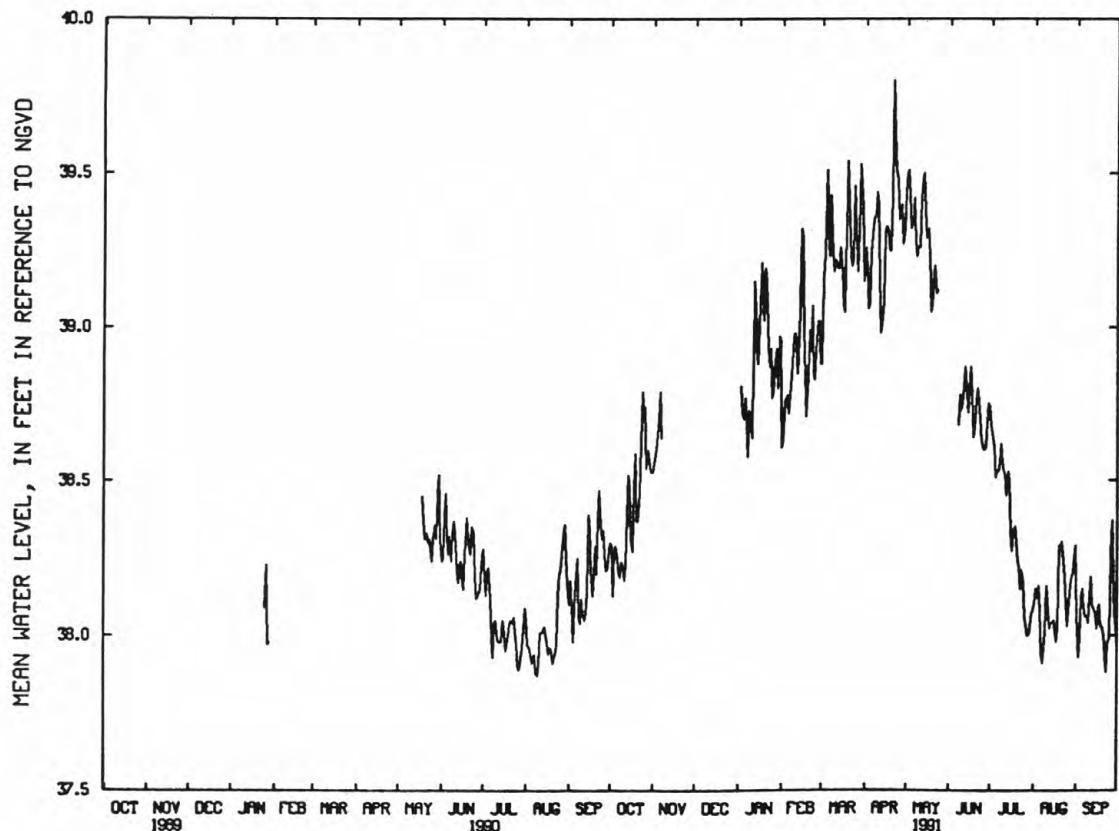
PERIOD OF RECORD.--October 1968 to current year. Unpublished records from October 1968 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.92 ft NGVD, June 5, 1979; lowest measured, 33.84 ft NGVD, September 29, 1988.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.29	38.70	---	38.70	38.78	39.31	39.24	39.34	---	38.53	38.08	38.15
10	38.22	---	---	38.71	38.98	39.22	39.40	39.26	38.75	38.53	38.16	38.13
15	38.48	---	---	38.88	39.29	39.18	39.31	39.29	38.80	38.33	38.05	38.02
20	38.37	---	---	39.19	38.99	39.35	39.43	39.14	38.76	38.24	38.28	38.00
25	38.71	---	---	38.77	38.98	39.32	39.35	39.35	---	38.60	38.06	38.03
EOM	38.53	---	---	38.95	38.88	39.15	39.44	39.44	---	38.74	38.08	38.29
MEAN	38.41	38.64	---	38.89	38.90	39.27	39.31	39.30	38.73	38.34	38.11	38.07
MAX	38.79	38.79	---	39.21	39.32	39.54	39.80	39.51	38.87	38.68	38.30	38.37
MIN	38.13	38.53	---	38.58	38.61	38.88	38.98	39.05	38.60	38.00	37.91	37.88

WTR YR 1991 MEAN 38.71 MAX 39.80 MIN 37.88



GROUND-WATER LEVELS: SUFFOLK COUNTY--Continued

CONTINUOUS RECORDING STATIONS

404932073055902. Local number, S 33380.1

LOCATION.--Lat 40°49'32", long 73°05'59", Hydrologic Unit 02030202, at Duncan Avenue and Portion Road, in pumping center, in recorder shelter, Lake Ronkonkoma. Owner: Suffolk County Water Authority.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 855 ft, screened 840 to 850 ft.

INSTRUMENTATION.--Digital water-level recorder -- 15-minute punch, changed to 30-minute on August 16, 1990.

DATUM.--Land-surface datum is 133.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 2.13 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping. Well also sampled for water quality.

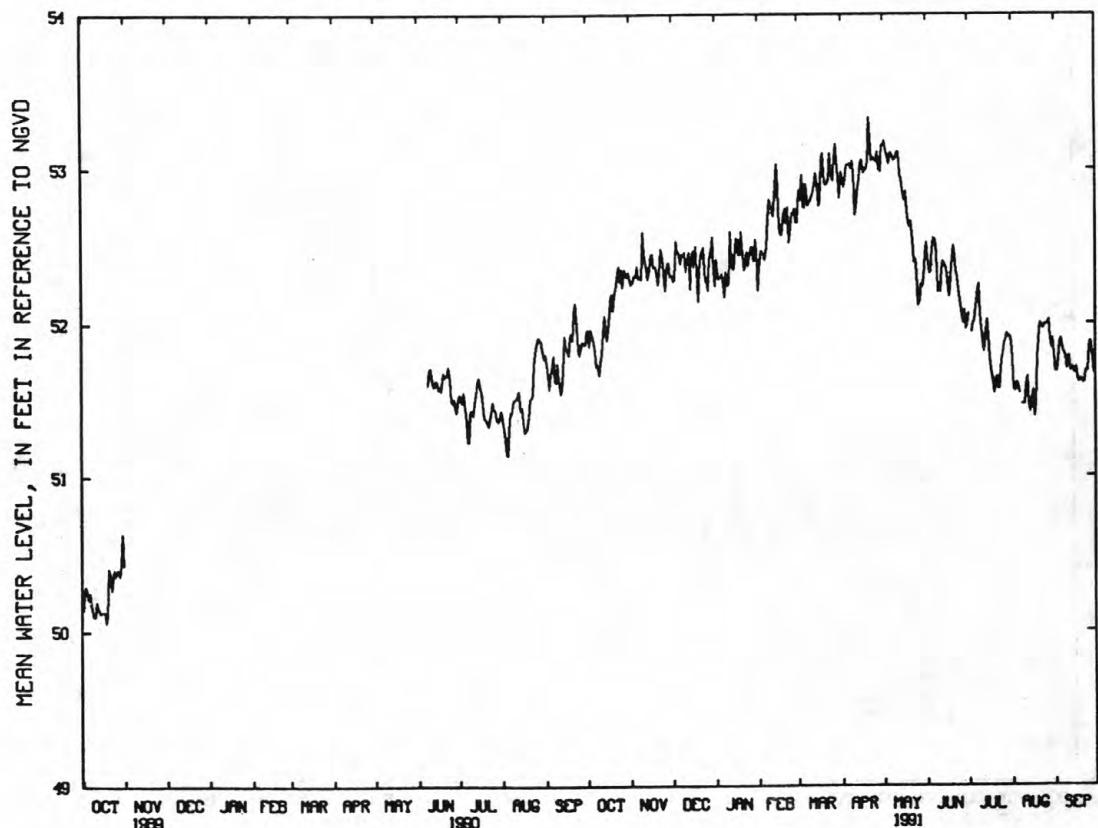
PERIOD OF RECORD.--October 1988 to current year. Unpublished records from October 1968 to September 1975 are available in files of Long Island Subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.30 ft NGVD, April 27, 1979; lowest measured, 45.18 ft above NGVD, December 5, 1969.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.93	52.30	52.48	52.30	52.45	52.75	53.02	53.03	52.47	52.01	51.59	51.90
10	51.66	52.59	52.46	52.24	52.75	52.79	52.98	53.07	52.24	51.96	51.47	51.78
15	51.97	52.35	52.42	52.35	52.87	52.89	53.04	52.88	52.35	51.91	51.51	51.67
20	52.08	52.32	52.14	52.59	52.74	52.91	53.04	52.82	52.50	51.81	51.89	51.63
25	52.27	52.38	52.27	52.37	52.71	52.96	53.05	52.32	52.11	51.79	51.99	51.84
EDM	52.33	52.30	52.34	52.47	52.65	52.81	53.15	52.44	51.99	51.87	51.79	51.68
MEAN	52.05	52.35	52.38	52.40	52.63	52.89	53.00	52.75	52.29	51.87	51.70	51.73
MAX	52.37	52.59	52.56	52.59	53.03	53.18	53.33	53.18	52.55	52.25	52.02	51.90
MIN	51.86	52.21	52.14	52.17	52.21	52.65	52.70	52.11	51.96	51.54	51.39	51.60

WTR YR 1991 MEAN 52.34 MAX 53.33 MIN 51.39



404059073520702. Local number, K 1194.4

LOCATION.--Lat $40^{\circ}40'59''$, long $73^{\circ}52'07''$, Hydrologic Unit 02030202, at east side of Nichols Avenue, 100 ft north of Atlantic Avenue, New Lots. Owner: City of New York.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 55 ft, screened 52 to 55 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 32.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.34 ft below land-surface datum.

REMARKS.--Replaced well K 1194.3 in July 1970.

PERIOD OF RECORD.--November 1970 to current year. Records for November 1970 to September 1987 are unpublished and are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.80 ft NGVD, September 17, 1991; lowest measured, -0.83 ft NGVD, November 2, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	10.27	DEC 10	10.34	FEB 21	10.39	APR 15	10.39	JUN 12	10.59	AUG 15	10.48
NOV 13	10.43	JAN 23	10.33	MAR 19	10.39	MAY 15	10.50	JUL 15	10.42	SEP 17	10.80

403939073542901. Local number, K 1265.1

LOCATION.--Lat $40^{\circ}39'39''$, long $73^{\circ}54'29''$, Hydrologic Unit 02030202, at west side of Thatford Avenue, 30 ft south of Riverdale Avenue, Brownsville. Owner: City of New York.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 44 ft, screened 42 to 43 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 23.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of plug, 0.01 ft below land-surface datum.

PERIOD OF RECORD.--April 1933 to current year. Unpublished records for 1933-35, 1941-78 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.53 ft NGVD, June 12, 1991; lowest measured, -11.55 ft NGVD, August 22, 1942.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	10.17	DEC 10	9.34	FEB 21	8.87	APR 15	8.88	JUN 12	21.53	AUG 15	18.66
NOV 13	9.68	JAN 23	9.01	MAR 19	8.84	MAY 15	8.80	JUL 15	18.60	SEP 17	15.14

404236073574601. Local number, K 1301.1

LOCATION.--Lat $40^{\circ}42'35''$, long $73^{\circ}57'48''$, Hydrologic Unit 02030201, at Williamsburgh Savings Bank, in basement, 84 ft north of Broadway and 178 ft west of Driggs Avenue, Williamsburgh. Owner: Williamsburgh Savings Bank.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 8 in. to 6 in., depth 92 ft, screened 72 to 92 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 52.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in top of 4-in. steel plug, 9.03 ft below land-surface datum.

PERIOD OF RECORD.--January 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.08 ft NGVD, October 2, 1978; lowest measured, -7.72 ft NGVD, January 19, 1961.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	3.23	DEC 10	2.99	FEB 21	4.44	APR 15	4.39	JUN 12	3.67	AUG 15	4.34
NOV 13	3.60	JAN 24	4.68	MAR 20	4.62	MAY 15	3.40	JUL 16	4.38	SEP 17	3.63

GROUND-WATER LEVELS: KINGS COUNTY--Continued

404155073552108. Local number, K 3245.1

LOCATION.--Lat $40^{\circ}41'55''$, long $73^{\circ}55'22''$, Hydrologic Unit 02030201, at west side of Wilson Avenue, 54 ft north of Stanhope Street, Bushwick. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered steel observation well, diameter 2 in., depth 24 ft, screened 21 to 24 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 24.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.05 ft below land-surface datum.

PERIOD OF RECORD.--June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.52 ft NGVD, September 23, 1980; lowest measured, 5.80 ft NGVD, June 1, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	8.50	DEC 10	8.17	FEB 21	8.11	APR 15	7.83	JUN 12	8.24	AUG 15	8.35
NOV 13	8.69	JAN 24	8.51	MAR 20	8.04	MAY 15	8.15	JUL 16	8.28	SEP 17	8.57

403902073552801. Local number, K 3246.1

LOCATION.--Lat $40^{\circ}39'02''$, long $73^{\circ}55'28''$, Hydrologic Unit 02030202, at north side of Snyder Avenue, 86 ft west of East 56th Street, East Flatbush. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 30 ft, screened 27 to 30 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 25.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.04 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.62 ft NGVD, June 27, 1984; lowest measured, 7.27 ft NGVD, May 5, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	8.54	DEC 10	8.48	FEB 21	8.51	APR 15	8.48	JUN 12	8.75	AUG 15	8.46
NOV 13	8.55	JAN 23	8.57	MAR 19	8.40	MAY 15	8.79	JUL 16	8.62	SEP 17	8.43

403623074002101. Local number, K 3249.1

LOCATION.--Lat $40^{\circ}36'23''$, long $74^{\circ}00'23''$, Hydrologic Unit 02030202, at east side of Bay 16th Street, 42 ft north of Benson Avenue, Bath Beach. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 34 ft, screened 31 to 34 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 31.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.09 ft NGVD, January 24, 1991; lowest measured, 3.16 ft NGVD, May 21, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	4.54	DEC 10	4.71	FEB 21	4.79	APR 15	3.87	JUN 12	4.21	AUG 15	4.15
NOV 13	4.28	JAN 24	5.09	MAR 19	4.03	MAY 15	4.30	JUL 16	4.27	SEP 17	4.22

403520073575501. Local number, K 3251.1

LOCATION.--Lat $40^{\circ}35'20''$, long $73^{\circ}57'55''$, Hydrologic Unit 02030202, at north side of Avenue Y, 115 ft west of East 6th Street, Brighton Beach. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 23 ft, screened 20 to 23 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.06 below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.36 ft NGVD, June 26, 1984, and June 21, 1989; lowest measured, 2.58 ft NGVD, March 25, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	3.07	DEC 10	2.98	FEB 21	2.85	APR 15	3.02	JUN 12	3.09	AUG 15	3.05
NOV 13	3.02	JAN 23	3.12	MAR 19	3.16	MAY 15	3.22	JUL 16	3.09	SEP 17	2.95

403702073555808. Local number, K 3252.1

LOCATION.--Lat $40^{\circ}37'04''$, long $73^{\circ}55'59''$, Hydrologic Unit 02030202, at east side of Hendrickson Street, 46 ft north of Quentin Avenue, Flatlands. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 30 ft, screened 27 to 30 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 12.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.68 ft NGVD, February 11, 1981; lowest measured, 0.68 ft NGVD, October 8, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	1.44	DEC 10	1.43	FEB 21	1.42	APR 15	1.46	JUN 12	1.63	AUG 15	1.41
NOV 13	1.54	JAN 23	1.74	MAR 19	1.60	MAY 15	1.71	JUL 16	1.48	SEP 17	1.34

403728073590708. Local number, K 3253.2

LOCATION.--Lat $40^{\circ}37'28''$, long $73^{\circ}59'07''$, Hydrologic Unit 02030202, at north side of 56th Street, 55 ft west of 18th Avenue, Borough Park. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 55 ft, screened 52 to 55 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 48.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.03 ft below land-surface datum.

REMARKS.--Replaced well K 3253.1 in April 1981.

PERIOD OF RECORD.--April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.07 ft NGVD, October 3, 1984; lowest measured, 4.33 ft NGVD, December 21, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	5.47	DEC 10	5.45	FEB 21	5.36	APR 15	5.40	JUN 12	5.50	AUG 15	5.36
NOV 13	5.49	JAN 24	5.44	MAR 19	5.34	MAY 15	5.54	JUL 16	5.39	SEP 17	5.35

403737073584908. Local number, K 3254.1

LOCATION.--Lat $40^{\circ}37'36''$, long $73^{\circ}58'46''$, Hydrologic Unit 02030202, at east side of East 31st Street, 46 ft south of Avenue J, Flatbush. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 29 ft, screened 26 to 29 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 26.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.09 ft below land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.91 ft NGVD, June 27, 1984; lowest measured, 4.69 ft NGVD, June 25, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	5.50	DEC 10	5.38	FEB 21	5.42	APR 15	5.48	JUN 12	5.57	AUG 15	5.17
NOV 13	5.51	JAN 23	5.57	MAR 19	5.47	MAY 15	5.80	JUL 16	6.26	SEP 17	5.11

404036073584008. Local number, K 3261.1

LOCATION.--Lat $40^{\circ}40'37''$, long $73^{\circ}58'41''$, Hydrologic Unit 02030201, at east side of Lincoln Place, 122 ft north of 8th Avenue, northern most well, Park Slope. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 45 ft, screened 42 to 45 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 64.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.01 ft above land-surface datum.

PERIOD OF RECORD.--April 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.86 ft NGVD, March 16, 1984; lowest measured, 24.03 ft NGVD, March 29, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	28.67	DEC 10	28.63	FEB 21	28.28	APR 15	28.33	JUN 12	28.63	AUG 15	28.41
NOV 13	28.66	JAN 24	28.30	MAR 20	28.31	MAY 15	28.51	JUL 16	28.63	SEP 17	28.22

403635073580108. Local number, K 3274.1

LOCATION.--Lat $40^{\circ}36'35''$, long $73^{\circ}58'01''$, Hydrologic Unit 02030202, at west side of East 7th Street, 49 ft north of Avenue P, Gravesend. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 34 ft, screened 31 to 34 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 27.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.28 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.88 ft NGVD, October 3, 1984; lowest measured, 3.53 ft NGVD, October 6, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	4.84	DEC 10	4.63	FEB 21	4.67	APR 15	4.74	JUN 12	4.87	AUG 15	4.76
NOV 13	5.01	JAN 23	5.35	MAR 19	4.56	MAY 15	4.94	JUL 16	4.76	SEP 17	4.69

403737074011701. Local number, K 3275.1

LOCATION.--Lat $40^{\circ}37'37''$, long $74^{\circ}01'15''$, Hydrologic Unit 02030202, at east side of 8th Avenue, 19 ft south of 78th Street, Bay Ridge. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 78 ft, screened 73 to 76 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 87.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.05 ft below land-surface datum.

PERIOD OF RECORD.--June 1981 to current year. Unpublished records from June 1981 to September 1982 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.65 ft NGVD, January 5, 1984; lowest measured, 3.20 ft NGVD, April 28, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	4.68	DEC 10	4.72	FEB 21	4.48	APR 15	4.90	JUN 12	4.69	AUG 15	4.60
NOV 13	4.55	JAN 24	4.60	MAR 19	4.32	MAY 15	4.42	JUL 16	4.56	SEP 17	4.61

404135073584001. Local number, K 3276.1

LOCATION.--Lat $40^{\circ}41'34''$, long $73^{\circ}58'41''$, Hydrologic Unit 02030201, at east side of St. Edwards Street, 75 ft south of Myrtle Avenue, Fort Greene. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 54 ft, screened 51 to 54 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface Datum is 38.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.02 ft below land-surface datum.

PERIOD OF RECORD.--April 1981 to current year. Unpublished records from April 1981 to September 1982 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.71 ft NGVD, January 5, 1984; lowest measured, 4.30 ft NGVD, October 1, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	5.98	DEC 10	5.84	FEB 21	5.65	APR 15	6.13	MAY 15	6.02	SEP 24	5.66
NOV 13	6.01	JAN 24	5.89	MAR 20	6.01						

GROUND-WATER LEVELS: NASSAU COUNTY

404043073413108. Local number, N 7.1

LOCATION.--Lat $40^{\circ}40'43''$, long $73^{\circ}41'31''$, Hydrologic Unit 02030202, at Valley Stream State Park, 150 ft west of Corona Avenue, 130 ft north of Remsen Street, Valley Stream. Owner: Long Island State Park Commission.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 8 in., depth 911 ft, screened 851 to 911 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 20.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1/4-in. hole drilled in 4-in. steel plug, 2.17 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--March 1941 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.75 ft NGVD, March 9, 1941; lowest measured, -6.84 ft NGVD, August 25, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	6.36	DEC 10	7.92	FEB 22	8.99	APR 18	9.27	JUN 21	6.69	AUG 23	4.70
NOV 16	7.61	JAN 17	8.02	MAR 20	9.44	MAY 17	9.05	JUL 16	5.50	SEP 18	4.95

404048073412602. Local number, N 9.1

LOCATION.--Lat $40^{\circ}40'48''$, long $73^{\circ}41'26''$, Hydrologic Unit 02030202, at Valley Stream State Park, 30 ft west of Corona Avenue, 650 ft north of Remsen Street, Valley Stream. Owner: Long Island State Park Commission.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 4 in. to 8 in., depth 138 ft, screened 98 to 138 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

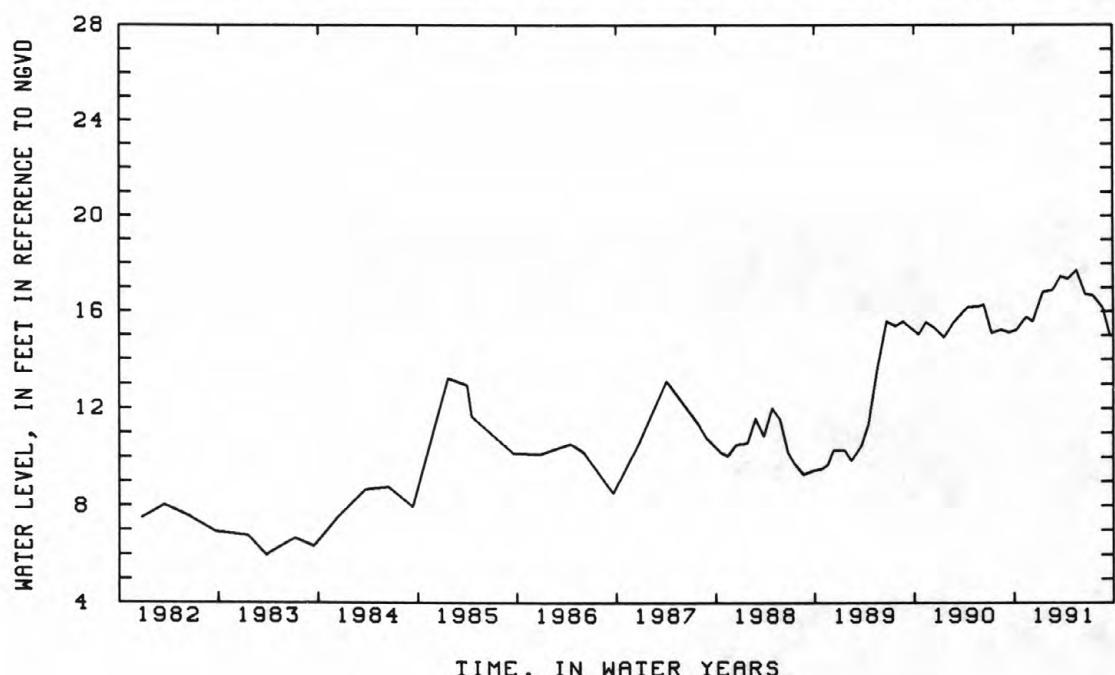
DATUM.--Land-surface datum is 22.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 2.08 ft above land-surface datum.

PERIOD OF RECORD.--July 1936 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.57 ft NGVD, September 23, 1938; lowest measured, 5.95 ft NGVD, March 22, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	15.24	DEC 10	15.59	FEB 22	16.89	APR 18	17.38	JUN 21	16.72	AUG 23	16.14
NOV 16	15.78	JAN 17	16.83	MAR 20	17.46	MAY 17	17.74	JUL 16	16.88	SEP 18	14.99



405010073414901. Local number, N 35.1

LOCATION.--Lat $40^{\circ}50'10''$, long $73^{\circ}41'51''$, Hydrologic Unit 02030201, at Port Washington Water District Pumping Center, 115 ft south of Sandy Hollow Road, in recorder shelter, Port Washington. Owner: Port Washington Water District.

AQUIFER.--Port Washington (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 16 in. to 6 in., depth 387 ft, screened 287 to 387 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.64 ft above land-surface datum.

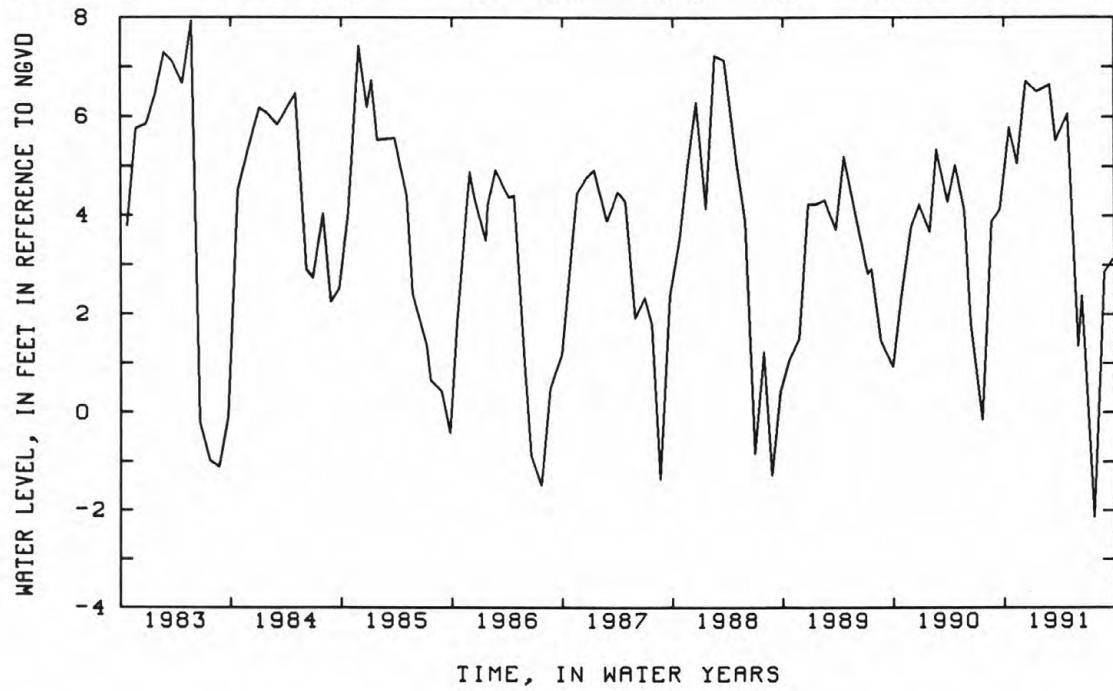
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.02 ft NGVD, January 31, 1958; lowest measured, -16.15 ft NGVD, July 29, 1954.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	5.77	DEC 14	6.70	MAR 1	6.64	APR 29	6.06	JUN 13	2.38	AUG 26	2.86
NOV 14	5.07	JAN 18	6.50	MAR 20	5.53	MAY 30	1.35	JUL 24	-2.13	SEP 23	3.13



403929073382908. Local number, N 53.1

LOCATION.--Lat $40^{\circ}39'29''$, long $73^{\circ}38'29''$, Hydrologic Unit 02030202, at Rockville Centre Municipal Power Plant, in battery room, Maple Avenue and Morris Avenue, Rockville Centre. Owner: Village of Rockville Center.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 50 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

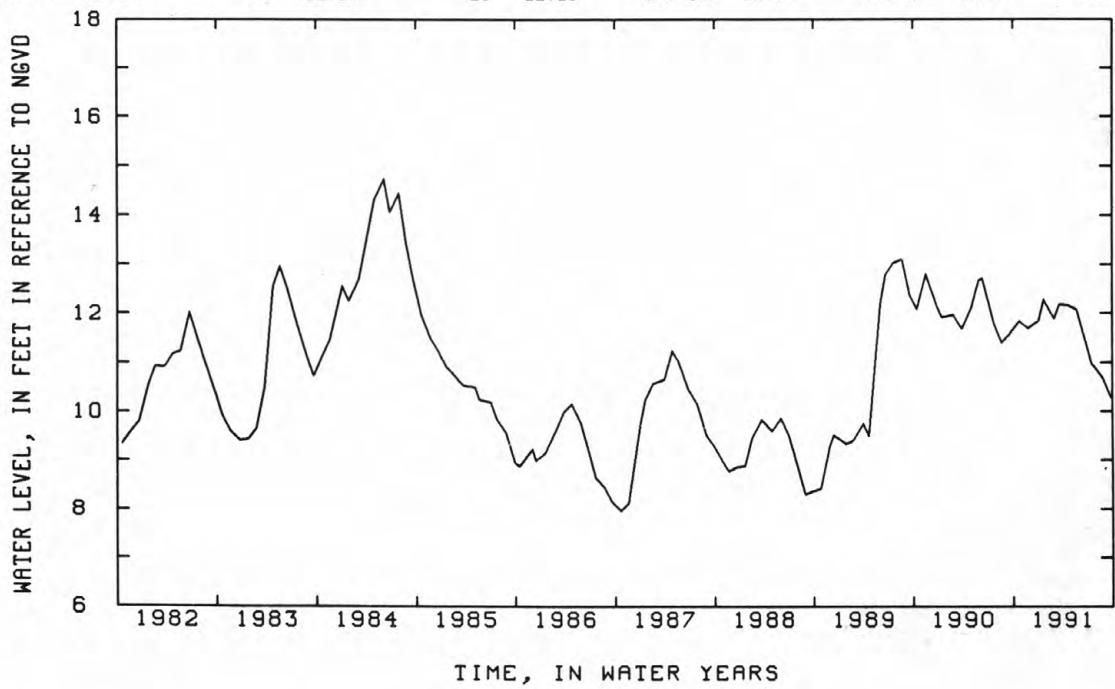
DATUM.--Land-surface datum is 26.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 5.24 ft below land-surface datum.

PERIOD OF RECORD.--August 1934 to current year. Unpublished records from August 1934 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.49 ft NGVD, April 15, 1939; lowest measured, 7.85 ft NGVD, August 30, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.83	JAN 4	11.83	MAR 1	11.89	APR 19	12.16	JUN 18	11.55	AUG 28	10.65
NOV 27	11.69	23	12.28	20	12.18	MAY 22	12.07	JUL 17	10.97	SEP 26	10.27



403922073353501. Local number, N 67.1

LOCATION.--Lat $40^{\circ}39'22''$, long $73^{\circ}35'35''$, Hydrologic Unit 02030202, at Freeport Power Station, in battery room, 105 ft north of Sunrise Highway (Rt. 27) and west of Long Beach Avenue, Freeport. Owner: Village of Freeport.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in., depth 1052 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 22.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 12-in. steel casing, 1.0 ft below land-surface datum.

PERIOD OF RECORD.--December 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.95 ft NGVD, May 8, 1957; lowest measured, -3.76 ft NGVD, March 23, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	8.97	DEC 10	10.58	APR 16	11.50	JUN 21	9.55	AUG 23	7.68	SEP 18	7.74
NOV 16	11.90	JAN 17	11.20	MAY 17	11.38	JUL 16	8.44				

404030073293703. Local number, N 180.2

LOCATION.--Lat $40^{\circ}40'30''$, long $73^{\circ}29'37''$, Hydrologic Unit 02030202, at Long Island Railroad track embankment, 200 ft north of Sunrise Highway (Rt. 27), west of Seaford-Oyster Bay Expressway (Rt. 135), Seaford. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 4 in. to 6 in., depth 723 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 13.69 ft above land-surface datum.

PERIOD OF RECORD.--October 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.08 ft NGVD, June 6, 1952; lowest measured, 10.63 ft NGVD, July 1, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	15.00	DEC 10	16.84	FEB 22	16.65	APR 16	17.03	JUN 24	14.70	AUG 23	14.24
NOV 16	15.70	JAN 17	17.44	MAR 20	17.52	MAY 17	16.76	JUL 16	13.42	SEP 18	13.96

404609073421602. Local number, N 1102.2

LOCATION.--Lat $40^{\circ}46'09''$, long $73^{\circ}42'16''$, Hydrologic Unit 02030201, at southwest corner of Community Drive and Long Island Expressway westbound service road, Lake Success. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 166 ft, screened 161 to 166 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 184.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.32 ft below land-surface datum.

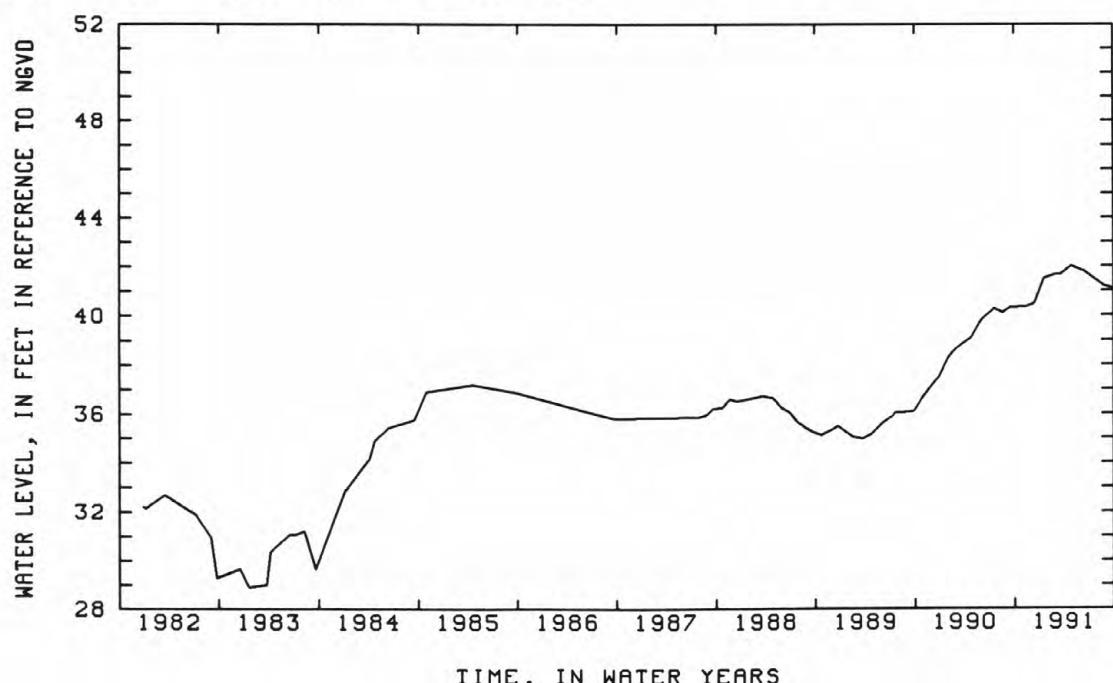
REMARKS.--Replaced well N 1102.1 in March 1963 at same location, which has a period of record from October 1937 to March 1963.

PERIOD OF RECORD.--April 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.02 ft NGVD, April 24, 1963; lowest measured, 28.90 ft NGVD, January 19, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 14	40.36	JAN 18	41.50	MAR 20	41.67	JUN 13	41.79	AUG 26	41.20	SEP 23	41.13
DEC 14	40.50	MAR 1	41.66	APR 29	42.01						



404039073420001. Local number, N 1110.1

LOCATION.--Lat $40^{\circ}40'40''$, long $73^{\circ}42'01''$, Hydrologic Unit 02030202, at Valley Stream State Park, southeast corner of North Fletcher Avenue and entrance to parking field, Valley Stream. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 27 ft, screened 24 to 27 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

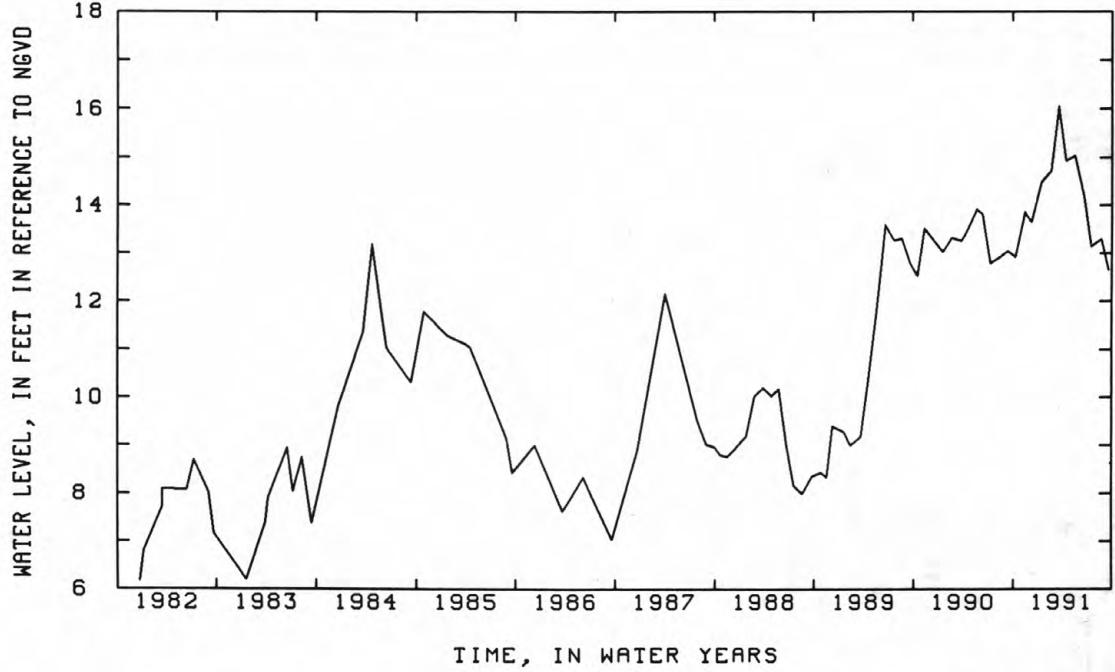
DATUM.--Land-surface datum is 31.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.80 ft below land-surface datum.

PERIOD OF RECORD.--October 1936 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.81 ft NGVD, September 28, 1938; lowest measured, 5.78 ft NGVD, September 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

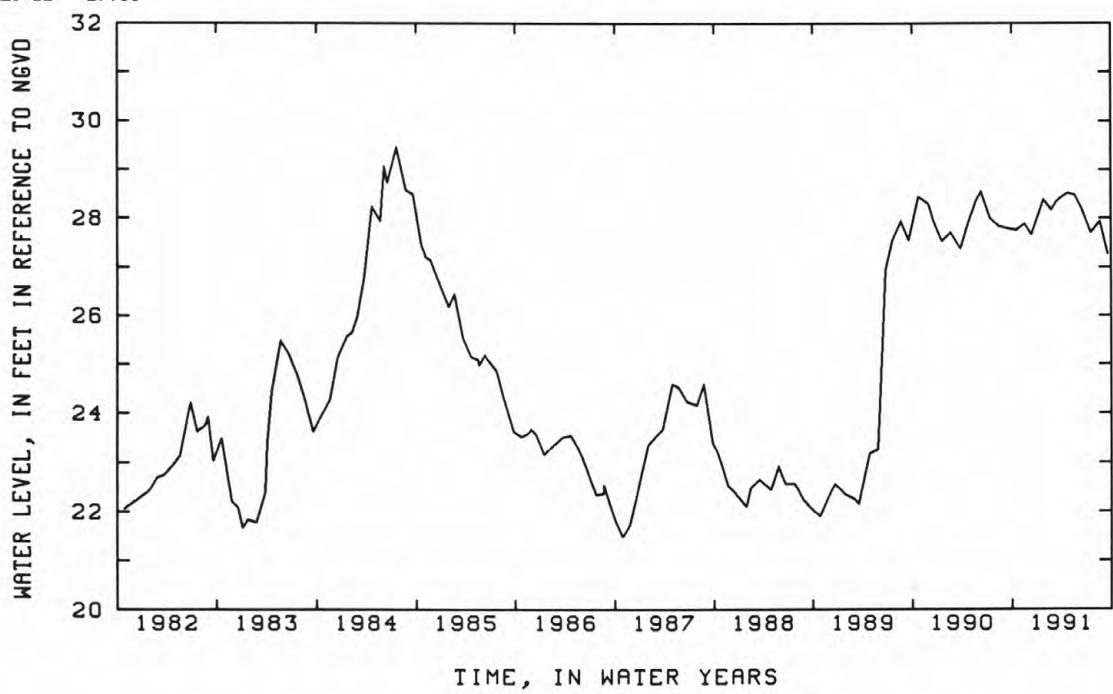
DATE	WATER LEVEL										
OCT 10	12.92	DEC 10	13.65	FEB 22	14.72	APR 16	14.93	JUN 21	14.20	AUG 23	13.29
NOV 16	13.85	JAN 17	14.48	MAR 20	16.06	MAY 17	15.03	JUL 16	13.15	SEP 18	12.66



404125073394802. Local number, N 1129.2
 LOCATION.--Lat $40^{\circ}41'25''$, long $73^{\circ}39'48''$, Hydrologic Unit 02030202, at east side of Euclid Avenue, 30 ft south of Hawthorne Street, West Hempstead. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 44 ft, screened 41 to 44 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 51.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.46 ft below land-surface datum.
 REMARKS.--Replaced well N 1129.1 in October 1966 at same location, unpublished record from August 1937 to October 1966 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--October 1966 to current year. Unpublished records from October 1966 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.46 ft NGVD, July 23, 1984; lowest measured, 21.49 ft NGVD, October 29, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	27.76	JAN 25	28.39	MAR 13	28.34	APR 24	28.52	JUN 14	28.21	AUG 22	27.94
NOV 19	27.88	FEB 25	28.18	20	28.38	MAY 21	28.47	JUL 18	27.70	SEP 18	27.27
DEC 12	27.68										



405104073375201. Local number, N 1152.1
 LOCATION.--Lat $40^{\circ}51'04''$, long $73^{\circ}37'52''$, Hydrologic Unit 02030201, at northwest corner of Sea Cliff Avenue and Center Street, Glen Cove. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 130 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 154.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.15 ft below land-surface datum.
 PERIOD OF RECORD.--August 1940 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.39 ft NGVD, July 13, 1961; lowest measured, 44.33 ft NGVD, April 12, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	50.44	DEC 10	50.43	FEB 22	50.82	APR 16	50.94	JUN 21	50.88	AUG 23	50.15
NOV 18	50.43	JAN 17	50.57	MAR 21	50.83	MAY 17	51.18	JUL 16	50.56	SEP 18	49.93

GROUND-WATER LEVELS: NASSAU COUNTY--Continued

404659073332601. Local number, N 1194.2

LOCATION.--Lat $40^{\circ}46'59''$, long $73^{\circ}33'26''$, Hydrologic Unit 02030202, at north side of Long Island Expressway westbound service road, just west of Jericho Turnpike (Rt. 25), Jericho. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 100 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 168.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 0.02 ft below land-surface datum.

REMARKS.--Replaced well N 1194.2 in December 1981.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.18 ft NGVD, June 7, 1979; lowest measured, 74.59 ft NGVD, July 17, 1987.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	84.78	DEC 10	85.78	FEB 22	85.66	APR 16	85.80	JUN 21	85.83	AUG 23	86.44
NOV 16	85.56	JAN 17	85.80	MAR 20	85.58	MAY 17	85.76	JUL 16	85.46	SEP 18	85.44

404453073323902. Local number, N 1197.4

LOCATION.--Lat $40^{\circ}44'53''$, long $73^{\circ}32'39''$, Hydrologic Unit 02030202, at west side of Abode Lane, 41 ft north of Stewart Avenue, Hicksville. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 69 ft, screened 64 to 69 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 117.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.95 ft below land-surface datum.

REMARKS.--Replaced well N 1197.3 in July 1975.

PERIOD OF RECORD.--July 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.13 ft NGVD, June 7, 1979; lowest measured, 64.40 ft NGVD, October 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	71.92	JAN 17	72.43	MAR 21	72.65	MAY 17	72.87	JUL 17	72.21	AUG 27	72.00
NOV 16	72.54	FEB 22	72.74	APR 16	72.74	JUN 24	72.48	AUG 23	72.20	SEP 18	71.60
DEC 10	72.58										

405000073293301. Local number, N 1228.3

LOCATION.--Lat $40^{\circ}50'00''$, long $73^{\circ}29'33''$, Hydrologic Unit 02030201, at south side of Cold Spring Road, 332 ft west of Townsend Road, Syosset. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 176 ft, screened 173 to 176 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 227.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 0.12 ft above land-surface datum.

REMARKS.--Replaced well N 1228.2 in February 1982.

PERIOD OF RECORD.--February 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.69 ft NGVD, May 29, 1980; lowest measured, 52.22 ft NGVD, July 18, 1987.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	65.64	DEC 10	67.36	FEB 22	68.85	APR 16	68.47	JUN 24	67.99	AUG 23	67.82
NOV 16	65.88	JAN 30	68.36	MAR 20	68.33	MAY 17	68.55	JUL 17	67.97	SEP 18	67.00

405027073272602. Local number, N 1243.5

LOCATION.--Lat $40^{\circ}50'28''$, long $73^{\circ}27'20''$, Hydrologic Unit 02030201, at south side of Stillwell Road, 98 ft west of Harbor Road, Cold Spring Harbor. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 64.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.92 ft below land-surface datum.

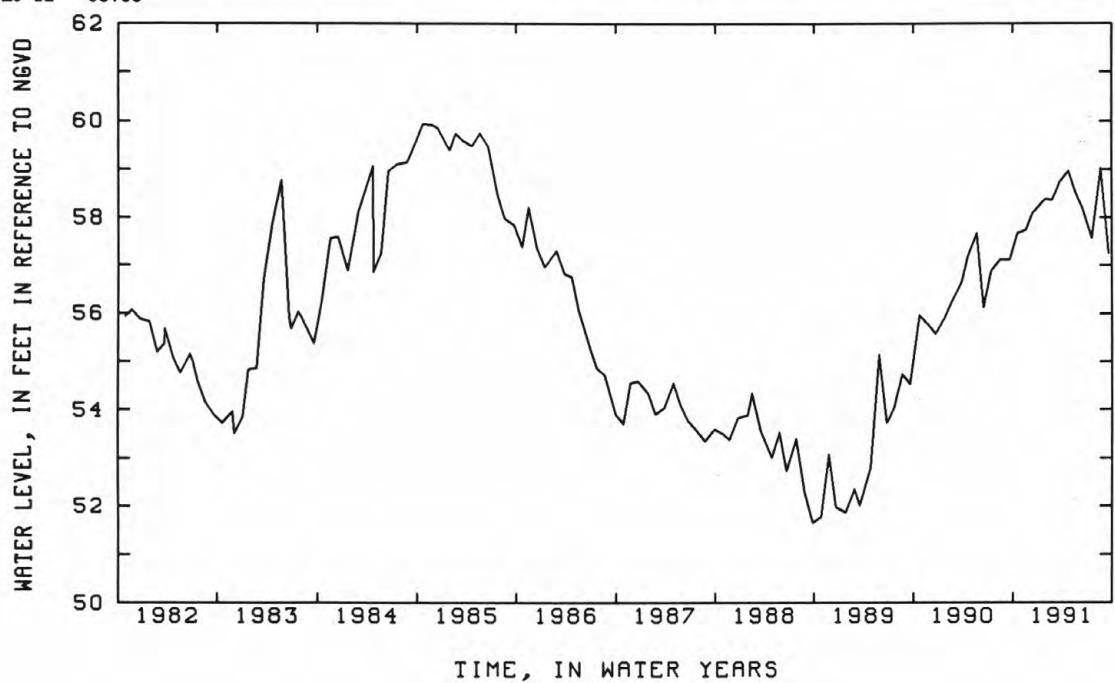
REMARKS.--Replaced well N 1243.4 in September 1975 at same location, unpublished records from November 1939 to September 1975 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.70 ft NGVD, March 21, 1978; lowest measured, 51.66 ft NGVD, September 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	57.67	JAN 28	58.39	MAR 13	58.61	APR 24	58.97	JUN 14	58.23	AUG 22	59.02
NOV 19	57.74	FEB 25	58.37	20	58.72	MAY 21	58.51	JUL 18	57.57	SEP 18	57.25
DEC 12	58.08										



GROUND-WATER LEVELS: NASSAU COUNTY--Continued

404317073291105. Local number, N 1259.5

LOCATION.--Lat $40^{\circ}43'16''$, long $73^{\circ}29'10''$, Hydrologic Unit 02030202, at south side of Mary Lane, 79 ft east of Hicksville Road (Rt. 107), Plainedge. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 41 ft, screened 38 to 41 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 78.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.08 ft above land-surface datum.

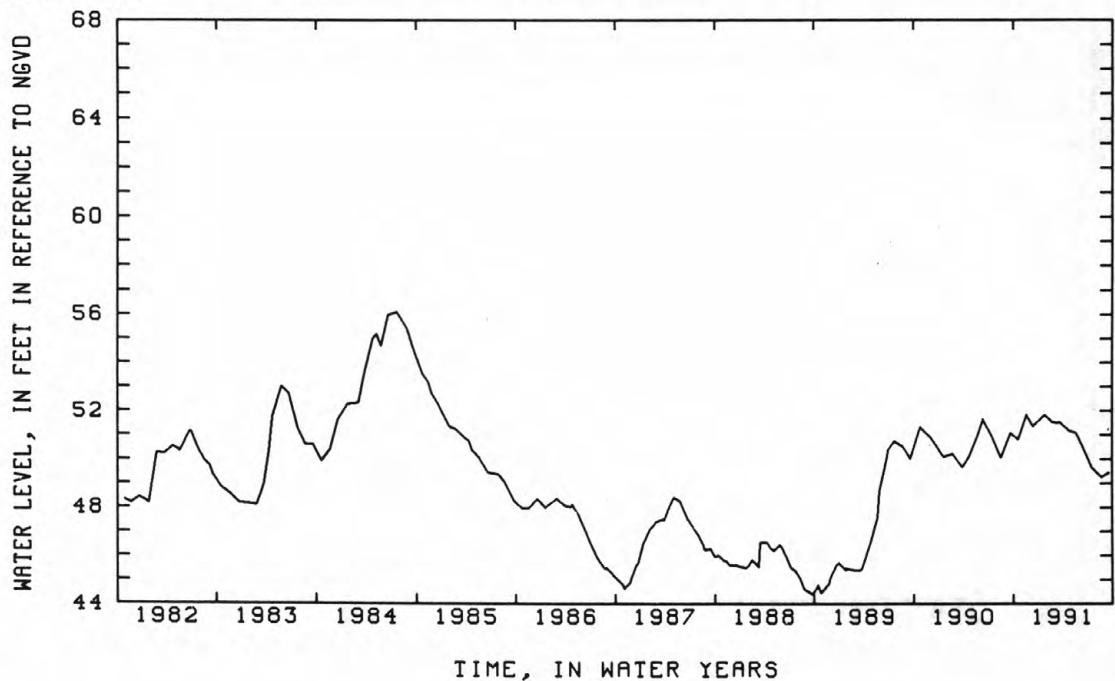
REMARKS.--Replaced well N 1259.4 in June 1961 at same location, unpublished records from January 1909 to June 1961 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--June 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.60 ft NGVD, February 21, 1978; lowest measured, 44.41 ft NGVD, September 28, 1988.

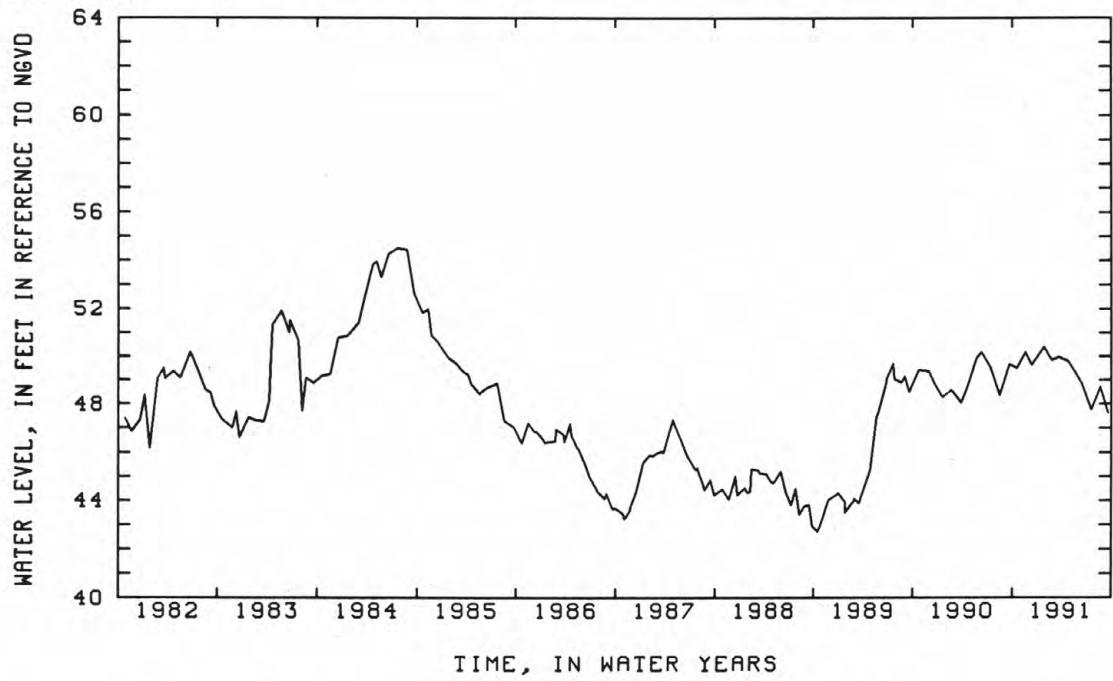
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	50.82	JAN 25	51.83	MAR 13	51.50	APR 24	51.20	JUN 14	50.54	AUG 22	49.25
NOV 19	51.85	FEB 25	51.54	20	51.53	MAY 21	51.10	JUL 18	49.63	SEP 18	49.45
DEC 12	51.38										



404302073295705. Local number, N 1263.4
LOCATION.--Lat $40^{\circ}43'02''$, long $73^{\circ}29'58''$, Hydrologic Unit 02030202, at northeast corner of Wantagh Avenue and Miller Place, Levittown. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 35 ft, screened 32 to 35 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 67.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.41 ft below land-surface datum.
REMARKS.--Replaced well N 1263.3 in December 1952 at same location, unpublished records from June 1936 to December 1952 are available in files of Long Island Subdistrict Office.
PERIOD OF RECORD.--December 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.74 ft NGVD, March 21, 1978; lowest measured, 42.70 ft NGVD, October 14, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



404042073292601. Local number, N 1464.1
LOCATION.--Lat 40°40'42", long 73°29'28", Hydrologic Unit 02030202, at north side of Franklin Avenue, 102 ft east
of Grant Avenue, in sidewalk, Seaford. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in. to 6 in., depth 42 ft,
screened 32 to 42 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 28.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of
1 1/4-in. steel casing extension, 0.37 ft below land-surface datum.
PERIOD OF RECORD.--May 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.43 ft NGVD, March 25, 1975; lowest measured,
12.22 ft NGVD, January 28, 1950.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

405019073415301. Local number, N 1482.1
 LOCATION.--Lat $40^{\circ}50'19''$, long $73^{\circ}41'53''$, Hydrologic Unit 02030201, at north side of Mill Pond Road, 55 ft west of Pleasant Avenue, eastern most well, Port Washington. Owner: Nassau County Department of Public Works.
 AQUIFER.--Port Washington (confining unit).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 1/2 in., depth 151 ft, screened 148 to 151 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 11.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 1/2-in. steel casing, 0.23 ft below land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--November 1945 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.31 ft NGVD, January 18, 1991; lowest measured, -19.18 ft NGVD, July 7, 1955.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	9.79	DEC 14	8.57	MAR 1	9.77	APR 29	8.83	JUN 13	8.41	AUG 26	10.18
NOV 14	8.59	JAN 18	10.31	20	9.48	MAY 30	8.68	JUL 24	6.54	SEP 23	8.89

405019073415302. Local number, N 1483.1
 LOCATION.--Lat $40^{\circ}50'19''$, long $73^{\circ}41'53''$, Hydrologic Unit 02030201, at north side of Mill Pond Road, 58 ft west of Pleasant Avenue, middle well, Port Washington. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 1/2 in., depth 99 ft, screened 96 to 99 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 11.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 1/2-in. steel casing, 0.55 ft below land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--February 1946 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.94 ft NGVD, September 9, 1955; lowest measured, -7.13 ft NGVD, September 3, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	8.55	DEC 14	8.46	MAR 1	8.56	APR 29	9.02	JUN 13	8.65	AUG 26	8.51
NOV 14	8.49	JAN 18	8.68	20	9.06	MAY 30	8.72	JUL 24	8.00	SEP 23	8.08

405019073415303. Local number, N 1484.1
 LOCATION.--Lat $40^{\circ}50'19''$, long $73^{\circ}41'53''$, Hydrologic Unit 02030201, at north side of Mill Pond Road, 61 ft west of Pleasant Avenue, western most well, Port Washington. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 1/2 in., depth 52 ft, screened 50 to 52 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 11.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 1/2-in. steel casing, 0.88 ft below land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--April 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.11 ft NGVD, September 7, 1955; lowest measured, 6.19 ft NGVD, June 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	7.62	DEC 14	8.95	MAR 1	8.91	APR 29	9.57	JUN 13	9.16	AUG 26	9.13
NOV 14	9.02	JAN 18	9.30	20	9.59	MAY 30	9.24	JUL 24	8.50	SEP 23	8.65

404446073392904. Local number, N 1614.4

LOCATION.--Lat $40^{\circ}44'46''$, long $73^{\circ}39'29''$, Hydrologic Unit 02030202, at west side of Herricks Road, 135 ft north of Birchwood Drive, North Hempstead. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 53 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 101.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 1.16 ft below land-surface datum.

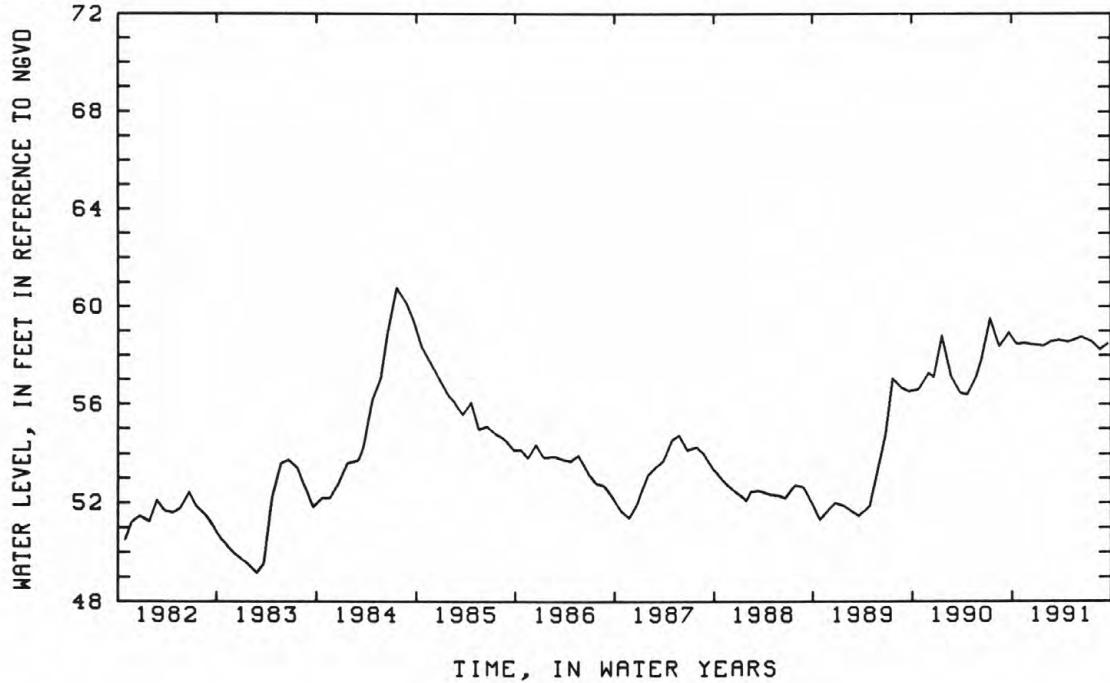
REMARKS.--Replaced well N 1614.3 in April 1966 at same location, unpublished records from December 1933 to September 1975 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--April 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.78 ft NGVD, July 23, 1984; lowest measured, 48.42 ft NGVD, December 21, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

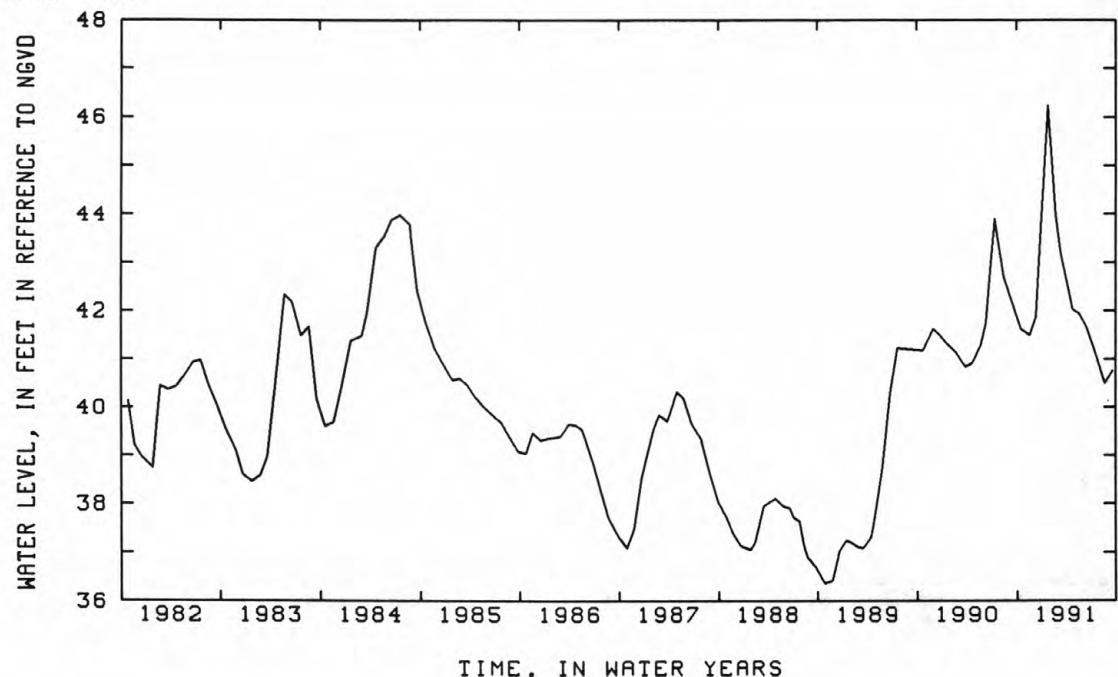
DATE	WATER LEVEL										
OCT 17	58.48	JAN 25	58.38	MAR 13	58.59	APR 24	58.56	JUN 14	58.76	AUG 22	58.23
NOV 19	58.50	FEB 25	58.58	20	58.64	MAY 21	58.66	JUL 18	58.58	SEP 18	58.46
DEC 12	58.44										



404209073340601. Local number, N 1615.3
 LOCATION.--Lat $40^{\circ}42'09''$, long $73^{\circ}34'06''$, Hydrologic Unit 02030202, at east side of Merrick Avenue, 100 ft south of Van Buren Avenue, Freeport. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 33 ft, screened 30 to 33 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 61.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.13 ft below land-surface datum.
 REMARKS.--Replaced well N 1615.2 in August 1968 at same location, unpublished record from March 1913 to August 1968 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--August 1968 to current year. Unpublished records from August 1968 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.25 ft NGVD, January 25, 1991; lowest measured, 36.37 ft NGVD, October 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

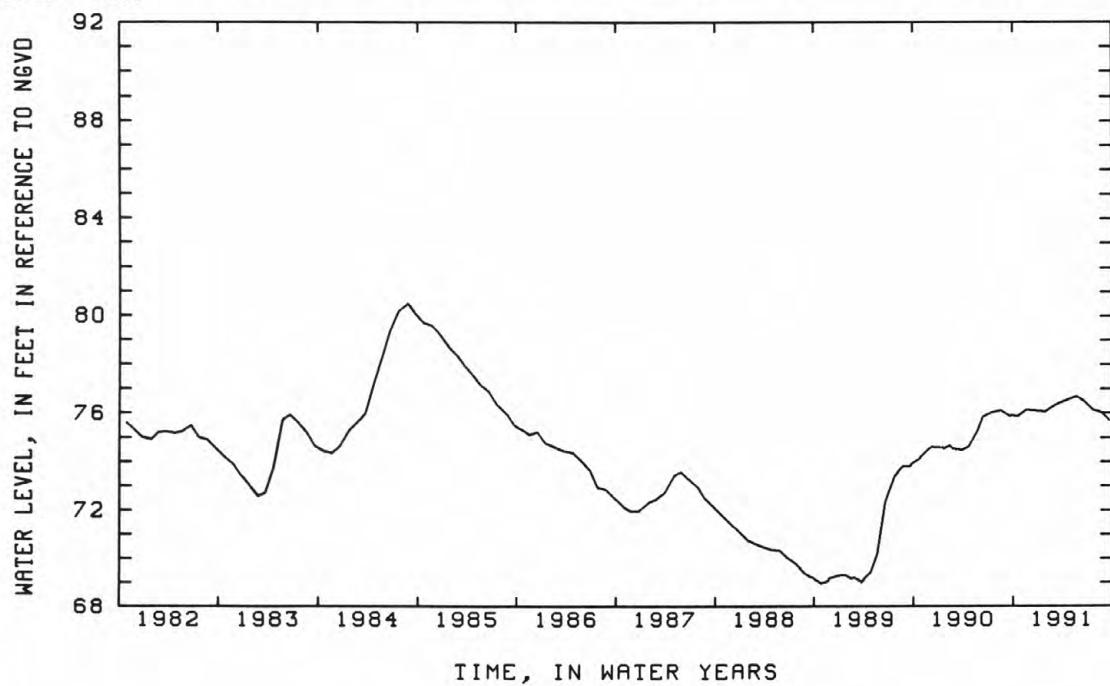
DATE	WATER LEVEL										
OCT 17	41.60	JAN 26	46.25	MAR 13	43.17	APR 24	42.03	JUN 14	41.67	AUG 22	40.50
NOV 19	41.48	FEB 25	43.98	21	42.92	MAY 21	41.92	JUL 18	41.10	SEP 18	40.77
DEC 12	41.88										



404554073351502. Local number, N 1616.2
 LOCATION.--Lat $40^{\circ}45'54''$, long $73^{\circ}35'15''$, Hydrologic Unit 02030202, at south side of Argyle Road, south loop, 40 ft west of Post Avenue, Old Westbury. Owner: Nassau County Department of Public Works.
 AQUIFER.--Magothy (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 68 ft, screened 65 to 68 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 122.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.42 ft below land-surface datum.
 REMARKS.--Replaced well N 1616.1 in October 1965 at same location, it was previously screened in Upper Glacial Aquifer, which has a period of record from March 1913 to October 1965.
 PERIOD OF RECORD.--October 1965 to current year. Unpublished record from October 1965 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.14 ft NGVD, June 20, 1980; lowest measured, 68.28 ft NGVD, February 28, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	75.87	JAN 25	76.07	MAR 13	76.41	APR 24	76.58	JUN 14	76.54	AUG 22	76.03
NOV 19	76.13	FEB 25	76.28	20	76.43	MAY 21	76.69	JUL 18	76.14	SEP 18	75.70
DEC 12	76.11										



405101073343401. Local number, N 2528.2
 LOCATION.--Lat $40^{\circ}50'01''$, long $73^{\circ}34'32''$, Hydrologic Unit 02030201, at south side of Chicken Valley Road, 83 ft west of Wolver Hollow Road, Upper Brookville. Owner: Nassau County Department of Public Works.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in. to 4 in., depth 328 ft, screened 278 to 282 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 93.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel reducer, 0.86 ft above land-surface datum.
 REMARKS.--Replaced well N 2528.1 in November 1947.
 PERIOD OF RECORD.--December 1947 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.92 ft NGVD, July 25, 1957; lowest measured, 59.12 ft NGVD, February 24, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	70.00	DEC 10	70.16	FEB 22	70.37	APR 16	70.58	JUN 21	70.53	AUG 23	70.39
NOV 16	70.38	JAN 17	70.17	MAR 20	70.65	MAY 17	70.77	JUL 16	70.09	SEP 18	69.91

404619073270601. Local number, N 3355.2
 LOCATION.--Lat $40^{\circ}46'18''$, long $73^{\circ}27'04''$, Hydrologic Unit 02030202, at former site of Nassau County Sanitarium, 338 ft west of Round Swamp Road, south of Locust Road, in wooden recorder shelter, Plainview. Owner: United States Geological Survey.
 AQUIFER.--Lloyd (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in. to 8 in., depth 1,093 ft, screened 1,070 to 1,090 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 183.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in. steel casing, 0.28 ft below land-surface datum.
 PERIOD OF RECORD.--January 1956 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.17 ft NGVD, April 10, 1957; lowest measured, 23.18 ft NGVD, April 11, 1972.

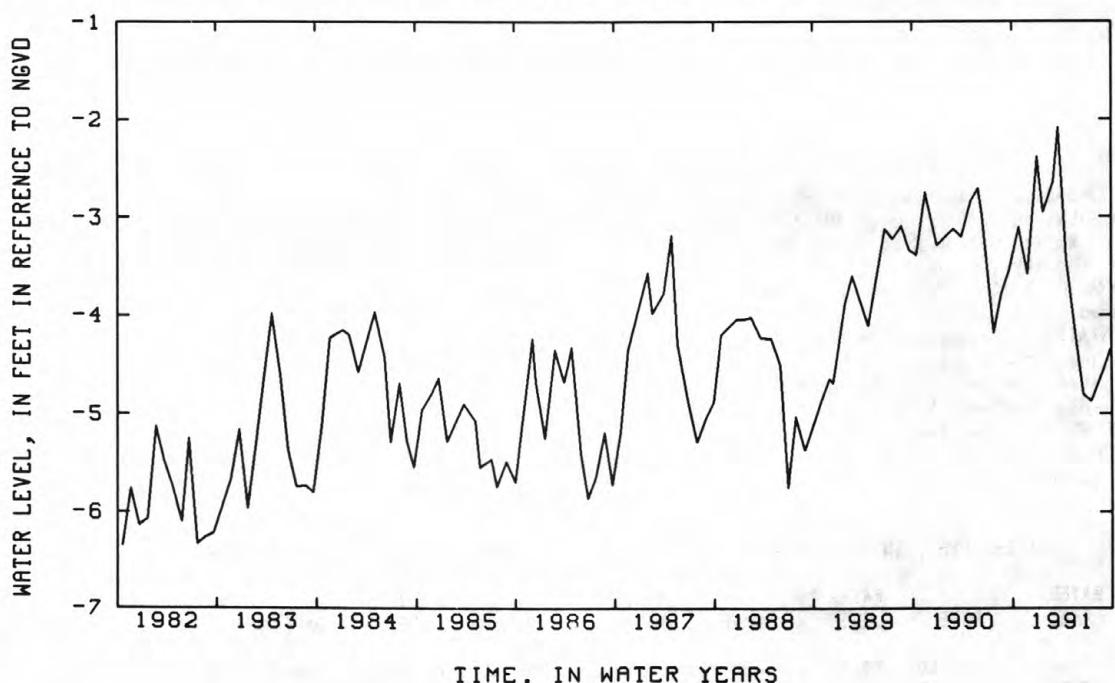
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	31.93	DEC 10	33.12	MAR 1	33.65	APR 18	33.92	JUN 24	32.59	AUG 23	31.74
NOV 16	32.74	JAN 17	33.68	25	33.97	MAY 17	33.97	JUL 17	32.02	SEP 18	31.60

403751073440201. Local number, N 3861.1
 LOCATION.--Lat $40^{\circ}37'51''$, long $73^{\circ}44'01''$, Hydrologic Unit 02030202, at Cedarhurst Water Pollution Control Plant, north of Peninsula Boulevard, 28 ft east of Arlington Place, Cedarhurst. Owner: United States Geological Survey.
 AQUIFER.--Magathy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 530 ft, screened 519 to 530 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 7.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 2.37 ft above land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--April 1952 to current year. Unpublished records from April 1952 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -2.09 ft NGVD, March 20, 1991; lowest measured, -7.57 ft NGVD, August 7, 1955.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	-3.10	JAN 3	-2.39	MAR 1	-2.64	APR 18	-3.43	JUL 17	-4.87	SEP 26	-4.35
NOV 27	-3.58	23	-2.95	20	-2.09	JUN 18	-4.81	AUG 29	-4.57		



403911073432701. Local number, N 3867.2

LOCATION.--Lat $40^{\circ}39'12''$, long $73^{\circ}43'20''$, Hydrologic Unit 02030202, at Brook Road Park, 35 ft south of Brook Road, 41 ft east of stream, Green Acres. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 517 ft, screened 505 to 517 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 1.54 ft above land-surface datum.

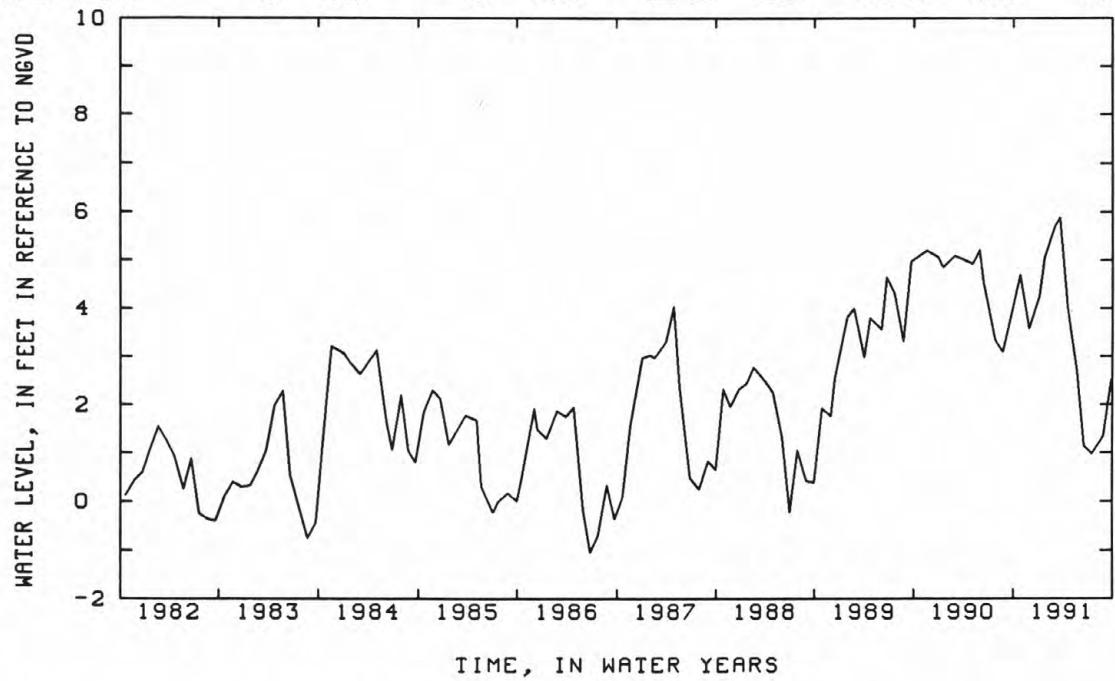
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--January 1953 to current year. Unpublished records from January 1953 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.99 ft NGVD, January 28, 1953; lowest measured, -2.61 ft NGVD, July 19, 1977.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.71	JAN 4	4.26	MAR 1	5.71	APR 18	4.02	JUN 18	1.15	AUG 29	1.34
NOV 27	3.57	23	5.06	20	5.89	MAY 22	2.70	JUL 17	0.98	SEP 26	2.51



403751073440202. Local number, N 3932.1

LOCATION.--Lat $40^{\circ}37'51''$, long $73^{\circ}44'01''$, Hydrologic Unit 02030202, at Cedarhurst Water Pollution Control Plant, north of Peninsula Boulevard, 37 ft east of Arlington Place, Cedarhurst. Owner: Nassau County Department of Public Works.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 178 ft, screened 172 to 176 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel nipple, 3.24 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--June 1952 to current year. Unpublished records from June 1952 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.13 ft NGVD, November 10, 1975; lowest measured, 0.30 ft NGVD, September 20, 1977.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.34	JAN 3	3.98	MAR 1	4.67	APR 18	3.85	JUL 17	2.48	SEP 26	3.06
NOV 27	3.56	23	4.23	20	5.27	JUN 18	2.60	AUG 29	2.46		

403713073415901. Local number, N 4028.1

LOCATION.--Lat $40^{\circ}37'12''$, long $73^{\circ}41'59''$, Hydrologic Unit 02030202, at Woodsburgh Town Dock parking field, south end of Woodmere Boulevard, on west side of sewer treatment substation, Woodsburgh. Owner: Nassau County Department of Public Works.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 153 ft, screened 149 to 153 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing at yellow arrow, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuations.

PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.27 ft NGVD, March 21, 1984; lowest measured, -0.26 ft NGVD, September 30, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.72	JAN 4	4.26	MAR 1	5.07	APR 18	4.30	JUN 18	2.80	SEP 26	3.57
NOV 27	4.03	23	4.46	21	4.83	MAY 22	3.59				

403844073340801. Local number, N 4150.2

LOCATION.--Lat $40^{\circ}38'43''$, long $73^{\circ}34'07''$, Hydrologic Unit 02030202, at south side of Albany Avenue, in driveway of Nassau County Department of Public Works building, Freeport. Owner: United States Geological Survey.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 765 ft, screened 729 to 745 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by USGS personnel.

DATUM.--Land-surface datum is 6.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1/2-in. steel valve, 0.55 ft below land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--January 1968 to current year. Unpublished records from January 1968 to September 1987 are available in files of Long Island sub-district Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.25 ft NGVD, July 1, 1975; lowest measured, 5.24 ft NGVD, July 29, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 25	8.20	MAR 21	8.54	MAY 22	8.84	JUL 17	5.99	AUG 28	7.04	SEP 26	7.65
MAR 1	8.06	APR 19	8.49	JUN 17	8.46						

403911073432001. Local number, N 4213.1

LOCATION.--Lat $40^{\circ}39'12''$, long $73^{\circ}43'20''$, Hydrologic Unit 02030202, at Brook Road Park, 34 ft south of Brook Road, 32 ft east of stream, Green Acres. Owner: Nassau County Department of Public Works.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 134 ft, screened 130 to 134 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 3.42 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.33 ft NGVD, June 30, 1975; lowest measured, -2.40 ft NGVD, March 22, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.83	JAN 4	4.29	MAR 1	5.62	APR 18	3.72	JUN 13	0.95	AUG 29	1.12
NOV 27	3.28	23	4.84	20	5.69	MAY 22	2.47	JUL 17	0.72	SEP 26	2.65

405125073420702. Local number, N 6282.2

LOCATION.--Lat $40^{\circ}51'25''$, long $73^{\circ}42'07''$, Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, 300 ft north of Middle Neck Road, western most well, Sands Point. Owner: United States Geological Survey.

AQUIFER.--Port Washington (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 398 ft, screened 378 to 388 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 100.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 1.32 ft above land-surface datum.

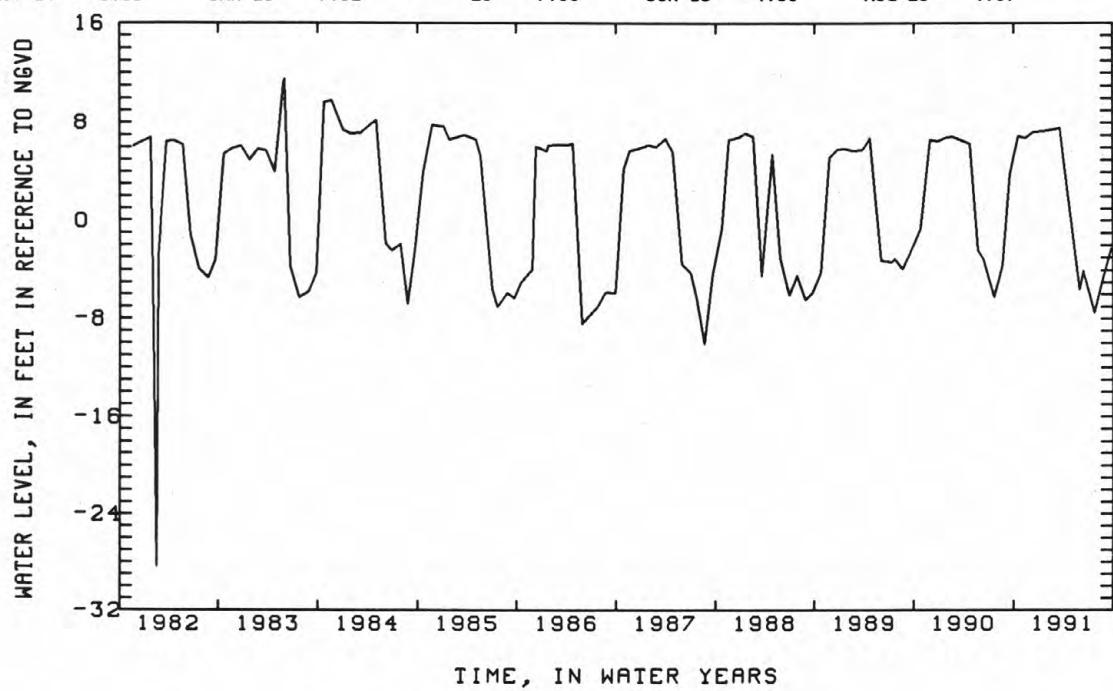
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--August 1957 to current year. Unpublished records from August 1957 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.49 ft NGVD, May 31 and June 1, 1983; lowest measured, -28.36 ft NGVD, February 17, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	6.92	DEC 14	7.27	MAR 1	7.48	MAY 30	-5.57	JUL 24	-7.46	SEP 23	-2.24
NOV 14	6.80	JAN 18	7.32	MAR 20	7.55	JUN 13	-4.09	AUG 26	-4.57		



405001073343205. Local number, N 6294.2

LOCATION.--Lat $40^{\circ}50'01''$, long $73^{\circ}34'32''$, Hydrologic Unit 02030201, at south side of Chicken Valley Road, 85 ft west of Wolver Hollow Road, Upper Brookville. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 37 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 93.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.30 ft above land-surface datum.

PERIOD OF RECORD.--September 1982 to current year. Unpublished records from September 1982 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.07 ft NGVD, December 18, 1984; lowest measured, 63.81 ft NGVD, March 21, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	70.00	DEC 10	70.15	FEB 22	70.39	APR 16	70.47	JUN 21	70.53	AUG 23	69.96
NOV 18	70.39	JAN 17	70.20	MAR 20	70.68	MAY 17	70.81	JUL 18	70.16	SEP 18	70.02

405125073420705. Local number, N 6342.1

LOCATION.--Lat $40^{\circ}51'25''$, long $73^{\circ}42'07''$, Hydrologic Unit 02030201, at Helen Keller National Center for Deaf-Blind Youths and Adults, 300 ft north of Middle Neck Road, eastern most well, Sands Point. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 185 ft, screened 183 to 185 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 97.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 3.99 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--August 1957 to current year. Unpublished records from August 1957 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.99 ft NGVD, September 14, 1984; lowest measured, 14.06 ft NGVD, February 28, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	21.47	DEC 14	21.06	MAR 1	20.09	APR 29	20.38	JUN 13	21.25	AUG 26	21.31
NOV 14	20.91	JAN 18	20.26	20	20.22	MAY 30	21.01	JUL 24	21.32	SEP 23	21.09

405212073354002. Local number, N 6668.1

LOCATION.--Lat $40^{\circ}52'12''$, long $73^{\circ}35'40''$, Hydrologic Unit 02030201, at east side of Piping Rock Road, 58 ft south of Underhill Road, south loop, Matinecock. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 43 ft, screened 41 to 43 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 103.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.38 ft above land-surface datum.

PERIOD OF RECORD.--April 1968 to current year. Unpublished records from April 1968 to September 1982 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.80 ft NGVD, February 2, 1979; lowest measured, 63.30 ft NGVD, April 22, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	68.69	DEC 10	68.36	FEB 22	68.01	APR 16	67.90	JUN 21	67.97	SEP 18	66.72
NOV 16	68.49	JAN 17	68.15	MAR 22	67.94	MAY 17	67.97	AUG 23	67.86		

403517073430702. Local number, N 6702.1

LOCATION.--Lat $40^{\circ}35'17''$, long $73^{\circ}43'06''$, Hydrologic Unit 02030202, at pumping center, 0.1 miles west of end of Park Street, 300 ft north of Beech Street, in east shelter, Atlantic Beach. Owner: United States Geological Survey.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 677 ft, screened 666 to 677 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

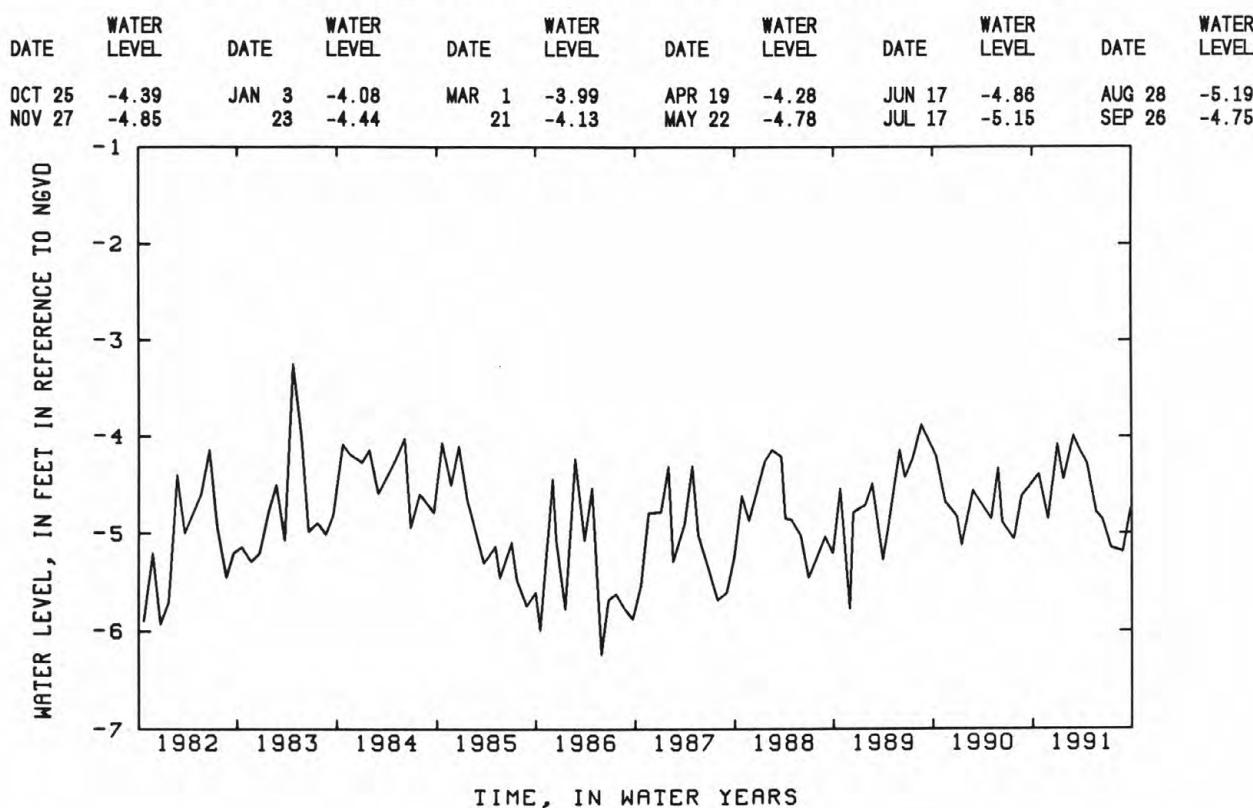
DATUM.--Land-surface datum is 11.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 1.04 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--September 1959 to current year. Unpublished records from September 1959 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -2.50 ft NGVD, April 13, 1961; lowest measured, -6.58 ft NGVD, November 30, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



403517073430705. Local number, N 6705.1

LOCATION.--Lat $40^{\circ}35'17''$, long $73^{\circ}43'06''$, Hydrologic Unit 02030202, at pumping center, 0.1 miles west of end of Park Street, 300 ft north of Beech Street, in west shelter, Atlantic Beach. Owner: United States Geological Survey.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 157 ft, screened 147 to 157 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

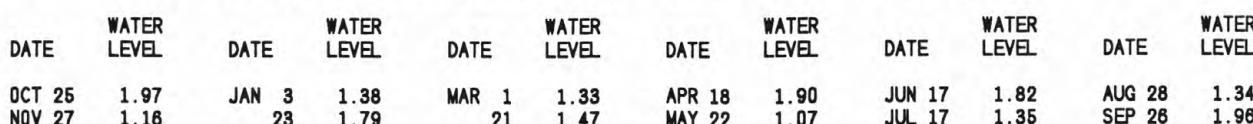
DATUM.--Land-surface datum is 10.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 2.45 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1968 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.12 ft NGVD, March 3, 1969; lowest measured, -2.77 ft NGVD, April 5, 1973.

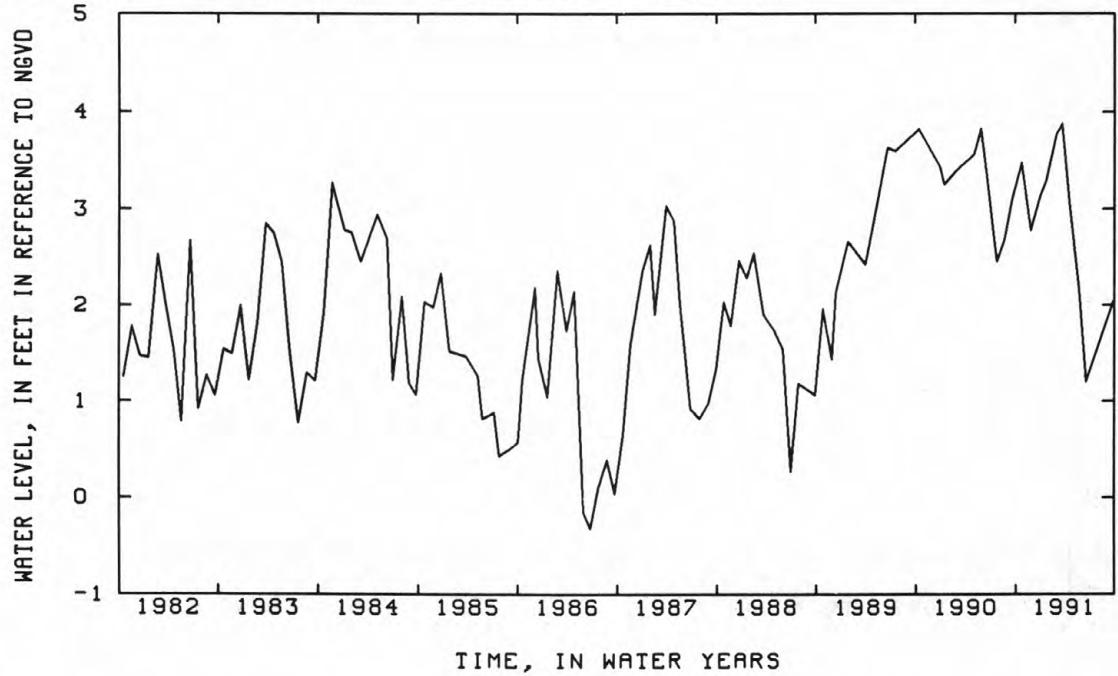
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



403713073415902. Local number, N 6707.1
 LOCATION.--Lat $40^{\circ}37'12''$, long $73^{\circ}41'59''$, Hydrologic Unit 02030202, at Woodsburgh Town Dock parking field, south end of Woodmere Boulevard, on north side of sewage treatment substation, Woodsburgh. Owner: United States Geological Survey.
 AQUIFER.--Magathy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 503 ft, screened 493 to 503 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 1.08 ft above land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--October 1959 to current year. Unpublished records from October 1959 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.52 ft NGVD, March 13, 1961; lowest measured, -1.33 ft NGVD, July 19, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.48	JAN 3	3.14	MAR 1	3.77	APR 18	3.07	JUN 18	1.20	SEP 26	2.04
NOV 27	2.77	23	3.29	21	3.88	MAY 22	2.18				



403533073353201. Local number, N 6849.1
 LOCATION.--Lat $40^{\circ}35'33''$, long $73^{\circ}35'32''$, Hydrologic Unit 02030202, at pumping center, north of Lido Boulevard, 0.3 miles west of Loop Parkway, in south shelter, Lido Beach. Owner: United States Geological Survey.
 AQUIFER.--Raritan (confining unit).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 1,040 ft, screened 1,027 to 1,037 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 7.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 2.36 ft above land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--February 1968 to current year. Unpublished records from February 1968 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.66 ft NGVD, March 16, 1979; lowest measured, 3.88 ft NGVD, December 22, 1971.

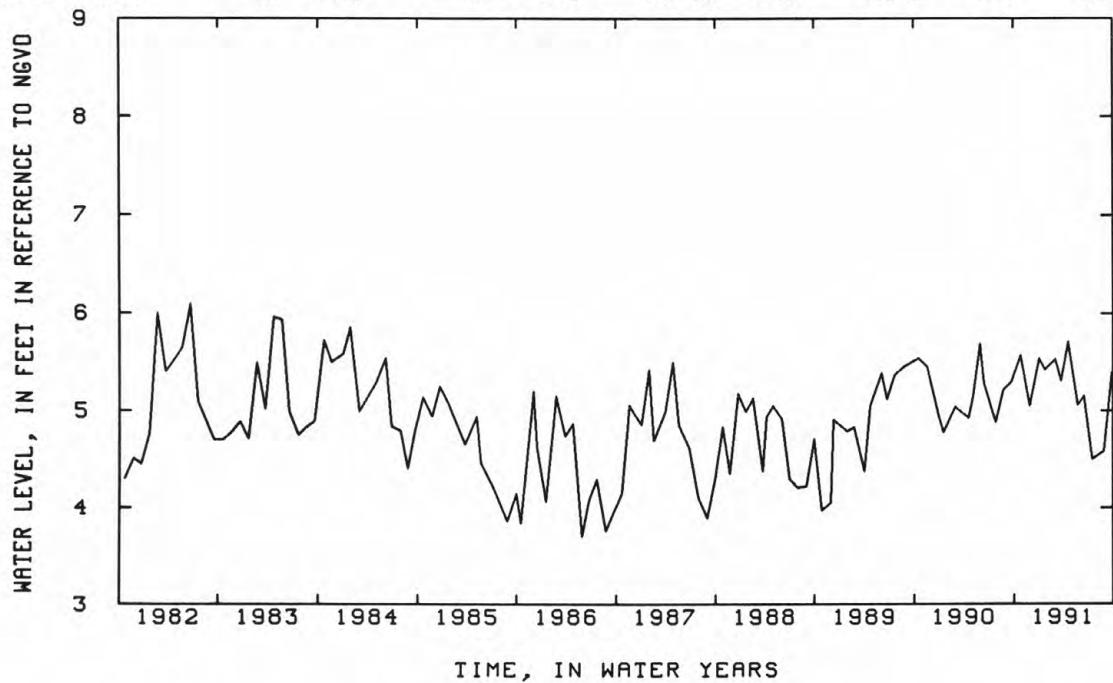
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.96	JAN 3	6.09	MAR 1	6.31	APR 18	6.54	JUN 17	6.52	AUG 28	5.63
NOV 27	5.71	23	6.01	21	6.31	MAY 22	6.25	JUL 17	6.08	SEP 26	5.99

403533073353202. Local number, N 6850.2
 LOCATION.--Lat $40^{\circ}35'33''$, long $73^{\circ}35'32''$, Hydrologic Unit 02030202, at pumping center, north of Lido Boulevard, 0.3 miles west of Loop Parkway, in north shelter, Lido Beach. Owner: United States Geological Survey.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 913 ft, screened 898 to 909 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 6.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel coupling, 2.58 ft above land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation and nearby pumping. Replaced well N 6850.1 in May 1960.
 PERIOD OF RECORD.--June 1960 to current year. Unpublished records from June 1960 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.00 ft NGVD, April 13, 1961; lowest measured, 2.69 ft NGVD, October 27, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.57	JAN 3	5.54	MAR 1	5.53	APR 18	5.71	JUN 17	5.15	AUG 28	4.58
NOV 27	5.05	23	5.42	21	5.31	MAY 22	5.06	JUL 17	4.50	SEP 26	5.39



405311073331801. Local number, N 6879.1
 LOCATION.--Lat $40^{\circ}53'11''$, long $73^{\circ}33'18''$, Hydrologic Unit 02030201, at west side of private road, 165 ft south of Cleft Road, opposite Horse Shoe Road, Mill Neck. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 131 ft, screened 129 to 131 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 131.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.47 ft above land-surface datum.
 PERIOD OF RECORD.--April 1962 to current year. Unpublished records from April 1962 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.97 ft NGVD, June 22, 1979; lowest measured, 24.82 ft NGVD, October 21, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	29.67	DEC 10	29.24	FEB 22	28.91	APR 16	28.77	JUN 21	28.80	AUG 23	28.61
NOV 18	29.42	JAN 17	29.20	MAR 20	28.84	MAY 17	28.91	JUL 16	28.72	SEP 18	28.50

405432073345001. Local number, N 7152.1

LOCATION.--Lat $40^{\circ}54'33''$, long $73^{\circ}34'46''$, Hydrologic Unit 02030201, at Oak Neck Beach, 35 ft north of Bayville Avenue, east of beach parking field, Bayville. Owner: United States Geological Survey.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in. to 6 in., depth 370 ft, screened 360 to 370 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 14.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel nipple, 3.63 ft above land-surface datum.

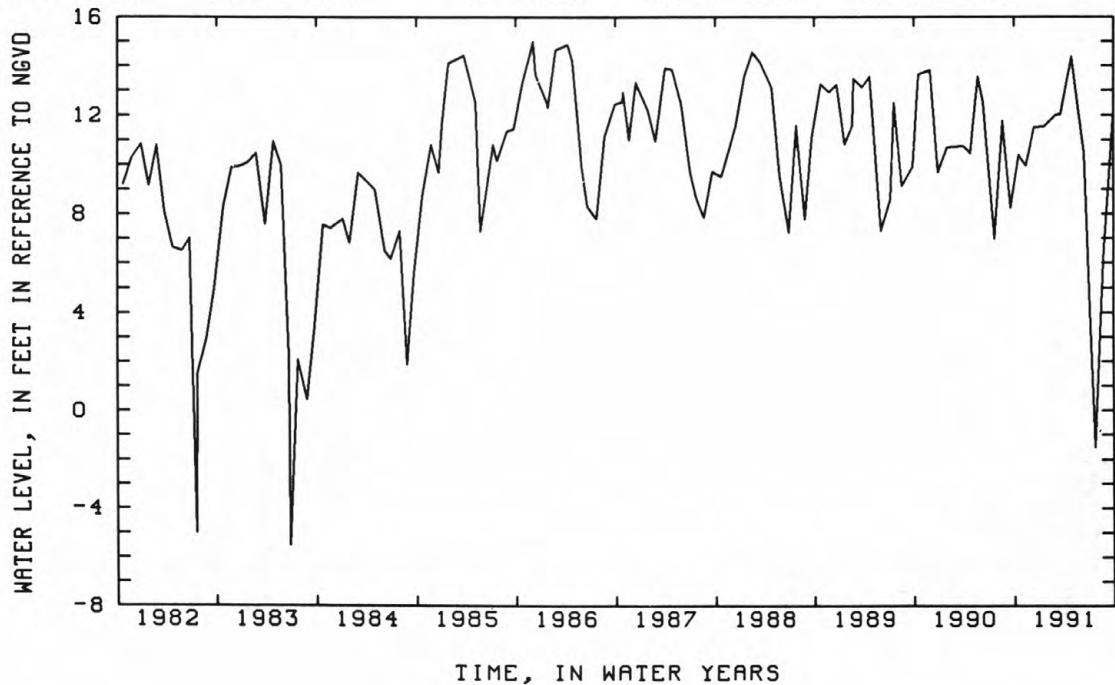
REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--September 1961 to current year. Unpublished records from September 1961 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.74 ft NGVD, February 5, 1962; lowest measured, -5.50 ft NGVD, June 27, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	10.38	DEC 14	11.48	MAR 1	12.00	APR 29	14.39	JUL 24	-1.51	SEP 30	12.23
NOV 14	9.98	JAN 18	11.52	20	12.01	JUN 13	10.51	AUG 26	6.63		



403856073392603. Local number, N 7161.2

LOCATION.--Lat $40^{\circ}38'56''$, long $73^{\circ}39'26''$, Hydrologic Unit 02030202, at Rockville Centre Village Dump, south of the end of Riverside Road, 79 ft north of the end of Roxbury Road, northern most well, Rockville Centre.

Owner: Village of Rockville Centre.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 666 ft, screened 661 to 665 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in. steel casing, 2.78 ft above land-surface datum.

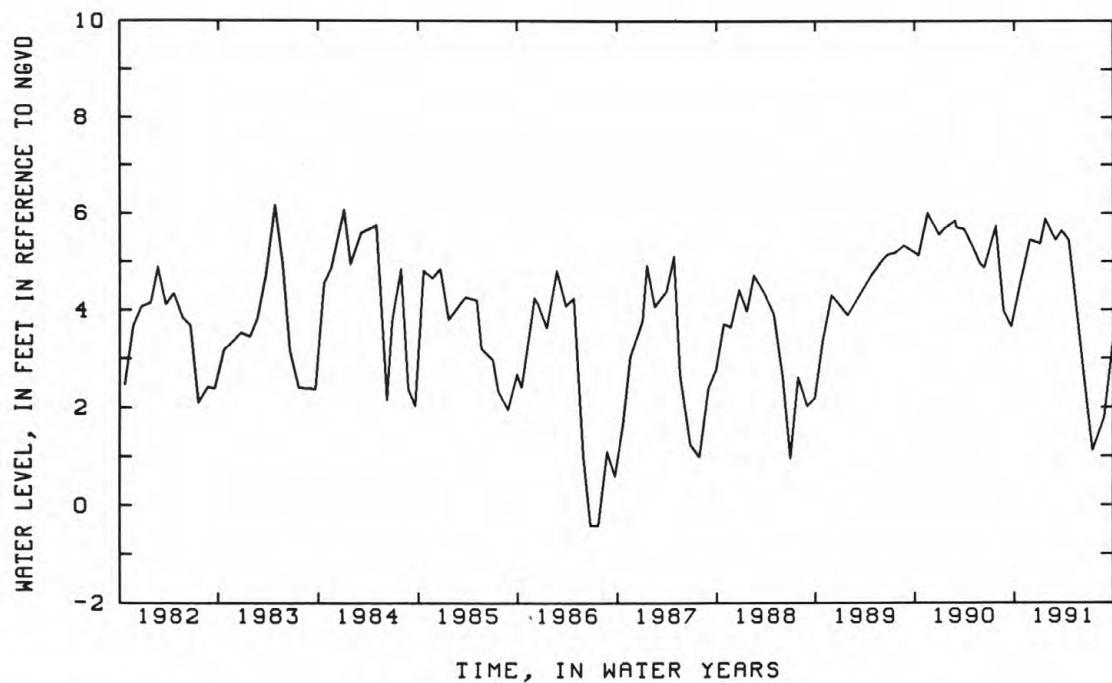
REMARKS.--Water level affected by tidal fluctuation and nearby pumping. Replaced well N 7161.1 in September 1961.

PERIOD OF RECORD.--October 1961 to current year. Unpublished records from October 1961 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.03 ft NGVD, March 13, 1982; lowest measured, -2.81 ft NGVD, July 13, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.81	JAN 4	5.37	MAR 1	5.44	APR 19	5.43	JUL 17	1.11	SEP 27	3.32
NOV 28	5.44	23	5.87	22	5.64	JUN 18	2.48	AUG 29	1.79		



403855073392402. Local number, N 7207.1

LOCATION.--Lat $40^{\circ}38'55''$, long $73^{\circ}39'24''$, Hydrologic Unit 02030202, at Rockville Centre Village Dump, south of the end of Riverside Road, 44 ft north of the end of Roxbury Road, southern most well, Rockville Centre.

Owner: Village of Rockville Centre.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 98 ft, screened 95 to 98 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 8.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. to 2-in. steel reducer, 2.39 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation and nearby pumping.

PERIOD OF RECORD.--January 1968 to current year. Unpublished records from January 1968 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.33 ft NGVD, June 30, 1975; lowest measured, 1.47 ft NGVD, January 30, 1970.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.10	JAN 4	3.83	MAR 1	3.74	APR 19	3.74	JUL 17	3.22	SEP 27	4.01
NOV 28	3.41	23	3.87	22	3.67	JUN 18	2.73	AUG 29	3.47		

404237073433701. Local number, N 7493.1

LOCATION.--Lat $40^{\circ}42'38''$, long $73^{\circ}43'35''$, Hydrologic Unit 02030202, at west side of Cross Island Parkway exit ramp (Hempstead Turnpike eastbound), 21 ft south of Hempstead Turnpike, Elmont. Owner: Nassau County Department of Public Works.

AQUIFER.--Magoth (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 353 ft, screened 349 to 353 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

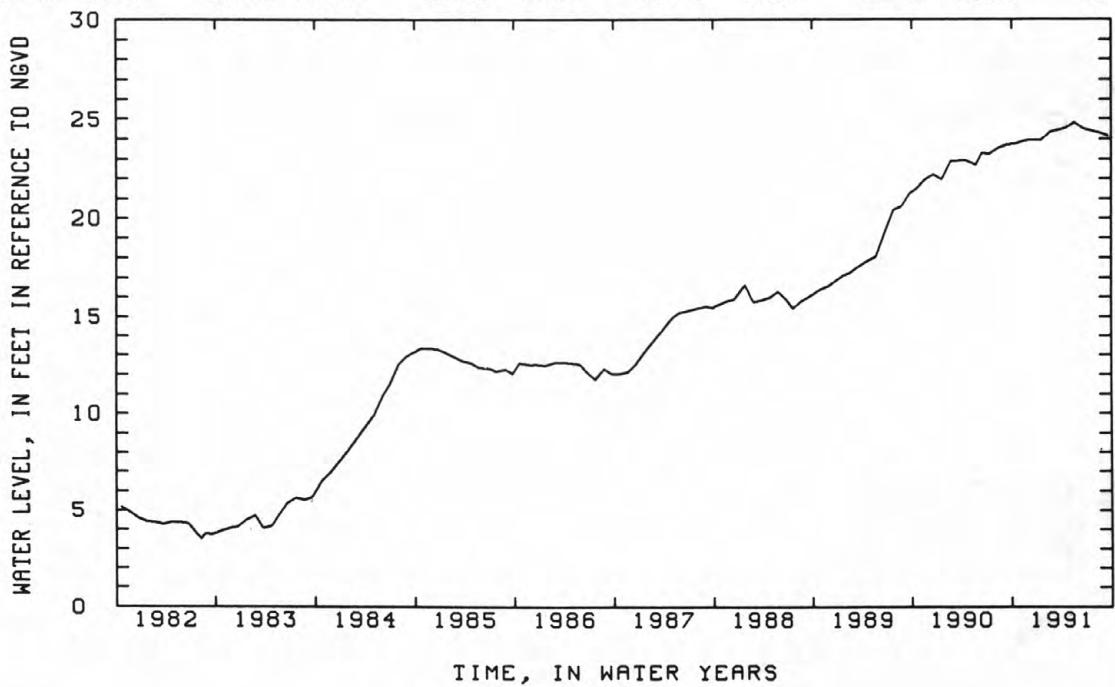
DATUM.--Land-surface datum is 75.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel flange, 2.59 ft above land-surface datum.

PERIOD OF RECORD.--April 1964 to current year. Unpublished records from April 1964 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.84 ft NGVD, May 17, 1991; lowest measured, 3.52 ft NGVD, August 8, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	23.74	DEC 10	23.92	FEB 22	24.36	APR 16	24.57	JUN 21	24.54	AUG 23	24.28
NOV 16	23.90	JAN 17	23.95	MAR 20	24.46	MAY 17	24.84	JUL 18	24.42	SEP 18	24.16



404705073394902. Local number, N 7554.2

LOCATION.--Lat $40^{\circ}47'05''$, long $73^{\circ}39'49''$, Hydrologic Unit 02030202, at Christopher Morley Park, 55 ft east of Searingtown Road, just north of main entrance to park, North Hills. Owner: Port Washington Water District.

AQUIFER.--Magoth (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in. to 6 in., depth 464 ft, screened 454 to 464 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 190.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 5.57 ft above land-surface datum.

REMARKS.--Replaced well N 7554.1 in May 1964.

PERIOD OF RECORD.--March 1984 to current year. Unpublished records from March 1984 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.62 ft NGVD, April 28, 1985; lowest measured, 21.52 ft NGVD, July 18, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	38.70	DEC 10	41.78	FEB 22	40.27	APR 16	40.07	JUN 21	39.47	AUG 23	38.90
NOV 16	39.95	JAN 17	40.42	MAR 20	40.91	MAY 17	41.18	JUL 18	37.65	SEP 18	37.94

404947073450301. Local number, N 8046.1

LOCATION.--Lat $40^{\circ}49'47''$, long $73^{\circ}45'03''$, Hydrologic Unit 02030201, at south side of Pond Road, 85 ft west of Hayworth Drive, eastern most well, Kings Point. Owner: Nassau County Department of Public Works.

AQUIFER.--Port Washington (confined). Previously reported as Jameco Aquifer.

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 189 ft, screened 184 to 189 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 2.38 ft above land-surface datum.

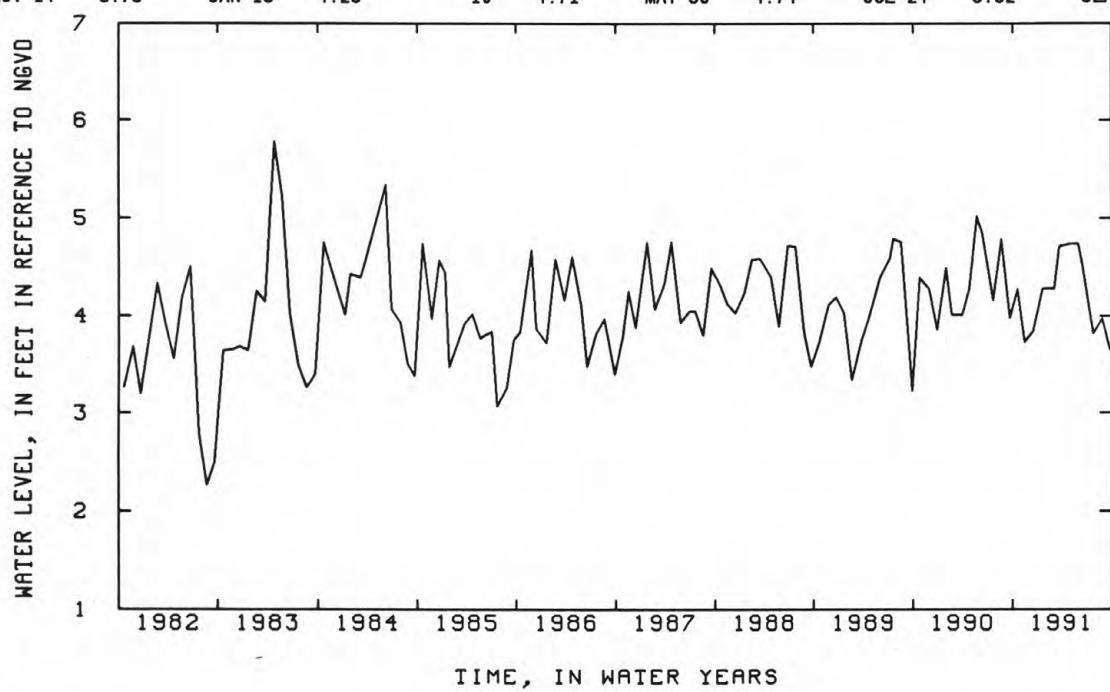
REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--May 1966 to current year. Unpublished records from May 1966 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.60 ft NGVD, February 6, 1978; lowest measured, -1.20 ft NGVD, July 19, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	4.27	DEC 14	3.84	MAR 1	4.28	APR 29	4.74	JUN 13	4.53	AUG 26	3.97
NOV 14	3.73	JAN 18	4.28	19	4.71	MAY 30	4.74	JUL 24	3.82	SEP 23	3.65



404947073450201. Local number, N 8052.1

LOCATION.--Lat $40^{\circ}49'47''$, long $73^{\circ}45'03''$, Hydrologic Unit 02030201, at south side of Pond Road, 91 ft west of Hayworth Drive, western most well, Kings Park. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 94 ft, screened 90 to 94 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 12.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.65 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--May 1966 to current year. Unpublished records from May 1966 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.35 ft NGVD, June 20, 1974; lowest measured, 1.70 ft NGVD, January 22, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	5.25	DEC 14	4.81	MAR 1	5.22	APR 29	5.47	JUN 13	5.21	AUG 26	4.83
NOV 14	4.82	JAN 18	5.25	19	5.25	MAY 30	5.42	JUL 24	4.49	SEP 23	4.46

404535073370002. Local number, N 8269.2

Location.--Lat $40^{\circ}45'35''$, long $73^{\circ}37'00''$, Hydrologic Unit 02030202, at east side of Bacon Road, 106 ft north of Hillside Avenue, south of school entrance, Old Westbury. Owner: Nassau County Department of Public Works.

AQUIFER.--Magothy (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 4 in., depth 86 ft, screened 81 to 86 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 111.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.15 ft below land-surface datum.

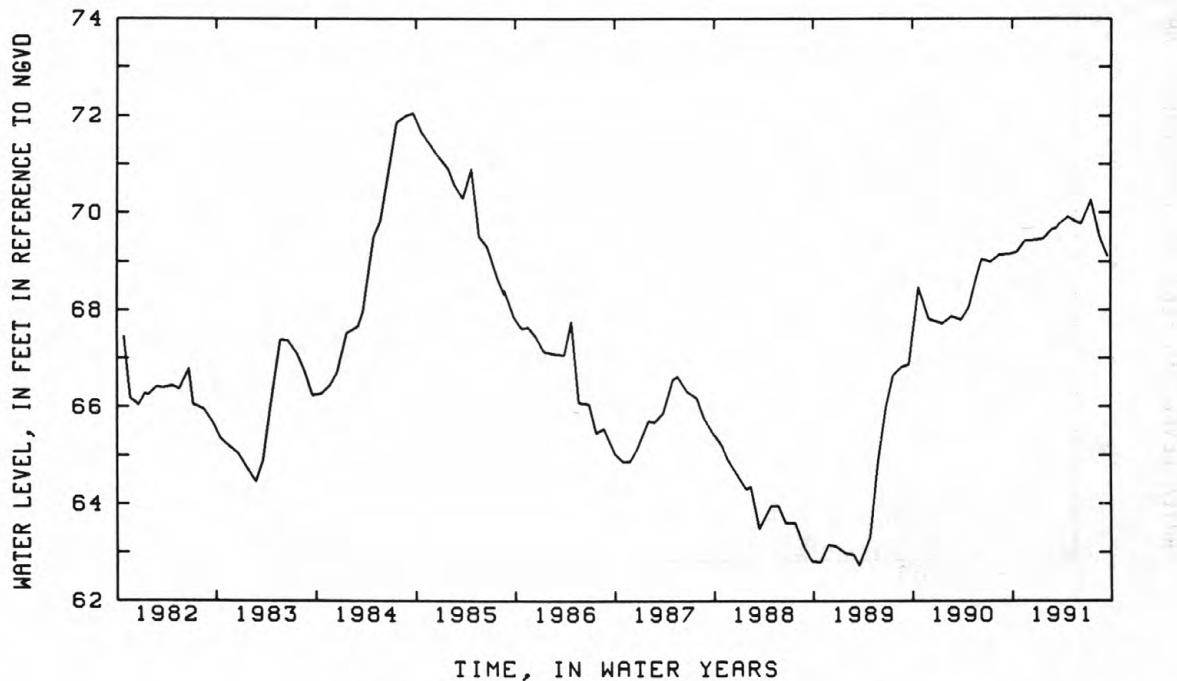
REMARKS.--Prior to April 1987, well was screened in Upper Glacial Aquifer. Well N 1258.1 was replaced by well N 8269.1 in April 1987, which was replaced by well N 8269.2 in June 1978.

PERIOD OF RECORD.--June 1978 to current year. Unpublished records from June 1936 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.18 ft NGVD, May 21, 1980; lowest measured, 62.74 ft NGVD, March 18, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

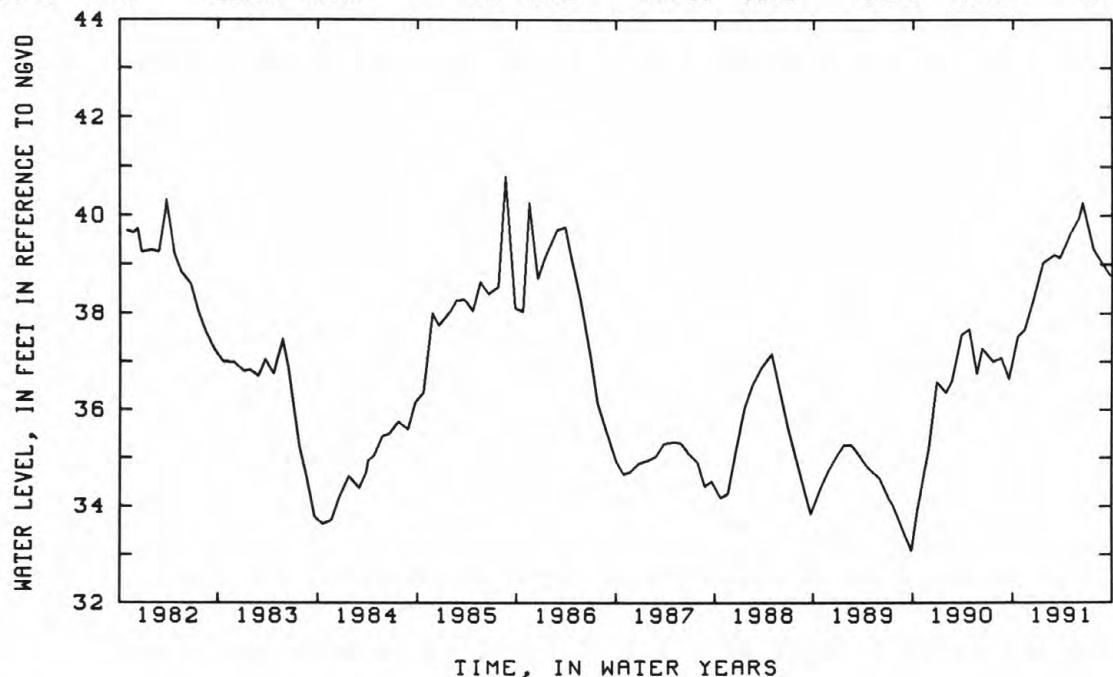
DATE	WATER LEVEL										
OCT 17	69.19	JAN 25	69.46	MAR 13	69.69	APR 24	69.91	JUN 14	69.78	AUG 22	69.51
NOV 19	69.43	FEB 26	69.65	20	69.75	MAY 21	69.82	JUL 18	70.27	SEP 18	69.12
DEC 12	69.42										



404742073410301. Local number, N 8309.1
LOCATION.--Lat $40^{\circ}47'42''$, long $73^{\circ}41'03''$, Hydrologic Unit 02030201, at east side of Manhasset Woods Road, 73 ft north of Northern Boulevard, Munsey Park. Owner: Nassau County Department of Public Works.
AQUIFER.--Magothy (water-table).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 199 ft, screened 194 to 199 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 148.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.15 ft below land-surface datum.
REMARKS.--Replaced well N 1121.2 in March 1967 at same location, unpublished records from March 1940 to March 1967 are available in files of Long Island Subdistrict Office.
PERIOD OF RECORD.--March 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.81 ft NGVD, June 20, 1980; lowest measured, 33.07 ft NGVD, September 27, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	37.51	DEC 14	38.27	MAR 1	39.20	APR 29	39.85	JUN 13	40.26	AUG 26	39.01
NOV 14	37.67	JAN 18	39.03	20	39.13	MAY 30	39.95	JUL 24	39.32	SEP 23	38.78



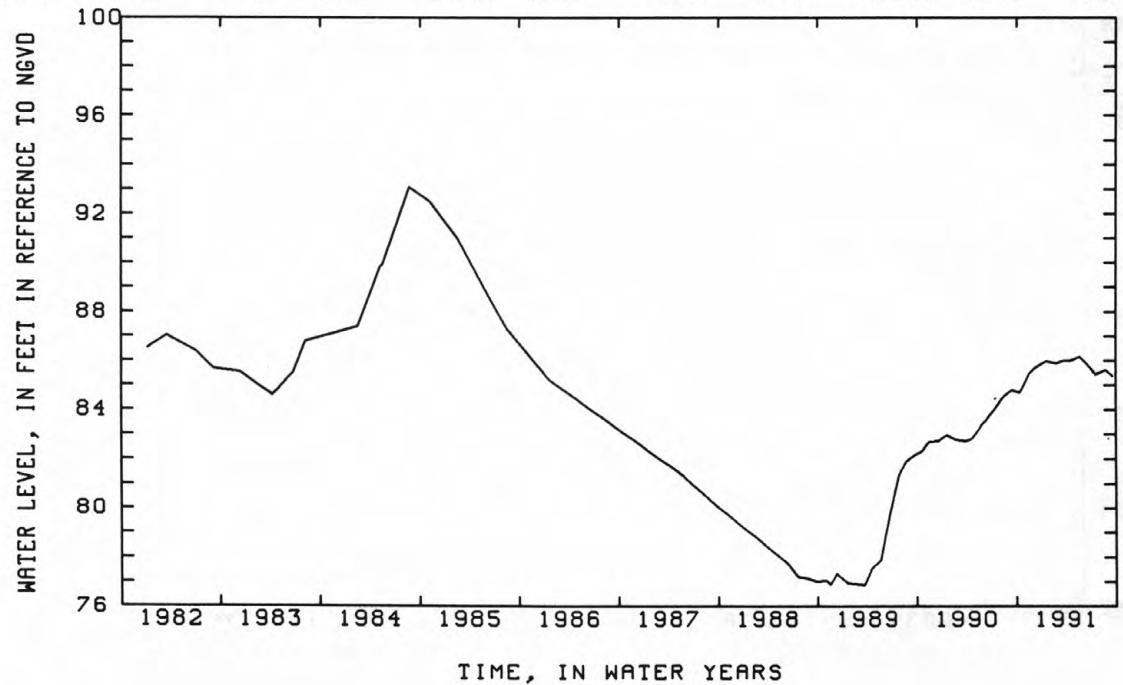
403942073334401. Local number, N 8847.1
LOCATION.--Lat $40^{\circ}39'42''$, long $73^{\circ}33'44''$, Hydrologic Unit 02030202, at north side of Bedford Avenue, 38 ft east of Babylon Turnpike, Merrick. Owner: Nassau County Department of Public Works.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 26 ft, screened 21 to 26 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.37 ft below land-surface datum.
REMARKS.--Replaced well N 3943.2 in April 1972, which replaced well N 1185.1 in June 1939.
PERIOD OF RECORD.--June 1972 to current year. Unpublished records from June 1972 to September 1987 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.60 ft NGVD, May 19, 1989; lowest measured, -1.04 ft NGVD, June 11, 1974.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

404702073305601. Local number, N 8888.1
 LOCATION.--Lat $40^{\circ}47'03''$, long $73^{\circ}30'56''$, Hydrologic Unit 02030202, at north side of Miller Place, 59 ft east of Vincent Road, Hicksville. Owner: Nassau County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 111 ft, screened 106 to 111 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 174.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 0.49 ft above land-surface datum.
 REMARKS.--Replaced well N 1213.1 in October 1972.
 PERIOD OF RECORD.--October 1972 to current year. Unpublished records from October 1972 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.22 ft NGVD, September 14, 1979; lowest measured, 78.86 ft NGVD, March 21, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	84.69	DEC 10	85.72	FEB 22	85.89	APR 18	85.99	JUN 21	85.79	AUG 23	85.60
NOV 16	85.47	JAN 17	85.97	MAR 20	86.00	MAY 17	86.14	JUL 16	85.42	SEP 18	85.37



404757073440401. Local number, N 9099.1

LOCATION.--Lat $40^{\circ}47'57''$, long $73^{\circ}44'04''$, Hydrologic Unit 02030201, at west side of Middle Neck Road, 33 ft north of Preston Road, Great Neck. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 71 ft, screened 66 to 71 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 60.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.37 ft below land-surface datum.

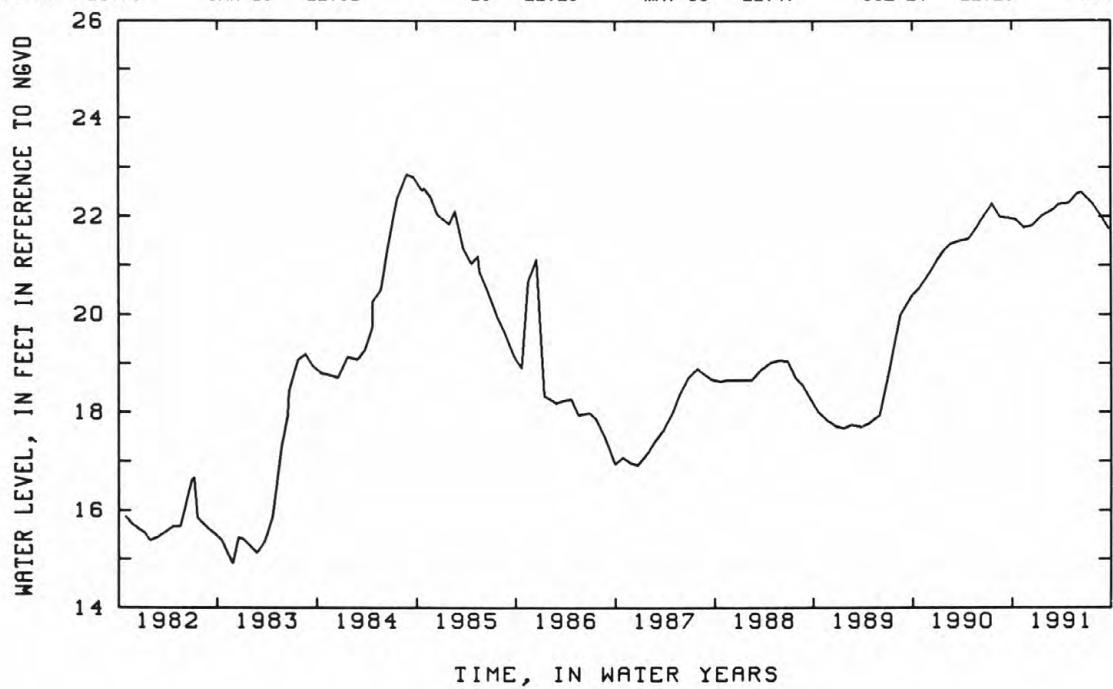
REMARKS.--Replaced well N 1479.1 in February 1976, which has a period of record from September 1944 to February 1976 unpublished and are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.45 ft NGVD, June 7, 1976; lowest measured, 14.90 ft NGVD, November 26, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

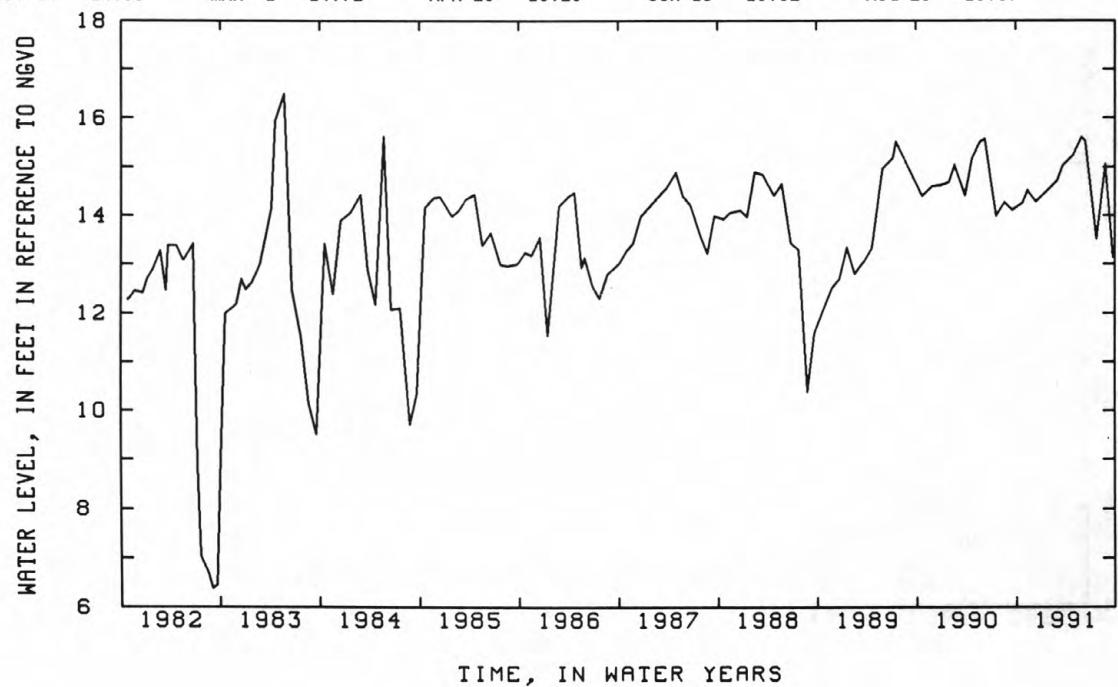
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	21.94	DEC 14	21.82	MAR 1	22.14	APR 29	22.28	JUN 13	22.49	AUG 26	22.01
NOV 14	21.78	JAN 18	22.01	19	22.25	MAY 30	22.47	JUL 24	22.28	SEP 23	21.75



404901073443004. Local number, N 9208.2
 LOCATION.--Lat $40^{\circ}49'01''$, long $73^{\circ}44'30''$, Hydrologic Unit 02030201, at pumping field, 174 ft south of Wildwood Road, east of Catalina Drive, Kings Point. Owner: Nassau County Department of Public Works.
 AQUIFER.--Port Washington (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 96 ft, screened 91 to 96 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.82 ft below land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--June 1977 to current year. Unpublished records from June 1977 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.50 ft NGVD, May 23, 1983; lowest measured, 5.68 ft NGVD, April 21, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	14.25	DEC 14	14.28	MAR 19	15.01	MAY 30	15.82	JUL 24	13.52	SEP 23	13.13
NOV 14	14.53	MAR 1	14.72	APR 29	15.25	JUN 13	15.52	AUG 26	15.07		



404232073432501. Local number, N 9979.1

LOCATION.--Lat $40^{\circ}42'32''$, long $73^{\circ}43'25''$, Hydrologic Unit 02030202, at west side of Wellington Road, 279 ft south of Hempstead Turnpike, Elmont. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 95 ft, screened 87 to 92 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 71.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.36 ft below land-surface datum.

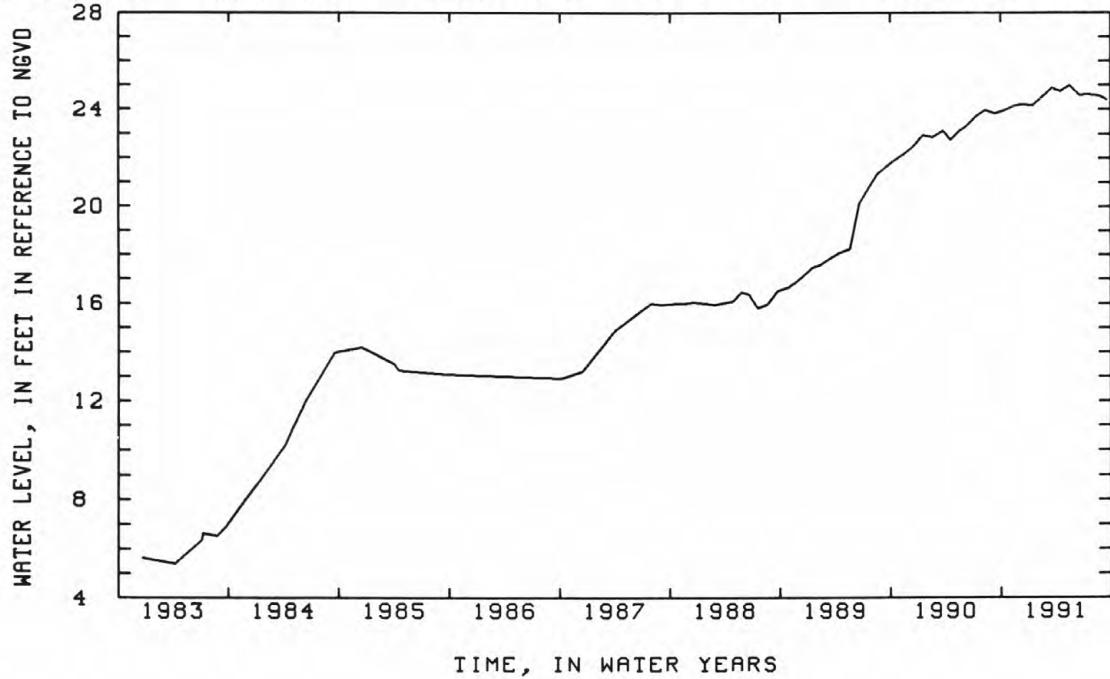
REMARKS.--Replaced well N 1622.4 in June 1982.

PERIOD OF RECORD.--December 1982 to current year. Unpublished records from December 1982 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.98 ft NGVD, May 17, 1991; lowest measured, 5.39 ft NGVD, April 8, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 10	23.92	DEC 10	24.19	FEB 22	24.58	APR 16	24.74	JUN 21	24.59	AUG 23	24.56
NOV 16	24.14	JAN 17	24.18	MAR 20	24.89	MAY 17	24.98	JUL 16	24.62	SEP 18	24.41



404338073371502. Local number, N 10035.1

LOCATION.--Lat $40^{\circ}43'38''$, long $73^{\circ}37'15''$, Hydrologic Unit 02030202, at north side of Commercial Avenue, 60 ft east of Clinton Avenue, Garden City. Owner: Nassau County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 56 ft, screened 48 to 53 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 77.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.38 ft below land-surface datum.

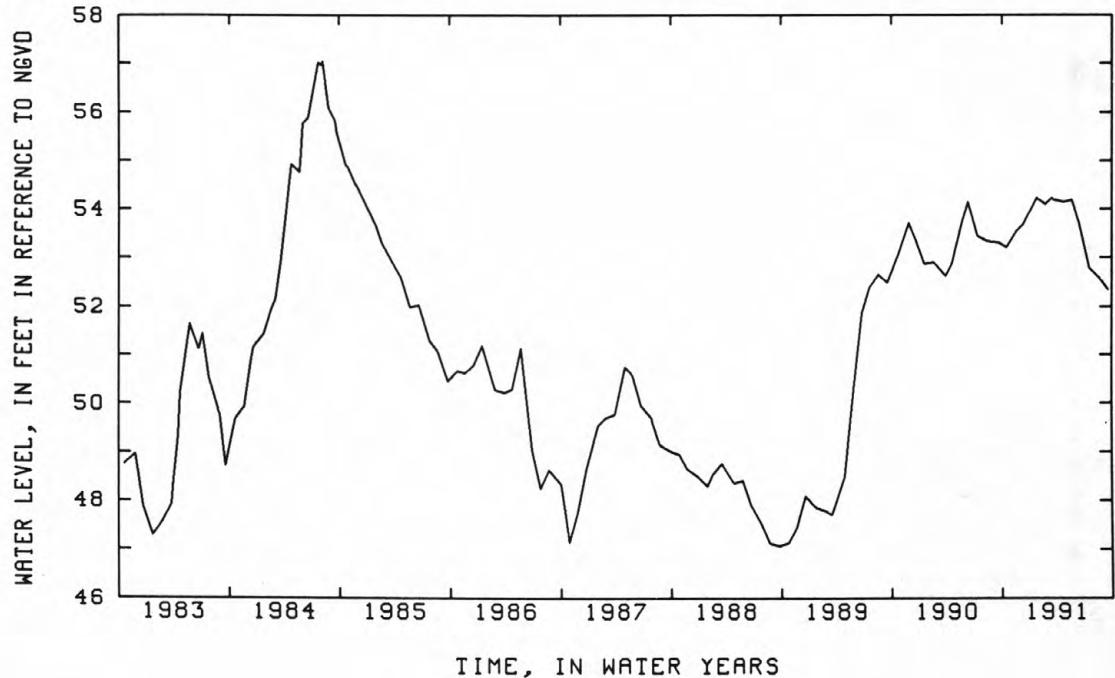
REMARKS.--Replaced well N 1255.2 in October 1982, records from May 1913 to October 1982 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.04 ft NGVD, August 8, 1984; lowest measured, 47.07 ft NGVD, September 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	53.22	JAN 25	54.22	MAR 13	54.22	APR 24	54.15	JUN 14	53.71	AUG 22	52.56
NOV 19	53.54	FEB 25	54.09	21	54.19	MAY 21	54.19	JUL 18	52.79	SEP 18	52.35
DEC 12	53.69										



404451073475003. Local number, Q 283.2

LOCATION.--Lat $40^{\circ}44'51''$, long $73^{\circ}47'50''$, Hydrologic Unit 02030201, at City of New York storage facility, 50 ft south of Underhill Avenue, west of Fresh Meadow Lane, eastern most well, Flushing. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 26 in., depth 409 ft, screened 309 to 352 ft and 387 to 409 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 27.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel plate, 0.37 ft above land-surface datum.

PERIOD OF RECORD.--June 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.04 ft NGVD, April 16, 1991; lowest measured, -27.40 ft NGVD, September 14, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 15	6.79	MAR 20	8.84	MAY 16	9.03	JUL 17	5.65	AUG 16	4.10	SEP 17	4.63
NOV 14	7.35	APR 16	9.04	JUN 13	6.36						

403624073491601. Local number, Q 287.1

LOCATION.--Lat $40^{\circ}36'24''$, long $73^{\circ}49'16''$, Hydrologic Unit 02030202, at Broad Channel School, west side of Shad Creek Road, 131 ft south of 9th Road, Broad Channel. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 8 in., depth 725 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 8.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in. to 4-in. steel reducer bushing, 0.52 ft below land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--January 1944 to current year. Unpublished records from January 1944 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.79 ft NGVD, January 1, 1945; lowest measured, -0.96 ft NGVD, September 5, 1969.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	5.97	DEC 21	6.23	FEB 21	6.24	MAY 15	7.33	JUL 18	5.38	SEP 24	4.98
NOV 28	5.94	JAN 23	6.47	APR 16	7.32	JUN 13	6.08	AUG 27	4.61		

404541073452601. Local number, Q 470.1

LOCATION.--Lat $40^{\circ}45'41''$, long $73^{\circ}45'26''$, Hydrologic Unit 02030201, at southbound side of Cross Island Parkway, 325 ft south of Northern Boulevard (Rt. 25A), southern most well, Bayside. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 6 in., depth 379 ft, screened 347 to 375 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel coupling, 0.73 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--January 1934 to current year. Unpublished records from January 1934 to January 1935, January 1940 to December 1940, and July 1954 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.45 ft NGVD, April 28, 1991; lowest measured, -7.44 ft NGVD, July 29, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	7.73	DEC 21	9.29	MAR 4	10.00	APR 26	10.45	JUN 13	5.17	AUG 27	4.05
NOV 20	4.96	JAN 29	8.80	APR 3	9.93	MAY 16	8.83	JUL 15	4.66	SEP 24	4.57

404541073452602. Local number, Q 471.1

LOCATION.--Lat $40^{\circ}45'41''$, long $73^{\circ}45'28''$, Hydrologic Unit 02030201, at southbound side of Cross Island Parkway, 313 ft south of Northern Boulevard (Rt. 25A), northern most well, Bayside. Owner: City of New York.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 118 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 23.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel flange, 5.22 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--March 1939 to current year. Unpublished records from March 1939 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.15 ft NGVD, April 3, 1991; lowest measured, 12.83 ft NGVD, April 19, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	17.23	DEC 21	17.19	MAR 4	17.73	APR 28	17.78	JUN 13	17.69	AUG 27	17.93
NOV 20	17.00	JAN 29	17.69	APR 3	18.15	MAY 16	17.88	JUL 15	17.11	SEP 24	17.88

403454073495602. Local number, Q 1071.2

LOCATION.--Lat $40^{\circ}34'54''$, long $73^{\circ}49'56''$, Hydrologic Unit 02030202, at abandoned pump house, 142 ft north of Rockaway Beach Boulevard (Marks Avenue), between 109th Street and 110th Street, Rockaway Park. Owner: City of New York.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel abandoned public supply well, diameter 12 in. to 2 in., depth 836 ft, screened 771 to 836 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 9.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel extension, 2.24 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1976 to current year. Unpublished records from December 1976 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.00 ft NGVD, May 15, 1991; lowest measured, 1.17 ft NGVD, October 11, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	5.59	DEC 21	5.63	FEB 21	5.74	MAY 15	7.00	JUL 16	5.25	SEP 24	4.69
NOV 28	5.28	JAN 23	5.95	APR 16	6.89	JUN 13	5.98	AUG 27	4.46		

403958073445801. Local number, Q 1187.1

LOCATION.--Lat $40^{\circ}39'58''$, long $73^{\circ}44'58''$, Hydrologic Unit 02030202, at south side of North Conduit, 1775 ft west of 225th Street, western most well, in ravine, Rosedale. Owner: City of New York.

AQUIFER.--Jameco (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 130 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 10.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of small hole in 8-in. steel cap, 4.71 ft above land-surface datum.

PERIOD OF RECORD.--November 1968 to current year. Unpublished records from November 1968 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.58 ft NGVD, March 22, 1991; lowest measured, 2.26 ft NGVD, June 22, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	7.72	DEC 11	7.83	FEB 11	8.23	APR 16	8.35	JUN 12	7.79	AUG 16	7.08
NOV 14	7.99	JAN 29	8.45	MAR 22	8.58	MAY 15	8.52	JUL 16	7.36	SEP 18	7.20

403958073445801. Local number, Q 1189.1
 LOCATION.--Lat $40^{\circ}39'58''$, long $73^{\circ}44'58''$, Hydrologic Unit 02030202, at southside of North Conduit, 1790 ft west of 225th Street, eastern most well, in ravine, Rosedale. Owner: City of New York.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 50 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 13.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of small hole in 6-in. steel cap, 1.76 above land-surface datum.
 PERIOD OF RECORD.--November 1968 to current year. Unpublished records from November 1968 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.81 ft NGVD, June 21, 1989; lowest measured, 1.86 ft NGVD, December 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	6.20	DEC 11	6.45	FEB 11	6.84	APR 16	5.88	JUN 12	6.56	AUG 16	5.77
NOV 14	6.48	JAN 29	7.04	MAR 22	7.10	MAY 15	7.08	JUL 16	6.07	SEP 18	5.95

403959073474401. Local number, Q 1237.1
 LOCATION.--Lat $40^{\circ}39'59''$, long $73^{\circ}47'44''$, Hydrologic Unit 02030202, at south side of exit ramp from John F. Kennedy International Airport, just east of Van Wyck Expressway approach ramp, South Ozone Park. Owner: City of New York.
 AQUIFER.--Jameco (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 227 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 27.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. to 1 1/4-in. steel reducer, 0.88 ft below land-surface datum.
 PERIOD OF RECORD.--December 1950 to current year. Unpublished records from December 1950 to September are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.24 ft NGVD, April 16, 1991; lowest measured, -4.55 ft NGVD, July 1, 1969.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	5.05	JAN 29	4.69	APR 16	6.24	JUN 12	5.25	AUG 16	4.53	SEP 18	4.94
NOV 28	5.45	FEB 11	4.93	MAY 15	5.34	JUL 16	4.78				

404240073443401. Local number, Q 1249.1
 LOCATION.--Lat $40^{\circ}42'40''$, long $73^{\circ}44'34''$, Hydrologic Unit 02030202, at west side of 216th Street, 42 ft north of 106th Avenue, Queens Village. Owner: City of New York.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 88 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 72.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel coupling, 0.36 ft above land-surface datum.
 PERIOD OF RECORD.--October 1940 to current year. Unpublished records from October 1940 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.41 ft NGVD, September 28, 1948; lowest measured, -5.67 ft NGVD, March 8, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	19.49	DEC 11	20.05	FEB 11	20.34	APR 16	20.97	JUN 12	21.27	AUG 16	20.40
NOV 14	19.89	JAN 29	20.40	MAR 19	20.72	MAY 15	21.54	JUL 16	20.86	SEP 18	19.86

404302073481601. Local number, Q 1812.1

LOCATION.--Lat $40^{\circ}43'02''$, long $73^{\circ}48'16''$, Hydrologic Unit 02030202, at west side of 184th Street, 670 ft south of Goethals Avenue, at Queens General Hospital, Jamaica. Owner: Queens General Hospital.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled unused steel diffusion well, diameter 12 in., depth 250 ft, screened 195 to 245 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 115.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling at end of 2-in. steel extension, 0.93 ft below land-surface datum.

PERIOD OF RECORD.--January 1982 to current year. Unpublished records from January 1982 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.22 ft NGVD, March 19, 1991; lowest measured, -12.80 ft NGVD, December 17, 1984.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	15.43	DEC 11	15.89	FEB 11	15.60	APR 18	16.17	JUN 13	15.90	AUG 16	15.58
NOV 14	15.38	JAN 29	14.62	MAR 19	16.22	MAY 15	16.06	JUL 16	15.68	SEP 17	15.77

403957073495001. Local number, Q 2324.1

LOCATION.--Lat $40^{\circ}39'57''$, long $73^{\circ}49'50''$, Hydrologic Unit 02030202, at north side of North Conduit Avenue, 66 ft east of entrance to Aqueduct Race Track, South Ozone Park. Owner: New York Racing Association.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 1/2 in., depth 91 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 22.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 1/2-in. steel coupling, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--March 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.19 ft NGVD, June 20, 1989; lowest measured, -3.40 ft NGVD, May 25, 1959.

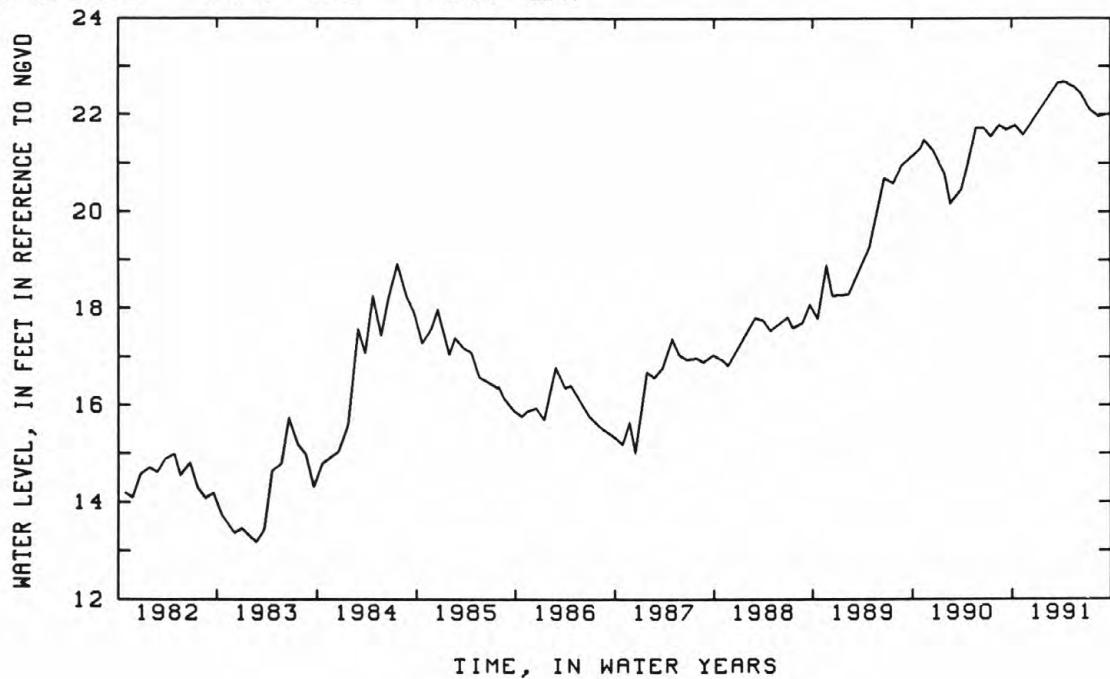
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	4.76	DEC 21	4.55	FEB 21	4.67	MAY 15	4.99	JUL 16	4.72	SEP 24	4.68
NOV 28	4.57	JAN 23	5.01	APR 16	4.79	JUN 13	4.89	AUG 27	4.74		

404451073475002. Local number, Q 2346.1
 LOCATION.--Lat $40^{\circ}44'51''$, long $73^{\circ}47'50''$, Hydrologic Unit 02030201, at City of New York storage facility, 55 ft south of Underhill Avenue, west of Fresh Meadow Lane, western most well, Flushing. Owner: City of New York.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 17 ft, screened 12 to 17 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 29.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.98 ft above land-surface datum.
 PERIOD OF RECORD.--August 1960 to current year. Unpublished records from August 1960 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.67 ft NGVD, April 16, 1991; lowest measured, 13.18 ft NGVD, February 25, 1983.

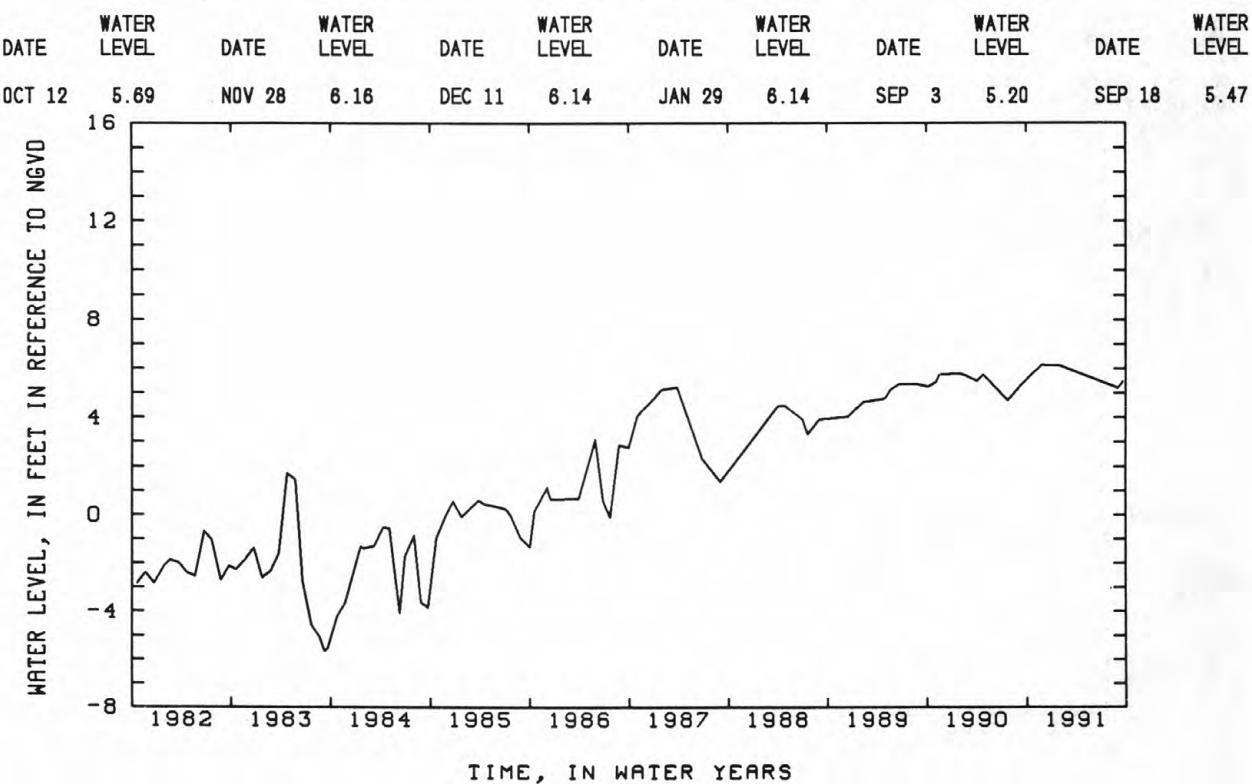
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 15	21.79	MAR 20	22.66	MAY 16	22.58	JUL 17	22.10	AUG 16	21.97	SEP 17	22.00
NOV 14	21.58	APR 16	22.67	JUN 13	22.44						



404025073463801. Local number, Q 2422.1
 LOCATION.--Lat $40^{\circ}40'25''$, long $73^{\circ}46'38''$, Hydrologic Unit 02030202, at Jamaica Water Supply Pumping Center, 140 ft west of Guy R. Brewer Boulevard, just south of 132nd Avenue, Jamaica. Owner: Jamaica Water Supply Company.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 370 ft, screened 342 to 362 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 21.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in. steel nipple at yellow arrow, 1.21 ft above land-surface datum.
 PERIOD OF RECORD.--May 1984 to current year. Unpublished records from May 1984 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.16 ft NGVD, November 28, 1990; lowest measured, -5.65 ft NGVD, September 7, 1970, and September 9, 11, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



404624073483501. Local number, Q 2791.1
 LOCATION.--Lat $40^{\circ}46'24''$, long $73^{\circ}48'35''$, Hydrologic Unit 02030201, at Saint Mel's Roman Catholic Church, north side of 27th Avenue, 173 ft east of 154th Street, under steel doors, Flushing. Owner: Saint Mel's Roman Catholic Church.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel public supply well, diameter 6 in., depth 76 ft, screened 68 to 76 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 90.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Edge of 1/4-in. access hole in steel cap, 3.27 ft below land-surface datum.
 PERIOD OF RECORD.--May 1981 to current year. Unpublished records from May 1981 to September 1987 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.23 ft NGVD, June 27, 1984; lowest measured, 50.17 ft NGVD, April 2, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	55.47	DEC 11	55.29	FEB 11	55.53	APR 18	55.78	JUN 13	55.79	AUG 18	54.93
NOV 14	55.39	JAN 29	55.64	MAR 19	55.76	MAY 16	56.00	JUL 17	55.22	SEP 17	55.05

403932073482901. Local number, Q 3109.1

LOCATION.--Lat $40^{\circ}39'32''$, long $73^{\circ}48'29''$, Hydrologic Unit 02030202, at John F. Kennedy International Airport, in grassy area at Federal Circle, 160 ft west of Federal Circle Loop Road, near Bergan Road split, just east of Van Wyck Expressway, northern most well, South Ozone Park. Owner: New York Port Authority.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 400 ft, screened 290 to 310 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 22.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 1.30 ft below land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1981 to current year. Unpublished records from December 1981 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.83 ft NGVD, October 26, 1990; lowest measured, -1.32 ft NGVD, September 26, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	3.83	DEC 21	3.24	FEB 21	3.07	APR 16	3.44	JUN 13	2.67	AUG 27	3.03
NOV 28	3.20	JAN 23	3.56	MAR 21	3.43	MAY 15	3.32	JUL 16	2.96	SEP 24	3.18

403932073482902. Local number, Q 3114.1

LOCATION.--Lat $40^{\circ}39'32''$, long $73^{\circ}48'29''$, Hydrologic Unit 02030202, at John F. Kennedy International Airport, in grassy area at Federal Circle, 160 ft west of Federal Circle Loop Road, near Bergan Road split, just east of Van Wyck Expressway, southern most well, South Ozone Park. Owner: New York Port Authority.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 31 ft, screened 29 to 31 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 21.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.26 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1981 to current year. Unpublished records from December 1981 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.30 ft NGVD, April 30, 1984; lowest measured, 0.48 ft NGVD, October 4, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 26	3.12	DEC 21	2.85	FEB 21	2.96	APR 16	3.29	JUN 13	3.17	AUG 27	3.31
NOV 28	2.84	JAN 23	3.42	MAR 22	3.35	MAY 15	2.83	JUL 16	3.12	SEP 24	3.07

404631073543901. Local number, Q 3121.1

LOCATION.--Lat $40^{\circ}46'31''$, long $73^{\circ}54'39''$, Hydrologic Unit 02030201, at south side of 24th Avenue, 62 ft west of 32nd Street, Astoria. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 47 ft, screened 44 to 47 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 50.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.14 ft above land-surface datum.

PERIOD OF RECORD.--September 1980 to current year. Unpublished records from September 1980 to September 1982 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.54 ft NGVD, June 27, 1984; lowest measured, 19.83 ft NGVD, October 15, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	24.46	DEC 11	24.32	FEB 11	24.35	APR 16	24.28	JUN 13	24.39	AUG 16	24.16
NOV 14	24.39	JAN 29	24.40	MAR 19	24.35	MAY 16	24.33	JUL 16	24.22	SEP 17	24.17

404516073550201. Local number, Q 3122.1

LOCATION.--Lat $40^{\circ}45'16''$, long $73^{\circ}55'02''$, Hydrologic Unit 02030201, at east side of 29th Street, 42 ft south of 38th Avenue, Long Island City. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 47 ft, screened 44 to 47 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 45.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.09 ft above land-surface datum.

PERIOD OF RECORD.--September 1980 to current year. Unpublished records from September 1980 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.27 ft NGVD, December 22, 1980; lowest measured, 11.72 ft NGVD, September 22, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	13.97	DEC 11	13.79	FEB 11	13.83	APR 16	14.09	JUN 13	14.18	AUG 16	13.90
NOV 14	13.90	JAN 29	13.76	MAR 19	13.96	MAY 16	14.09	JUL 16	14.13	SEP 17	13.85

404112073500901. Local number, Q 3160.1

LOCATION.--Lat $40^{\circ}41'12''$, long $73^{\circ}50'09''$, Hydrologic Unit 02030202, at west side of 108th Street, 196 ft south of 101st Avenue, Woodhaven. Owner: City of New York.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 65 ft, screened 60 to 65 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

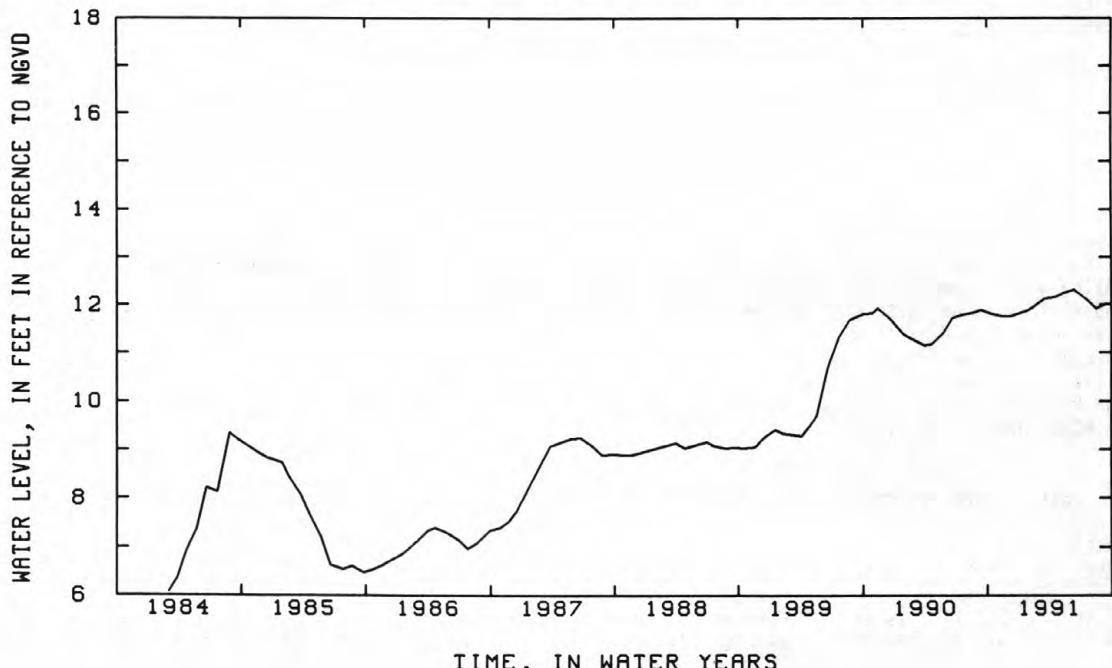
DATUM.--Land-surface datum is 45.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.22 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.31 ft NGVD, June 13, 1991; lowest measured, 6.08 ft NGVD, March 2, 1984.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	11.81	DEC 11	11.76	FEB 11	11.93	APR 16	12.14	JUN 13	12.31	AUG 16	11.91
NOV 14	11.75	JAN 29	11.87	MAR 19	12.12	MAY 16	12.24	JUL 16	12.12	SEP 17	12.01



404119073463601. Local number, Q 3162.1

LOCATION.--Lat $40^{\circ}41'19''$, long $73^{\circ}46'36''$, Hydrologic Unit 02030202, at east side of 172nd Street, 66 ft north of 116th Avenue, Rochdale Village. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 44 ft, screened 39 to 44 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 27.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.32 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year. Unpublished records from March 1984 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.53 ft NGVD, June 21, 1989; lowest measured, 9.62 ft NGVD, May 15, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	13.68	DEC 11	13.89	FEB 11	14.24	APR 16	14.10	JUN 13	14.06	AUG 16	13.61
NOV 14	14.00	JAN 29	14.48	MAR 19	14.45	MAY 15	14.55	JUL 16	13.63	SEP 17	13.89

404143073482701. Local number, Q 3165.1

LOCATION.--Lat $40^{\circ}41'43''$, long $73^{\circ}48'27''$, Hydrologic Unit 02030202, at east side of Liverpool Street, 54 ft north of 101st Avenue, Jamaica. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 85 ft, screened 60 to 85 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 41.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.59 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year. Unpublished records from March 1984 to September 1987 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.27 ft NGVD, June 13, 1991; lowest measured, 7.28 ft NGVD, March 2, 1984.

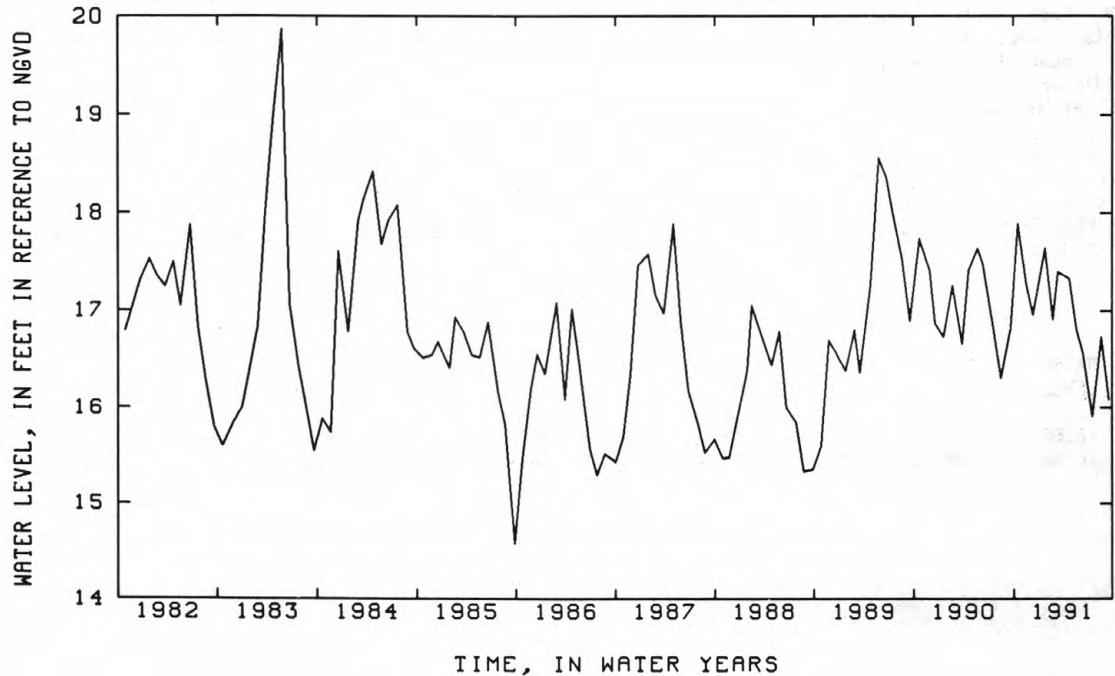
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 12	18.66	DEC 11	18.71	FEB 11	17.03	APR 16	17.08	JUN 13	17.27	AUG 16	18.91
NOV 14	18.69	JAN 29	16.94	MAR 19	17.11	MAY 15	17.25	JUL 16	17.07	SEP 17	16.93

404213073201001. Local number, S 1803.4
 LOCATION.--Lat $40^{\circ}42'13''$, long $73^{\circ}20'10''$, Hydrologic Unit 02030202, at north side of State Route 109, west of Little East Neck Road, on median, Babylon. Owner: New York State Department of Transportation.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 19 ft, screened 16 to 19 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 23.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.08 ft above land-surface datum.
 REMARKS.--Replaced well S 1803.3 in November 1975 at same location. Unpublished records from October 1912 to November 1914, August and September 1932, and June 1936 to September 1975, for wells S 1803.1 to S 1803.3 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--November 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft NGVD, May 23, 1983; lowest measured, 13.06 ft NGVD, July 26, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	17.89	DEC 12	16.96	FEB 25	16.91	APR 24	17.33	JUN 14	16.57	AUG 22	16.73
NOV 19	17.27	JAN 25	17.64	MAR 13	17.40	MAY 21	16.81	JUL 18	15.91	SEP 18	16.09



404301073240901. Local number, S 1805.4

LOCATION.--Lat $40^{\circ}43'01''$, long $73^{\circ}24'09''$, Hydrologic Unit 02030202, at south side of State Route 109, west of Albany Avenue, Maywood. Owner: New York State Department of Transportation.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 33 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 57.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 2.02 ft above land-surface datum.

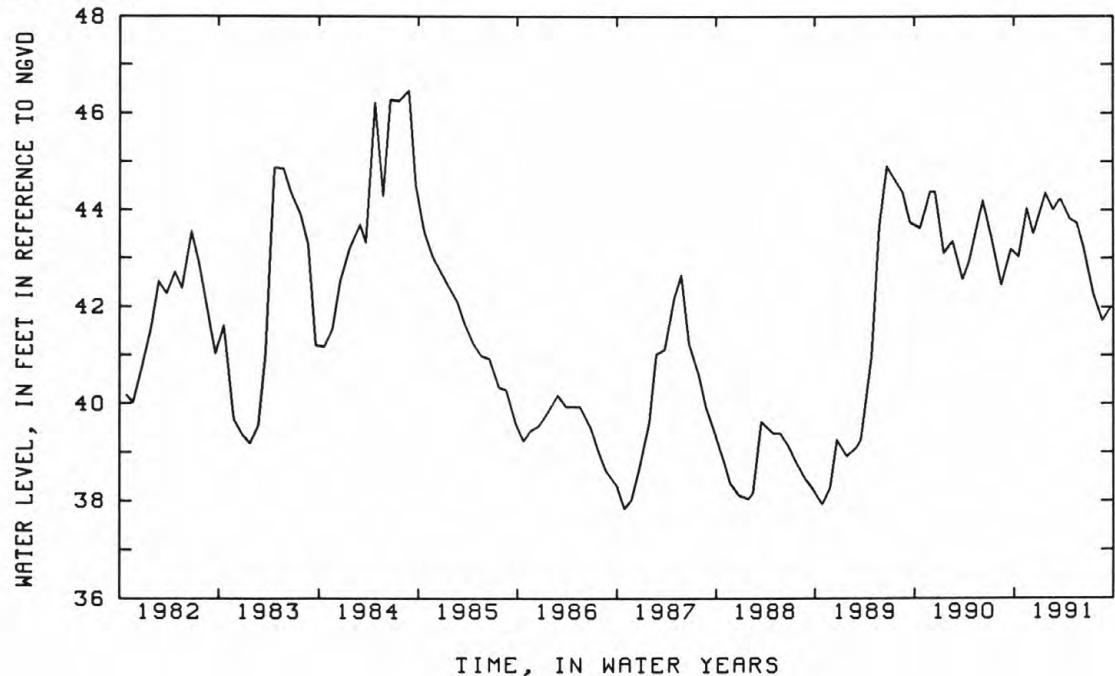
REMARKS.--Replaced well S 1805.3 in October 1953 at same location. Unpublished records from October 1912 to September 1975 for wells S 1805.1 to S 1805.3 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--October 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.47 ft NGVD, August 27, 1984; lowest measured, 35.79 ft NGVD, December 28, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	43.03	JAN 25	44.36	MAR 13	44.20	APR 24	43.82	JUN 14	43.24	AUG 22	41.72
NOV 19	44.04	FEB 25	44.01	22	44.22	MAY 21	43.73	JUL 18	42.28	SEP 18	41.98
DEC 12	43.52										



404442073240501. Local number, S 1806.3

LOCATION.--Lat $40^{\circ}44'42''$, long $73^{\circ}24'05''$, Hydrologic Unit 02030202, at west side of Wellwood Avenue, north of Conklin Street, south of railroad tracks, Pinelawn. Owner: Suffolk County Department of Public Works.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered PVC observation well, diameter 1 1/4 in., depth 45 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 85.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.19 ft below land-surface datum.

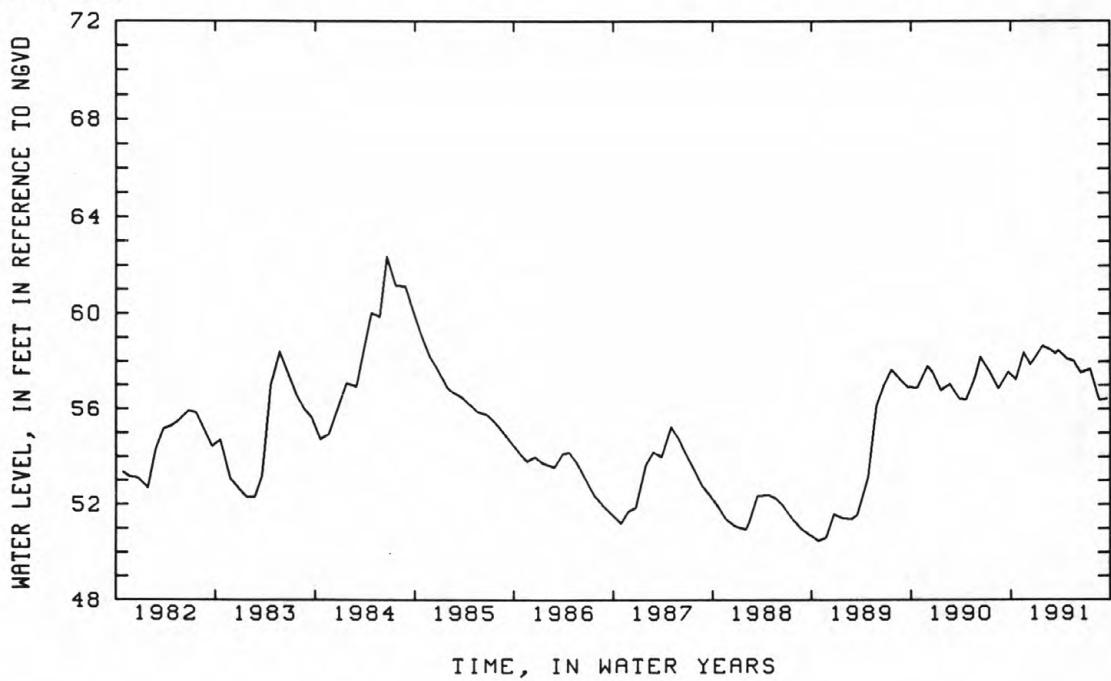
REMARKS.--Replaced well S 1806.2 in August 1977 at same location. Unpublished records for October 1912 to November 1914, and May to September 1975, for wells S 1806.1 to S 1806.2 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.37 ft NGVD, June 20, 1984; lowest measured, 50.50 ft NGVD, October 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

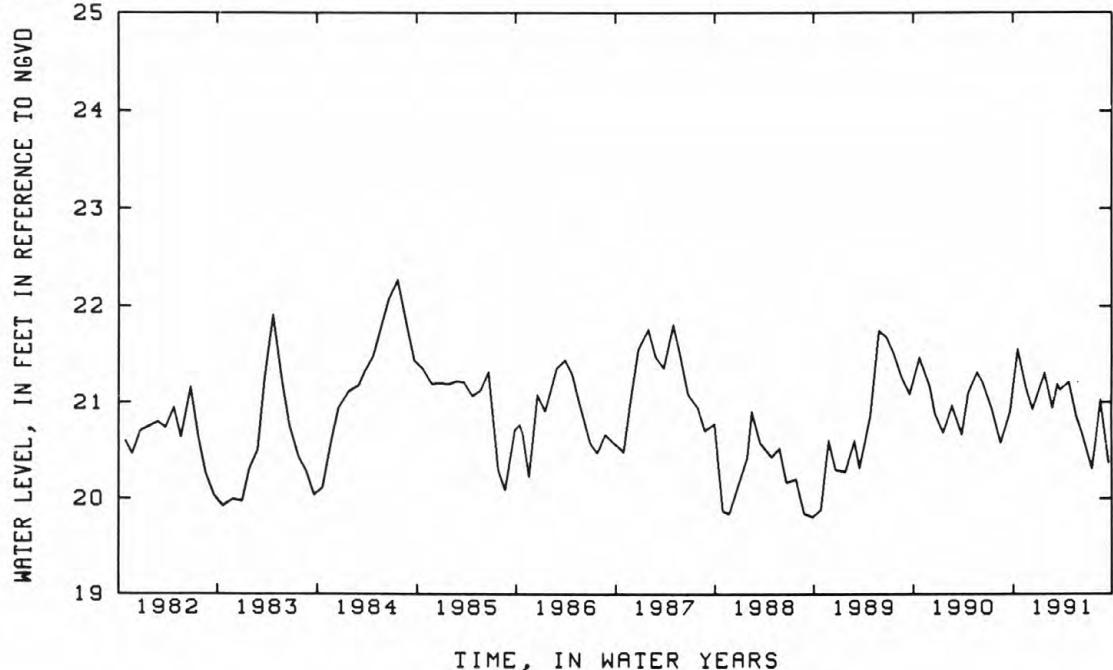
DATE	WATER LEVEL										
OCT 17	57.24	JAN 25	58.65	MAR 13	58.34	APR 24	58.13	JUN 14	57.52	AUG 22	56.38
NOV 19	58.39	FEB 25	58.49	22	58.47	MAY 21	58.03	JUL 18	57.68	SEP 18	56.43
DEC 12	57.91										



404319073184601. Local number, S 1807.5
 LOCATION.--Lat $40^{\circ}43'19''$, long $73^{\circ}18'46''$, Hydrologic Unit 02030202, at east side of Higbie Lane, north of Martin Drive, West Islip. Owner: Town of Islip.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 21 ft, screened 19 to 21 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 23.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel coupling, 0.21 ft above land-surface datum.
 REMARKS.--Replaced well S 1807.4 in July 1976 at same location. Unpublished records for October 1912 to November 1914, August 1932 to June 1933, and June 1936 to September 1975, for wells S 1807.1 to S 1807.4 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--July 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.30 ft NGVD, January 24, 1979; lowest measured, 19.26 ft NGVD, July 26, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	21.55	JAN 25	21.31	MAR 13	21.19	APR 24	21.21	JUN 14	20.67	AUG 22	21.03
NOV 19	21.15	FEB 25	20.94	22	21.13	MAY 21	20.87	JUL 18	20.31	SEP 18	20.37
DEC 12	20.93										



404221073184901. Local number, S 1808.4

LOCATION.--Lat $40^{\circ}42'21''$, long $73^{\circ}16'49''$, Hydrologic Unit 02030202, at Manor and Bardolier Lanes, West Islip.

Owner: Town of Islip.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 11 ft, screened 10 to 11 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 13.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel coupling, 0.29 ft below land-surface datum.

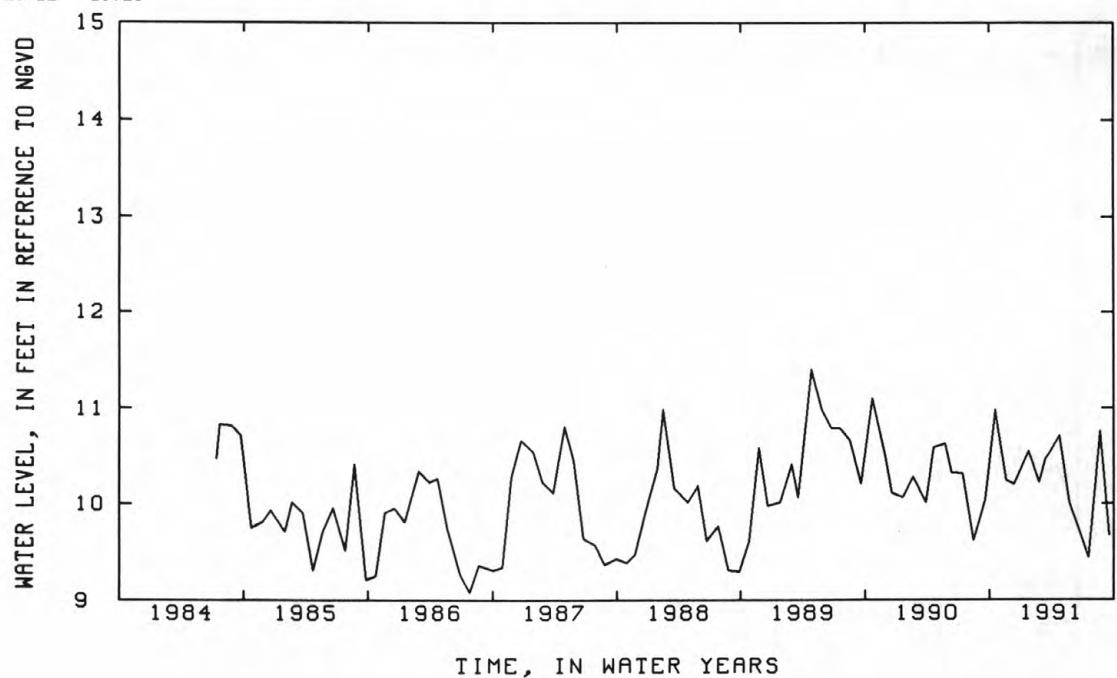
REMARKS.--Replaced well S 1808.3 in July 1984 at same location. Unpublished records from October 1912 to September 1975, for wells S 1808.1 to S 1808.3 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--July 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.40 ft NGVD, April 26, 1989; lowest measured, 9.08 ft NGVD, July 24, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	10.98	JAN 25	10.55	MAR 13	10.47	APR 24	10.71	JUN 14	9.79	AUG 22	10.76
NOV 19	10.24	FEB 25	10.22	22	10.52	MAY 21	10.01	JUL 18	9.44	SEP 18	9.67
DEC 12	10.20										



404351073164901. Local number, S 1809.4

LOCATION.--Lat $40^{\circ}43'51''$, long $73^{\circ}16'49''$, Hydrologic Unit 02030202, at recharge basin at south east corner of Muncey Road and Manor Lane, Bay Shore. Owner: Town of Islip.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 29 ft, screened 26 to 29 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 42.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.45 ft below land-surface datum.

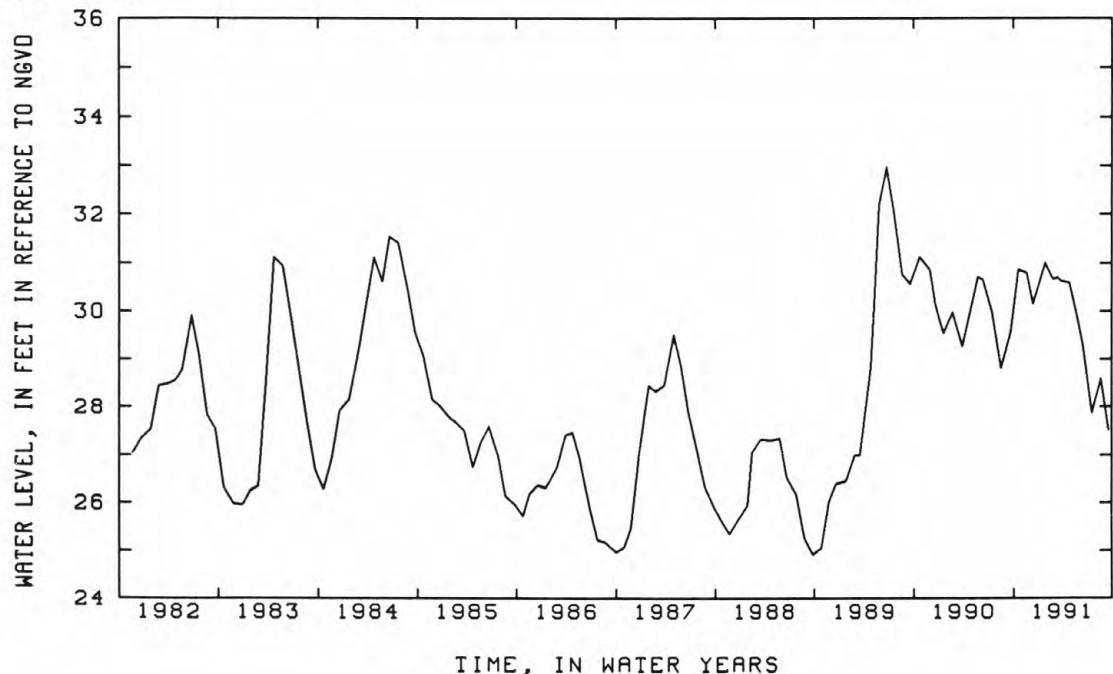
REMARKS.--Replaced well S 1809.3 in March 1981 at same location. Unpublished records for October 1912 to November 1914, and August 1932 to September 1975, for wells S 1809.1 to S 1809.3 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.97 ft NGVD, June 23, 1989; lowest measured, 24.92 ft NGVD, September 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

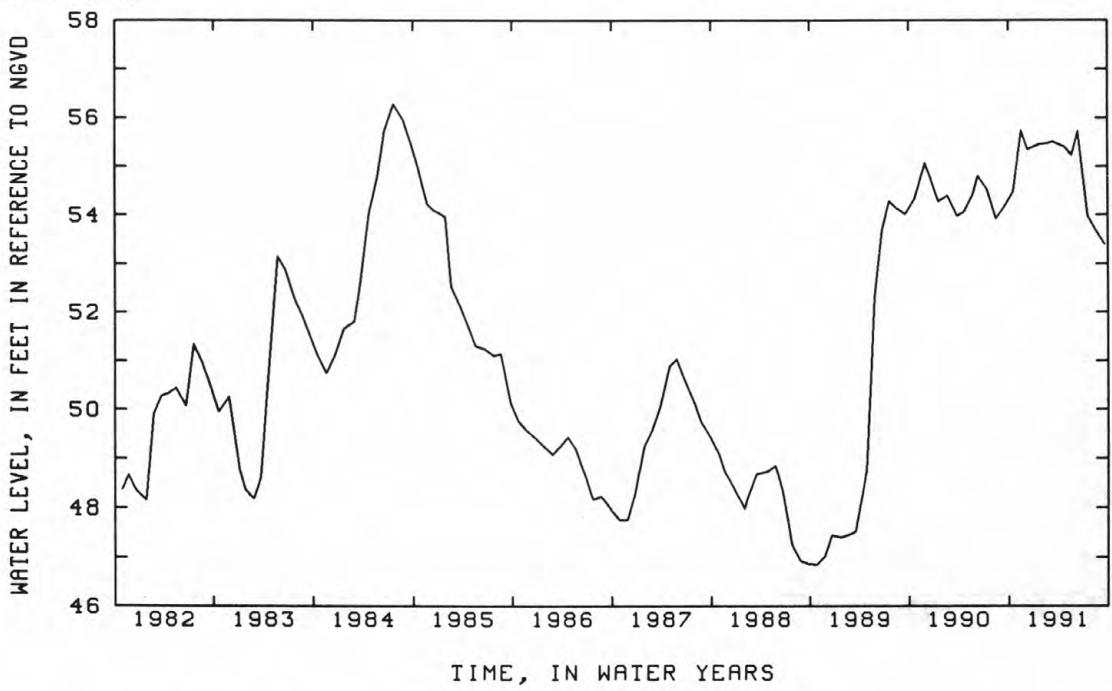
DATE	WATER LEVEL										
OCT 17	30.86	JAN 25	31.01	MAR 13	30.69	APR 24	30.59	JUN 14	29.32	AUG 22	28.60
NOV 19	30.79	FEB 25	30.66	22	30.63	MAY 21	29.96	JUL 18	27.87	SEP 18	27.52
DEC 12	30.15										



404614073184401. Local number, S 1810.4
 LOCATION.--Lat $40^{\circ}48'14''$, long $73^{\circ}16'44''$, Hydrologic Unit 02030202, at west side of North Gardiner Drive at house 1712, south of Pine Aire Drive, Pine Aire. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 55 ft, screened 52 to 55 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 90.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 1.00 ft below land-surface datum.
 REMARKS.--Replaced well S 1810.3 in November 1975 at same location. Unpublished records from October 1912 to November 1914, and August 1932 to September 1975, for wells S 1810.1 to S 1810.3 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--November 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.28 ft NGVD, July 23, 1984; lowest measured, 46.86 ft NGVD, October 26, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	54.49	JAN 25	55.46	MAR 13	55.51	APR 24	55.41	JUN 14	55.72	AUG 22	53.65
NOV 19	55.73	FEB 25	55.48	22	55.49	MAY 21	55.22	JUL 18	53.97	SEP 18	53.40
DEC 12	55.35										



404957073073401. Local number, S 1811.2
 LOCATION.--Lat $40^{\circ}49'57''$, long $73^{\circ}07'37''$, Hydrologic Unit 02030202, at Shore Road, south of Smithtown Boulevard, north of Lake Ronkonkoma, Lake Ronkonkoma. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 31 ft, screened 28 to 31 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 57.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.17 ft below land-surface datum.
 REMARKS.--Replaced well S 1811.1 in March 1987 at same location. Unpublished records from April 1937 to September 1978 for well S 1811.1 are available in files of Long Island Subdistrict Office.
 PERIOD OF RECORD.--March 1987 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.92 ft NGVD, June 6, 1991; lowest measured, 53.29 ft NGVD, September 30, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	56.83	NOV 19	56.95	JUN 6	57.92	AUG 29	57.43	SEP 18	57.10		

404958073085001. Local number, S 1812.3

LOCATION.--Lat $40^{\circ}49'58''$, long $73^{\circ}08'50''$, Hydrologic Unit 02030202, at southwest corner of Smithtown Boulevard and Nichols Road, Ronkonkoma. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 50 ft, screened 46 to 50 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 69.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.68 ft below land-surface datum.

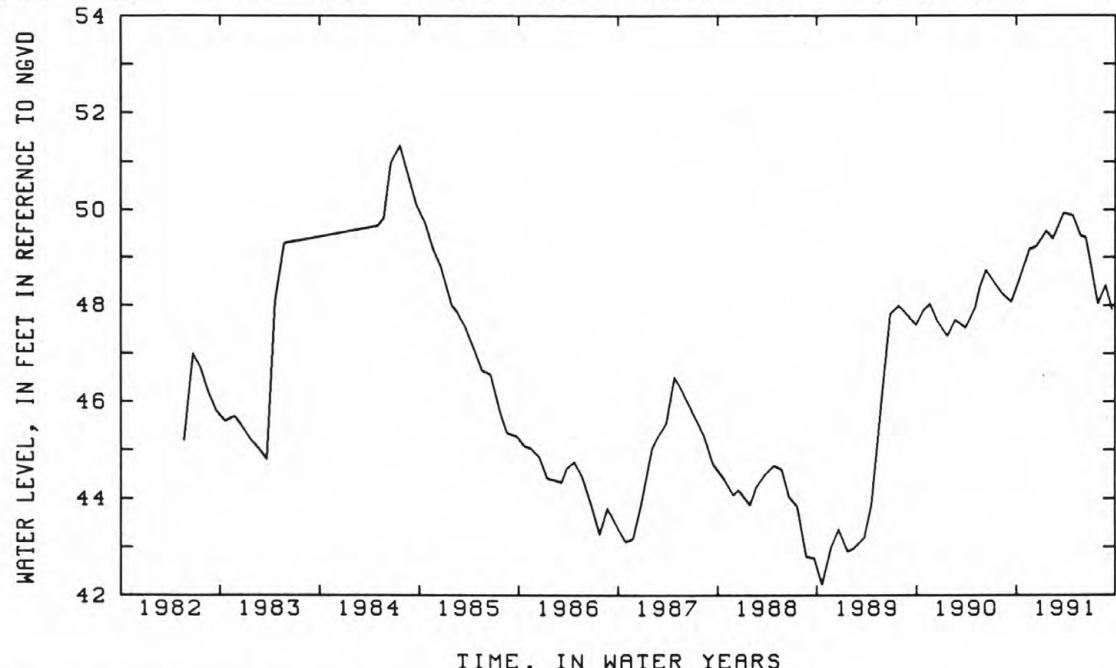
REMARKS.--Replaced well S 1812.2 in May 1982 at same location. Unpublished records from April 1937 to September 1975 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--May 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.34 ft NGVD, July 23, 1984; lowest measured, 42.23 ft NGVD, October 20, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	48.67	DEC 11	49.23	FEB 13	49.40	APR 26	49.89	JUN 14	49.43	AUG 26	48.42
NOV 19	49.18	JAN 18	49.57	MAR 21	49.94	MAY 24	49.46	JUL 29	48.04	SEP 18	47.91



404737073112303. Local number, S 1814.3

LOCATION.--Lat $40^{\circ}47'37''$, long $73^{\circ}11'23''$, Hydrologic Unit 02030202, at northwest corner of Suffolk Avenue and Dovecote Lane, Central Islip. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 54 ft, screened 51 to 54 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 63.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.35 ft below land-surface datum.

REMARKS.--Replaced well S 1814.2 in May 1982 at same location, unpublished records from November 1939 to September 1975 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.50 ft NGVD, June 12, 1984; lowest measured, 35.15 ft NGVD, September 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	40.73	DEC 26	40.69	FEB 28	40.66	APR 25	41.02	JUN 21	40.28	AUG 22	40.11
NOV 16	41.25	JAN 29	41.11	MAR 21	41.11	MAY 23	40.65	JUL 19	39.36	SEP 16	39.39

405146073031801. Local number, S 3513.1

LOCATION.--Lat $40^{\circ}51'46''$, long $73^{\circ}03'18''$, Hydrologic Unit 02030202, at south side of State Route 25, 235 ft west of High View Drive, Selden. Owner: New York Department of Transportation.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled unused steel well, diameter 8 in. to 4 in., depth 65 ft, screened 63 to 65 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

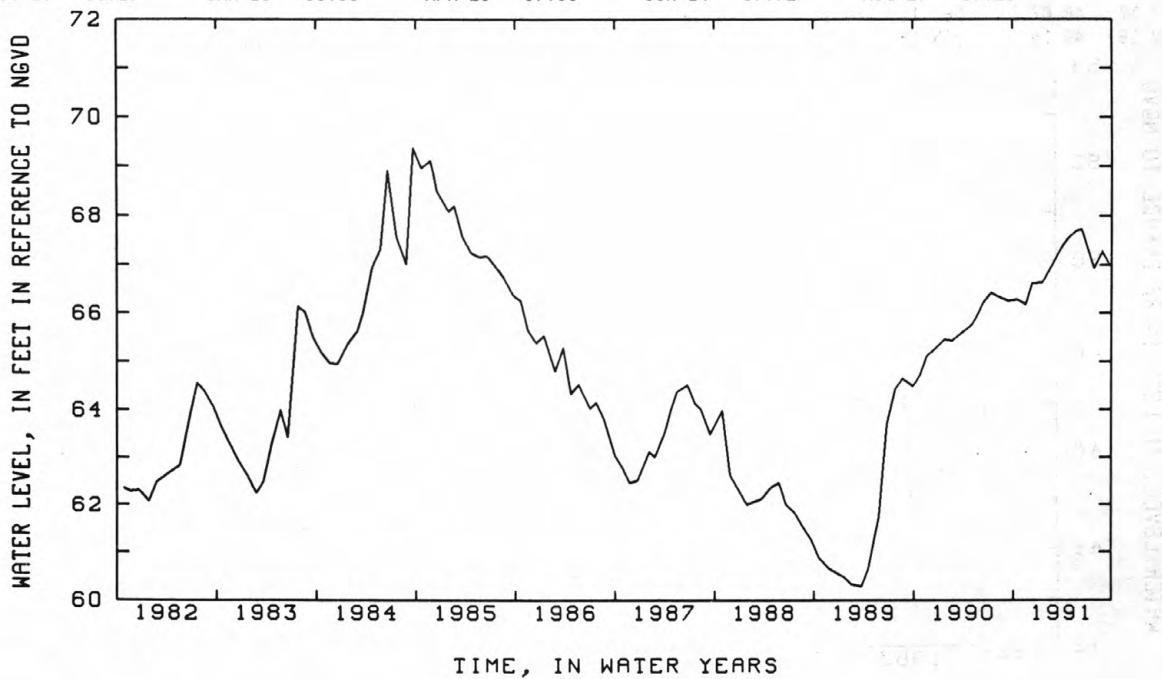
DATUM.--Land-surface datum is 101.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. to 1 1/4-in. steel reducer, 1.31 ft above land-surface datum.

PERIOD OF RECORD.--April 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.91 ft NGVD, May 29, 1979; lowest measured, 56.06 ft NGVD, March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	66.28	DEC 11	66.62	MAR 26	67.33	MAY 24	67.70	JUL 29	66.93	SEP 18	67.05
NOV 19	66.17	JAN 18	66.63	APR 26	67.56	JUN 14	67.72	AUG 27	67.28		



404812073004101. Local number, S 3521.1

LOCATION.--Lat $40^{\circ}48'12''$, long $73^{\circ}00'41''$, Hydrologic Unit 02030202, at west side of Old Medford Avenue, 237 ft north of Cedar Avenue, Medford. Owner: Town of Brookhaven.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 50 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

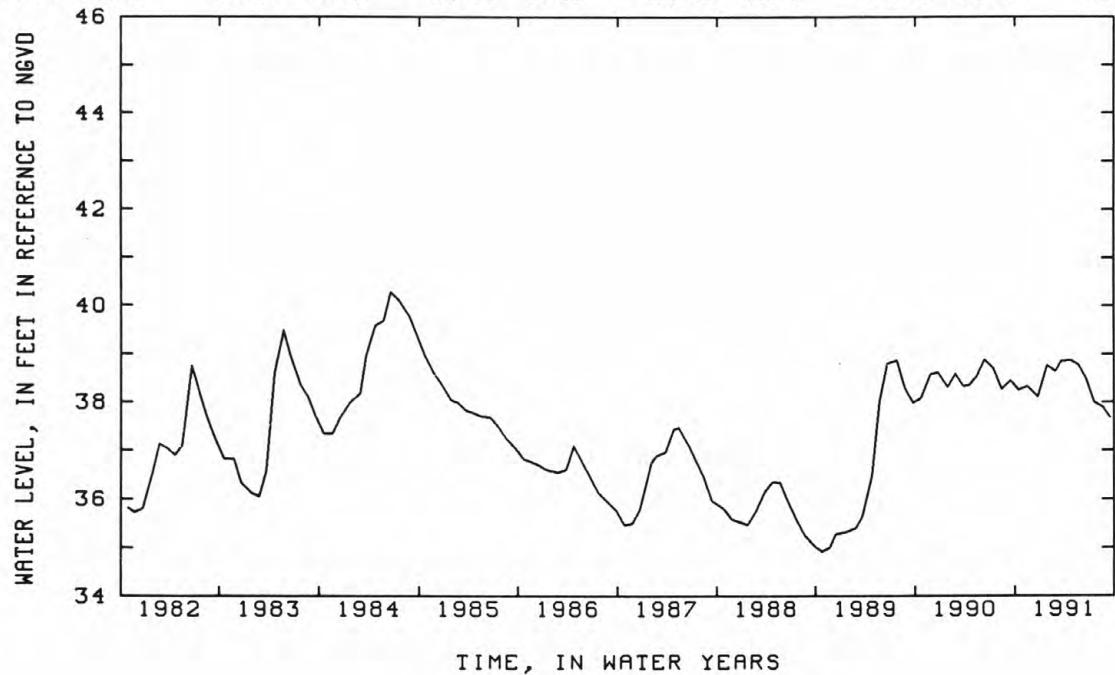
DATUM.--Land-surface datum is 71.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in steel casing, 0.77 ft above land-surface datum.

PERIOD OF RECORD.--January 1907 to current year. Unpublished records from January 1907 to July 1909, April 1942 to September 1975, are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.75 ft NGVD, March 27, 1979; lowest measured, 34.38 ft NGVD, October 26, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	38.25	DEC 26	38.12	FEB 28	38.64	APR 25	38.87	JUN 21	38.49	AUG 22	37.89
NOV 16	38.33	JAN 29	38.76	MAR 20	38.85	MAY 23	38.77	JUL 19	38.00	SEP 16	37.68



404806072553802. Local number, S 3529.2

LOCATION.--Lat $40^{\circ}48'01''$, long $72^{\circ}55'38''$, Hydrologic Unit 02030202, at entrance to Brookhaven Landfill, south of Horseblock Road, South Yaphank. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

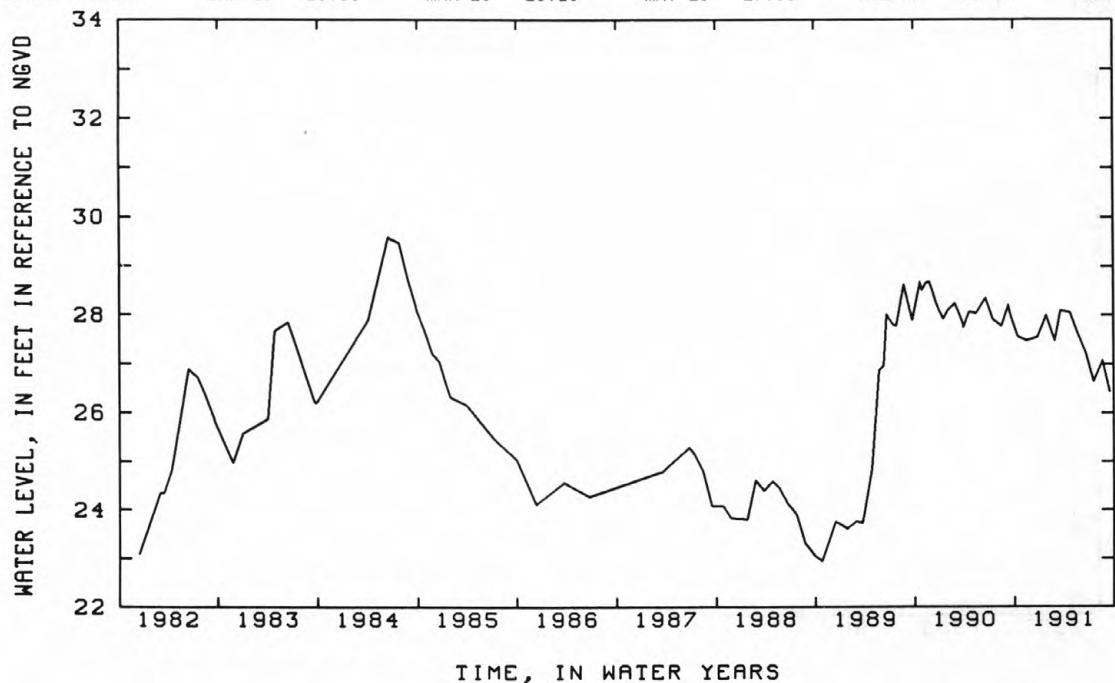
DATUM.--Land-surface datum is 34.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 3.11 ft above land-surface datum.

PERIOD OF RECORD.--December 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.59 ft NGVD, June 14, 1984; lowest measured, 22.94 ft NGVD, October 24, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	27.56	DEC 26	27.54	FEB 28	27.48	APR 25	28.06	JUN 21	27.24	AUG 22	27.07
NOV 16	27.48	JAN 29	28.00	MAR 20	28.10	MAY 23	27.63	JUL 19	28.64	SEP 16	26.43



405037072390301. Local number, S 3543.1

LOCATION.--Lat $40^{\circ}50'37''$, long $72^{\circ}39'03''$, Hydrologic Unit 02030202, at Stewart Avenue, 0.25 miles west of Old Riverhead Road, 226 ft north on dirt path, West Hampton. Owner: City of New York.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 58 ft, screened 56 to 58 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

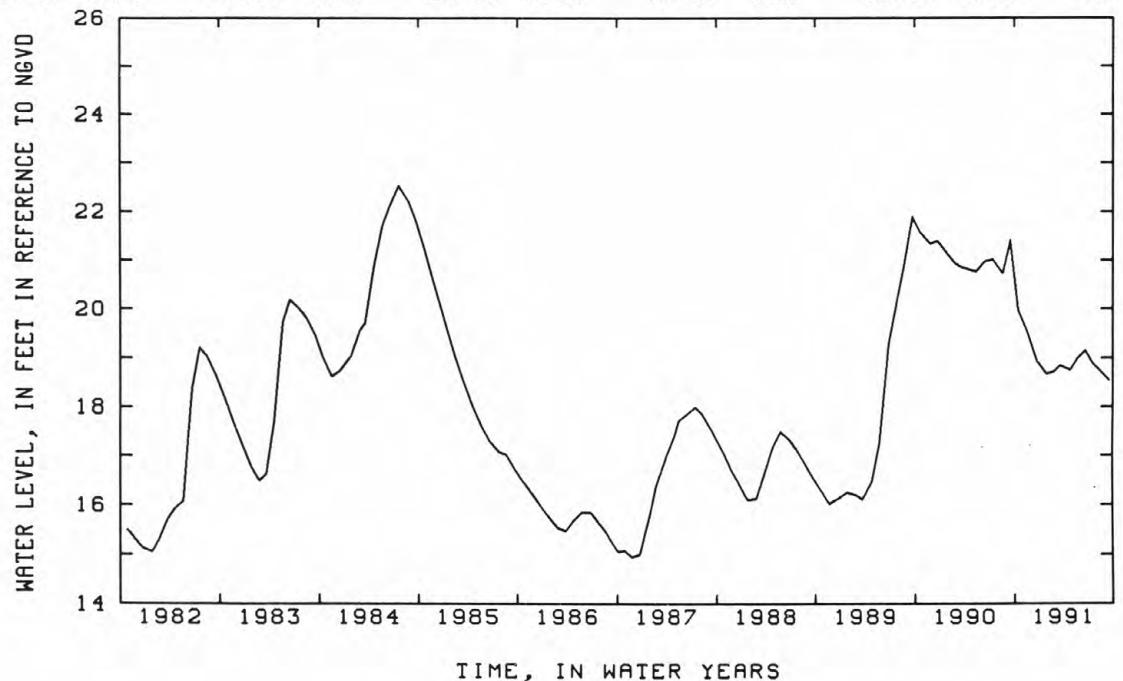
DATUM.--Land-surface datum is 64.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.34 ft above land-surface datum.

PERIOD OF RECORD.--March 1907 to December 1909, April 1942 to April 1943, January 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.53 ft NGVD, July 23, 1984; lowest measured, 14.94 ft NGVD, November 25, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	19.97	DEC 26	18.92	FEB 25	18.70	APR 25	18.75	JUN 21	19.15	AUG 22	18.68
NOV 16	19.57	JAN 29	18.67	MAR 20	18.83	MAY 23	18.99	JUL 19	18.86	SEP 16	18.53



405145072592501. Local number, S 3870.1

LOCATION.--Lat $40^{\circ}51'45''$, long $72^{\circ}59'25''$, Hydrologic Unit 02030202, at south side of Coram Yaphank Road, 115 ft west of Overton Road, Coram. Owner: Town of Brookhaven.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 43 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 87.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 1.11 ft above land-surface datum.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.86 ft NGVD, June 27, 1979; lowest measured, 49.54 ft NGVD, October 26, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	58.11	DEC 11	58.14	FEB 13	58.54	APR 26	58.79	JUN 14	58.89	AUG 26	58.32
NOV 19	58.22	JAN 18	58.23	MAR 21	58.59	MAY 24	58.94	JUL 29	58.45	SEP 18	58.10

405343073055004. Local number, S 3955.4

LOCATION.--Lat $40^{\circ}53'43''$, long $73^{\circ}05'50''$, Hydrologic Unit 02030201, at west side of Mark Tree Road, south of Pond Path, Setauket. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 80 ft, screened 76 to 80 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 123.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.24 ft below land-surface datum.

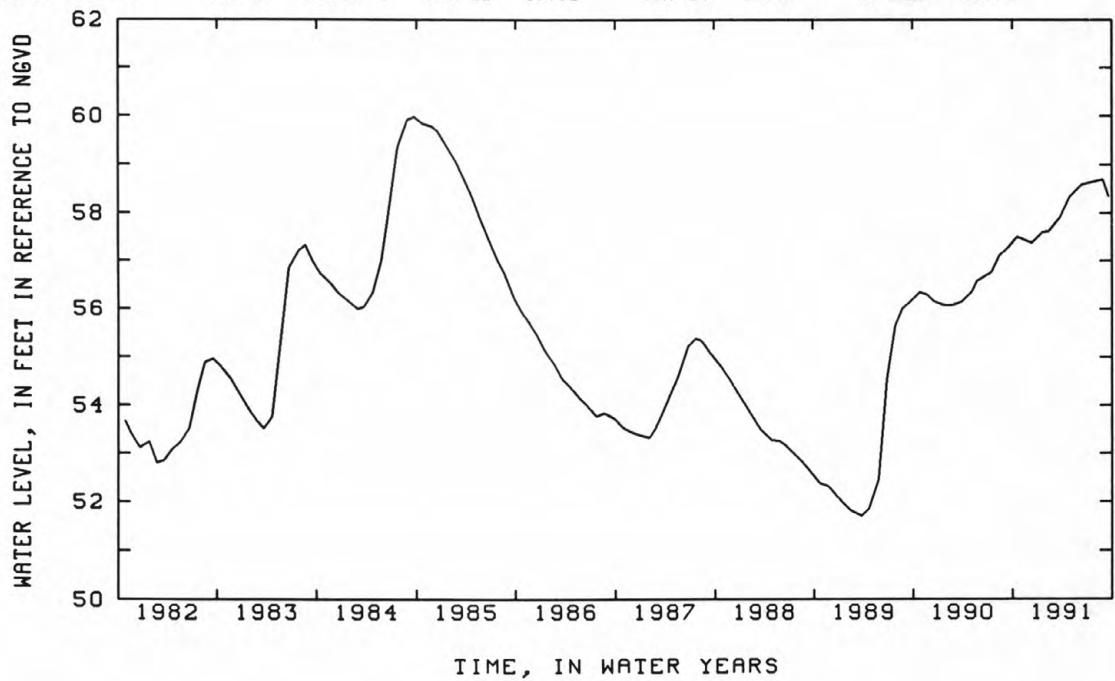
REMARKS.--Replaced well S 3955.3 in April 1975 at same location. Unpublished records from September 1944 to September 1975 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.23 ft NGVD, June 21, 1979; lowest measured, 51.70 ft NGVD, March 22, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

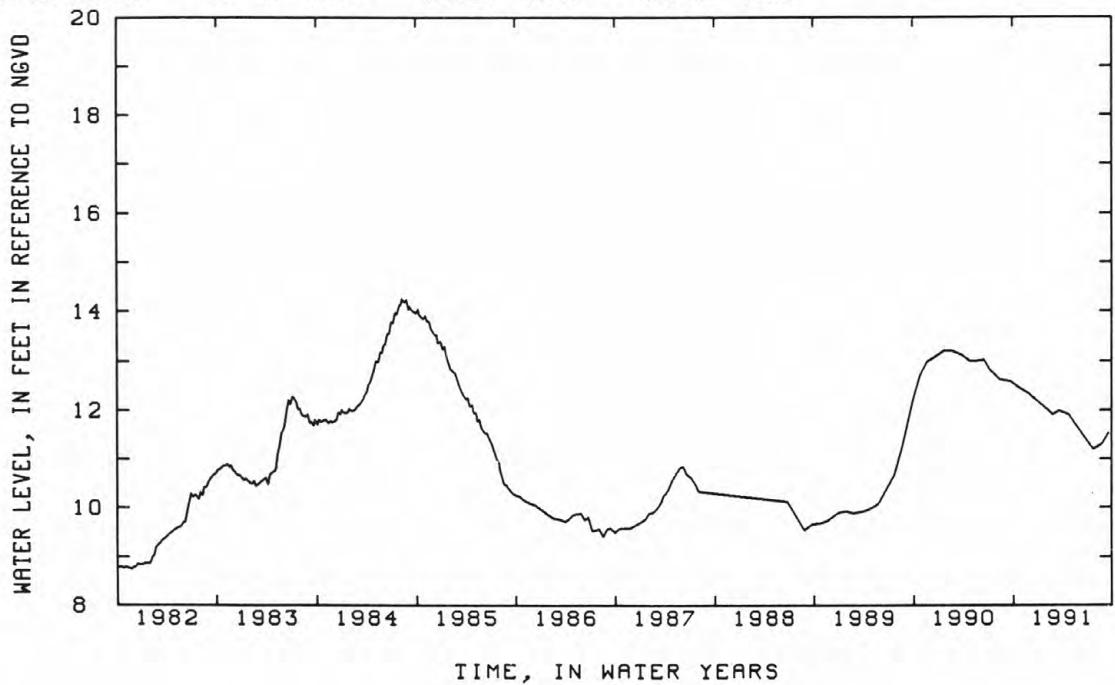
DATE	WATER LEVEL										
OCT 17	57.52	DEC 11	57.39	FEB 13	57.62	APR 26	58.33	JUN 14	58.59	SEP 18	58.36
NOV 19	57.44	JAN 18	57.60	MAR 21	57.91	MAY 24	58.50	AUG 27	58.70		



405743072425701. Local number, S 4271.1
 LOCATION.--Lat $40^{\circ}57'43''$, long $72^{\circ}42'57''$, Hydrologic Unit 02030202, at Long Island Research Farm, Horton Avenue south of Sound Avenue, Riverhead. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 105 ft, screened 100 to 105 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 100.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 1.14 ft above land-surface datum.
 PERIOD OF RECORD.--August 1945 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.25 ft NGVD, August 12, 1984; lowest measured, 8.16 ft NGVD, September 5, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	12.49	DEC 17	12.24	FEB 25	11.91	APR 25	11.91	AUG 23	11.29	SEP 18	11.53
NOV 28	12.35	FEB 1	12.04	MAR 20	11.99	JUL 22	11.20				



405607072393502. Local number, S 4523.2
 LOCATION.--Lat $40^{\circ}56'07''$, long $72^{\circ}39'35''$, Hydrologic Unit 02030202, at west side of Northville Turnpike, 94 ft south of Old Country Road, Riverhead. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 13 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 17.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC casing, 0.01 ft below land-surface datum.
 PERIOD OF RECORD.--September 1981 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.43 ft NGVD, June 22, 1984; lowest measured, 8.79 ft NGVD, September 14, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	9.49	DEC 14	9.52	FEB 21	9.94	APR 25	10.20	JUN 11	9.74	AUG 23	9.77
NOV 21	9.50	FEB 1	11.01	MAR 20	10.12	MAY 28	9.82	JUL 22	9.00	SEP 18	9.38

405149072532201. Local number, S 5517.1

LOCATION.--Lat $40^{\circ}51'49''$, long $72^{\circ}53'22''$, Hydrologic Unit 02030202, at northwest corner of Princeton Avenue and Upton Road, 77 ft south of parking field. Owner: Brookhaven National Laboratory.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 91 ft, screened 85 to 91 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 115.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of

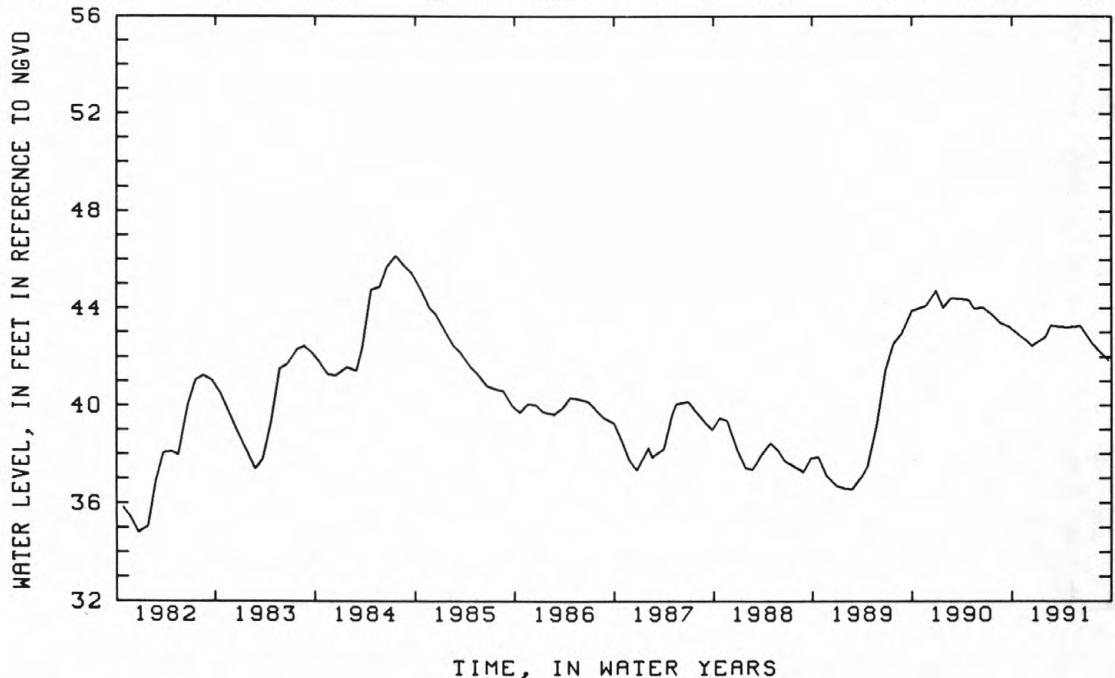
4-in. steel casing, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--April 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.93 ft NGVD, June 25, 1958; lowest measured, 33.34 ft NGVD, March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	43.02	DEC 14	42.45	FEB 21	43.31	APR 25	43.22	JUN 11	43.25	AUG 23	42.15
NOV 21	42.71	JAN 31	42.80	MAR 21	43.26	JUN 4	43.28	JUL 22	42.54	SEP 18	41.87



405650072541801. Local number, S 6411.1

LOCATION.--Lat $40^{\circ}56'50''$, long $72^{\circ}54'18''$, Hydrologic Unit 02030202, at south side of State Route 25A, 86 ft east of Ridge Road, Shoreham. Owner: Brookhaven National Laboratory.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 149 ft, screened 143 to 149 ft. INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

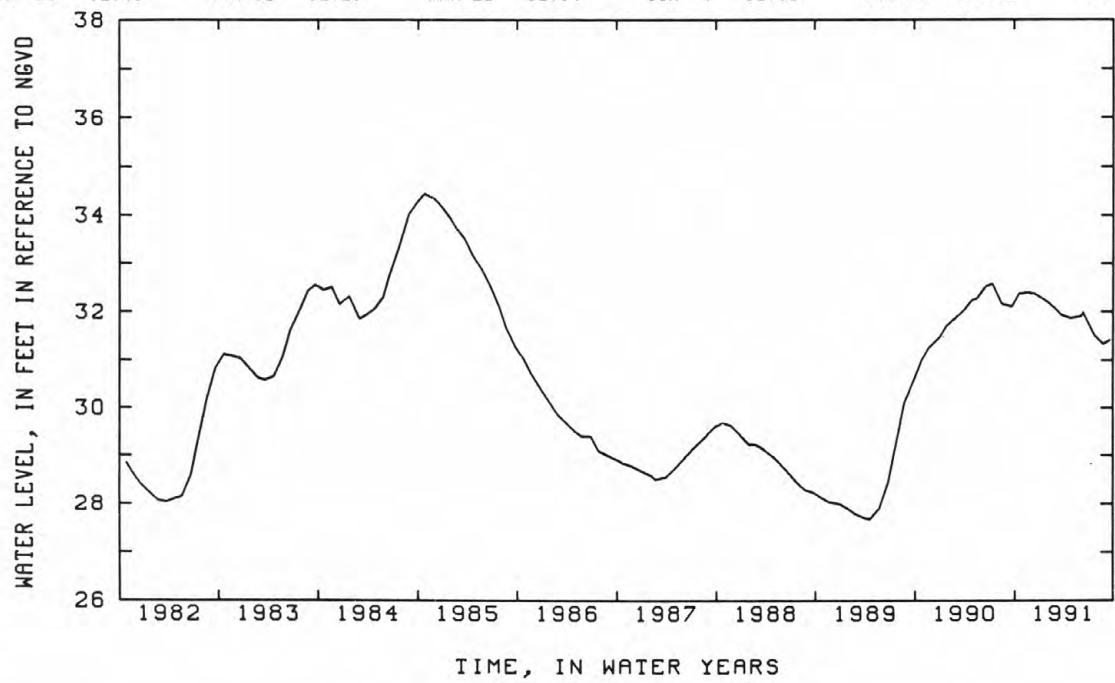
DATUM.--Land-surface datum is 138.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 1.73 ft above land-surface datum.

PERIOD OF RECORD.--November 1948 to current year. Unpublished records from November 1948 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.49 ft NGVD, July 26 and August 28, 1979; lowest measured, 25.15 ft NGVD, December 28, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	32.38	DEC 14	32.37	FEB 21	32.10	APR 25	31.87	JUN 11	31.99	AUG 23	31.33
NOV 21	32.40	JAN 31	32.20	MAR 21	31.94	JUN 4	31.91	JUL 22	31.52	SEP 18	31.41



405308072553101. Local number, S 6413.1

LOCATION.--Lat $40^{\circ}53'08''$, long $72^{\circ}55'31''$, Hydrologic Unit 02030202, at south side of State Route 25, 70 ft east of Woodville Road, Middle Island. Owner: New York State Department of Transportation.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 108 ft, screened 103 to 108 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 93.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel meter box rim at yellow arrow, 0.13 ft above land-surface datum.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.16 ft NGVD, April 12, 1979; lowest measured, 42.40 ft NGVD, March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL								
OCT 16	51.32	MAR 21	53.66	JUL 22	53.23	AUG 23	51.30	SEP 18	51.08		

405222072523301. Local number, S 6431.1

LOCATION.--Lat $40^{\circ}52'23''$, long $72^{\circ}52'36''$, Hydrologic Unit 02030202, at northwest corner of Thomson Road and Forth Avenue, Brookhaven National Laboratory, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 125 ft, screened 121 to 125 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 87.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of

4-in. steel casing at yellow arrow, 1.48 ft below land-surface datum.

PERIOD OF RECORD.--January 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.98 ft NGVD, April 12, 1979; lowest measured, 39.14 ft NGVD, September 18, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	47.76	DEC 14	46.31	FEB 21	47.44	JUN 11	47.28	AUG 23	45.30	SEP 18	45.72
NOV 21	46.50	JAN 31	47.09	JUN 4	47.43	JUL 22	46.48				

405223072523401. Local number, S 6434.1

LOCATION.--Lat $40^{\circ}42'23''$, long $72^{\circ}52'34''$, Hydrologic Unit 02030202, at northeast corner of Thomson Road and Forth Avenue, in pump shed, Brookhaven National Laboratory, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel public supply well, diameter 10 in., depth 1,395 ft, screened 1,312 to 1,392 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 85.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in flange at yellow arrow, 2.07 ft above land-surface datum.

PERIOD OF RECORD.--August 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.11 ft NGVD, July 12, 1979; lowest measured, 28.74 ft NGVD, March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL	DATE	WATER LEVEL								
OCT 16	33.66	MAR 26	33.69	JUL 22	33.15	AUG 23	33.20	SEP 18	33.04		

405223072523403. Local number, S 6455.1

LOCATION.--Lat $40^{\circ}52'23''$, long $72^{\circ}52'34''$, Hydrologic Unit 02030202, at northeast corner of Thomson Road and Forth Avenue, under manhole cover, Brookhaven National Laboratory, Upton. Owner: Brookhaven National Laboratory.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 962 ft, screened 952 to 962 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 85.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 0.45 ft below land-surface datum.

PERIOD OF RECORD.--July 1949 to June 1952, January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.50 ft NGVD, April 2, 1979; lowest measured, 33.82 ft NGVD, December 27, 1966 and March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	41.14	DEC 14	39.67	FEB 21	40.38	APR 25	40.53	JUN 11	40.31	AUG 23	39.56
NOV 21	39.96	JAN 31	40.44	MAR 26	40.50	JUN 4	40.40	JUL 22	39.69	SEP 18	39.23

410247072261101. Local number, S 6524.1

LOCATION.--Lat $41^{\circ}02'47''$, long $72^{\circ}26'11''$, Hydrologic Unit 02030202, at Bayview Avenue and Route 25, Southold.

Owner: Southold Fire Department.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel fire-protection well, diameter 6 in., depth 40 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 5.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of 6-in. steel casing, inside elbow extension, 2.99 ft above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.43 ft NGVD, May 7, 1958; lowest measured, -1.99 ft NGVD, October 2, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	1.32	DEC 17	1.31	FEB 25	1.61	APR 25	1.79	JUL 22	1.36	SEP 18	1.46
NOV 26	1.36	FEB 1	1.33	MAR 20	1.96	JUN 11	1.67	AUG 23	1.70		

405835072325601. Local number, S 6558.1

LOCATION.--Lat $40^{\circ}58'35''$, long $72^{\circ}32'56''$, Hydrologic Unit 02030201, at Route 25, firewell, 244 ft east of railroad tracks, Mattituck. Owner: Mattituck Fire Department.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel fire-protection well, diameter 6 in., depth 38 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 14.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of 6-in. steel casing, inside elbow extension, 1.04 ft above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.45 ft NGVD, March 29, 1973; lowest measured, 1.06 ft NGVD, September 22, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	4.84	DEC 17	4.64	FEB 25	5.11	APR 25	5.55	JUN 11	5.28	AUG 23	4.80
NOV 26	4.69	FEB 1	5.16	MAR 20	5.43	MAY 28	5.42	JUL 22	4.72	SEP 18	4.54

405756072173501. Local number, S 8833.1

LOCATION.--Lat $40^{\circ}57'58''$, long $72^{\circ}17'35''$, Hydrologic Unit 02030202, at west side of Toppings Path, near Crooked Pond, Bridgehampton. Owner: Town of Southampton.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 2 in., depth 13 ft, screened 10 to 13 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 20.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 1.63 ft above land-surface datum.

PERIOD OF RECORD.--October 1950 to current year. Unpublished records from October 1950 to September 1977 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.33 ft NGVD, April 27, 1990; lowest measured, 12.84 ft NGVD, March 29, 1982.

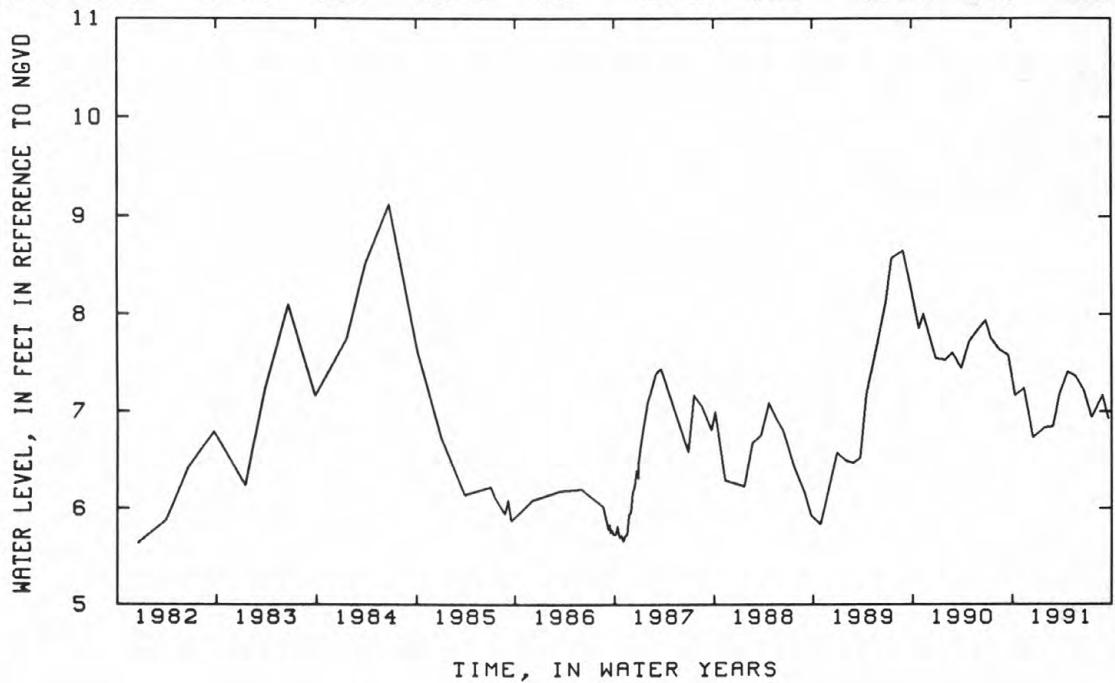
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	18.14	DEC 18	17.47	FEB 28	17.57	APR 23	18.08	JUN 20	17.91	AUG 28	17.55
NOV 13	17.75	JAN 28	17.68	MAR 21	17.89	MAY 22	18.11	JUL 19	17.43	SEP 19	17.13

405309072233101. Local number, S 8838.1
 LOCATION.--Lat $40^{\circ}53'09''$, long $72^{\circ}23'31''$, Hydrologic Unit 02030202, at south side of Nugent Street, 399 ft east of Windmill Lane, Southampton. Owner: Southampton Fire Department.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 8 in., depth 37 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of 8-in. steel casing, inside elbow extension, 0.87 ft above land-surface datum.
 PERIOD OF RECORD.--July 1950 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.12 ft NGVD, June 21, 1984; lowest measured, 4.93 ft NGVD, August 30, 1968.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	7.17	DEC 17	6.73	FEB 28	6.84	APR 23	7.41	JUN 20	7.22	AUG 28	7.17
NOV 13	7.24	JAN 28	6.83	MAR 21	7.18	MAY 22	7.36	JUL 19	6.94	SEP 19	6.93



405628072184701. Local number, S 8838.1
 LOCATION.--Lat $40^{\circ}56'28''$, long $72^{\circ}16'47''$, Hydrologic Unit 02030202, at west side of Sagg Road, 153 ft north of Montauk Highway (State Route 27), Bridgehampton. Owner: Bridgehampton Fire Department.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 8 in., depth 46 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 28.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of 8-in. steel casing, inside elbow extension, 0.40 ft above land-surface datum.
 PERIOD OF RECORD.--July 1950 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.89 ft NGVD, March 16, 1971; lowest measured, 8.84 ft NGVD, August 8, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	11.66	DEC 18	11.26	FEB 28	11.20	APR 23	11.76	JUN 20	11.45	AUG 28	11.32
NOV 13	11.40	JAN 28	11.34	MAR 21	11.68	MAY 22	11.71	JUL 19	11.18	SEP 19	10.89

405840072082301. Local number, S 8839.1

LOCATION.--Lat $40^{\circ}58'40''$, long $72^{\circ}08'23''$, Hydrologic Unit 02030202, at west side of Windmill Lane, behind third house, 0.1 miles north of State Route 27, Amagansett. Owner: D. Toler

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 37 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

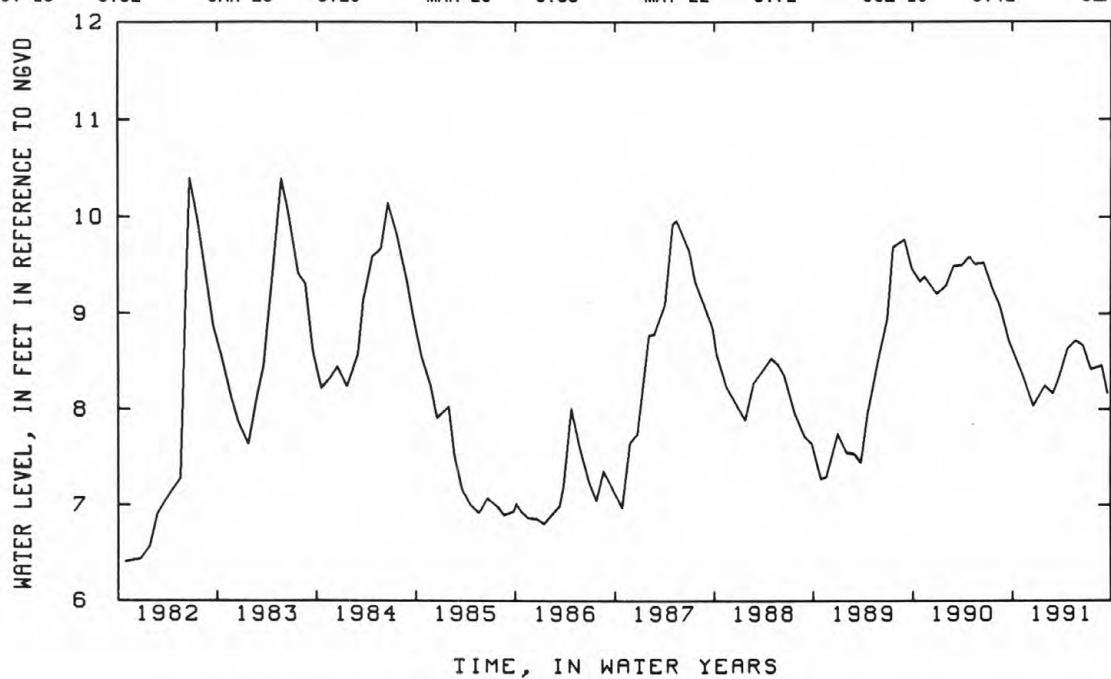
DATUM.--Land-surface datum is 39.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.97 ft above land-surface datum.

PERIOD OF RECORD.--August 1950 to current year. Unpublished records from August 1950 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.55 ft NGVD, February 27, 1979; lowest measured, 6.10 ft NGVD, October 27, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	8.56	DEC 17	8.04	FEB 28	8.17	APR 23	8.64	JUN 20	8.67	AUG 28	8.46
NOV 13	8.32	JAN 28	8.25	MAR 20	8.33	MAY 22	8.72	JUL 19	8.42	SEP 19	8.17



405908072110001. Local number, S 8843.1

LOCATION.--Lat $40^{\circ}59'08''$, long $71^{\circ}11'00''$, Hydrologic Unit 02030202, at east side of Three Mile Harbor Road, behind house, 0.35 miles north of Morris Park Lane, East Hampton. Owner: Conklin.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Dug unused well, diameter 30 in., depth 25 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 32.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel grill, 3.12 ft above land-surface datum.

PERIOD OF RECORD.--July 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.38 ft NGVD, June 20, 1984; lowest measured, 6.59 ft NGVD, December 17, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	10.69	DEC 18	9.93	FEB 28	9.81	APR 23	10.21	JUN 20	10.28	AUG 28	10.07
NOV 13	10.26	JAN 28	9.98	MAR 20	9.99	MAY 22	10.43	JUL 19	10.02	SEP 19	9.72

405907072172101. Local number, S 8844.1

LOCATION.--Lat $40^{\circ}59'07''$, long $72^{\circ}15'12''$, Hydrologic Unit 02030202, at south side of Hempstead Street, 91 ft east of Hampton Street, Sag Harbor. Owner: Sag Harbor Fire Department.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel fire-protection well, diameter 6 in., depth 85 ft, screen assumed at bottom.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 19.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top edge of 6-in. steel casing, inside elbow extension, 1.48 ft above land-surface datum.

PERIOD OF RECORD.--August 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.47 ft NGVD, July 18, 1989; lowest measured, 4.43 ft NGVD, December 26, 1950.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	8.10	DEC 18	5.90	FEB 28	6.19	APR 23	6.87	JUN 20	6.44	AUG 28	6.40
NOV 13	5.97	JAN 28	6.33	MAR 21	6.68	MAY 22	6.69	JUL 19	5.98	SEP 19	6.03

405250073180801. Local number, S 15622.1

LOCATION.--Lat $40^{\circ}52'50''$, long $73^{\circ}18'08''$, Hydrologic Unit 02030201, at north side of Pulaski Road, 17 ft east of Rowena Lane, Northport. Owner: Rottkamp.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel unused domestic supply well, diameter 10 in., depth 458 ft, screened 437 to 457 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 205.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in steel plate, at yellow arrow, 0.19 ft below land-surface datum.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.09 ft NGVD, January 7, 1980; lowest measured, 34.33 ft NGVD, April 14, 1969.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	43.73	DEC 11	44.09	FEB 20	43.84	APR 26	44.57	JUL 30	43.32	SEP 18	42.55
NOV 19	44.06	JAN 18	44.07	MAR 21	44.42	MAY 24	43.93	AUG 27	42.93		

410634072223601. Local number, S 16783.2

LOCATION.--Lat $41^{\circ}06'34''$, long $72^{\circ}22'36''$, Hydrologic Unit 02030202, at south side of North Road, east of Moore Lane, Greenport. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 28 ft, screened 20 to 24 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 18.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.13 ft below land-surface datum.

REMARKS.--Replaced well S 16783.1 in May 1982, which has a period of record from August 1958 to September 1981.

PERIOD OF RECORD.--July 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.79 ft NGVD, March 18, 1983; lowest measured, 1.56 ft NGVD, July 22, 1991.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	1.97	DEC 17	1.87	FEB 22	2.15	APR 25	2.66	JUN 11	2.18	AUG 23	2.19
NOV 26	1.92	FEB 1	2.53	MAR 20	2.85	MAY 28	2.13	JUL 22	1.56	SEP 18	1.94

410858072171501. Local number, S 16787.1
 LOCATION.--Lat $41^{\circ}08'58''$, long $72^{\circ}17'15''$, Hydrologic Unit 02030201, at south side of State Route 25, east of Platt Road, Orient. Owner: Suffolk County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 44 ft, screened 41 to 44 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 22.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.14 ft above land-surface datum.
 PERIOD OF RECORD.--August 1958 to current year. Unpublished records from August 1958 to September 1977 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.16 ft NGVD, June 22, 1984; lowest measured, 1.12 ft NGVD, August 8, 1986.

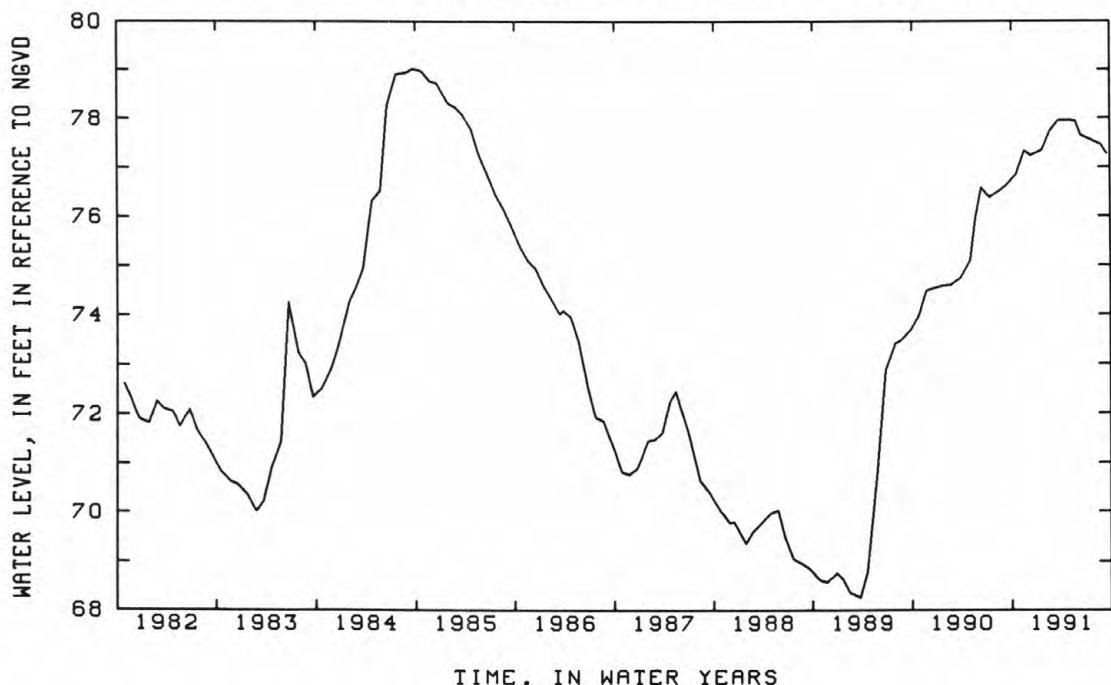
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	3.05	DEC 17	2.66	FEB 22	3.10	APR 25	3.54	JUL 22	2.83	SEP 18	2.63
NOV 26	2.80	FEB 1	3.12	MAR 20	3.29	JUN 11	3.43	AUG 23	2.57		

404747073241501. Local number, S 16874.1
 LOCATION.--Lat $40^{\circ}47'47''$, long $73^{\circ}24'15''$, Hydrologic Unit 02030202, at northeast corner of Old Country Road and New York Avenue, Huntington. Owner: Town of Huntington.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven steel observation well, diameter 1 1/4 in., depth 82 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 141.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.25 ft below land-surface datum.
 PERIOD OF RECORD.--July 1958 to current year. Unpublished records from July 1958 to May 1959, August 1971 to September 1975, are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.14 ft NGVD, May 21, 1980; lowest measured, 66.95 ft NGVD, October 20, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	76.84	DEC 12	77.23	FEB 20	77.71	APR 26	77.95	JUN 14	77.65	SEP 18	77.27
NOV 19	77.33	JAN 22	77.34	MAR 21	77.95	MAY 24	77.94	AUG 27	77.46		



405034073140401. Local number, S 16881.1
 LOCATION.--Lat $40^{\circ}50'34''$, long $73^{\circ}14'04''$, Hydrologic Unit 02030201, at east side of Old Willets Path, north of Bridge Branch Road, Commack. Owner: Town of Smithtown.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 47 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 58.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.34 ft below land-surface datum.
 PERIOD OF RECORD.--July 1958 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.05 ft NGVD, January 23, 1974; lowest measured, 29.26 ft NGVD, October 20, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	32.22	DEC 11	32.18	FEB 13	32.40	APR 26	32.38	JUN 14	31.92	AUG 26	31.70
NOV 19	32.33	JAN 18	32.48	MAR 21	32.45	MAY 24	32.19	JUL 29	31.41	SEP 18	31.41

404902073094001. Local number, S 22577.1
 LOCATION.--Lat $40^{\circ}49'02''$, long $73^{\circ}09'40''$, Hydrologic Unit 02030202, at north side of Motor Parkway, west of Parkway Gardens Boulevard, Hauppauge. Owner: United States Geological Survey.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 736 ft, screened 724 to 734 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 60.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 2.63 ft above land-surface datum.
 PERIOD OF RECORD.--August 1964 to current year. Unpublished records from August 1964 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.04 ft NGVD, March 28, 1979; lowest measured, 36.19 ft above NGVD, March 2, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	43.18	DEC 11	43.74	FEB 13	44.03	APR 26	44.00	JUN 14	43.03	AUG 26	42.52
NOV 19	43.87	JAN 18	43.94	MAR 21	44.50	MAY 24	43.52	JUL 29	41.63	SEP 18	42.20

404902073094002. Local number, S 22578.1
 LOCATION.--Lat $40^{\circ}49'02''$, long $73^{\circ}09'40''$, Hydrologic Unit 02030202, at north side of Motor Parkway, west of Parkway Gardens Boulevard, Hauppauge. Owner: United States Geological Survey.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 402 ft, screened 392 to 402 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 60.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 2.89 ft above land-surface datum.
 PERIOD OF RECORD.--August 1964 to current year. Unpublished records from August 1964 to September 1975 are in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.25 ft NGVD, March 28, 1979; lowest measured, 36.35 ft NGVD, March 1, 1967.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	43.39	DEC 11	43.99	MAR 21	44.45	MAY 24	43.65	JUL 29	42.39	SEP 18	42.32
NOV 19	44.15	FEB 13	44.25	APR 26	44.37	JUN 14	43.06	AUG 26	42.72		

404819073160303. Local number, S 24769.1
 LOCATION.--Lat $40^{\circ}48'19''$, long $73^{\circ}16'03''$, Hydrologic Unit 02030202, at south side of Vanderbilt Parkway, 600 ft east of Wicks road, western most well, Brentwood. Owner: United States Geological Survey.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 810 ft, screened 800 to 810 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 139.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 1.98 ft above land-surface datum.
 PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.33 ft NGVD, March 21, 1991; lowest measured, 45.31 ft NGVD, March 7, 1966.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	55.82	DEC 11	56.85	FEB 12	56.78	APR 26	57.21	JUN 14	56.29	AUG 26	55.94
NOV 19	57.02	JAN 18	56.87	MAR 21	57.33	MAY 24	56.41	JUL 29	55.02	SEP 18	55.14

404829073161502. Local number, S 24770.1
 LOCATION.--Lat $40^{\circ}48'19''$, long $73^{\circ}16'03''$, Hydrologic Unit 02030202, at south side of Vanderbilt Parkway, 606 ft east of Wicks Road, middle well, Brentwood. Owner: United States Geological Survey.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 434 ft, screened 424 to 434 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 139.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 2.01 ft above land-surface datum.
 PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.93 ft NGVD, March 21, 1991; lowest measured, 45.66 ft NGVD, March 7, 1966.

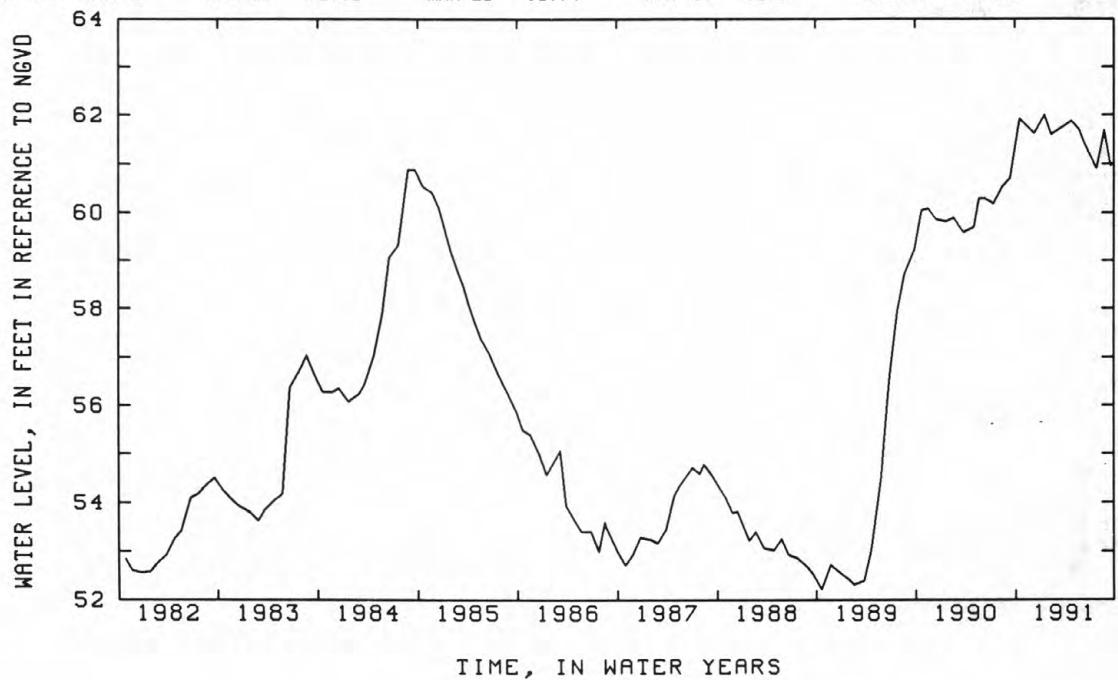
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	56.60	DEC 11	57.50	FEB 12	57.49	APR 26	57.83	JUN 14	56.96	AUG 26	56.61
NOV 19	57.66	JAN 18	57.52	MAR 21	57.93	MAY 24	57.17	JUL 29	55.84	SEP 18	55.85

404820073160303. Local number, S 24771.1
LOCATION.--Lat $40^{\circ}48'20''$, long $73^{\circ}16'03''$, Hydrologic Unit 02030202, at south side of Vanderbilt Parkway, 612 ft
east of Wicks Road, eastern most well, Brentwood. Owner: United States Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 127 ft, screened 117 to 127 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 139.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of
4-in. steel coupling, 2.08 ft above land-surface datum.
PERIOD OF RECORD.--August 1965 to current year. Unpublished records from August 1965 to September 1975 are
available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.01 ft NGVD, January 18, 1991; lowest measured,
43.50 ft NGVD, November 30, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	61.92	DEC 11	61.62	FEB 12	61.60	APR 26	61.88	JUN 14	61.43	AUG 26	61.69
NOV 19	61.74	JAN 18	62.01	MAR 21	61.74	MAY 24	61.89	JUL 29	60.90	SEP 18	60.96



405455073025802. Local number, S 31734.1
LOCATION.--Lat 40°54'51", long 73°02'57", Hydrologic Unit 02030202, at west side of Jayne Boulevard, 0.7 miles south of Nesconset Road (Rt. 347), eastern most well, Terryville. Owner: Suffolk County Water Authority.
AQUIFER.--Lloyd (confined).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 1,095 ft, screened 1,070 to 1,090 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 164.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling welded to casing cap, 1.92 ft above land-surface datum.
PERIOD OF RECORD.--December 1970 to current year. Unpublished records from December 1970 to September 1975 are available in files of Long Island Subdistrict Office.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.52 ft NGVD, May 30, 1979; lowest measured, 36.63 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

405452073025701. Local number, S 32895.1
 LOCATION.--Lat $40^{\circ}54'51''$, long $73^{\circ}02'57''$, Hydrologic Unit 02030202, at west side of Jayne Boulevard, 0.7 miles south of Nesconset Road (Rt. 347), western most well, Terryville. Owner: Suffolk County Water Authority.
 AQUIFER.--Magathy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 845 ft, screened 840 to 845 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 184.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 2.49 ft above land-surface datum.
 PERIOD OF RECORD.--March 1970 to current year. Unpublished records from March 1970 to September 1975 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.54 ft NGVD, December 11, 1984; lowest measured, 37.97 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	44.39	DEC 11	45.03	FEB 13	45.19	MAR 21	45.16	APR 26	45.19	MAY 24	44.15
NOV 19	44.61	JAN 18	45.30								

405715072193701. Local number, S 33921.1
 LOCATION.--Lat $40^{\circ}57'15''$, long $72^{\circ}19'37''$, Hydrologic Unit 02030202, at north side of Scuttlehole Road, near Millstone Road, Bridgehampton. Owner: Suffolk County Water Authority.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 174 ft, screened 159 to 174 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 110.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. to 2-in. steel reducer, 2.42 ft above land-surface datum.
 PERIOD OF RECORD.--January 1973 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.30 ft NGVD, March 30, 1978; lowest measured, 15.17 ft NGVD, December 17, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	20.23	DEC 18	19.78	FEB 28	19.34	APR 23	19.28	JUN 20	19.09	AUG 28	18.86
NOV 13	19.96	JAN 28	19.53	MAR 26	19.22	MAY 22	19.26	JUL 19	18.94	SEP 19	18.86

405040072414801. Local number, S 34743.1
 LOCATION.--Lat $40^{\circ}50'40''$, long $72^{\circ}41'48''$, Hydrologic Unit 02030202, at 0.6 miles south of Sunrise Highway (Rt. 27), 120 ft east of Speonk Riverhead Road, northern most well, Speonk. Owner: Suffolk County Water Authority.
 AQUIFER.--Lloyd (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, access pipe diameter 4 in., casing diameter 12 in., depth 1,228 ft, screened 1,077 to 1,117 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 84.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 2.94 ft above land-surface datum.
 PERIOD OF RECORD.--March 1970 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.24 ft NGVD, April 2, 1979; lowest measured, 16.18 ft NGVD, March 18, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	20.81	JAN 29	20.09	MAR 20	20.16	MAY 23	20.04	JUL 19	19.79	SEP 16	19.63
DEC 26	20.22	FEB 28	20.96	APR 25	20.07	JUN 21	20.10	AUG 22	19.77		

405517072574902. Local number, S 34892.1

LOCATION.--Lat $40^{\circ}55'19''$, long $72^{\circ}57'49''$, Hydrologic Unit 02030202, at east side of Radio Avenue, 1.3 miles south of Nesconset Road (Rt. 25A), northern most well, Rocky Point. Owner: Suffolk County Water Authority.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 138 ft, screened 124 to 138 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 122.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 0.78 ft above land-surface datum.

PERIOD OF RECORD.--July 1970 to current year. Unpublished records from July 1970 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.82 ft NGVD, September 15, 1984; lowest measured, 42.17 ft NGVD, March 21, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	49.44	DEC 14	49.15	FEB 21	49.13	APR 25	49.51	JUN 11	49.64	AUG 23	49.26
NOV 21	49.31	JAN 31	49.08	MAR 21	49.38	JUN 4	49.62	JUL 22	49.30	SEP 18	49.13

405517072574903. Local number, S 34894.1

LOCATION.--Lat $40^{\circ}55'18''$, long $72^{\circ}57'49''$, Hydrologic Unit 02030202, at east side of Radio Avenue, 1.3 miles south of Nesconset Road (Rt. 25A), southern most well, Rocky Point. Owner: Suffolk County Water Authority.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 12 in., depth 745 ft, screened 698 to 740 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

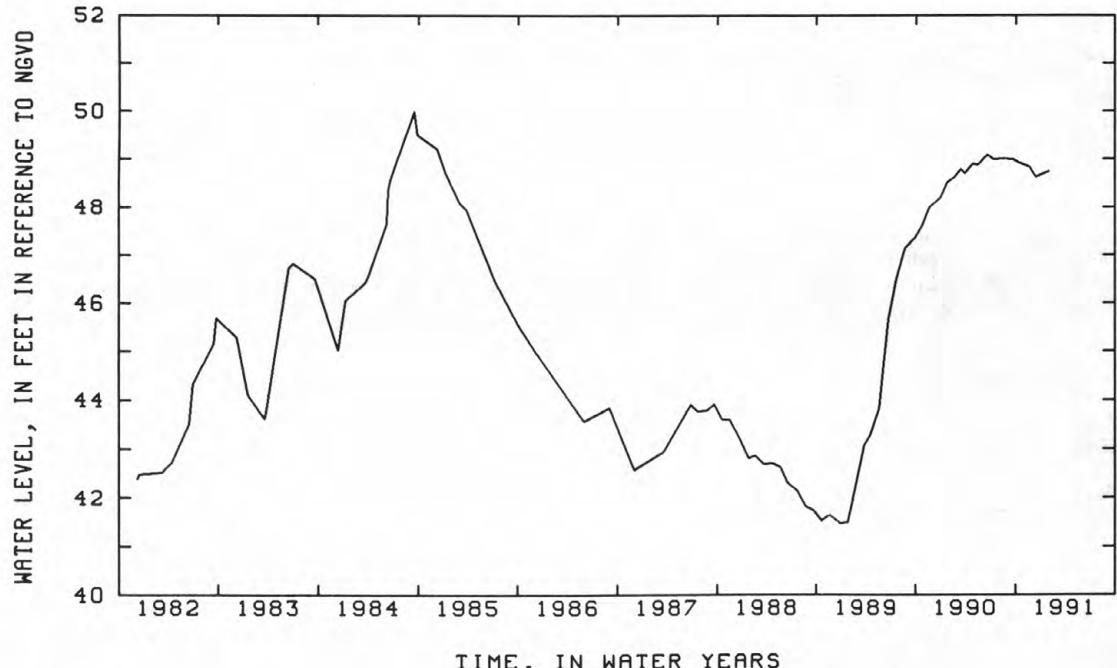
DATUM.--Land-surface datum is 122.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling welded to casing cap, 5.02 ft above land-surface datum.

PERIOD OF RECORD.--March 1970 to current year. Unpublished records from March 1970 to September 1975 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.99 ft NGVD, September 15, 1984; lowest measured, 40.56 ft NGVD, March 15, 1972.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

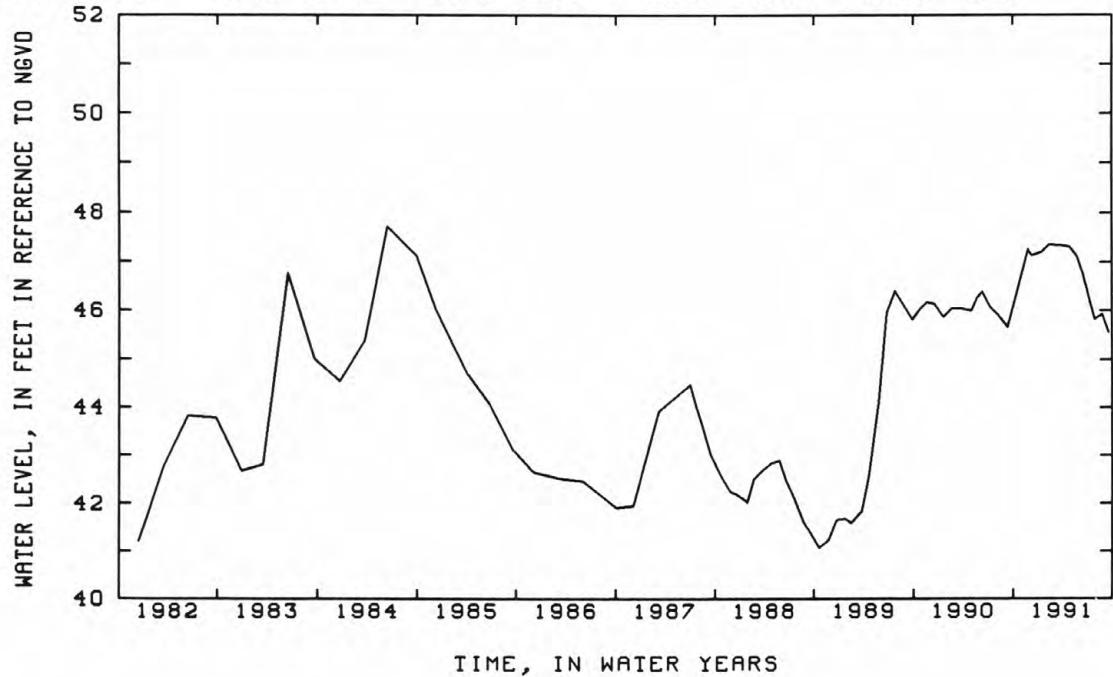
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL						
OCT 16	48.92	NOV 21	48.84	DEC 14	48.62	JAN 31	48.75				



404930073120002. Local number, S 36142.2
 LOCATION.--Lat $40^{\circ}49'30''$, long $73^{\circ}12'00''$, Hydrologic Unit 02030202, at east side of Lincoln Boulevard, 266 ft south of Townline Road, Islip. Owner: Hauppauge School District.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 73 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 81.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.29 ft below land-surface datum.
 PERIOD OF RECORD.--July 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.71 ft NGVD, June 12, 1984; lowest measured, 41.07 ft NGVD, October 20, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

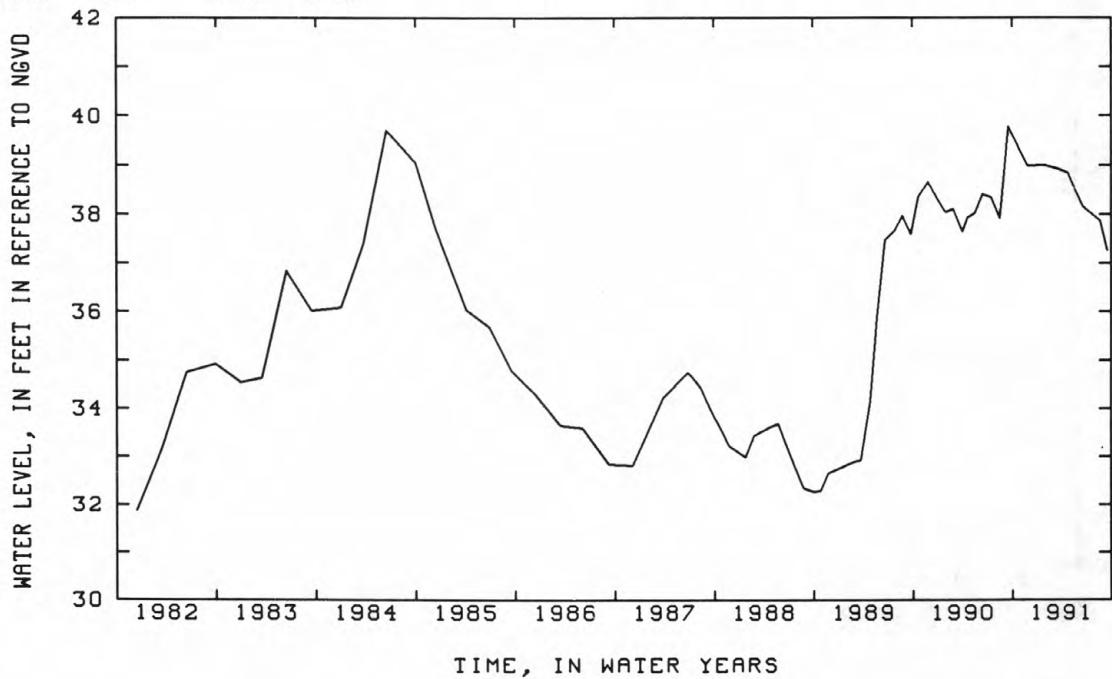
DATE	WATER LEVEL										
NOV 28	47.26	JAN 18	47.21	MAR 21	47.34	MAY 24	47.11	JUL 29	45.84	SEP 18	45.56
DEC 11	47.13	FEB 13	47.35	APR 26	47.31	JUN 14	46.80	AUG 26	45.92		



404640073050201. Local number, S 36144.1
 LOCATION.--Lat $40^{\circ}46'40''$, long $73^{\circ}05'02''$, Hydrologic Unit 02030202, at east side of Lincoln Avenue, south of State Route 454, Bohemia. Owner: Town of Islip.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 53 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 54.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 1.84 ft above land-surface datum.
 PERIOD OF RECORD.--October 1969 to current year. Unpublished records from October 1969 to September 1977 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.96 ft NGVD, March 29, 1979; lowest measured, 31.88 ft NGVD, December 15, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

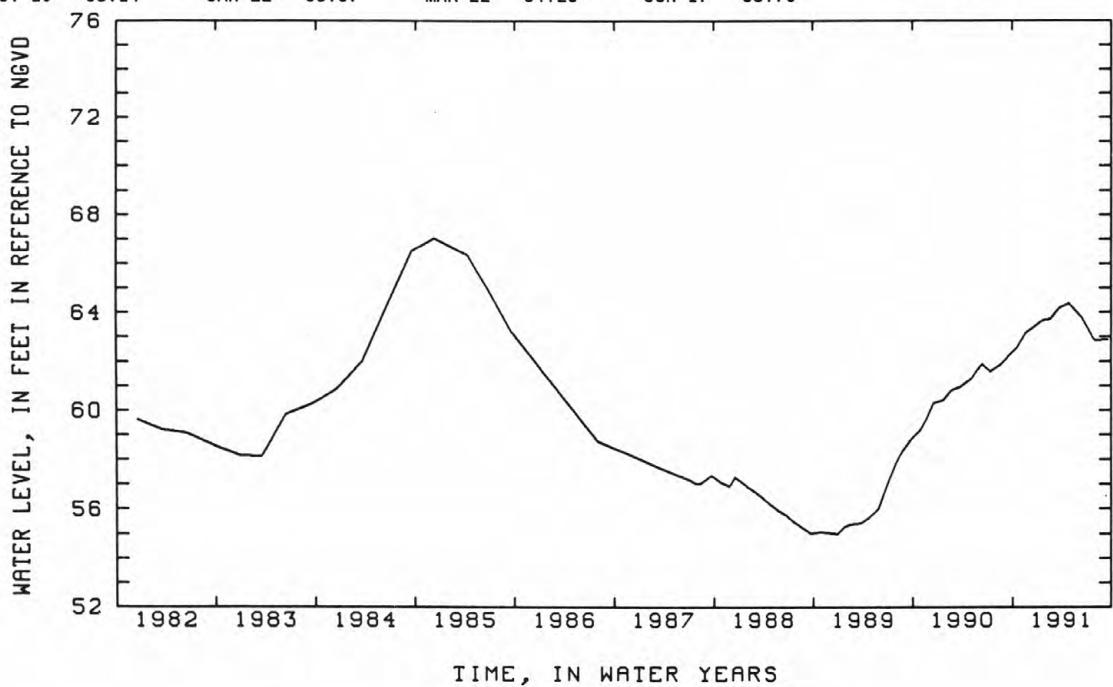
DATE	WATER LEVEL										
NOV 28	38.98	MAR 20	38.91	MAY 23	38.47	JUN 21	38.14	AUG 22	37.87	SEP 16	37.26
JAN 29	39.00	APR 25	38.84								



405013073263801. Local number, S 40840.1
 LOCATION.--Lat $40^{\circ}50'13''$, long $73^{\circ}26'36''$, Hydrologic Unit 02030201, at intersection of Cold Spring Hill Road, Ledgewood Drive, and West Rogues Path, on grass island, Huntington. Owner: Town of Huntington.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 79 ft, screened 77 to 79 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 131.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.03 ft below land-surface datum.
 PERIOD OF RECORD.--August 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.02 ft NGVD, December 10, 1984; lowest measured, 54.98 ft NGVD, December 29, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	62.57	DEC 12	63.33	FEB 20	63.72	APR 26	64.38	JUL 30	62.86	SEP 18	62.87
NOV 19	63.14	JAN 22	63.67	MAR 22	64.20	JUN 17	63.75				



405124073111501. Local number, S 40843.1
 LOCATION.--Lat $40^{\circ}51'24''$, long $73^{\circ}11'15''$, Hydrologic Unit 02030201, at intersection of Nissequogue River Road and North Country Road (Rt. 25A), just north of Middle Country Road (Rt. 25), on grass island, Smithtown. Owner: Town of Smithtown.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered steel observation well, diameter 2 in., depth 44 ft, screened 41 to 44 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 68.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.01 ft below land-surface datum.
 PERIOD OF RECORD.--July 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.93 ft NGVD, March 27, 1979; lowest measured, 33.84 ft NGVD, July 9, 1971.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	37.30	DEC 11	36.50	FEB 20	36.26	APR 26	36.50	JUN 14	35.74	AUG 27	35.97
NOV 19	37.26	JAN 18	36.71	MAR 21	36.58	MAY 24	36.15	JUL 30	34.19	SEP 18	35.23

405230073212101. Local number, S 46517.1
 LOCATION.--Lat $40^{\circ}52'30''$, long $73^{\circ}21'21''$, Hydrologic Unit 02030201, at southeast corner of Stony Hollow Road and and Maple Road, Huntington. Owner: Town of Huntington.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 66 ft, screened 63 to 66 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 123.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel casing, 0.03 ft above land-surface datum.
 PERIOD OF RECORD.--September 1979 to current year. Unpublished records from September 1979 to September 1982 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.61 ft NGVD, June 11, 1984; lowest measured, 66.87 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	68.11	DEC 12	67.90	FEB 20	68.07	APR 26	68.19	JUN 14	68.26	AUG 27	67.98
NOV 19	68.09	JAN 22	67.89	MAR 21	68.11	MAY 24	68.28	JUL 30	68.09	SEP 18	67.92

410218072093301. Local number, S 46519.1
 LOCATION.--Lat $41^{\circ}02'08''$, long $72^{\circ}09'32''$, Hydrologic Unit 02030202, at northwest corner of Hog Creek Lane and White Birch Drive, East Hampton. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 33 ft, screened 30 to 33 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 32.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.08 ft below land-surface datum.
 PERIOD OF RECORD.--November 1972 to current year. Unpublished records from November 1972 to September 1982 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.45 ft NGVD, January 13, 1983; lowest measured, Dry, September 18, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	2.54	DEC 18	2.37	FEB 28	2.83	APR 23	3.52	JUN 20	3.23	AUG 28	2.80
NOV 13	2.51	JAN 28	3.06	MAR 20	3.25	MAY 22	3.54	JUL 19	2.84	SEP 19	2.57

405139072432401. Local number, S 46544.1
 LOCATION.--Lat $40^{\circ}51'39''$, long $72^{\circ}43'24''$, Hydrologic Unit 02030202, at southwest corner of County Road 51 and service road for recharge basin 33, Eastport. Owner: Suffolk County Department of Public Works.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 107 ft, screen assumed at bottom.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 102.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.19 ft below land-surface datum.
 PERIOD OF RECORD.--December 1972 to current year. Unpublished records from December 1972 to September 1976 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.28 ft NGVD, June 28, 1979; lowest measured, 23.76 ft NGVD, March 18, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	30.52	DEC 26	29.76	FEB 28	29.06	APR 25	28.80	JUN 21	28.72	AUG 22	28.60
NOV 16	30.30	JAN 29	29.41	MAR 20	29.01	MAY 23	28.72	JUL 19	28.60	SEP 16	28.45

405604073064301. Local number, S 47973.1
 LOCATION.--Lat $40^{\circ}56'04''$, long $73^{\circ}06'43''$, Hydrologic Unit 02030201, at north side of State Route 25A, 189 ft west of Ridgeway Avenue, Setauket. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 90 ft, screened 78 to 88 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 94.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel flange, 2.43 ft below land-surface datum.
 REMARKS.--Well also sampled for water quality.
 PERIOD OF RECORD.--January 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.14 ft NGVD, April 26, 1991; lowest measured, 20.83 ft NGVD, March 5, 1980.

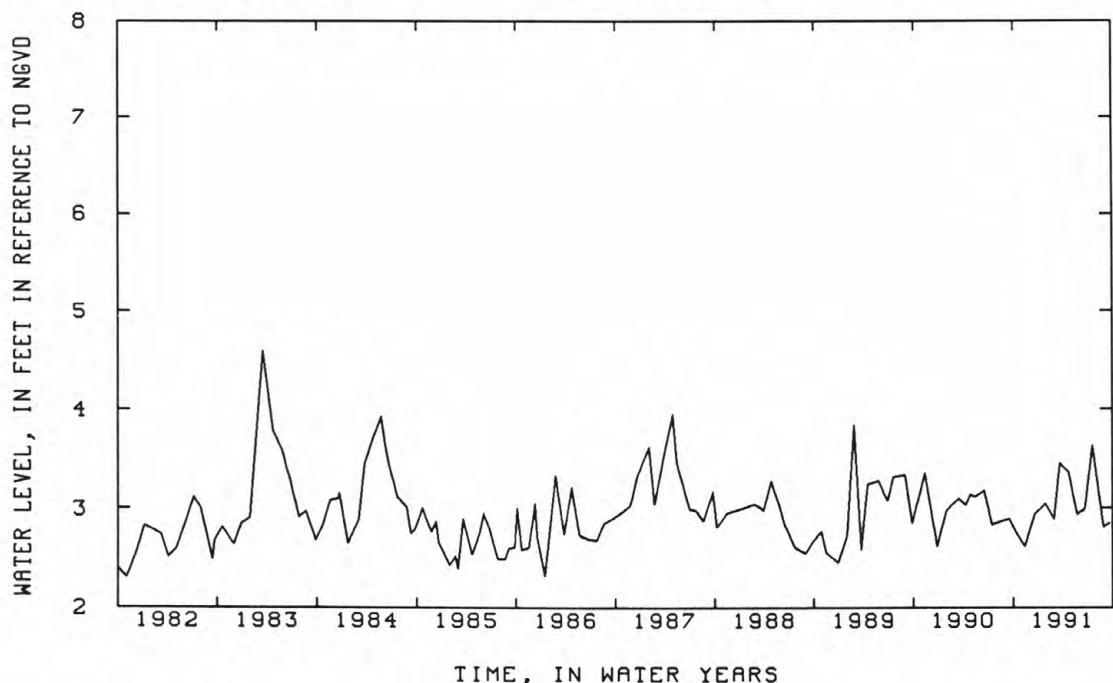
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	27.27	DEC 11	27.60	FEB 13	27.78	APR 26	28.14	JUN 14	27.88	AUG 27	27.36
NOV 19	27.73	JAN 18	27.63	MAR 21	28.01	MAY 24	28.08	JUL 29	27.29	SEP 18	27.02

410243071560101. Local number, S 48519.1
 LOCATION.--Lat $41^{\circ}02'42''$, long $71^{\circ}58'05''$, Hydrologic Unit 02030202, at southwest corner of South Fairview Avenue and South Federal Street, East Hampton. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 82 ft, screened 88 to 78 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 63.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel flange, 1.68 ft below land-surface datum.
 PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.59 ft NGVD, March 15, 1983; lowest measured, 2.07 ft NGVD, December 22, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	2.76	DEC 18	2.94	FEB 28	2.90	APR 23	3.37	JUN 20	2.99	AUG 28	2.81
NOV 13	2.62	JAN 28	3.04	MAR 20	3.45	MAY 22	2.94	JUL 19	3.63	SEP 19	2.85



410149071583201. Local number, S 48577.1

LOCATION.--Lat 41°01'49", long 71°58'32", Hydrologic Unit 02030202, at north side of Montauk Point Parkway, 19 ft east of entrance to East Hampton Disposal and Recycling Center, Montauk. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 189 ft, screened 173 to 183 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 168.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel flange, 1.61 ft below land-surface datum.

PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.50 ft NGVD, September 18, 1979; lowest measured, -0.54 ft NGVD, May 5, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	4.10	DEC 18	4.29	FEB 28	3.47	APR 23	3.60	JUN 20	3.90	AUG 28	3.85
NOV 13	4.04	JAN 28	3.95	MAR 20	4.02	MAY 22	3.86	JUL 19	3.68	SEP 19	3.80

410316071535501. Local number, S 48579.1

LOCATION.--Lat 41°03'16", long 71°53'54", Hydrologic Unit 02030202, at north side of Montauk Highway, adjacent to intersection of Old Montauk Highway, Montauk. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 6 in., depth 68 ft, screened 53 to 56 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 38.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel flange, 1.55 ft below land-surface datum.

PERIOD OF RECORD.--January 1974 to current year. Unpublished records from January 1974 to September 1983 are available in files of Long Island Subdistrict Office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.18 ft NGVD, June 5, 1984; lowest measured, 2.46 ft NGVD, December 22, 1976.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	3.18	DEC 18	3.09	FEB 28	3.30	APR 23	3.82	JUN 20	3.62	AUG 28	3.25
NOV 13	2.99	JAN 28	3.27	MAR 20	3.69	MAY 22	3.46	JUL 19	3.35	SEP 19	3.28

405309073125401. Local number, S 50507.1

LOCATION.--Lat 40°53'09", long 73°12'54", Hydrologic Unit 02030201, at east side of Landing Avenue, 1.5 miles north of Spruce Street, San Remo. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 80 ft, screened 76 to 80 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 90.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.01 ft above land-surface datum.

PERIOD OF RECORD.--December 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.23 ft NGVD, September 19, 1984; lowest measured, 41.51 ft NGVD, December 14, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	45.94	DEC 11	45.87	FEB 20	45.89	APR 26	45.98	JUN 14	45.85	AUG 27	45.66
NOV 19	46.01	JAN 18	45.79	MAR 21	45.93	MAY 24	45.91	JUL 30	45.58	SEP 18	45.42

410104072303301. Local number, S 53324.1
LOCATION.--Lat 41°01'04", long 72°30'33", Hydrologic Unit 02030202, at east side of Alvahs Lane, 200 ft north
of State Route 27A, Southold. Owner: Suffolk County Department of Health Services.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled steel observation well, diameter 8 in., depth 62 ft, screened 49 to 59 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 42.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of
8-in. steel flange, 0.51 ft above land-surface datum.
PERIOD OF RECORD.--October 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.32 ft NGVD, September 28, 1989; lowest measure-
3.52 ft NGVD, November 20, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	7.18	DEC 17	8.47	FEB 25	8.66	APR 25	8.82	JUN 11	8.77	AUG 23	5.83
NOV 26	6.68	JAN 20	8.56	MAR 20	8.76	MAY 28	8.75	JUL 22	8.14	SEP 18	5.66

404642072520001. Local number, S 54882.1
LOCATION.--Lat $40^{\circ}46'42''$, long $72^{\circ}52'00''$, Hydrologic Unit 02030202, at grassy divide between Margin Drive West and William Floyd Parkway, 156 ft south of Ranch Avenue, Center Moriches. Owner: United States Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 34 ft, screened 30 to 34 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 33.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.43 ft below land-surface datum.
PERIOD OF RECORD.--July 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.62 ft NGVD, August 23, 1989; lowest measured, 6.48 ft NGVD, December 16, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	9.14	DEC 26	8.61	FEB 28	9.50	APR 25	9.99	JUN 21	9.90	AUG 22	9.53
NOV 16	8.93	JAN 29	9.45	MAR 20	9.70	MAY 23	10.10	JUL 19	9.37	SEP 16	9.29

405418072494401. Local number, S 54884.1
LOCATION.--Lat $40^{\circ}54'18''$, long $72^{\circ}49'44''$, Hydrologic Unit 02030202, at north corner of Wading River Road and Grumman Boulevard, Manorville. Owner: United States Geological Survey.
AQUIFER.--Upper Glacial (water-table).
WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 45 ft, screened 41 to 45 ft.
INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
DATUM.--Land-surface datum is 63.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.22 ft below land-surface datum.
PERIOD OF RECORD.--June 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.63 ft NGVD, February 1, 1979; lowest measured, 40.50 ft NGVD, November 21, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD. WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

405241072381801. Local number, S 54886.1
 LOCATION.--Lat $40^{\circ}52'41''$, long $72^{\circ}38'18''$, Hydrologic Unit 02030202, at intersection of Old Riverhead Road and Riverhead-Quogue Road, on grass island, Riverhead. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 55 ft, screened 51 to 55 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 59.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.36 ft below land-surface datum.
 PERIOD OF RECORD.--October 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.41 ft NGVD, September 25, 1984; lowest measured, 15.25 ft NGVD, December 29, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	20.37	DEC 26	19.37	FEB 25	19.14	APR 25	19.18	JUN 21	19.36	AUG 22	18.96
NOV 16	19.99	JAN 29	19.25	MAR 20	19.11	MAY 23	19.32	JUL 19	19.14	SEP 16	18.75

405326072275601. Local number, S 57366.1
 LOCATION.--Lat $40^{\circ}53'26''$, long $72^{\circ}27'56''$, Hydrologic Unit 02030202, at west side of Hill Station Road, 172 ft south of railroad trestle, Southampton. Owner: Town of Southampton.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 64 ft, screened 60 to 64 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 55.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.04 ft below land-surface datum.
 PERIOD OF RECORD.--November 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.50 ft NGVD, August 30, 1989; lowest measured, 3.19 ft NGVD, March 13, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	4.37	DEC 17	4.00	FEB 28	3.86	APR 23	4.24	JUN 20	4.14	AUG 28	3.92
NOV 13	4.11	JAN 28	3.97	MAR 21	4.17	MAY 22	4.10	JUL 19	3.90	SEP 19	4.00

410052072134001. Local number, S 57371.1
 LOCATION.--Lat $41^{\circ}00'55''$, long $72^{\circ}13'42''$, Hydrologic Unit 02030202, at west side of Old Northwest Road, 0.95 miles south of Alewife Brook Road, Grassy Hollow. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 62 ft, screened 58 to 62 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 24.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.30 ft below land-surface datum.
 PERIOD OF RECORD.--November 1975 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.31 ft NGVD, April 4, 1979; lowest measured, 5.80 ft NGVD, December 17, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	7.90	DEC 18	7.30	FEB 28	7.68	APR 23	8.21	JUN 20	8.30	AUG 28	7.56
NOV 13	7.55	JAN 28	7.71	MAR 20	7.90	MAY 22	8.51	JUL 19	7.87	SEP 19	7.32

405927072041901. Local number, S 57372.1
 LOCATION.--Lat $40^{\circ}59'27''$, long $72^{\circ}04'19''$, Hydrologic Unit 02030202, at south side of Montauk Highway, 2.4 miles east of Bluff Road, Napeague State Park. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 12 ft, screened 8 to 12 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 8.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.03 ft above land-surface datum.
 PERIOD OF RECORD.--January 1976 to current year. Unpublished records from January 1976 to September 1983 are available in files of Long Island Subdistrict Office.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.23 ft NGVD, July 18, 1989; lowest measured, 2.16 ft NGVD, July 22, 1988.

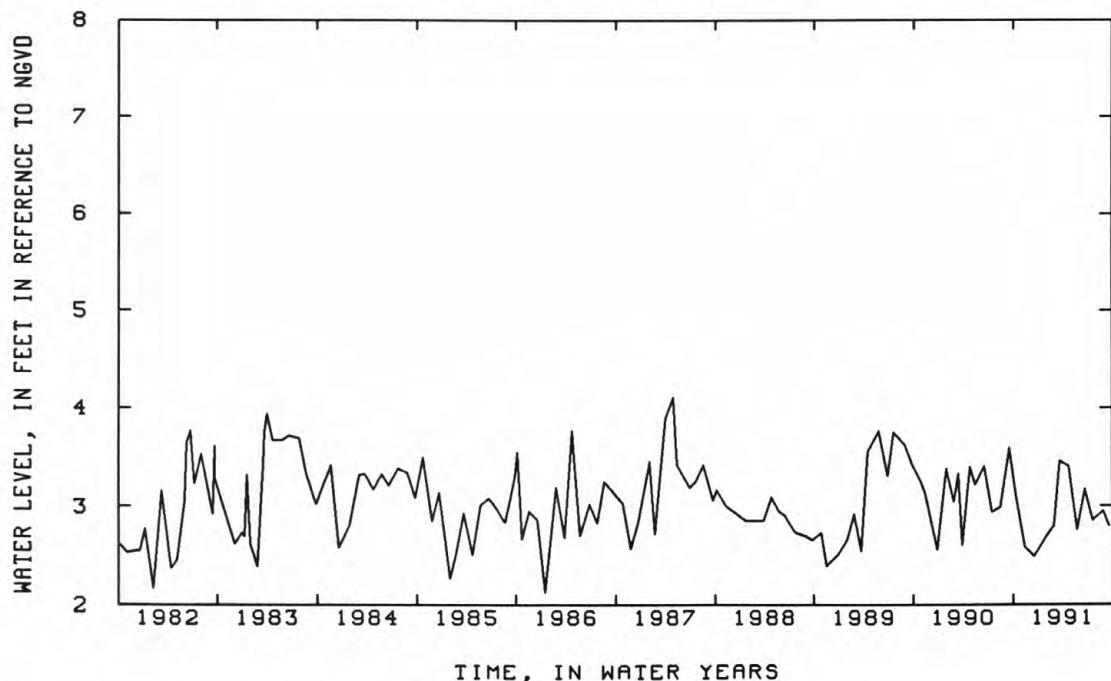
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	2.87	DEC 17	3.14	FEB 28	2.76	APR 23	3.61	JUN 20	2.71	AUG 28	2.47
NOV 13	3.13	JAN 28	3.12	MAR 20	3.83	MAY 22	2.96	JUL 19	2.44	SEP 19	2.85

410040072002501. Local number, S 58921.1
 LOCATION.--Lat $41^{\circ}00'40''$, long $72^{\circ}00'24''$, Hydrologic Unit 02030202, at north side of Montauk Highway, east of Hither Hills State Park entrance, Hither Hills. Owner: Nassau-Suffolk Regional Planning Board.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 75 ft, screened 67 to 72 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 48.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC casing, 0.25 ft below land-surface datum.
 PERIOD OF RECORD.--October 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.11 ft NGVD, April 30, 1987; lowest measured, 2.11 ft NGVD, January 26, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	3.12	DEC 17	2.49	FEB 28	2.80	APR 23	3.41	JUN 20	3.17	AUG 28	2.95
NOV 13	2.58	JAN 28	2.68	MAR 20	3.46	MAY 22	2.76	JUL 19	2.86	SEP 19	2.80



405558072252401. Local number, S 58956.1
 LOCATION.--Lat $40^{\circ}55'57''$, long $72^{\circ}25'43''$, Hydrologic Unit 02030202, at west side of North Sea Road, 107 ft north of Jennings Road, North Sea. Owner: Nassau-Suffolk Regional Planning Board.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 43 ft, screened 35 to 40 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 5.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC casing, 0.81 ft below land-surface datum.
 PERIOD OF RECORD.--October 1976 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.51 ft NGVD, September 16, 1982; lowest measured, 0.19 ft NGVD, January 17, 1983.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	1.32	DEC 18	2.07	FEB 28	1.78	APR 23	1.80	JUN 20	1.56	AUG 28	1.76
NOV 13	0.31	JAN 28	2.16	MAR 22	1.95	MAY 22	0.97	JUL 19	1.25	SEP 19	1.44

405642072240001. Local number, S 59992.1
 LOCATION.--Lat $40^{\circ}58'42''$, long $72^{\circ}24'00''$, Hydrologic Unit 02030202, at southwest corner of Noyack Road and Majors Path, Noyack. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magoth (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 292 ft, screened 268 to 278 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 24.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC casing, 0.31 ft below land-surface datum.
 PERIOD OF RECORD.--November 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.52 ft NGVD, April 17, 1984; lowest measured, 4.46 ft NGVD, June 23, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	5.31	DEC 18	5.20	FEB 28	5.31	APR 23	5.71	JUN 20	5.41	AUG 28	5.32
NOV 13	5.01	JAN 28	5.49	MAR 22	5.60	MAY 22	5.34	JUL 19	5.09	SEP 19	5.12

405559072145901. Local number, S 60123.1
 LOCATION.--Lat $40^{\circ}58'00''$, long $72^{\circ}15'00''$, Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, northern middle well, Wainscott. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magoth (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 280 ft, screened 270 to 280 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 12.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC casing, at yellow arrow, 0.02 ft above land-surface datum.
 PERIOD OF RECORD.--March 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.89 ft NGVD, June 20, 1984; lowest measured, 6.16 ft NGVD, November 18, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	7.77	DEC 17	7.19	FEB 28	7.78	APR 23	7.95	JUN 20	7.37	AUG 28	7.20
NOV 13	7.17	JAN 28	7.86	MAR 21	7.85	MAY 22	7.36	JUL 19	7.10	SEP 19	6.90

405600072150003. Local number, S 62394.1
 LOCATION.--Lat $40^{\circ}56'00''$, long $72^{\circ}15'00''$, Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, southern middle well, Wainscott. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 74 ft, screened 70 to 74 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 12.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.48 ft below land-surface datum.
 PERIOD OF RECORD.--March 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.47 ft NGVD, July 18, 1989; lowest measured, 5.84 ft NGVD, July 2, 1985.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	7.33	DEC 17	6.84	FEB 28	7.36	APR 23	7.78	JUN 20	6.88	AUG 28	6.87
NOV 13	6.98	JAN 28	7.56	MAR 21	7.79	MAY 22	7.31	JUL 19	6.61	SEP 19	6.45

405600072150002. Local number, S 62395.1
 LOCATION.--Lat $40^{\circ}56'00''$, long $72^{\circ}15'00''$, Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, southern most well, Wainscott. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Driven PVC observation well, diameter 2 in., depth 14 ft, screened 10 to 14 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 12.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.51 ft below land-surface datum.
 PERIOD OF RECORD.--March 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.45 ft NGVD, July 18, 1989; lowest measured, 5.90 ft NGVD, October 28, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	7.30	DEC 17	6.85	FEB 28	7.33	APR 23	7.77	JUN 20	6.87	AUG 28	6.86
NOV 13	6.97	JAN 28	7.54	MAR 21	7.79	MAY 22	7.30	JUL 19	6.59	SEP 19	6.46

415843072213401. Local number, S 62402.1
 LOCATION.--Lat $40^{\circ}58'58''$, long $72^{\circ}21'36''$, Hydrologic Unit 02030202, at south end of Club Lane, 587 ft east of Wildwood Road, Noyack. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 84 ft, screened 80 to 84 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 99.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.22 ft below land-surface datum.
 PERIOD OF RECORD.--May 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.32 ft NGVD, June 20, 1984; lowest measured, 32.58 ft NGVD, December 5, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	36.60	DEC 18	35.89	FEB 28	35.46	APR 23	35.75	JUN 20	35.96	AUG 28	35.63
NOV 13	36.11	JAN 28	35.59	MAR 22	35.54	MAY 22	35.96	JUL 19	35.73	SEP 19	35.38

405740073084501. Local number, S 62405.1

LOCATION.--Lat $40^{\circ}57'40''$, long $73^{\circ}06'45''$, Hydrologic Unit 02030201, at Conscience Circle, on southwest corner of grass island, west of Maple Road, Strong's Neck. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered PVC observation well, diameter 2 in., depth 55 ft, screened 51 to 55 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 38.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.29 ft below land-surface datum.

PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.85 ft NGVD, June 25, 1982; lowest measured, 2.79 ft NGVD, March 28, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	3.78	DEC 11	4.06	FEB 13	3.93	APR 28	4.11	JUN 14	3.95	AUG 27	3.78
NOV 19	4.25	JAN 18	3.83	MAR 21	4.03	MAY 24	4.02	JUL 29	3.78	SEP 18	3.79

404813073084102. Local number, S 65601.1

LOCATION.--Lat $40^{\circ}48'13''$, long $73^{\circ}08'41''$, Hydrologic Unit 02030202, at northside of Johnson Avenue, 70 ft east of Terry Road, Ronkonkoma. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 41 ft, screened 38 to 41 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 62.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.20 ft below land-surface datum.

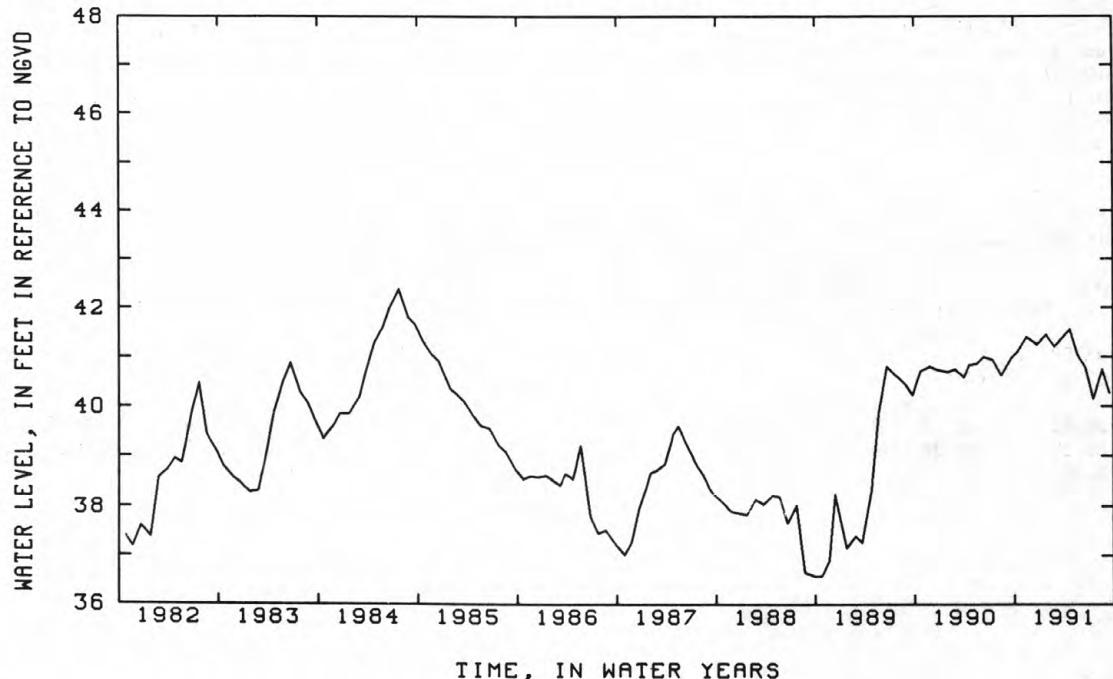
REMARKS.--Replaced well S 1813.2 in September 1978. Record from November 1939 to September 1978 are available in files of Long Island Subdistrict Office.

PERIOD OF RECORD.--September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.39 ft NGVD, July 23, 1984; lowest measured, 36.57 ft NGVD, September 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	41.12	DEC 26	41.24	FEB 28	41.20	MAY 23	41.03	JUL 19	40.16	SEP 16	40.27
NOV 16	41.40	JAN 29	41.45	APR 25	41.56	JUN 21	40.78	AUG 22	40.74		



405030073180601. Local number, S 85602.1

LOCATION.--Lat $40^{\circ}50'30''$, long $73^{\circ}18'06''$, Hydrologic Unit 02030202, at southwest corner of Wilshire Drive and Renee Place, Commack. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 96 ft, screened 91 to 96 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 146.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.19 ft below land-surface datum.

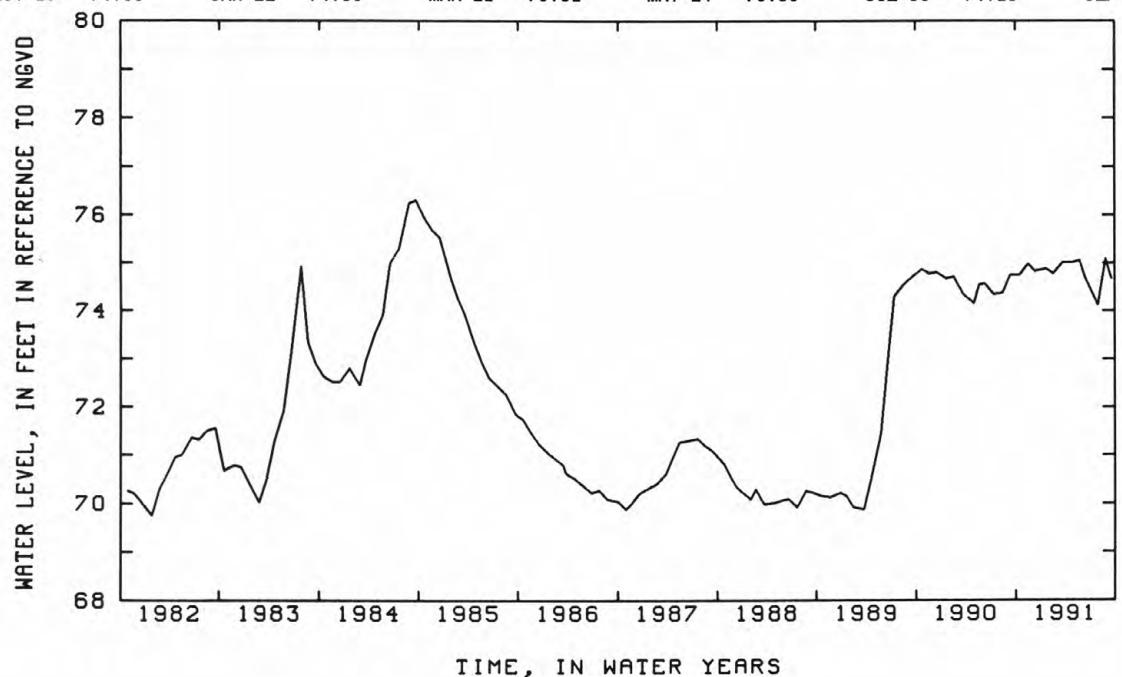
REMARKS.--Replaces well S 3514.1 in September 1978, which has a period of record from May 1942 to September 1978.

PERIOD OF RECORD.--September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.41 ft NGVD, August 28, 1979; lowest measured, 69.74 ft NGVD, January 25, 1982.

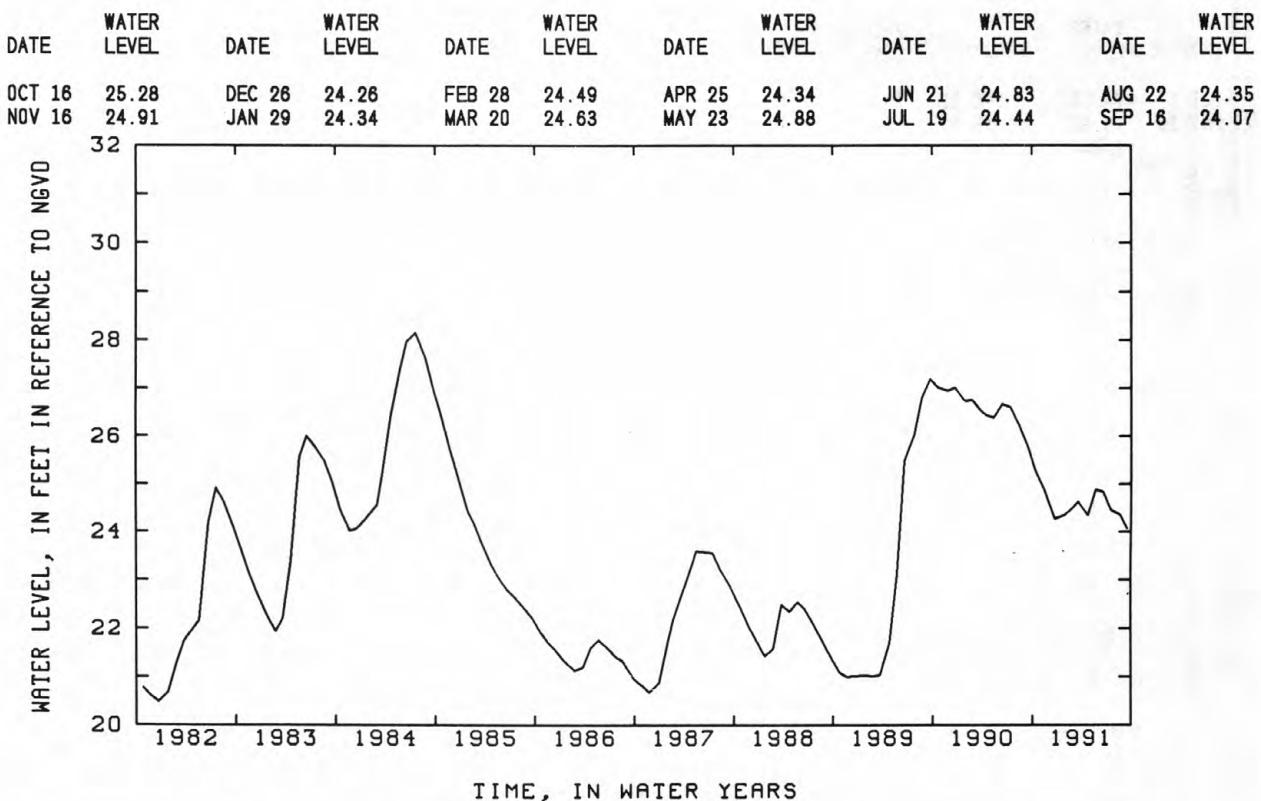
WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	74.75	DEC 12	74.83	FEB 20	74.78	APR 26	75.02	JUN 14	74.72	AUG 27	75.09
NOV 19	74.99	JAN 22	74.89	MAR 21	75.01	MAY 24	75.05	JUL 30	74.13	SEP 18	74.68



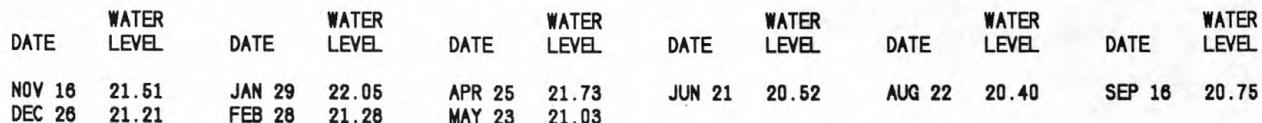
404936072483501. Local number, S 65604.1
 LOCATION.--Lat $40^{\circ}49'36''$, long $72^{\circ}48'35''$, Hydrologic Unit 02030202, at northwest corner of Sunrise Highway Service Road and Wading River Road, Manorville. Owner: United States Geological Survey.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 56 ft, screened 51 to 56 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 64.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.32 ft below land-surface datum.
 REMARKS.--Replaces well S 6439.1 in October 1978, which has a period of record from January 1949 to October 1978.
 PERIOD OF RECORD.--October 1978 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.14 ft NGVD, July 23, 1984; lowest measured, 20.48 ft NGVD, December 21, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



404430073123301. Local number, S 66135.1
 LOCATION.--Lat $40^{\circ}44'30''$, long $73^{\circ}01'33''$, Hydrologic Unit 02030202, at south side of Sunrise Highway, west of Great Neck Road, in grassy area of entrance ramp cloverleaf, Copiague. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magathy (confined).
 WELL CHARACTERISTICS.--Drilled steel observation well, casing diameter 6 in., screen diameter 4 in., depth 168 ft, screened 127 to 137 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 30.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. steel casing, 3.99 ft above land-surface datum.
 PERIOD OF RECORD.--January 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.55 ft NGVD, November 27, 1989; lowest measured, 18.43 ft NGVD, October 24, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991



403935073235001. Local number, S 66136.1
 LOCATION.--Lat $40^{\circ}39'37''$, long $73^{\circ}23'50''$, Hydrologic Unit 02030202, at south side of Kerrigan Road across from Harding Road, eastern most well, Tanner Park, Copiague. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, casing diameter 6 in., screen diameter 4 in., depth 134 ft, screened 124 to 134 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 5.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in. PVC casing, 2.43 ft above land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation.
 PERIOD OF RECORD.--October 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.79 ft NGVD, March 4, 1991; lowest measured, 3.37 ft NGVD, September 13, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	3.64	JAN 25	3.80	APR 3	3.60	JUN 27	3.55	AUG 28	3.76	SEP 30	3.69
JAN 4	3.93	MAR 4	4.79	MAY 31	4.02	JUL 18	3.43				

404524073123401. Local number, S 66149.1
 LOCATION.--Lat $40^{\circ}45'24''$, long $73^{\circ}12'34''$, Hydrologic Unit 02030202, at southeast corner of State Route 111 and Spur Drive North, near Southern Parkway exit ramp, Islip. Owner: Suffolk County Department of Environmental Conservation.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 167 ft, screened 157 to 167 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 40.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC casing, 2.33 ft below land-surface datum.
 PERIOD OF RECORD.--January 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.92 ft NGVD, May 22 and June 22, 1989; lowest measured, 20.55 ft NGVD, March 7, 1980.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	25.08	DEC 26	25.06	FEB 28	24.84	APR 25	25.19	JUN 21	24.13	AUG 22	24.29
NOV 18	25.37	JAN 29	25.51	MAR 21	25.32	MAY 23	24.50	JUL 19	23.35	SEP 16	23.94

403935073235002. Local number, S 67537.1
 LOCATION.--Lat $40^{\circ}39'37''$, long $73^{\circ}23'50''$, Hydrologic Unit 02030202, at south side of Kerrigan Road, across from Harding Road, eastern middle well, Tanner Park, Copiague. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 61 ft, screened 56 to 61 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 7.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC casing, 0.28 ft below land-surface datum.
 REMARKS.--Water level affected by tidal fluctuation. Well also sampled for water quality.
 PERIOD OF RECORD.--December 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.48 ft NGVD, August 21, 1990; lowest measured, 1.28 ft NGVD, December 18, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	1.37	JAN 25	1.35	APR 3	1.39	JUN 27	1.52	AUG 28	1.64	SEP 30	1.53
JAN 4	1.58	MAR 4	1.80	MAY 31	1.87	JUL 18	1.44				

405529073272901. Local number, S 69781.1

LOCATION.--Lat $40^{\circ}55'29''$, long $73^{\circ}27'29''$, Hydrologic Unit 02030201, at Caumsett State Park, 1 mile northeast of parking field, on park service road, Lloyd Neck. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 155 ft, screened 139 to 149 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 109.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.66 ft below land-surface datum.

PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.85 ft NGVD, July 13, 1990; lowest measured, 6.44 ft NGVD, March 22, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	9.13	DEC 12	8.57	FEB 20	8.15	APR 26	8.51	JUN 17	8.54	AUG 27	8.14
NOV 19	8.83	JAN 22	8.23	MAR 22	8.30	MAY 28	8.54	JUL 30	8.26	SEP 18	7.94

410343071533101. Local number, S 70282.1

LOCATION.--Lat $41^{\circ}03'43''$, long $71^{\circ}53'31''$, Hydrologic Unit 02030202, at south side of Montauk Point State Parkway, 110 ft west of Highway Marker 27 0705 19.02, Montauk. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 168 ft, screened 158 to 163 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

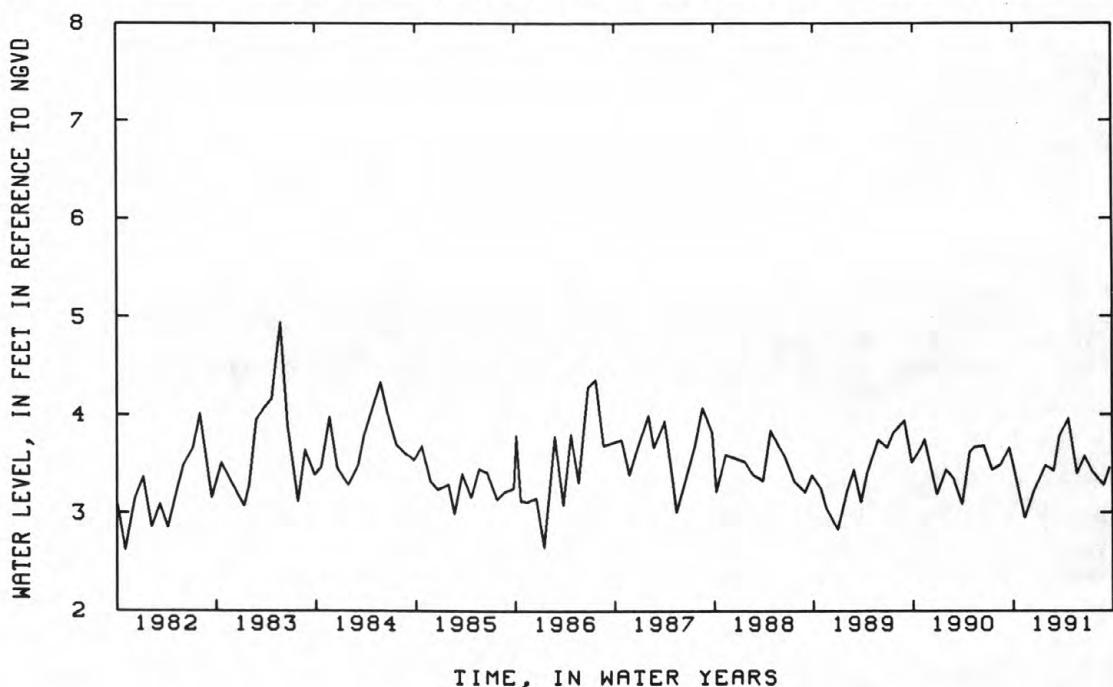
DATUM.--Land-surface datum is 50.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.32 ft below land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.94 ft NGVD, May 23, 1983; lowest measured, 2.62 ft NGVD, November 3, 1981.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	3.37	DEC 18	3.24	FEB 28	3.43	APR 23	3.96	JUN 20	3.58	AUG 28	3.28
NOV 13	2.95	JAN 28	3.48	MAR 20	3.78	MAY 22	3.40	JUL 19	3.42	SEP 19	3.46



405801072354401. Local number, S 71576.1
 LOCATION.--Lat $40^{\circ}58'01''$, long $72^{\circ}35'44''$, Hydrologic Unit 02030202, at east side of Manor Lane, 1.6 miles north of Main Road, southern middle well, Jamesport. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 448 ft, screened 443 to 448 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 53.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 1.16 ft below land-surface datum.
 PERIOD OF RECORD.--February 1982 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.02 ft NGVD, September 27, 1984; lowest measured, 7.44 ft NGVD, February 4, 1982.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	9.19	DEC 17	8.29	FEB 22	8.56	APR 25	8.74	JUN 11	8.66	AUG 23	7.95
NOV 26	8.41	FEB 1	8.44	MAR 20	8.76	MAY 28	8.69	JUL 22	7.99	SEP 18	7.93

405642072240003. Local number, S 73993.1
 LOCATION.--Lat $40^{\circ}58'42''$, long $72^{\circ}24'00''$, Hydrologic Unit 02030202, at southwest corner of Noyack Road and Majors Path, North Sea. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 1 1/4 in., depth 238 ft, screened 230 to 235 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 24.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. PVC casing, 0.51 ft below land-surface datum.
 PERIOD OF RECORD.--April 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.47 ft NGVD, April 17, 1984; lowest measured, 4.43 ft NGVD, September 23, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	5.28	DEC 18	5.16	FEB 28	5.29	APR 23	5.89	JUN 20	5.42	AUG 28	5.32
NOV 13	4.96	JAN 28	5.46	MAR 22	5.57	MAY 22	5.33	JUL 19	5.06	SEP 19	5.09

405600072150005. Local number, S 73994.1
 LOCATION.--Lat $40^{\circ}58'00''$, long $72^{\circ}15'00''$, Hydrologic Unit 02030202, at southwest corner of Wainscott Hollow Road and Wainscott Main Street, northern most well, Wainscott. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 1 1/4 in., depth 303 ft, screened 298 to 303 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 12.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. PVC casing, at land-surface datum.
 PERIOD OF RECORD.--March 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.52 ft NGVD, June 20, 1984; lowest measured, 4.30 ft NGVD, October 28, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	5.67	DEC 17	5.10	FEB 28	5.66	APR 23	5.85	JUN 20	5.28	AUG 28	5.11
NOV 13	5.09	JAN 28	5.76	MAR 21	5.75	MAY 22	5.27	JUL 19	5.01	SEP 19	4.80

405858072213501. Local number, S 73998.1

LOCATION.--Lat $40^{\circ}58'58''$, long $72^{\circ}21'35''$, Hydrologic Unit 02030202, at south end of Club Lane, 624 ft west of Wildwood Road, near Highway Department entrance, southern most well, Noyack. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 1 1/4 in., depth 803 ft, screened 795 to 800 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 99.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 1/4-in. steel casing, 0.2 ft below land-surface datum.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.73 ft NGVD, August 30, 1989; lowest measured, 4.00 ft NGVD, December 5, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	5.72	DEC 18	5.60	FEB 28	5.44	APR 23	5.87	JUN 20	5.48	AUG 28	5.28
NOV 13	5.10	JAN 28	5.61	MAR 22	5.57	MAY 22	5.35	JUL 19	5.13	SEP 19	5.48

405858072213602. Local number, S 73999.1

LOCATION.--Lat $40^{\circ}58'58''$, long $72^{\circ}21'35''$, Hydrologic Unit 02030202, at south end of Club Lane, 624 ft west of Wildwood Road, near Highway Department entrance, northern most well, Noyack. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 3 in., depth 597 ft, screened 584 to 594 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 99.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3-in. steel casing, 0.35 ft below land-surface datum.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.63 ft NGVD, April 17, 1984; lowest measured, 8.73 ft NGVD, December 18, 1990.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 11	10.78	JAN 28	10.74	MAR 22	10.73	MAY 22	10.37	JUL 19	10.16	SEP 19	10.45
NOV 13	10.18	FEB 28	10.53	APR 23	10.90	JUN 20	10.51	AUG 28	10.32		

405322072454101. Local number, S 74292.1

LOCATION.--Lat $40^{\circ}53'23''$, long $72^{\circ}45'43''$, Hydrologic Unit 02030202, at south side of Mill Road, opposite Primrose Path, Brookhaven. Owner: United States Geological Survey.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 56 ft, screened 52 to 56 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 73.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.22 ft NGVD, June 21, 1984; lowest measured, 33.64 ft NGVD, December 29, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	39.76	DEC 14	38.68	FEB 21	39.10	APR 24	39.39	JUN 11	39.84	AUG 23	38.85
NOV 21	39.10	FEB 1	38.82	MAR 20	39.14	JUN 4	39.81	JUL 22	39.33	SEP 18	38.53

404433073244903. Local number, S 74586.1
 LOCATION.--Lat $40^{\circ}44'33''$, long $73^{\circ}24'49''$, Hydrologic Unit 02030202, at northwest corner of New Highway and Conklin Street, north of Long Island Railroad tracks, western most well, Pinelawn. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 441 ft, screened 433 to 438 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 86.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.90 ft below land-surface datum.
 PERIOD OF RECORD.--April 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.33 ft NGVD, June 5, 1984; lowest measured, 50.58 ft NGVD, October 24, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	57.70	DEC 26	58.00	FEB 28	57.72	APR 25	58.31	JUN 21	57.12	AUG 22	56.64
NOV 16	58.52	JAN 29	58.67	MAR 20	58.35	MAY 23	57.76	JUL 19	55.85	SEP 16	56.81

404433073244904. Local number, S 74587.1
 LOCATION.--Lat $40^{\circ}44'43''$, long $73^{\circ}24'49''$, Hydrologic Unit 02030202, at northwest corner of New Highway and Conklin Street, north of Long Island Railroad tracks, middle well, Pinelawn. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magothy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 196 ft, screened 188 to 193 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 86.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.22 ft below land-surface datum.
 PERIOD OF RECORD.--April 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.94 ft NGVD, June 5, 1984; lowest measured, 50.80 ft NGVD, September 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	58.65	DEC 26	58.88	FEB 28	59.13	APR 25	59.26	JUN 21	58.42	AUG 22	58.00
NOV 13	59.46	JAN 29	59.73	MAR 20	59.48	MAY 23	58.99	JUL 19	57.46	SEP 16	57.81

404433073244905. Local number, S 75033.1
 LOCATION.--Lat $40^{\circ}44'33''$, long $73^{\circ}24'49''$, Hydrologic Unit 02030202, at northwest corner of New Highway and Conklin Street, north of Long Island Railroad tracks, eastern most well, Pinelawn. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 82 ft, screened 47 to 52 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 86.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.51 ft below land-surface datum.
 REMARKS.--Well also sampled for water quality.
 PERIOD OF RECORD.--April 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.19 ft NGVD, June 5, 1984; lowest measured, 51.81 ft NGVD, October 24, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	58.76	DEC 26	59.00	FEB 28	59.31	APR 25	59.36	JUN 21	58.57	AUG 22	58.18
NOV 16	59.57	JAN 29	59.88	MAR 20	59.61	MAY 23	59.13	JUL 19	57.65	SEP 16	57.92

404433073244902. Local number, S 75034.2

LOCATION.--Lat $40^{\circ}44'33''$, long $73^{\circ}24'49''$, Hydrologic Unit 02030202, at northwest corner of New Highway and Conklin Street, north of Long Island Railroad tracks, northern middle well, Pinelawn. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 698 ft, screened 688 to 693 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 86.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.28 ft below land-surface datum.

PERIOD OF RECORD.--April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.57 ft NGVD, June 9, 1984; lowest measured, 50.12 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	57.09	DEC 26	57.46	FEB 28	57.04	APR 25	57.75	JUN 21	58.43	AUG 22	55.82
NOV 18	57.98	JAN 29	58.08	MAR 20	57.79	MAY 23	57.06	JUL 19	55.06	SEP 16	56.23

404859073194002. Local number, S 75454.2

LOCATION.--Lat $40^{\circ}48'59''$, long $73^{\circ}19'40''$, Hydrologic Unit 02030202, at Dix Hills Park and Golf Course, 180 ft west of DeForest Road, 154 ft north of parking lot, northern most well, Dix Hills. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 740 ft, screened 730 to 735 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 230.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel casing, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.05 ft NGVD, March 21, 1991; lowest measured, 63.34 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	72.64	DEC 12	73.40	FEB 20	74.03	APR 26	73.98	JUN 14	73.88	AUG 27	73.17
NOV 19	73.24	JAN 22	73.59	MAR 21	74.05	MAY 24	72.69	JUL 30	73.04	SEP 18	72.69

404859073194003. Local number, S 75455.1

LOCATION.--Lat $40^{\circ}48'59''$, long $73^{\circ}19'40''$, Hydrologic Unit 02030202, at Dix Hills Park and Golf Course, 180 ft west of DeForest Road, 144 ft north of parking lot, middle well, Dix Hills. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 508 ft, screened 500 to 505 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 230.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.32 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.45 ft NGVD, March 21, 1991; lowest measured, 63.86 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	73.04	DEC 12	73.77	FEB 20	74.41	APR 26	74.41	JUN 14	74.10	AUG 27	73.55
NOV 19	73.60	JAN 22	74.00	MAR 21	74.45	MAY 24	74.17	JUL 30	73.51	SEP 18	73.21

404859073194004. Local number, S 75456.1

LOCATION.--Lat $40^{\circ}48'59''$, long $73^{\circ}01'40''$, Hydrologic Unit 02030202, at Dix Hills Park and Golf Course, 180 ft west of DeForest Road, 134 ft north of parking lot, southern most well, Dix Hills. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 203 ft, screened 195 to 200 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 230.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.98 ft below land-surface datum.

PERIOD OF RECORD.--March 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.87 ft NGVD, April 28, 1991; lowest measured, 71.50 ft NGVD, September 16, 1987.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	77.28	DEC 12	78.02	FEB 20	78.69	APR 26	78.87	JUN 14	78.78	AUG 27	78.75
NOV 19	77.76	JAN 22	78.47	MAR 21	78.81	MAY 24	78.86	JUL 30	78.52	SEP 18	78.72

404530073181102. Local number, S 76016.2

LOCATION.--Lat $40^{\circ}45'30''$, long $73^{\circ}01'11''$, Hydrologic Unit 02030202, at south side of Burt Drive, 150 ft west of West Jefrynn Boulevard, western most well, Deer Park. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 782 ft, screened 752 to 757 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 63.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.33 ft below land-surface datum.

PERIOD OF RECORD.--June 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.77 ft NGVD, November 16, 1990; lowest measured, 38.98 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	45.61	DEC 26	46.01	FEB 28	45.59	APR 25	46.57	JUN 21	45.27	AUG 22	44.19
NOV 16	46.77	JAN 29	46.18	MAR 20	46.01	MAY 23	45.14	JUL 19	42.28	SEP 16	43.55

404530073181103. Local number, S 76017.1

LOCATION.--Lat $40^{\circ}45'30''$, long $73^{\circ}01'11''$, Hydrologic Unit 02030202, at south side of Burt Drive, 150 ft west of West Jefrynn Boulevard, eastern middle well, Deer Park. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 503 ft, screened 495 to 500 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 63.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.35 ft below land-surface datum.

PERIOD OF RECORD.--June 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.50 ft NGVD, November 16, 1990; lowest measured, 39.22 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	45.48	DEC 26	45.81	FEB 28	45.33	APR 25	46.22	JUN 21	44.91	AUG 22	43.71
NOV 16	46.50	JAN 29	46.00	MAR 20	45.71	MAY 23	44.75	JUL 19	41.91	SEP 16	43.16

404530073181104. Local number, S 76018.1
 LOCATION.--Lat $40^{\circ}45'30''$, long $73^{\circ}18'11''$, Hydrologic Unit 02030202, at south side of Burt Drive, 150 ft west of West Jefrym Boulevard, western middle well, Deer Park. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Magathy (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 194 ft, screened 186 to 191 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 63.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.24 ft below land-surface datum.
 PERIOD OF RECORD.--June 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.08 ft NGVD, November 18, 1990; lowest measured, 38.46 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	46.26	DEC 26	46.54	FEB 28	45.79	APR 25	46.48	JUN 21	45.28	AUG 22	43.96
NOV 16	47.08	JAN 29	46.70	MAR 20	46.36	MAY 23	45.22	JUL 19	42.21	SEP 16	43.39

404530073181105. Local number, S 76019.1
 LOCATION.--Lat $40^{\circ}45'30''$, long $73^{\circ}18'11''$, Hydrologic Unit 02030202, at south side of Burt Drive, 150 ft west of West Jefrym Boulevard, eastern most well, Deer Park. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 2 in., depth 62 ft, screened 57 to 62 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 63.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. PVC coupling, 0.14 ft below land-surface datum.
 PERIOD OF RECORD.--September 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.11 ft NGVD, October 18, 1990; lowest measured, 50.44 ft NGVD, January 24, 1989.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	56.11	DEC 26	54.77	FEB 28	54.42	APR 25	54.76	JUN 21	54.56	AUG 22	55.28
NOV 13	55.28	JAN 29	54.97	MAR 20	54.77	MAY 23	54.27	JUL 19	53.78	SEP 16	54.23

405317072331902. Local number, S 77435.1
 LOCATION.--Lat $40^{\circ}53'17''$, long $72^{\circ}33'18''$, Hydrologic Unit 02030202, at south side of dirt road, 145 ft east of Riverhead-Hampton Bays Road (Rt. 24), 195 ft south of Bellows Pond Road, eastern most well, Rampasture. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 27 ft, screened 25 to 27 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 18.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.36 ft below land-surface datum.
 PERIOD OF RECORD.--March 1985 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.04 ft NGVD, April 19, 1990; lowest measured, 6.77 ft NGVD, October 28, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	8.89	DEC 26	8.67	FEB 25	9.06	APR 25	9.39	JUN 21	8.90	AUG 22	8.81
NOV 16	8.74	JAN 29	9.40	MAR 20	9.41	MAY 23	9.22	JUL 19	8.34	SEP 16	8.29

405317072331903. Local number, S 77436.2

LOCATION.--Lat $40^{\circ}53'17''$, long $72^{\circ}33'18''$, Hydrologic Unit 02030202, at south side of dirt road, 138 ft east of Riverhead-Hampton Bays Road (Rt. 24), 195 ft south of Bellows Pond Road, western most well, Rampasture.

Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 508 ft, screened 500 to 505 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 18.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.41 ft below land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.24 ft NGVD, August 23, 1989; lowest measured, 6.94 ft NGVD, September 22, 1986.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	8.91	DEC 26	8.44	FEB 25	8.93	APR 25	9.19	JUN 21	8.89	AUG 22	8.47
NOV 16	8.74	JAN 29	9.08	MAR 20	9.17	MAY 23	9.10	JUL 19	8.43	SEP 16	8.26

403935073235003. Local number, S 79407.1

LOCATION.--Lat $40^{\circ}39'37''$, long $73^{\circ}23'50''$, Hydrologic Unit 02030202, at south side of Kerrigan Road, across from Harding Road, western middle well, Tanner Park, Copiaque. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 1,219 ft, screened 1,192 to 1,214 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 7.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of removable extension, 10.39 ft above land-surface datum.

REMARKS.--Water level affected by tidal fluctuation. Flowing well, measurement taken from top of removable calibrated PVC extension.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.98 ft NGVD, April 3, 1991; lowest measured, 14.07 ft NGVD, September 30, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	17.32	JAN 25	17.81	JUN 27	17.64	JUL 18	17.26	AUG 28	16.69	SEP 30	16.56
JAN 4	17.87	APR 3	17.98								

403935073235004. Local number, S 79408.1

LOCATION.--Lat $40^{\circ}39'37''$, long $73^{\circ}23'50''$, Hydrologic Unit 02030202, at south side of Kerrigan Road, across from Harding Road, western most well, Tanner Park, Copiaque. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 4 in., depth 680 ft, screened 670 to 675 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by USGS personnel.

DATUM.--Land-surface datum is 7.8 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. steel coupling, 0.58 ft below land-surface datum.

REMARKS.--Water level affected by tidal fluctuation.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.22 ft NGVD, March 4, 1991; lowest measured, 5.28 ft NGVD, July 18, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	6.25	JAN 25	6.57	APR 3	6.28	JUN 27	5.71	AUG 28	6.04	SEP 30	5.97
JAN 4	6.58	MAR 4	7.22	MAY 31	6.23	JUL 18	5.45				

405604073064302. Local number, S 81831.1
 LOCATION.--Lat $40^{\circ}56'04''$, long $73^{\circ}06'43''$, Hydrologic Unit 02030201, at north side of Route 25A, 199 ft west of Ridgeway Avenue, East Setauket. Owner: Suffolk County Department of Environmental Conservation.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 470 ft, screened 462 to 467 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 94.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.96 ft below land-surface datum.

REMARKS.--Well also sampled for water quality.

PERIOD OF RECORD.--March 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.03 ft NGVD, February 13, 1991; lowest measured, 18.77 ft NGVD, August 23, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 17	22.87	DEC 11	23.00	FEB 13	24.03	APR 26	23.55	JUN 14	22.49	AUG 27	21.78
NOV 19	23.70	JAN 18	23.60	MAR 21	23.89	MAY 24	22.78	JUL 29	22.22	SEP 18	21.53

405536072375301. Local number, S 82938.1

LOCATION.--Lat $40^{\circ}55'36''$, long $72^{\circ}37'53''$, Hydrologic Unit 02030202, at north side of entrance road, Indian Island Park, 107 ft east of restroom facilities, Riverhead. Owner: Suffolk County Department of Health Services.

AQUIFER.--Lloyd (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 1,022 ft, screened 1,010 to 1,022 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 21.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.14 ft below land-surface datum.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.11 ft NGVD, April 27, 1990; lowest measured, 15.55 ft NGVD, October 23, 1987.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	17.47	DEC 14	17.03	FEB 21	17.27	APR 25	17.50	JUN 11	17.41	AUG 23	16.99
NOV 21	17.32	FEB 1	16.91	MAR 20	17.01	MAY 28	17.43	JUL 22	18.90	SEP 18	16.91

405536072375302. Local number, S 82939.1

LOCATION.--Lat $40^{\circ}55'36''$, long $72^{\circ}37'53''$, Hydrologic Unit 02030202, at north side of entrance, Indian Island Park, 107 ft east of restroom facilities, Riverhead. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 162 ft, screened 155 to 162 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 21.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.03 ft below land surface datum.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.11 ft NGVD, August 22, 1989; lowest measured, 2.61 ft NGVD, December 29, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	3.37	DEC 14	3.04	FEB 21	3.21	APR 25	3.76	JUN 11	3.52	AUG 23	3.55
NOV 21	3.35	FEB 1	3.16	MAR 20	3.71	MAY 28	3.39	JUL 22	3.07	SEP 18	3.22

405641072341602. Local number, S 83709.1

LOCATION.--Lat $40^{\circ}56'41''$, long $72^{\circ}34'16''$, Hydrologic Unit 02030202, at east side of state boat ramp, Jamesport, 118 ft south of Peconic Bay Boulevard, western most well, Jamesport. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 161 ft, screened 153 to 158 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.06 ft below land-surface datum.

PERIOD OF RECORD.--June 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.02 ft NGVD, August 22, 1989; lowest measured, 1.65 ft NGVD, April 27, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	4.32	DEC 14	3.79	FEB 22	4.27	APR 25	4.53	JUN 11	4.34	AUG 23	4.16
NOV 26	3.79	FEB 1	3.57	MAR 20	4.25	MAY 28	4.36	JUL 22	3.94	SEP 18	4.01

405641072341604. Local number, S 83792.1

LOCATION.--Lat $40^{\circ}56'41''$, long $72^{\circ}34'16''$, Hydrologic Unit 02030202, at eastside of state boat ramp, Jamesport, 118 ft south of Peconic Bay Boulevard, eastern most well, Jamesport. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered steel observation well, diameter 2 in., depth 18 ft, screened 16 to 18 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 6.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.29 ft above land-surface datum.

PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.49 ft NGVD, July 21, 1989; lowest measured, 0.92 ft NGVD, December 29, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	1.84	DEC 14	1.31	FEB 21	1.23	APR 25	1.96	JUN 11	1.81	AUG 23	2.03
NOV 26	1.29	FEB 1	1.14	MAR 20	1.90	MAY 28	1.76	JUL 22	1.54	SEP 18	1.66

404846072533204. Local number, S 84806.1

LOCATION.--Lat $40^{\circ}48'46''$, long $72^{\circ}53'32''$, Hydrologic Unit 02030202, at north side of dirt road, 227 ft west of Carman's River, eastern most well, Southhaven County Park, Yaphank. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magathy (confined).

WELL CHARACTERISTICS.--Drilled PVC to steel observation well, diameter 8 in. from surface to 75 ft, and 2 in. from 75 ft to bottom, depth 849 ft, screened 839 to 849 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by USGS personnel.

DATUM.--Land-surface datum is 17.6 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel meter box rim, 0.01 ft above land-surface datum.

PERIOD OF RECORD.--March 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.81 ft NGVD, June 15, 1990; lowest measured, 21.74 ft NGVD, March 23, 1987, and September 30, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	24.38	JAN 25	24.35	MAR 20	25.21	MAY 31	24.86	JUL 18	23.98	SEP 30	24.10
JAN 4	24.11	MAR 4	24.21	APR 19	24.75	JUN 27	24.28	AUG 28	24.32		

404846072533201. Local number, S 84807.1

LOCATION.--Lat $40^{\circ}48'46''$, long $72^{\circ}53'32''$, Hydrologic Unit 02030202, at north side of dirt road, 253 ft west of Carman's River, western most well, Southaven County Park, Yaphank. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (confined).

WELL CHARACTERISTICS.--Drilled PVC to steel observation well, diameter 8 in. from surface to 94 ft, and 4 in. from 94 ft to bottom, depth 556 ft, screened 545 to 556 ft.

INSTRUMENTATION.--Measurement with clear plastic tube extension and stadia rod by USGS personnel.

DATUM.--Land-surface datum is 17.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of steel meter box rim, 0.03 ft below land-surface datum.

PERIOD OF RECORD.--March 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.45 ft NGVD, June 15, 1990; lowest measured, 19.50 ft NGVD, September 30, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	21.27	JAN 25	21.37	APR 19	21.78	JUN 27	21.08	AUG 28	21.87	SEP 30	21.31
JAN 4	21.14	MAR 4	21.55	MAY 31	21.56	JUL 18	20.94				

404846072533203. Local number, S 84808.1

LOCATION.--Lat $40^{\circ}48'46''$, long $72^{\circ}53'32''$, Hydrologic Unit 02030202, at north side of dirt road, 240 ft west of Carman's River, eastern middle well, Southaven County Park, Yaphank. Owner: Suffolk County Department of Health Services.

AQUIFER.--Magothy (water-table).

WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 109 ft, screened 101 to 106 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.21 ft above land-surface datum.

PERIOD OF RECORD.--March 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.73 ft NGVD, March 4, 1991; lowest measured, 10.31 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	11.28	JAN 25	10.67	MAR 20	11.58	APR 19	11.45	JUN 27	11.14	AUG 28	11.21
JAN 4	11.52	MAR 4	11.73	APR 3	11.60	MAY 31	11.40	JUL 18	10.94	SEP 30	10.97

404846072533202. Local number, S 85712.1

LOCATION.--Lat $40^{\circ}48'46''$, long $72^{\circ}53'32''$, Hydrologic Unit 02030202, at north side of dirt road, 246 ft west of Carman's River, western middle well, Southaven County Park, Yaphank. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Drilled steel observation well, diameter 2 in., depth 22 ft, screened 21 to 22 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 17.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in. steel coupling, 0.52 ft below land-surface datum.

PERIOD OF RECORD.--March 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.19 ft NGVD, June 9, 1988; lowest measured, 10.17 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
NOV 26	11.15	JAN 25	11.51	MAR 20	11.44	APR 19	11.32	JUN 27	11.02	AUG 28	11.06
JAN 4	11.38	MAR 4	11.68	APR 3	11.37	MAY 31	11.27	JUL 18	10.81	SEP 30	10.83

404433073244906. Local number, S 87041.1
 LOCATION.--Lat $40^{\circ}44'33''$, long $73^{\circ}24'49''$, Hydrologic Unit 02030202, at northwest corner of New Highway and Conklin Street, north of Long Island Railroad tracks, northern most well, Pinelawn. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Lloyd (confined).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 983 ft, screened 968 to 978 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 88.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.28 ft above land-surface datum.
 PERIOD OF RECORD.--June 1987 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.63 ft NGVD, March 20, 1991; lowest measured, 22.84 ft NGVD, August 22, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	28.78	DEC 26	27.60	FEB 28	28.12	APR 25	28.61	JUN 21	27.80	AUG 22	26.67
NOV 13	27.26	JAN 29	28.01	MAR 20	28.63	MAY 23	28.36	JUL 19	25.85	SEP 16	26.49

405801072354404. Local number, S 91812.1
 LOCATION.--Lat $40^{\circ}58'01''$, long $72^{\circ}35'44''$, Hydrologic Unit 02030202, at east side of Manor Lane, south of Sound Avenue, 175 ft north of power lines, northern most well, Jamesport. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 99 ft, screened 91 to 96 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 53.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.41 ft below land-surface datum.
 PERIOD OF RECORD.--September 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.73 ft NGVD, May 15, 1990; lowest measured, 8.20 ft NGVD, October 3, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	9.70	DEC 17	8.70	FEB 22	8.96	APR 25	9.20	JUN 11	9.07	AUG 23	8.31
NOV 28	8.87	FEB 1	8.96	MAR 20	9.10	MAY 28	9.11	JUL 22	9.51	SEP 18	8.27

405801072354405. Local number, S 91813.1
 LOCATION.--Lat $40^{\circ}58'01''$, long $72^{\circ}35'44''$, Hydrologic Unit 02030202, at east side of Manor Lane, south of Sound Avenue, 188 ft north of power lines, northern middle well, Jamesport. Owner: Suffolk County Department of Health Services.
 AQUIFER.--Upper Glacial (water-table).
 WELL CHARACTERISTICS.--Drilled PVC observation well, diameter 4 in., depth 199 ft, screened 191 to 196 ft.
 INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.
 DATUM.--Land-surface datum is 53.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.20 ft below land-surface datum.
 PERIOD OF RECORD.--September 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.78 ft NGVD, November 21, 1989; lowest measured, 5.75 ft NGVD, November 4, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 18	10.80	DEC 17	8.45	FEB 22	9.58	APR 25	9.77	JUN 11	9.64	AUG 23	8.77
NOV 26	9.67	FEB 1	9.34	MAR 20	9.67	MAY 28	9.74	JUL 22	8.86	SEP 18	8.86

410038072284202. Local number, S 91814.1

LOCATION.--Lat $40^{\circ}58'01''$, long $72^{\circ}35'44''$, Hydrologic Unit 02030202, at east side of Manor Lane, south of Sound Avenue, 155 ft north of power lines, southern most well, Jamesport. Owner: Suffolk County Department of Health Services.

AQUIFER.--Upper Glacial (water-table).

WELL CHARACTERISTICS.--Augered PVC observation well, diameter 4 in., depth 77 ft, screened 67 to 72 ft.

INSTRUMENTATION.--Measurement with chalked tape by USGS personnel.

DATUM.--Land-surface datum is 53.0 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in. PVC coupling, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.69 ft NGVD, June 18, 1990; lowest measured, 5.77 ft NGVD, October 31 and November 4, 1988.

WATER LEVEL, IN FEET IN REFERENCE TO NGVD, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	WATER LEVEL										
OCT 16	9.76	DEC 17	9.45	FEB 22	9.58	APR 25	9.78	JUN 11	9.70	AUG 23	8.77
NOV 26	9.68	FEB 1	9.24	MAR 20	8.68	MAY 28	9.72	JUL 22	8.70	SEP 18	8.86

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
NASSAU COUNTY

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STATION	NUMBER	LOCAL IDENT-FIER	GEO-LOGIC UNIT	DATE	DEPTH OF WELL TOTAL (FEET) (72008)	SPECIFIC CONDUCTANCE (US/CM) (00094)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)		
404310073280102		N 1250. 2	112GLCLU	11-07-90	34	358	8.4	15.5	4.8	26		
404059073254002		N 1253. 2	112GLCLU	11-07-90	29	568	8.1	13.5	1.5	40		
403517073430704		N 6704. 1	211MGTY	04-25-91	298	82	8.2	14.5	1.4	1.1		
404544073265502		N 7397. 2	112GLCLU	05-30-91	101	279	5.9	12.5	9.9	5.8		
403558073302704		N 8414. 2	211LLYD	03-11-91	1080	153	8.3	17.0	0.4	0.2		
404845073440901		N 10100. 1	211LLYD	06-26-91	310	209	8.1	13.0	0.9	21		
404622073330701		N 11457. 1	211LLYD	07-22-91	865	524	8.6	14.0	5.0	2.6		
404625073330701		N 11458. 1	211MGTY	07-18-91	625	35	8.3	12.5	7.5	1.4		
404012073314101		N 11578. 1	211LLYD	06-21-91	955	68	8.2	14.0	0.3	0.7		
404012073314102		N 11579. 1	211MGTY	06-21-91	695	36	5.6	13.0	0.4	0.5		
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00615)	NITRO-NITRATE, DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN NO2+N03 TOTAL (MG/L AS N) (00630)
11-07-90		5.7	29	2.7	58	22	46	<0.1	7.0	0.014	0.016	2.3
11-07-90		5.1	67	4.5	38	30	150	<0.1	14	0.004	0.002	<0.10
04-25-91		1.0	6.1	2.6	9.5	7.0	9.1	<0.1	7.7	0.006	0.004	<0.05
05-30-91		6.0	36	2.1	12	0.9	68	<0.1	5.7	0.003	0.004	3.8
03-11-91		0.3	33	2.8	38	27	8.5	<0.1	8.1	0.026	0.013	<0.05
06-26-91		8.7	6.9	2.1	77	15	9.0	0.2	17	0.007	0.001	<0.05
07-22-91		0.8	4.6	2.9	33	1.7	3.7	<0.1	6.5	0.004	0.002	<0.05
07-18-91		0.7	3.8	1.1	11	0.8	4.0	0.8	6.5	0.006	0.003	<0.05
06-21-91		0.3	9.0	0.4	10	9.4	5.3	0.1	7.5	0.005	0.006	<0.05
06-21-91		0.3	3.6	0.4	2.9	5.0	4.1	<0.1	7.4	0.003	0.003	<0.05

QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
NASSAU COUNTY--Continued

DATE	NITRO- GEN- AMMONIA TOTAL (MG/L (AS N) (00610)	NITRO- GEN AM- MONIA + ORGANIC TOTAL DIS. (MG/L (AS N) (00608)	NITRO- GEN AM- MONIA + ORGANIC TOTAL DIS. (MG/L (AS N) (00625)	PHOS- PHORUS ORGANIC TOTAL DIS. (MG/L (AS N) (00623)	PHOS- PHORUS ORTHO TOTAL DIS. (MG/L (AS P) (00665)	PHOS- PHORUS ORTHO, TOTAL DIS. (MG/L (AS P) (70507)	IRON, TOTAL, RECOV- ERABLE (MG/L (AS P) (00671)	IRON, DIS- SOLVED (UG/L (AS FE) (01045)	IRON, DIS- SOLVED (UG/L (AS FE) (01046)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L (AS MN) (01055)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)
11-07-90	0.67	0.68	0.90	0.90	0.001	0.002	0.004	5000	5200	1500	0.09
11-07-90	0.40	0.41	0.70	0.70	0.001	0.001	0.002	220	300	3800	0.08
04-25-91	0.20	0.03	<0.20	<0.20	<0.001	0.023	0.031	2200	2200	30	<0.01
05-30-91	0.04	0.04	0.60	0.30	0.001	<0.001	0.001	950	650	80	0.04
03-11-91	0.03	0.03	0.20	0.40	0.010	0.003	0.012	440	390	<10	0.01
06-26-91	0.06	0.05	<0.20	0.40	0.171	0.178	0.170	1100	38	160	<0.01
07-22-91	0.01	0.02	0.30	<0.20	0.003	0.002	<0.001	4200	3000	140	0.01
07-18-91	0.04	0.03	<0.20	0.30	0.200	<0.001	<0.001	2600	880	40	<0.01
06-21-91	0.20	0.04	<0.20	<0.20	0.008	0.001	0.004	4800	5200	60	<0.01
06-21-91	<0.01	0.01	<0.20	<0.20	<0.001	<0.001	<0.001	2200	2400	<10	<0.01

Hydrogeologic unit (aquifer):

112GLCLU - Upper glacial aquifer, Pleistocene age.
 112GRDR - Gardiners Clay, Pleistocene age.
 112JMC0 - Jameco Gravel, Pleistocene age.
 112PGFG - Port Washington confining unit, Pleistocene age.
 112PGQF - Port Washington aquifer, Pleistocene age.
 211LLYD - Lloyd aquifer, Cretaceous age.
 211MGTY - Magothy aquifer, Cretaceous age.
 211RCNF - Raritan confining unit, Cretaceous age.

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

NASSAU COUNTY (Continued)

The following wells were sampled for water quality during the 1991 water year by the agency listed below. For further information, contact:

Nassau County Department of Health
 New Office Building
 240 Old Country Road
 Mineola, NY 11501

| Local identifier |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| N 12 | N 2920 | N 5121 | N 6844 | N 7852 | N 8956 | N 10011 |
| N 14 | N 2923 | N 5129 | N 6851 | N 7855 | N 8957 | N 10033 |
| N 17 | N 3443 | N 5145 | N 6857 | N 7857 | N 9054 | N 10034 |
| N 28 | N 3458 | N 5147 | N 6744 | N 7873 | N 9068 | N 10084 |
| N 29 | N 3457 | N 5148 | N 6745 | N 7892 | N 9076 | N 10103 |
| N 36 | N 3465 | N 5152 | N 6817 | N 7957 | N 9151 | N 10144 |
| N 37 | N 3474 | N 5155 | N 6866 | N 8004 | N 9173 | N 10149 |
| N 48 | N 3475 | N 5156 | N 6867 | N 8007 | N 9180 | N 10195 |
| N 68 | N 3486 | N 5163 | N 6893 | N 8008 | N 9210 | N 10206 |
| N 69 | N 3523 | N 5187 | N 6915 | N 8010 | N 9211 | N 10207 |
| N 72 | N 3540 | N 5193 | N 6916 | N 8011 | N 9212 | N 10208 |
| N 75 | N 3581 | N 5194 | N 6945 | N 8031 | N 9261 | N 10211 |
| N 76 | N 3603 | N 5195 | N 6953 | N 8043 | N 9262 | N 10286 |
| N 79 | N 3604 | N 5209 | N 6956 | N 8054 | N 9308 | N 10308 |
| N 80 | N 3605 | N 5227 | N 7000 | N 8183 | N 9334 | N 10309 |
| N 81 | N 3618 | N 5260 | N 7058 | N 8195 | N 9338 | N 10310 |
| N 82 | N 3668 | N 5302 | N 7076 | N 8196 | N 9358 | N 10311 |
| N 83 | N 3687 | N 5303 | N 7104 | N 8214 | N 9446 | N 10318 |
| N 95 | N 3704 | N 5304 | N 7117 | N 8216 | N 9452 | N 10319 |
| N 97 | N 3720 | N 5308 | N 7126 | N 8217 | N 9463 | N 10320 |
| N 103 | N 3732 | N 5318 | N 7157 | N 8218 | N 9468 | N 10321 |
| N 104 | N 3733 | N 5320 | N 7216 | N 8233 | N 9470 | N 10322 |
| N 118 | N 3745 | N 5321 | N 7280 | N 8248 | N 9472 | N 10324 |
| N 119 | N 3876 | N 5322 | N 7298 | N 8249 | N 9473 | N 10325 |
| N 133 | N 3878 | N 5457 | N 7353 | N 8250 | N 9488 | N 10326 |
| N 134 | N 3934 | N 5528 | N 7377 | N 8251 | N 9514 | N 10327 |
| N 152 | N 3935 | N 5535 | N 7407 | N 8264 | N 9520 | N 10329 |
| N 198 | N 3937 | N 5589 | N 7414 | N 8279 | N 9521 | N 10401 |
| N 199 | N 3953 | N 5596 | N 7421 | N 8313 | N 9591 | N 10408 |
| N 570 | N 4043 | N 5603 | N 7438 | N 8321 | N 9613 | N 10451 |
| N 585 | N 4063 | N 5653 | N 7445 | N 8339 | N 9658 | N 10459 |
| N 590 | N 4077 | N 5654 | N 7446 | N 8342 | N 9768 | N 10460 |
| N 687 | N 4082 | N 5655 | N 7482 | N 8354 | N 9792 | N 10462 |
| N 693 | N 4098 | N 5656 | N 7512 | N 8355 | N 9809 | N 10463 |
| N 700 | N 4097 | N 5672 | N 7513 | N 8413 | N 9846 | N 10464 |
| N 735 | N 4118 | N 5695 | N 7515 | N 8414 | N 9893 | N 10465 |
| N 736 | N 4132 | N 5696 | N 7516 | N 8420 | N 9894 | N 10466 |
| N 1197 | N 4146 | N 5703 | N 7521 | N 8426 | N 9895 | N 10467 |
| N 1328 | N 4206 | N 5708 | N 7522 | N 8457 | N 9896 | N 10468 |
| N 1346 | N 4245 | N 5762 | N 7523 | N 8474 | N 9899 | N 10469 |
| N 1601 | N 4265 | N 5767 | N 7526 | N 8475 | N 9900 | N 10471 |
| N 1602 | N 4298 | N 5792 | N 7548 | N 8480 | N 9901 | N 10472 |
| N 1603 | N 4327 | N 5852 | N 7549 | N 8497 | N 9902 | N 10473 |
| N 1618 | N 4329 | N 5876 | N 7551 | N 8522 | N 9903 | N 10474 |
| N 1651 | N 4388 | N 5884 | N 7552 | N 8525 | N 9904 | N 10475 |
| N 1667 | N 4389 | N 5947 | N 7561 | N 8526 | N 9905 | N 10476 |
| N 1697 | N 4390 | N 5994 | N 7562 | N 8534 | N 9917 | N 10477 |
| N 1718 | N 4393 | N 6042 | N 7593 | N 8557 | N 9918 | N 10478 |
| N 1802 | N 4400 | N 6078 | N 7620 | N 8558 | N 9919 | N 10479 |
| N 1870 | N 4405 | N 6077 | N 7649 | N 8576 | N 9921 | N 10480 |
| N 1937 | N 4411 | N 6078 | N 7650 | N 8595 | N 9922 | N 10485 |
| N 1958 | N 4425 | N 6087 | N 7651 | N 8603 | N 9924 | N 10486 |
| N 2028 | N 4447 | N 6092 | N 7684 | N 8657 | N 9925 | N 10487 |
| N 2030 | N 4448 | N 6093 | N 7685 | N 8658 | N 9941 | N 10555 |
| N 2052 | N 4450 | N 6146 | N 7720 | N 8664 | N 9951 | N 10557 |
| N 2214 | N 4451 | N 6148 | N 7744 | N 8665 | N 9952 | N 10588 |
| N 2239 | N 4512 | N 6149 | N 7747 | N 8713 | N 9953 | N 10589 |
| N 2400 | N 4602 | N 6150 | N 7772 | N 8761 | N 9960 | N 10598 |
| N 2413 | N 4623 | N 6190 | N 7773 | N 8767 | N 9961 | N 10603 |
| N 2414 | N 4756 | N 6192 | N 7778 | N 8768 | N 9962 | N 10612 |
| N 2578 | N 4757 | N 6315 | N 7781 | N 8776 | N 9963 | N 10662 |
| N 2597 | N 4758 | N 6442 | N 7785 | N 8778 | N 9964 | N 10815 |
| N 2602 | N 4759 | N 6443 | N 7796 | N 8779 | N 9966 | N 10822 |
| N 2613 | N 4860 | N 6450 | N 7797 | N 8818 | N 9968 | N 10863 |
| N 2747 | N 5007 | N 6580 | N 7831 | N 8830 | N 9980 | N 10889 |
| N 2748 | N 5099 | N 6610 | N 7834 | N 8941 | N 9984 | N 11107 |

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

NASSAU COUNTY (Continued)

The following wells were sampled for water quality during the 1991 water year by the agency listed below. For further information, contact:

Nassau County Department of Public Works
 Water Supply Unit
 170 Cantiague Rock Road
 Hicksville, NY 11801

| Local identifier |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| N 1102 | N 1280 | N 7235 | N 8944 | N 9472 | N 9914 | N 10008 |
| N 1106 | N 1281 | N 7397 | N 8958 | N 9473 | N 9917 | N 10009 |
| N 1110 | N 1422 | N 7478 | N 8964 | N 9474 | N 9918 | N 10010 |
| N 1114 | N 1429 | N 8203 | N 8970 | N 9475 | N 9919 | N 10011 |
| N 1115 | N 1432 | N 8204 | N 8984 | N 9476 | N 9920 | N 10035 |
| N 1118 | N 1436 | N 8269 | N 9054 | N 9477 | N 9922 | N 10084 |
| N 1118 | N 1437 | N 8374 | N 9057 | N 9478 | N 9923 | N 10085 |
| N 1129 | N 1438 | N 8412 | N 9077 | N 9607 | N 9924 | N 10094 |
| N 1130 | N 1442 | N 8430 | N 9078 | N 9608 | N 9925 | N 10192 |
| N 1132 | N 1446 | N 8550 | N 9079 | N 9609 | N 9926 | N 10199 |
| N 1133 | N 1449 | N 8598 | N 9087 | N 9646 | N 9927 | N 10200 |
| N 1134 | N 1459 | N 8599 | N 9088 | N 9647 | N 9928 | N 10245 |
| N 1137 | N 1475 | N 8631 | N 9098 | N 9648 | N 9929 | N 10246 |
| N 1139 | N 1625 | N 8633 | N 9099 | N 9649 | N 9930 | N 10252 |
| N 1147 | N 1685 | N 8634 | N 9100 | N 9650 | N 9931 | N 10290 |
| N 1148 | N 2635 | N 8636 | N 9115 | N 9651 | N 9934 | N 10291 |
| N 1152 | N 2790 | N 8644 | N 9116 | N 9652 | N 9935 | N 10292 |
| N 1160 | N 3707 | N 8645 | N 9117 | N 9653 | N 9938 | N 10425 |
| N 1168 | N 3708 | N 8647 | N 9118 | N 9654 | N 9939 | N 10604 |
| N 1169 | N 3710 | N 8648 | N 9127 | N 9655 | N 9940 | N 10606 |
| N 1176 | N 3711 | N 8651 | N 9152 | N 9656 | N 9941 | N 10607 |
| N 1183 | N 3862 | N 8653 | N 9154 | N 9657 | N 9942 | N 10608 |
| N 1184 | N 3864 | N 8669 | N 9168 | N 9658 | N 9943 | N 10609 |
| N 1185 | N 3865 | N 8715 | N 9189 | N 9659 | N 9944 | N 10620 |
| N 1189 | N 3866 | N 8718 | N 9190 | N 9660 | N 9945 | N 10730 |
| N 1190 | N 3867 | N 8752 | N 9191 | N 9661 | N 9946 | N 10731 |
| N 1194 | N 3932 | N 8831 | N 9208 | N 9662 | N 9947 | N 10732 |
| N 1195 | N 4026 | N 8838 | N 9309 | N 9663 | N 9948 | N 10733 |
| N 1197 | N 4082 | N 8847 | N 9313 | N 9684 | N 9949 | N 10882 |
| N 1201 | N 4213 | N 8848 | N 9314 | N 9685 | N 9979 | N 10978 |
| N 1204 | N 5227 | N 8857 | N 9316 | N 9666 | N 9980 | N 10980 |
| N 1205 | N 5250 | N 8863 | N 9317 | N 9667 | N 9981 | N 10981 |
| N 1223 | N 6367 | N 8873 | N 9332 | N 9668 | N 9982 | N 10982 |
| N 1225 | N 6701 | N 8875 | N 9333 | N 9669 | N 9983 | N 11165 |
| N 1227 | N 6702 | N 8876 | N 9354 | N 9670 | N 9984 | N 11166 |
| N 1231 | N 6703 | N 8877 | N 9355 | N 9711 | N 9999 | N 11167 |
| N 1236 | N 6704 | N 8879 | N 9356 | N 9712 | N 10000 | N 11168 |
| N 1243 | N 6706 | N 8888 | N 9357 | N 9776 | N 10001 | N 11169 |
| N 1246 | N 6707 | N 8891 | N 9358 | N 9803 | N 10002 | N 11170 |
| N 1250 | N 6849 | N 8933 | N 9359 | N 9804 | N 10003 | N 11304 |
| N 1252 | N 6850 | N 8938 | N 9468 | N 9805 | N 10004 | N 11310 |
| N 1253 | N 6851 | N 8939 | N 9469 | N 9820 | N 10005 | N 11324 |
| N 1263 | N 6853 | N 8940 | N 9470 | N 9840 | N 10006 | N 11457 |
| N 1278 | N 7161 | N 8943 | N 9471 | N 9899 | N 10007 | N 11458 |
| N 1279 | N 7207 | | | | | |

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

SUFFOLK COUNTY

STATION	NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE FIELD (US/CM) (00094)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) (00915)
403727073154601		S 21091. 1	211LLYD	05-30-91	1921	133	7.1	14.0	--	9.2
404703073264201		S 29778. 1	211MGTY	07-09-91	720	32	6.3	11.5	5.7	0.5
404703073264202		S 29777. 1	211MGTY	08-27-91	397	50	6.3	12.0	3.7	1.1
404932073055902		S 33380. 1	211MGTY	08-07-91	855	44	6.3	12.0	1.5	1.9
404812073041201		S 44918. 1	112GLCLU	06-03-91	85	210	5.9	12.0	11.4	6.1
404759073251600		S 47220. 1	112GLCLU	08-01-91	92	28	6.0	12.0	--	0.2
405240072491402		S 47228. 1	112GLCLU	11-27-90	30	66	6.4	11.5	0.8	3.9
405240072491401		S 47227. 1	112GLCLU	11-27-90	100	103	7.6	11.0	0.9	12
405412072441401		S 47753. 1	112GLCLU	05-18-91	102	50	6.2	11.0	7.4	2.9
405604073064301		S 47973. 1	112GLCLU	08-02-91	90	167	6.4	12.5	9.5	14
405121072490601		S 48946. 1	112GLCLU	11-27-90	45	178	6.0	12.5	4.7	12
404119072593501		S 51481. 1	211MGTY	06-20-91	467	307	6.5	11.0	0.7	0.1
405512072395201		S 51573. 1	112GLCLU	05-16-91	90	145	8.1	14.5	1.2	18
405349072494101		S 51592. 1	112GLCLU	11-27-90	42	127	5.7	11.5	5.3	2.4
405002073043501		S 66509. 1	112GLCLU	07-16-91	117	350	5.6	13.0	9.5	16
405508073054201		S 66513. 1	112GLCLU	05-29-91	123	322	6.0	12.5	9.9	15
403935073235002		S 67537. 1	112GLCLU	04-25-91	61	132	8.0	13.5	2.8	22
404433073244905		S 75033. 1	112GLCLU	06-05-91	62	160	5.7	11.0	5.9	12
405604073064302		S 81831. 1	211MGTY	06-05-91	470	50	6.3	7.5	4.2	2.6
404641073005301		S 94403. 1	112GLCLU	07-31-91	100	74	6.7	12.5	1.6	5.8
404759073251701		S 95963. 1	112GLCLU	09-03-91	193	27	5.8	10.0	--	0.7
404759073251702		S 95964. 1	211MGTY	07-24-91	411	30	6.4	10.5	9.9	1.1
404759073251703		S 95965. 1	211MGTY	07-24-91	619	31	5.7	11.0	6.3	1.0

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER, YEAR OCTOBER 1990 TO SEPTEMBER 1991
SUFFOLK COUNTY--Continued

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY, LAB (MG/L AS) (90410)	SULFATE, DIS-SOLVED (MG/L AS) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS) (00955)	NITRO-GEN, NITRITE, TOTAL (MG/L AS N) (00615)	NITRO-GEN, DIS-SOLVED (MG/L AS N) (00813)	NITRO-GEN, TOTAL (MG/L AS N) (00630)
05-30-91	1.2	9.9	1.4	23	13	12	0.2	6.7	<0.001	0.002	<0.05
07-09-91	0.4	2.3	0.3	9.9	1.7	3.2	0.1	6.0	0.004	0.004	<0.05
06-27-91	0.3	3.7	0.4	14	1.0	4.1	<0.1	6.3	0.002	0.002	0.98
08-07-91	1.1	3.5	0.4	14	2.6	4.7	<0.1	11	0.001	0.004	<0.05
06-03-91	2.6	18	1.0	9.0	9.1	32	<0.1	8.8	0.006	<0.001	1.0
08-01-91	0.6	3.5	0.6	4.6	0.2	5.2	<0.1	5.6	0.007	0.001	0.23
11-27-90	0.4	4.8	0.5	11	4.1	5.4	<0.1	11	<0.010	<0.010	<0.10
11-27-90	2.4	4.2	0.4	42	3.3	4.4	0.2	13	<0.010	<0.010	<0.10
05-16-91	1.2	4.2	0.6	7.9	10	4.1	<0.1	9.5	0.001	<0.001	<0.05
08-02-91	5.0	7.1	1.3	24	24	9.6	0.1	12	0.009	0.010	2.3
11-27-90	3.3	10	4.8	14	25	16	<0.1	8.0	<0.010	<0.010	1.8
08-20-91	0.2	9.4	3.5	16	4.2	4.4	0.1	9.6	0.003	0.003	<0.05
05-16-91	2.3	6.1	0.7	63	0.5	6.5	0.2	45	<0.001	0.002	<0.05
11-27-90	0.8	19	0.5	5.3	12	28	<0.1	6.3	0.002	0.001	0.10
07-16-91	8.9	33	2.4	16	13	55	<0.1	14	0.002	0.004	12
05-29-91	7.5	23	1.8	11	23	32	<0.1	15	0.001	0.001	9.7
04-25-91	1.5	2.8	0.4	62	3.4	4.3	<0.1	8.4	0.006	0.007	<0.05
06-05-91	2.2	9.7	2.3	8.7	21	14	<0.1	6.3	0.014	0.015	2.8
06-05-91	1.2	4.2	0.5	14	4.1	4.4	<0.1	10	0.008	0.005	<0.05
07-31-91	2.1	4.4	1.1	25	3.6	4.3	0.1	15	0.008	0.001	<0.05
09-03-91	0.5	3.2	0.7	7.6	0.6	5.0	0.1	6.1	0.002	0.002	0.45
07-24-91	0.3	3.2	0.5	7.3	0.7	4.6	<0.1	6.0	0.008	0.003	0.4
07-24-91	0.3	3.2	0.3	4.6	1.1	4.3	<0.1	6.2	0.003	0.003	0.29

QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

SUFFOLK COUNTY--Continued

DATE	NITRO- GEN- AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN-AM- MONIA + DIS- ORGANIC SOLVED (MG/L AS N) (00608)	NITRO- GEN AM- MONIA + DIS. ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, TOTAL (MG/L AS P) (70507)	IRON, TOTAL, DIS- SOLVED (UG/L AS FE) (00671)	IRON, TOTAL, DIS- SOLVED (UG/L AS FE) (01045)	MANGA- NESE TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	METHY- LENE BLUE ACTIVE SUB- STANCE (38280)	
05-30-91	0.05	0.05	0.40	<0.2	<0.001	<0.001	0.001	5700	5600	210	0.02
07-09-91	<0.01	0.02	<0.2	<0.2	0.021	0.005	0.005	690	250	20	0.01
06-27-91	0.02	0.02	<0.2	0.30	0.008	0.004	0.004	130	7	<10	0.02
08-07-91	0.02	<0.01	0.2	<0.2	0.009	0.006	<0.001	260	320	<10	<0.01
06-03-91	0.01	0.01	<0.2	0.2	<0.001	<0.001	<0.001	1700	81	10	0.02
08-01-91	<0.01	<0.01	<0.2	0.40	<0.001	<0.001	<0.001	170	120	10	0.01
11-27-90	0.24	0.22	<0.2	0.30	0.140	<0.004	0.020	6200	5100	130	0.02
11-27-90	0.12	0.13	<0.2	<0.2	0.224	0.219	0.190	860	720	270	0.02
05-18-91	0.01	0.02	<0.2	<0.2	0.012	0.008	0.012	940	43	<10	0.01
08-02-91	0.18	0.15	0.40	0.40	0.047	0.005	0.008	2600	2600	120	0.03
11-27-90	0.20	0.19	0.40	0.30	0.051	<0.007	0.01	1700	1400	160	0.03
06-20-91	0.03	0.03	<0.2	<0.2	0.098	0.061	0.081	720	960	<10	<0.01
05-18-91	0.35	0.35	0.40	0.50	0.126	0.108	0.117	260	90	40	0.01
11-27-90	0.03	0.02	<0.2	<0.2	0.016	<0.001	0.002	460	110	40	0.01
07-18-91	<0.01	0.03	1.0	0.70	0.007	<0.001	<0.001	40	7	20	0.1
05-29-91	0.02	0.01	0.60	0.70	0.011	0.008	0.010	<10	5	<10	0.08
04-25-91	0.01	0.01	<0.2	<0.2	0.034	0.036	0.038	180	56	270	<0.01
06-06-91	<0.01	<0.01	0.30	0.30	0.004	0.001	0.003	30	6	<10	0.04
06-06-91	<0.01	0.02	0.2	0.2	0.006	<0.001	0.003	<10	4	<10	<0.01
07-31-91	0.03	<0.01	<0.2	<0.2	0.165	0.045	0.072	2100	2000	170	<0.01
09-03-91	<0.01	0.04	<0.2	0.30	0.002	0.001	0.007	20	7	<10	0.01
07-24-91	0.07	0.03	<0.2	<0.2	0.007	0.006	<0.001	1900	36	10	0.01
07-24-91	0.07	0.02	<0.2	0.30	<0.001	<0.001	<0.001	940	870	10	0.01

Hydrogeologic unit (aquifer):

112GLCLU - Upper glacial aquifer, Pleistocene age.
 112GRDR - Gardiners Clay, Pleistocene age.
 112JMC0 - Jameco Gravel, Pleistocene age.
 112PGFG - Port Washington confining unit, Pleistocene age.
 112PGGF - Port Washington aquifer, Pleistocene age.
 211LLYD - Lloyd aquifer, Cretaceous age.
 211MGTY - Magothy aquifer, Cretaceous age.
 211RCNF - Raritan confining unit, Cretaceous age.

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

SUFFOLK COUNTY (Continued)

The following wells were sampled for water quality during the 1991 water year by the agency listed below. For further information, contact:

Suffolk County Water Authority
Sunrise Highway
Oakdale, NY 11769

| Local identifier |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| S 871 | S 20479 | S 28819 | S 36748 | S 44774 | S 53850 | S 66758 |
| S 872 | S 20530 | S 28928 | S 36791 | S 45610 | S 53851 | S 66825 |
| S 1331 | S 20568 | S 29411 | S 36869 | S 45839 | S 54162 | S 66881 |
| S 1340 | S 20635 | S 29491 | S 36976 | S 45840 | S 54305 | S 67074 |
| S 1341 | S 20688 | S 29492 | S 37140 | S 46235 | S 54308 | S 67197 |
| S 2415 | S 20689 | S 29732 | S 37141 | S 46400 | S 54473 | S 67656 |
| S 2978 | S 20839 | S 30088 | S 37174 | S 46712 | S 54568 | S 67819 |
| S 3615 | S 20955 | S 30117 | S 37301 | S 46713 | S 54730 | S 67925 |
| S 3813 | S 21121 | S 30118 | S 37351 | S 46830 | S 54957 | S 68230 |
| S 3814 | S 21244 | S 30207 | S 37494 | S 46928 | S 55028 | S 68552 |
| S 3815 | S 21247 | S 30208 | S 37681 | S 47024 | S 55463 | S 68666 |
| S 4372 | S 21366 | S 30227 | S 37847 | S 47035 | S 55602 | S 68690 |
| S 5565 | S 21375 | S 30228 | S 37861 | S 47219 | S 55733 | S 68880 |
| S 6513 | S 21487 | S 30234 | S 37963 | S 47310 | S 55734 | S 69024 |
| S 7570 | S 21632 | S 30506 | S 38192 | S 47435 | S 56038 | S 69364 |
| S 8439 | S 21945 | S 30762 | S 38194 | S 47436 | S 56039 | S 69511 |
| S 9893 | S 22048 | S 31037 | S 38320 | S 47437 | S 56133 | S 70008 |
| S 11105 | S 22351 | S 31038 | S 38321 | S 47438 | S 56674 | S 70155 |
| S 12130 | S 22362 | S 31039 | S 38491 | S 47453 | S 57008 | S 70459 |
| S 14326 | S 22389 | S 31104 | S 38701 | S 47673 | S 57354 | S 70488 |
| S 14710 | S 22471 | S 31624 | S 38784 | S 47886 | S 57357 | S 70767 |
| S 14792 | S 22548 | S 31653 | S 38785 | S 47887 | S 57871 | S 71038 |
| S 14828 | S 22640 | S 31913 | S 38918 | S 48014 | S 57979 | S 71083 |
| S 14921 | S 22711 | S 32180 | S 38917 | S 48193 | S 57980 | S 71533 |
| S 15500 | S 23046 | S 32287 | S 39024 | S 48719 | S 58708 | S 71785 |
| S 15501 | S 23183 | S 32325 | S 39347 | S 49018 | S 58761 | S 71881 |
| S 15514 | S 23184 | S 32326 | S 39531 | S 49422 | S 59347 | S 71882 |
| S 15746 | S 23185 | S 32359 | S 39536 | S 49606 | S 59744 | S 71892 |
| S 15776 | S 23186 | S 32501 | S 40161 | S 50546 | S 60127 | S 72245 |
| S 15898 | S 23255 | S 32551 | S 40330 | S 50630 | S 60486 | S 72271 |
| S 15923 | S 23371 | S 32552 | S 40331 | S 51214 | S 60812 | S 72300 |
| S 16129 | S 23440 | S 33005 | S 40497 | S 51266 | S 61910 | S 72326 |
| S 16175 | S 23445 | S 33006 | S 40498 | S 51274 | S 61937 | S 72917 |
| S 16256 | S 23524 | S 33308 | S 40709 | S 51275 | S 62022 | S 73144 |
| S 16309 | S 23631 | S 33500 | S 40710 | S 51298 | S 62240 | S 73332 |
| S 16892 | S 23715 | S 33820 | S 40711 | S 51457 | S 62855 | S 73492 |
| S 16893 | S 23827 | S 33826 | S 40837 | S 51519 | S 63205 | S 73847 |
| S 17037 | S 23828 | S 33970 | S 40838 | S 51609 | S 63256 | S 74505 |
| S 17474 | S 23832 | S 34007 | S 40980 | S 51673 | S 63618 | S 74573 |
| S 17689 | S 23848 | S 34030 | S 42226 | S 51953 | S 63966 | S 74865 |
| S 17835 | S 24047 | S 34031 | S 42227 | S 52126 | S 64023 | S 77010 |
| S 18003 | S 24323 | S 34300 | S 42270 | S 52451 | S 64062 | S 78310 |
| S 18261 | S 24545 | S 34301 | S 42473 | S 52490 | S 64609 | S 79293 |
| S 18621 | S 24663 | S 34460 | S 42499 | S 52943 | S 64716 | S 81473 |
| S 18729 | S 25617 | S 34522 | S 42504 | S 52944 | S 64847 | S 82174 |
| S 18762 | S 25674 | S 34595 | S 42505 | S 52945 | S 65505 | S 82422 |
| S 19048 | S 25776 | S 35033 | S 42760 | S 53074 | S 65766 | S 83096 |
| S 19198 | S 26535 | S 35446 | S 42761 | S 53291 | S 65905 | S 83707 |
| S 19399 | S 27070 | S 35494 | S 42762 | S 53360 | S 66183 | S 84848 |
| S 19408 | S 27192 | S 35939 | S 42827 | S 53361 | S 66184 | S 88463 |
| S 19465 | S 27259 | S 36166 | S 43001 | S 53497 | S 66366 | S 90674 |
| S 19565 | S 27533 | S 36459 | S 43117 | S 53498 | S 66429 | S 93702 |
| S 20057 | S 27784 | S 36460 | S 43641 | S 53522 | S 66496 | S 94138 |
| S 20300 | S 28408 | S 36711 | S 44468 | S 53593 | S 66657 | S 94286 |
| S 20369 | S 28503 | S 36714 | S 44640 | S 53747 | S 66733 | S 96232 |
| S 20460 | S 28767 | | | | | |

QUALITY OF GROUND WATER

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

SUFFOLK COUNTY (Continued)

The following wells were sampled for water quality during the 1991 water year by the agency listed below. For further information, contact:

Suffolk County Department of Health Services
225 Rabro Drive East
Hauppauge, NY 11788

| Local identifier |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| S 43808 | S 45210 | S 46962 | S 47748 | S 48759 | S 66508 | S 71579 |
| S 43809 | S 45212 | S 46963 | S 47749 | S 48948 | S 66509 | S 72483 |
| S 43810 | S 45402 | S 46964 | S 47750 | S 48958 | S 66511 | S 72486 |
| S 43811 | S 45448 | S 46965 | S 47751 | S 51169 | S 66512 | S 72840 |
| S 43812 | S 45447 | S 46966 | S 47752 | S 51171 | S 66513 | S 72841 |
| S 43813 | S 45594 | S 47223 | S 47758 | S 51172 | S 71568 | S 72842 |
| S 43815 | S 45717 | S 47224 | S 47757 | S 51174 | S 71567 | S 72847 |
| S 43816 | S 45720 | S 47225 | S 47758 | S 51175 | S 71568 | S 75435 |
| S 43818 | S 45721 | S 47228 | S 47759 | S 51176 | S 71569 | S 78323 |
| S 43820 | S 45722 | S 47698 | S 47945 | S 51182 | S 71570 | S 90280 |
| S 43821 | S 45729 | S 47718 | S 47973 | S 51581 | S 71571 | S 91812 |
| S 43822 | S 46281 | S 47720 | S 47974 | S 52050 | S 71572 | S 91813 |
| S 44914 | S 46284 | S 47743 | S 47975 | S 52084 | S 71573 | S 91814 |
| S 44918 | S 46286 | S 47745 | S 47976 | S 59180 | S 71575 | S 94486 |
| S 45053 | S 46287 | S 47748 | S 47977 | S 63831 | S 71576 | S 94487 |
| S 45207 | S 46502 | S 47747 | S 48651 | S 66508 | S 71578 | S 94488 |
| S 45208 | | | | | | |

CHEMICAL QUALITY OF PRECIPITATION
 LONG ISLAND
 AT OLD FIELD, NY

LOCATION.--Lat 40°57'39" long 73°08'22" Suffolk County, at Marine Science Research Center, State University of New York at Stony Brook, on roof of Flax Pond Marine Laboratory, Shore Drive, Village of Old Field.

PERIOD OF RECORD.--Precipitation events March 1989 to current year.

INSTRUMENTATION.--The wetfall and dustfall sample collector is an N-Con Atmospheric Deposition Sampler* wet/dry precipitation collector. An automatic sensor detects occurrences of precipitation, activating a motor which removes a cover from the wetfall collection vessel and covers the dustfall collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethylene and have a collection diameter of 12 in. and a capacity of 3.5 gals. The opening of the collector is approximately 15 ft above land surface.

REMARKS.--Inches of precipitation was measured by the National Weather Service station at Setauket (Strong) for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1990 TO FEBRUARY 1991

FIELD MEASUREMENTS OF STORM EVENT WETFALL

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)
90/10/08--90/10/09	2.42	25	4.40
90/10/12--90/10/13	5.15	9	5.16
90/10/18	1.59	12	5.12
90/10/23--90/10/24	2.17	10	5.04
90/11/09--90/11/10	1.05	56	4.56
90/11/23--90/11/24	.45	138	3.88
90/12/03--90/12/04	1.80	45	4.23
90/12/15	.52	33	4.32
90/12/21--90/12/24	.84	43	4.15
90/12/28	1.60	43	4.23
91/01/09	.56	49	4.25
91/01/11--91/01/12	1.28	14	5.01
91/01/16--91/01/17	1.24	25	4.43
91/02/14	.53	64	4.05
91/02/17--91/02/20	.55	61	4.00
91/02/26--91/02/27	.19	125	3.68

* The use of the brand name in this report is for identification purpose only and does not imply endorsement by the U.S. Geological Survey.

CHEMICAL QUALITY OF PRECIPITATION

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LONG ISLAND

AT OLD FIELD, NY -- Continued

CHEMICAL ANALYSES. WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN) (00193)		SPE- CIFIC CON- DUC- TANCE (US/CM) (00095)		PH (STAND- ARD UNITS) (00400)		CALCIUM DIS- SOLVED (MG/L AS CA) (00915)		MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
	PRECIP- ITATION IN MM	CON- DUC- TANCE US/CM	PH STAND- ARD UNITS	CALCIUM DIS- SOLVED MG/L AS CA	MAGNE- SIUM DIS- SOLVED MG/L AS MG	SODIUM DIS- SOLVED MG/L AS NA	POTAS- SIUM DIS- SOLVED MG/L AS K	SULFATE DIS- SOLVED MG/L AS SO4	CHLO- RIDE DIS- SOLVED MG/L AS CL									
DEC 03-04	1.80	45	4.2	0.31	0.28	2.5	0.51	3.3	4.2									
JAN 16-17	1.24	25	4.4	0.11	0.07	0.49	0.07	--	--									
FEB 14	0.53	64	4.1	0.51	0.17	0.75	0.13	4.5	1.3									

DATE	FLUO-	BROMIDE	NITRO-	NITRO-	PHOS-	ALUM-	CADMIUM	CHRO-	
	RIDE, DIS- SOLVED (MG/L AS F (00950)	DIS- SOLVED (MG/L AS BR (71870)	NITRATE DIS- SOLVED (MG/L AS N (00818)	AMMONIA DIS- SOLVED (MG/L AS N (00608)	GEN- DIS- SOLVED (MG/L AS N (00602)	ORTHO, DIS- SOLVED (MG/L AS P (00671)	INUM, DIS- SOLVED (UG/L AS AL (01106)	DIS- SOLVED (UG/L AS CD (01025)	MIUM, DIS- SOLVED (UG/L AS CR (01030)
DEC 03-04	<0.01	<0.010	0.310	0.167	0.40	<0.010	20	<1.0	<1
JAN 16-17	--	--	--	0.055	0.30	--	--	--	--
FEB 14	0.06	<0.010	1.20	0.831	2.1	<0.010	--	--	--

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
feet (ft)	2.54×10^{-2}	meters (m)
miles (mi)	3.048×10^{-1}	meters (m)
	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
square miles (mi^2)	4.047×10^{-3}	square kilometers (km^2)
	2.590×10^0	square kilometers (km^2)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm^3)
million gallons	3.785×10^{-3}	cubic meters (m^3)
	3.785×10^3	cubic meters (m^3)
cubic feet (ft^3)	3.785×10^{-3}	cubic hectometers (hm^3)
	2.832×10^1	cubic decimeters (dm^3)
cfs-days	2.832×10^{-2}	cubic meters (m^3)
	2.447×10^3	cubic meters (m^3)
acre-feet (acre-ft)	2.447×10^{-3}	cubic hectometers (hm^3)
	1.233×10^3	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
<i>Flow</i>		
cubic feet per second (ft^3/s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm^3/s)
gallons per minute (gal/min)	2.832×10^{-2}	cubic meters per second (m^3/s)
	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
million gallons per day	6.309×10^{-5}	cubic meters per second (m^3/s)
	4.381×10^1	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons



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