1974

Water Resources Data for New York

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

1974

Water Resources Data for New York

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of New York
and with other agencies

II

Prepared in cooperation with

New York State Department of Environmental Conservation
New York State Power Authority
Central New York State Parks Commission
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
City of Albany, Department of Water and Water Supply
City of New York, Board of Water Supply
City of New York, Department of Water Resources
Delaware River Basin Commission
Environmental Protection Agency

Water resources records, 1974, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
   Part 1: Surface Water Records

2. Water Resources Data for New York
   Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P. O. Box 1350
Albany, N. Y. 12201

1975

ILLUSTRATIONS

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
WITH A CROSS REFERENCE LIST OF IDENTIFICATION NUMBERS

Letters after station name designate type of data reported
(c) - chemical
(t) - temperature
(s) - sediment

Abbreviations:
USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
EPA - Environmental Protection Agency
WQS - New York State Water Quality Surveillance

WATER RESOURCES DATA FOR NEW YORK, 1974

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1974 water year for New York include records of data for the chemical and physical characteristics of surface, ground, and precipitation water. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the following organizations:

New York State Department of Environmental Conservation, J. L. Biggane, commissioner, succeeded by Ogden Reid
New York State Power Authority, J. A. Fitzpatrick, chairman
Central New York State Parks Commission, Samuel Perry, regional administrator
County of Cortland, Planning Department, T. E. Zollendeck, planning director
County of Dutchess, W. H. Bartles, county executive
County of Nassau, Department of Public Works, H. J. Plock, Jr., commissioner
County of Suffolk, Department of Environmental Control, J. M. Flynn, commissioner
County of Suffolk, Water Authority, W. C. Hazlitt, chairman
City of Albany, Department of Water and Water Supply, Kenneth DeLisle, commissioner
City of New York, Board of Water Supply, Martin Hauptman, chief engineer
City of New York, Department of Water Resources, Charles Samowitz, commissioner, Abraham Groopman, chief engineer
Delaware River Basin Commission, J. F. Wright, executive director

Assistance in the form of funds was given by the Environmental Protection Agency.

The following organizations supplied water-temperature records:

The municipalities of Cortland and Watertown, Chase Bag Company, New York State Electric and Gas Corporation, Niagara Mohawk Power Corporation, Rochester Gas and Electric Corporation, Texaco Incorporated, Power Authority of the State of New York, New York State Department of Transportation, and Corps of Engineers, U.S. Army.

DEFINITION OF TERMS AND ABBREVIATIONS

Terms related to water-quality and hydrologic data, as used in this report are defined below. See also table 4 for converting English units to International System of units (SI) on the back of the front cover.

Acre-foot (AC-FT, ac-ft) is a 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 metres.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, 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 all the organisms which produce colonies with a golden-green metalic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (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 intestine or feces of warmblooded 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 ± 0.2°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 the intestine of warmblooded 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°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

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

Bottom deposits (bottom material) The sediment mixture of which the streambed is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

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

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

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

Instantaneous discharge is the discharge at a given time.

Drainage area of a stream at a specified 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.

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 body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is 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 ($CaCO_3$).

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 kilogram (UG/KG, ug/kg) A microgram is equal to 0.000001 gram or 10^{-6} gram; a kilogram is approximately the mass of a litre of water at 4°C above the freezing point (one kilogram equals 1,000 grams); therefore, 1 ug/kg = 10^{-6} grams/1,000 grams.

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

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1. Concentration of suspended sediment is also expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

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 multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres (l).

Table 1.--Factors for conversion of chemical constituents in milligrams per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})	.03060

To convert micrograms per litre, multiply by factor and divide by 1,000.

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 metres (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 millilitres (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 or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Pesticides include insecticides and herbicides.

Insecticides are substances or a mixture of substances intended to control, destroy, or repel insects.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation.

PCB (Polychlorinated biphenyls) Industrial chemicals composed of mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in chemical structure to organochloride insecticides.

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 typed, numbers, weight, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

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).

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 water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Sediment is the solid material that originates mostly from disintegrated rocks and is transformed 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 discharge 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 by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

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 litre of water-sediment mixture (mg/l).

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

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 and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

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." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicated the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which included 9 of the 12 months. See calendar on back of front cover. Thus, the year ending September 30, 1974, is called the "1974 water year."

ARRANGEMENT OF DATA AND IDENTIFICATION NUMBERS

Data in this report are divided into three groups: quality of surface water, of ground water, and of precipitation.

Surface-Water Quality Data

Surface-water quality data collected on a regular or continual basis are listed first. These are reported in downstream order along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main stream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank. The general location of the listed stations are on Plates 1 and 1A at the back of the report. Data for partial-record and miscellaneous surface-water sites are placed in downstream order following the first section.

As an added means of identification, a number has been assigned for each surface-water location where determinations of water quality have been made. The numbers increase with the standard downstream order of listing gaging stations. The numbering system consists of eight digits; for example, 01330000. The first two digits identify the Part or Major basin used by the Geological Survey for reporting hydrologic data. The remaining six digits represent the position of the location in the standard downstream order listing the stations within each of the Parts. The assigned numbers are in increasing numerical order but are not consecutive. They are selected from the complete 8-digit number scale so that intervening numbers will be available for future assignment to new locations.

The Geological Survey identification numbers are cross-referenced in the list of Water-Quality Stations on pages V-VI, with identification numbers assigned by the Federal Environmental Protection Agency and the New York State Department of Environmental Conservation, Water Quality Surveillance for stations in their networks and by the Office of Water Data Coordination for their catalog of Information on Water Data.

Ground-Water Quality Data

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 13 digits of the well number are the coordinates of the southeast corner of the 1-second grid in which the well is located. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote the degrees, minutes, and seconds of longitude. If the well site is directly on the dividing line of the grid, the coordinates are those of the intersecting line south of the point on a vertical line or east of the point on a horizontal line. (See fig. 1.) The last 2 digits of the well number are sequential numbers for wells within the 1-second grid. The first well in the 1-second grid from which a record is obtained is given the number 1. Each subsequent well is numbered in the order records were obtained. The system provides the geographic location of the well and a unique number for each well.

A local well-numbering system is also used for wells on Long Island and New York City. All wells are assigned consecutive numbers within each County.

Ground-water quality data are grouped alphabetically by county and by well number either local or national.

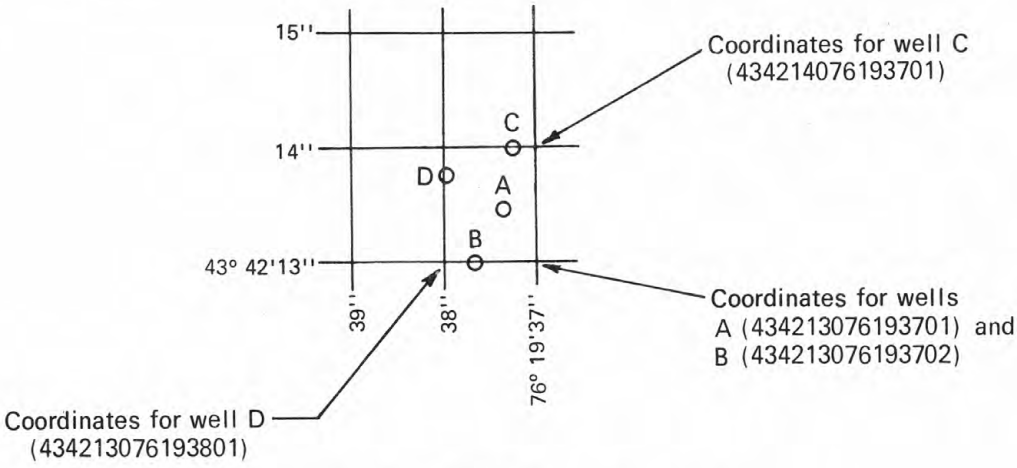

Figure 1.--Well location system.

Precipitation Quality Data

Chemical quality of precipitation data are reported for seven stations in New York and for one station just over the border in Pennsylvania. The arrangement of the stations is according to the downstream order of the basins. Within the basin, the order of reporting is by latitude and longitude.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National stream-quality accounting network is an accounting 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 in the network design. Areal configuration of the network is based on river-basin accounting units 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 variablility of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966, p. 272). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in micrograms per litre, radium as radium - 226 in picocuries per litre, gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre. Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

EXPLANATION OF WATER QUALITY DATA

Collection and Examination of Data

Many surface-water samples for analyses are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New York have been released in the report, "Water Resources Data for New York, 1974, Part 1. Surface Water Records." The water discharge reported with analyses in this report is the instantaneous water discharge at the time of sampling. Instantaneous water discharge is determined from the stage-discharge relationship at gaging stations or by measurement at the time of sampling.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and/or other pertinent data are given in the table containing the chemical analyses of ground water.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October, 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 2.

In October, 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," and table 4 for converting English units to SI units.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
0.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
2.5	36	12.5	54	22.5	72	32.5	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
7.5	45	17.5	63	27.5	81	37.5	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

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.

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 the 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.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximim and minimum 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.

Temperature

Water temperatures at the time of sample collection are reported for many of the surface-water samples.

At several stations local observers measure the water temperature once or twice daily. These water temperatures are measured at about the same time each day so that the data will reflect long-term rather than diurnal variations in water temperature. Most large streams have small diurnal variation in water temperature; small, 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. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

In addition, at several stations instruments are installed which record the water temperature continuously or hourly values are punched on paper tape. Maximum and minimum temperatures for each day are obtained from these records.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. At those stations where daily mean concentration and daily suspended sediment discharge are computed samples are commonly collected at a fixed point in the stream cross section. Periodically, samples are collected at several verticals in the cross section to determine the adjustment coefficient required (if any) to determine the mean concentration in the whole cross section of the stream.

During periods of rapidly changing flow or rapidly changing concentration, samples often are 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, the daily sediment discharge was estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and sediment discharge for other periods of similar water discharge.

At stations where only periodical suspended-sediment data is reported samples were collected at several verticals in stream cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relationships between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

OTHER AVAILABLE DATA

In addition to most of the data in this report, which represent only those stations for which water samples were analysed by the U.S. Geological Survey, other data are available from WQS (Water Quality Surveillance) of the New York State Department of Environmental Conservation. Their Water Quality Data Library includes prior records for many of the stations in this report, data for additional stations operated by or for WQS, and data contributed by other Federal, State, and local agencies, and private industries. Table 5 is a list of stations operated by or for WQS. Water samples collected at these stations during the 1974 water year were analysed by agencies other than the U.S. Geological Survey.

All data in the Water Quality Data Library are available as computer printouts for the requested individual or groups of stations for individual or groups of parameters. Statistical summaries of the data are also available as computer printouts or in periodic publications. Inquiries for these data should be directed to:

New York State Department of
Environmental Conservation
Water Quality Surveillance
50 Wolf Road
Albany, New York 12201

EPA (Environmental Protection Agency) is another source of water-quality data. Data for several stations operated by the U.S. Geological Survey for this Federal agency are included in this report. However, data prior to that indicated in the "Period of Record" for some stations and data for many other locations are available through the EPA Data Storage and Retrieval system (STORET). Inquiries for New York water-quality data in the EPA system should be directed to:

Environmental Protection Agency
Water Quality Office
26 Federal Plaza
New York, New York 10007

A source of information on the availability of additional water-quality data is the "Catalog of Information on Water Data" which can be obtained from:

Office of Water Data Coordination
U.S. Geological Survey
Reston, Virginia 22092

WATER-SUPPLY PAPERS

The table below lists the annual series of water-supply papers that give information of quality of surface waters in New York. Data for the North Atlantic slope basins are given in part 1; for the Ohio River basin, in part 3; and for the St. Lawrence River basin, in part 4.

Water-supply papers can be ordered from: Branch of Distribution
U.S. Geological Survey
1200 South Eads Street
Arlington, VA 22202

Table 3.--Water-supply paper numbers and parts, water years 1950-70

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Year	Part 1	Part 3	Parts 4-5
1950	1186	1959	1641	1642	1968	2091	2093	2094
1951	1197	1960	1741	1742	1969	2141	2143	2144
1952	1250	1961	1881	1882	1970	2151	a2153	2154
1953	1290	1962	1941	1942				
1954	1350	1963	1947	1948				
1955	1400	1964	1954	1955				
1956	1450	1965	1961	1962				
1957	1520	1966	1991	1992				
1958	1571	1967	2011	2012				

a In press.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater (13th ed.): New York, Am. Public Health Assoc., 874 p.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geological Survey Water-Supply Paper 1696-B, 29 p.

Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.

Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1696-A, 32 p.

Barnett, P. R., and Mallory, Jr., E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A2, 31 p.

SELECTED REFERENCES

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5 chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Guy, H. P. 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

_____, 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water (2d ed.): U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lamar, W. L., Goerlitz, D. F., and Law, L. M., 1965, Identification and measurement of chlorinated organic pesticides in water by electron-capture gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-B, 12 p.

Lane, E. W., and others, 1947, Report of subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

SELECTED REFERENCES

Lohman, S. W., and others, 1972, Definitions of selected ground-water terms--revisions and conceptual refinements: U.S. Geol. Survey Water-Supply Paper 1988, p. 21.

Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p (open file).

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed.

Showen, C. R., and Williams, O. O., 1973, Index to Water-quality data available from the U.S. Geological Survey in machine-readable form to December 31, 1972, northeast region: U.S. Geol. Survey Water-Resources Investigations 21-73, 88 p.

Showen, C. R., and Stuthmann, N. G., 1973, Index to U.S. Geological computer files containing daily values for water parameters to September 30, 1971, Northeast region: U.S. Geol. Survey Water Resources Investigations 25-73, 358 p.

Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A-4, 165 p.

U.S. Geological Survey, Office of Water Data Coordination, 1973, Station listings for part A, Streamflow and stage; part 2, Quality of surface water; and part 3, Quality of ground water (1973 ed.). Three regional reports as follows:

Water Resources, Region 02 (Middle Atlantic), 197 p;
Water Resources, Region 04 (Great Lakes), 147 p; and
Water Resources, Region 05 (Ohio), 213 p.

Woodard, T. H., and Heidel, S. G., 1964, Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961: U.S. Geol. Survey Water-Supply Paper 1786, 490 p.

Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
feet (ft)	.3048	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4,047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometre (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3,785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-day (ft^3/s-day)	2,447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1,233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	$1.233.10^{-6}$	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9027	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

NORTH ATLANTIC SLOPE BASINS

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, at gaging station 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut state line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi^2 (526 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, October 1972 to September 1974.
Water temperatures: October 1958 to September 1959.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT. 25...	1020	48	2.2	40	0	--	47	--	22	--	9.7	--
NOV. 20...	1100	52	1.7	40	10	--	49	--	22	--	9.0	--
DEC. 19...	1115	253	5.0	190	30	--	29	--	13	--	4.3	--
JAN. 23...	1055	604	4.8	630	50	--	30	--	13	--	5.4	--
FEB. 21...	1130	464	4.1	500	30	--	32	--	13	--	4.5	--
MAR. 20...	1100	528	3.9	310	30	--	28	--	12	--	4.3	--
APR. 16...	1210	895	3.0	820	40	24	--	9.8	--	3.2	--	1.7
MAY 14...	1540	676	4.2	540	80	26	--	12	--	4.0	--	1.5
JUNE 25...	1500	117	5.5	300	30	40	--	17	--	6.4	--	1.8
JULY 25...	0715	58	--	200	20	41	--	18	--	10	--	2.1
AUG. 15...	1015	38	--	50	70	39	--	17	--	7.7	--	2.1
SEP. 18...	0900	61	--	190	280	42	--	16	--	7.9	--	1.9

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)
OCT. 25...	3.0	231	0	189	20	14	--	.3	.79	.01	.01	.21
NOV. 20...	2.8	227	0	186	22	15	--	.2	.91	.00	.05	.10
DEC. 19...	.6	129	0	106	20	7.8	--	.2	.89	.00	.03	.12
JAN. 23...	1.7	123	0	101	19	9.5	--	.0	1.1	.02	.06	.22
FEB. 21...	1.9	135	0	111	18	9.8	--	.2	1.3	.01	.13	.17
MAR. 20...	1.8	121	0	99	18	8.6	--	.1	1.2	.00	.12	.03
APR. 16...	--	107	0	88	16	6.6	.1	--	.73	.01	.07	.10
MAY 14...	--	110	0	90	15	5.8	.2	--	.48	.02	.03	.19
JUNE 25...	--	187	0	153	18	10	.2	--	1.1	.03	.00	.26
JULY 25...	--	188	0	154	21	17	--	--	.67	.01	.19	.07
AUG. 15...	--	198	0	162	22	13	--	--	.41	.01	.24	.12
SEP. 18...	--	205	0	168	19	13	--	--	.42	.00	.14	.09

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 25...	.22	1.0	.12	--	.10	232	248	182	0	0	208	18
NOV. 20...	.15	1.1	.09	--	.08	234	252	196	3	3	210	27
DEC. 19...	.15	1.0	.04	--	.03	144	155	125	11	9	130	20
JAN. 23...	.28	1.4	.05	--	.03	144	153	129	20	16	130	28
FEB. 21...	.30	1.6	.03	--	.02	150	180	136	11	9	130	23
MAR. 20...	.15	1.3	.03	--	.01	136	157	118	26	21	120	20
APR. 16...	.17	.91	.04	.02	--	--	136	119	16	11	--	--
MAY 14...	.22	.72	.04	.02	--	--	157	94	12	8	--	--
JUNE 25...	.26	1.4	.09	.07	--	--	223	170	8	4	--	--
JULY 25...	.26	.94	.05	.03	--	--	246	156	6	5	--	--
AUG. 15...	.36	.78	.04	.02	--	--	224	166	2	0	--	--
SEP. 18...	.23	.65	.05	.03	--	--	224	173	2	1	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 25...	435	7.6	10.0	--	--	11.4	101.	5	2800	40	--	.0
NOV. 20...	422	8.4	5.5	--	--	13.8	109	4	88	210	--	.0
DEC. 19...	277	7.1	.0	--	--	11.6	79	5	810	68	--	.0
JAN. 23...	274	6.8	1.0	--	--	13.2	94	7	880	420	--	.0
FEB. 21...	285	7.8	5.0	--	--	13.2	92	8	8200	52	--	.0
MAR. 20...	256	6.8	3.0	--	--	12.4	98	0	110	824	--	.0
APR. 16...	345	7.8	10.0	--	--	11.5	100	8	48	73	--	.0
MAY 14...	275	8.4	14.5	--	--	11.7	115	11	850	230	--	.0
JUNE 25...	290	8.1	17.0	--	--	9.2	95	8	4300	335	--	.0
JULY 25...	346	7.3	17.5	3	3	8.6	89	7	410	370	--	--
AUG. 15...	350	8.4	20.0	3	2	9.2	100	8	--	--	2.6	--
SEP. 18...	400	8.2	15.0	1	9	10.0	99	6	--	--	--	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
APR. 16...	1210	<1	20	1	<.5
AUG. 15...	1015	1	10	3	<.5

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

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, at gaging station on right bank at Beaver Dam, 30 ft (9 m) upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi (2.4 km) southwest of Bayville.

DRAINAGE AREA.--About 11.5 mi^2 (30 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.											
02...	1330	10	7.4	590	30	10	4.4	9.2	2.4	34	0
JAN.											
02...	1030	14	8.7	330	30	9.5	4.4	15	1.7	23	0
FEB.											
08...	1430	9.6	8.6	280	30	10	4.2	13	1.6	22	0
26...	1400	9.2	8.3	450	30	9.5	3.8	15	1.5	24	0
MAR.											
26...	1300	8.8	6.6	460	90	9.0	3.4	11	2.0	24	0
MAY											
14...	1400	11	7.0	750	60	10	3.8	12	1.4	21	1
JUNE											
04...	1345	9.6	7.1	620	60	9.8	3.8	10	1.2	25	0
27...	1400	9.2	7.3	900	1400	11	4.0	10	1.8	36	0
AUG.											
06...	1300	8.4	7.2	510	100	9.8	4.5	11	1.9	30	0
SEP.											
06...	1400	10	5.8	430	30	9.0	3.7	8.1	1.4	29	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV.											
02...	28	17	14	.3	.98	.02	.32	.13	.45	1.4	.04
JAN.											
02...	19	16	24	.2	1.4	.01	.10	.15	.25	1.6	.02
FEB.											
08...	18	19	20	.1	1.7	.01	.03	.19	.22	1.9	.01
26...	20	16	26	.2	1.4	.02	.12	.17	.29	1.7	.03
MAR.											
26...	20	16	19	.1	1.2	.01	.20	.22	.42	1.6	.03
MAY											
14...	19	16	17	.1	.46	.03	.07	.55	.62	1.1	.05
JUNE											
04...	21	15	15	.1	.50	.03	.00	.50	.50	1.0	.04
27...	30	16	15	.1	--	--	--	--	--	--	--
AUG.											
06...	25	16	16	.1	.02	.01	.48	.72	1.2	1.2	.08
SEP.											
06...	24	15	13	.1	.37	.01	.31	.27	.58	.96	.05

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
02...	--	81	145	6.4	11.0	9.2	.0	--	--	--	--
JAN.											
02...	--	91	195	6.6	1.0	13.4	.0	--	--	--	--
FEB.											
08...	--	87	170	7.0	7.0	10.7	.0	--	--	--	--
26...	--	92	170	7.6	7.0	11.6	.0	--	--	--	--
MAR.											
26...	--	79	170	6.6	5.0	--	.0	0	10	4	<.5
MAY											
14...	.02	81	160	8.6	19.0	6.7	--	--	--	--	--
JUNE											
04...	.01	77	142	8.6	23.0	7.5	.0	--	--	--	--
27...	--	84	138	8.6	19.5	12.0	--	--	--	--	--
AUG.											
06...	.02	82	145	8.8	28.0	7.0	.1	--	--	--	--
SEP.											
06...	.02	72	120	7.5	19.0	7.8	.0	--	--	--	--

01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 73°54'24", Suffolk County, at gaging station on left bank 50 ft (15 m) upstream from Long Island Railroad bridge 0.2 mi (0.3 km) northeast of Yaphank Station, and 0.5 mi (0.8 km) southeast of Yaphank.

DRAINAGE AREA.--About 71 mi^2 (184 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.											
02...	1100	28	9.4	370	100	6.5	2.8	7.5	1.5	18	0
DEC.											
28...	1400	33	9.4	290	80	7.1	2.9	6.2	1.1	13	0
FEB.											
14...	1030	33	10	480	110	6.7	2.4	6.5	1.2	15	0
27...	1200	31	10	410	90	6.5	2.3	6.8	1.2	17	0
MAR.											
28...	1300	31	9.9	370	80	6.1	2.5	6.2	1.3	14	0
MAY											
15...	1030	31	10	520	140	7.0	2.2	7.1	1.0	17	0
JUNE											
04...	1015	30	11	580	120	6.6	2.4	7.3	1.0	15	0
25...	1130	29	10	420	110	6.9	2.6	7.0	1.1	17	0
AUG.											
06...	0930	24	8.6	270	80	7.0	2.4	6.5	.7	8	0
SEP.											
06...	1100	24	8.8	240	80	6.5	2.2	6.6	1.0	16	0
27...	1245	23	8.2	250	70	6.5	2.3	7.5	.8	19	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV.											
02...	15	11	11	.2	.78	.00	.21	.03	.24	1.0	.01
DEC.											
28...	11	11	9.8	.3	.94	.00	.04	.03	.07	1.0	.01
FEB.											
14...	12	12	10	.1	.97	.00	.01	.04	.05	1.0	.01
27...	14	12	11	.2	1.1	.01	.03	.12	.15	1.2	.02
MAR.											
28...	11	12	9.8	.1	.93	.00	.00	.15	.15	1.1	.02
MAY											
15...	14	12	10	.1	.71	.03	.03	.16	.19	.93	.02
JUNE											
04...	12	11	10	.1	.75	.03	.01	.21	.22	1.0	.02
25...	14	12	9.6	.1	1.2	.02	.14	.15	.29	1.5	.02
AUG.											
06...	7	13	9.9	.2	.53	--	--	--	--	.65	.02
SEP.											
06...	13	11	9.6	.1	.61	.01	.15	--	.13	.75	.01
27...	16	13	12	.1	.60	.00	.14	.01	.15	.75	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
02...	--	59	108	5.8	11.5	10.2	.0	--	--	--	--
DEC.											
28...	--	54	110	7.3	9.0	9.4	.0	--	--	--	--
FEB.											
14...	--	56	110	6.6	5.0	10.6	.0	--	--	--	--
27...	--	58	115	5.9	6.0	10.1	.0	--	--	--	--
MAR.											
28...	--	55	105	6.4	10.0	--	.0	0	20	1	<.5
MAY											
15...	.00	61	124	6.2	17.0	7.5	--	--	--	--	--
JUNE											
04...	.00	60	100	6.1	18.0	9.5	.0	--	--	--	--
25...	.00	61	100	6.5	17.5	5.9	.0	--	--	--	--
AUG.											
06...	--	55	100	6.3	21.0	5.5	.0	--	--	--	--
SEP.											
06...	.01	56	100	6.0	17.0	7.0	.0	--	--	--	--
27...	.00	63	100	5.9	17.0	7.2	.0	--	--	--	--

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, at gaging station on left bank 350 ft (107 m) west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mi (0.3 km) north of Massapequa Park, and 3,000 ft (914 m) upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 mi^2 (98.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.											
05...	1415	4.0	8.4	310	2000	18	4.7	28	6.1	13	0
JAN.											
02...	1400	8.6	8.3	290	2000	18	4.3	26	9.7	33	0
FEB.											
11...	1200	9.5	7.8	300	350	18	4.2	32	5.3	29	0
27...	1530	8.6	7.6	370	1600	18	4.0	27	5.9	12	0
APR.											
02...	1145	14	8.4	210	1500	19	4.2	28	5.1	33	0
MAY											
15...	1315	9.0	7.7	160	500	19	3.8	27	6.0	31	0
JUNE											
05...	0900	7.2	8.7	180	830	19	4.2	27	6.0	27	0
27...	1100	5.8	8.1	100	390	22	4.2	27	5.6	16	0
AUG.											
07...	1000	3.7	6.5	150	780	19	4.6	28	6.2	33	0
SEP.											
09...	1000	6.3	7.8	260	1800	19	3.7	26	5.1	13	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV.											
05...	11	44	30	.2	6.6	.03	3.0	--	2.8	9.4	.01
JAN.											
02...	27	43	32	.1	6.8	.02	2.6	.00	2.6	9.4	.01
FEB.											
11...	24	44	37	.0	6.9	.02	3.0	--	2.2	9.1	.01
27...	10	42	33	.0	7.0	.03	2.9	--	2.6	9.6	.02
APR.											
02...	27	42	32	.1	7.0	.92	1.2	1.0	2.2	10	.02
MAY											
15...	25	41	30	.0	6.1	.06	2.0	.40	2.4	8.6	.02
JUNE											
05...	22	41	30	.0	6.3	.10	1.8	.40	2.2	8.6	.02
27...	13	45	32	.0	--	--	--	--	--	--	--
AUG.											
07...	27	43	29	.1	5.4	.04	1.4	--	--	6.4	.01
SEP.											
09...	11	43	30	.0	6.3	.14	2.9	--	2.5	8.9	.02

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
05...	--	146	320	6.4	10.0	12.1	.1	--	--	--	--
JAN.											
02...	--	158	330	6.7	7.0	12.2	.1	--	--	--	--
FEB.											
11...	--	163	375	6.6	5.0	11.9	.1	--	--	--	--
27...	--	143	345	6.2	11.5	9.9	.2	--	--	--	--
APR.											
02...	--	155	330	6.6	11.0	--	.2	1	10	10	<.5
MAY											
15...	.00	175	330	6.1	24.0	--	--	--	--	--	--
JUNE											
05...	.00	178	315	5.7	17.0	8.0	.2	--	--	--	--
27...	--	184	280	6.3	18.5	--	--	--	--	--	--
AUG.											
07...	.01	177	310	5.9	18.0	3.3	.3	--	--	--	--
SEP.											
09...	.01	169	310	6.1	18.0	6.0	.2	--	--	--	--

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, at gaging station on right bank in Freeport, 24 ft (7 m) upstream from bridge on Hempstead-Babylon Turnpike and 400 ft (122 m) west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 mi^2 (80 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.											
02...	1530	5.2	5.7	380	730	15	3.9	36	4.4	30	0
JAN.											
02...	1515	8.2	5.9	500	650	19	3.9	52	4.0	33	0
FEB.											
11...	1400	12	7.5	380	1200	25	5.3	100	5.7	47	0
28...	1330	11	6.7	330	900	23	4.5	60	5.5	47	0
APR.											
02...	1230	12	6.3	410	600	19	4.0	95	3.3	34	0
MAY											
14...	0930	7.7	5.7	320	570	17	3.4	46	3.8	31	0
JUNE											
05...	1200	4.8	6.3	320	390	18	4.0	57	4.1	27	0
25...	1200	4.8	7.3	380	620	22	4.5	29	4.3	36	0
AUG.											
07...	0845	1.2	5.9	480	340	20	4.0	76	4.0	34	0
SEP.											
09...	0830	4.4	5.1	260	480	14	3.8	42	2.6	28	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
NOV.											
02...	25	26	52	.2	2.7	.04	1.2	--	--	--	.03
JAN.											
02...	27	31	80	.1	3.4	.03	1.2	.00	1.2	4.6	.03
FEB.											
11...	39	51	150	.0	7.4	.03	3.7	--	2.4	9.8	.01
28...	39	46	86	.1	6.1	.04	3.4	--	3.3	9.4	.01
APR.											
02...	28	34	140	.1	4.0	.04	1.0	.10	1.1	5.1	.02
MAY											
14...	25	26	67	.1	2.9	.05	.82	.38	1.2	4.1	.03
JUNE											
05...	22	32	82	.1	3.0	.07	.40	.43	.83	3.9	.03
25...	30	45	34	.1	3.3	.08	.47	.93	1.4	4.8	.04
AUG.											
07...	28	34	120	.2	1.9	.04	.32	.58	.90	2.8	.06
SEP.											
09...	23	24	65	.0	1.9	.04	.71	.26	.97	2.9	.03

DATE	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.											
02...	--	158	335	6.2	13.0	5.7	.0	--	--	--	--
JAN.											
02...	--	212	415	6.7	6.0	11.0	.1	--	--	--	--
FEB.											
11...	--	368	750	6.1	7.0	10.2	.1	--	--	--	--
28...	--	255	525	6.5	10.0	8.3	.2	--	--	--	--
APR.											
02...	--	318	550	6.5	10.0	--	.1	1	10	33	<.5
MAY											
14...	.00	196	375	6.4	15.0	5.2	--	--	--	--	--
JUNE											
05...	.01	231	435	6.2	19.0	7.4	.1	--	--	--	--
25...	.00	183	350	6.5	17.5	7.6	.2	--	--	--	--
AUG.											
07...	.03	289	500	6.4	20.0	4.7	.2	--	--	--	--
SEP.											
09...	.01	180	330	6.1	17.0	4.9	.1	--	--	--	--

01316500 SCHROON LAKE AT POTTERSVILLE, N.Y.

LOCATION.--Lat 43°43'40", long 73°48'40", Warren County, at outlet at bridge on River Road, 0.8 mi (1.3 km) upstream from Trout Brook and 0.8 mi (1.3 km) east of Pottersville.

DRAINAGE AREA.--317 mi^2 (821 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE										
10...	1150	5.6	20	10	5.5	.8	1.9	.5	9	0
JULY										
23...	1145	--	130	20	7.8	1.0	2.0	.3	11	0
AUG.										
13...	1200	--	110	110	8.0	1.7	1.8	.4	15	--
SEP.										
04...	1200	--	90	40	7.5	1.2	2.0	.8	14	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JUNE									
10...	7	7.2	2.7	.2	.14	.01	.00	.19	.19
JULY									
23...	9	8.4	3.1	--	.08	.00	.10	.12	.22
AUG.									
13...	12	7.4	3.0	--	.20	.00	.12	.10	.22
SEP.									
04...	--	5.7	3.5	--	.04	.00	.04	.30	.34

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE									
10...	.34	.00	.00	41	28	3	0	51	7.1
JULY									
23...	.30	.01	.01	48	--	2	0	55	7.0
AUG.									
13...	.42	.01	.00	58	39	8	0	49	--
SEP.									
04...	.38	.01	.00	33	8	1	1	58	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE									
10...	--	--	9	--	.0	--	--	--	--
JULY									
23...	3	1	10	--	--	0	20	2	<.5
AUG.									
13...	1	1	11	4.3	--	0	0	7	<.5
SEP.									
04...	1	1	11	3.8	--	--	--	--	--

01316808 LOON LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°44'40", long 73°50'20", Warren County, at dam, at outlet of lake, at U.S. Highway 9 and State Highway 8, and 1.6 mi (2.6 km) northwest of Chestertown.

DRAINAGE AREA.--13.0 mi^2 (33.7 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE										
10...	1255	4.2	80	10	6.5	1.0	4.1	.5	16	0
JULY										
23...	1330	--	70	30	6.9	1.1	4.9	.4	16	0
AUG.										
13...	1250	--	150	90	6.4	1.3	4.2	.4	17	--
SEP.										
04...	1230	--	140	40	6.5	1.1	4.1	1.8	17	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JUNE									
10...	13	6.7	6.4	.0	.00	.01	.02	.28	.30
JULY									
23...	13	7.2	7.3	--	.01	.00	.19	.09	.28
AUG.									
13...	14	6.9	7.5	--	.01	.00	.22	.00	.22
SEP.									
04...	14	4.8	7.4	--	.01	.00	.14	.16	.30

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE									
10...	.30	.00	.00	56	35	2	0	70	6.8
JULY									
23...	.29	.01	.01	52	24	3	2	73	7.0
AUG.									
13...	.23	.01	.00	68	40	8	2	68	--
SEP.									
04...	.31	.01	.01	38	31	4	2	73	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE									
10...	--	--	13	--	.0	--	--	--	--
JULY									
23...	6	2	13	--	--	<1	60	1	<.5
AUG.									
13...	1	2	16	7.4	--	0	10	4	<.5
SEP.									
04...	2	1	13	6.1	--	--	--	--	--

01316815 FRIENDS LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°38'12", long 73°50'25", Warren County, on east side of lake, 0.2 mi (0.3 km) south of outlet and 2.0 mi (3.2 km) southwest of Chestertown.

DRAINAGE AREA.--5.70 mi^2 (14.76 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
JUNE 10...	1320	2.9	20	20	5.6	.8	1.5	.5	14	0
JULY 23...	1500	--	160	10	5.4	.9	1.4	.4	12	0
AUG. 13...	1335	--	60	70	6.9	1.1	1.5	.4	15	--
SEP. 04...	1330	--	160	480	5.6	1.1	1.9	.8	15	--

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JUNE 10...	11	6.4	1.6	.1	.00	.01	.01	.23	.24
JULY 23...	10	7.2	1.4	--	.49	.00	.11	.18	.29
AUG. 13...	12	7.1	1.7	--	.01	.00	.13	.12	.25
SEP. 04...	12	5.4	2.0	--	.01	.00	.07	.20	.27

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE 10...	.24	.01	.00	34	20	1	0	50	7.2
JULY 23...	.78	.01	.01	36	19	2	2	50	6.8
AUG. 13...	.26	.01	.01	37	23	6	2	48	--
SEP. 04...	.28	.01	.01	42	18	1	0	52	--

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 10...	--	--	10	--	.0	--	--	--	--
JULY 23...	1	2	11	--	--	0	20	3	<.5
AUG. 13...	1	2	11	5.5	--	0	0	5	<.5
SEP. 04...	2	2	10	4.2	--	--	--	--	--

01316895 BRANT LAKE OUTLET AT BRANT LAKE, N.Y.

LOCATION.--Lat 43°41'10", long 73°44'30", Warren County, at bridge on County Highway 26 and 0.1 mi (0.2 km) northeast of State Highway 8 in Brant Lake.

DRAINAGE AREA.--39.3 mi^2 (101.8 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JUNE 10...	1115	2.5	20	20	9.8	1.4	2.3	1.0	20	0
JULY 23...	1255	--	0	30	8.5	1.2	2.0	.8	20	0
AUG. 13...	1230	--	60	140	10	1.5	2.1	.6	25	--
SEP. 04...	1130	--	80	20	8.4	1.3	2.0	.9	21	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JUNE 10...	16	8.0	8.3	.1	.00	.01	.04	.29	.33
JULY 23...	16	8.8	3.2	--	.01	.00	.12	.12	.24
AUG. 13...	21	9.2	3.0	--	.37	.00	.19	.07	.26
SEP. 04...	--	5.9	3.6	--	.01	.00	.08	.15	.23

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE 10...	.34	.01	.00	53	28	4	0	71	7.1
JULY 23...	.25	.01	.01	52	--	4	2	72	6.9
AUG. 13...	.63	.01	.01	43	29	10	5	61	--
SEP. 04...	.24	.01	.00	41	8	1	1	72	--

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 10...	--	--	9	--	.0	--	--	--	--
JULY 23...	3	1	11	--	--	<1	40	2	<.5
AUG. 13...	2	2	13	6.2	--	<1	0	4	<.5
SEP. 04...	1	1	12	4.8	--	--	--	--	--

01317000 SCHROON RIVER AT RIVERBANK, N.Y.

LOCATION.--Lat 43°36'34", long 73°44'17", Warren County, at former gaging station, at highway bridge, at Riverbank, 0.6 mi (1.0 km) upstream from Alder Brook, 6.4 mi (10.3 km) downstream from dam at Starbuckville, and 11.8 mi (19.0 km) downstream from Schroon Lake.

DRAINAGE AREA.--527 mi^2 (1,365 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
JUNE 10...	1030	500	5.6	80	20	7.0	1.0	2.5	.4	18
JULY 23...	1100	--	--	170	20	8.4	1.4	2.6	.4	20
AUG. 13...	1120	132	--	190	90	10	1.8	2.4	.6	24
SEP. 04...	1030	184	--	170	20	8.6	1.5	2.5	1.0	23

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JUNE 10...	0	15	7.1	3.5	.1	.13	.01	.02	.22	.24
JULY 23...	0	16	8.6	4.3	--	.10	.00	.11	.16	.27
AUG. 13...	--	20	8.5	4.8	--	.08	.01	.15	.06	.21
SEP. 04...	--	19	5.9	5.3	--	.07	.00	.09	.16	.25

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
JUNE 10...	.38	.01	.00	44	27	0	0	64	7.0	--
JULY 23...	.37	.01	.01	56	32	4	2	73	7.2	--
AUG. 13...	.30	.01	.00	74	51	10	4	73	--	--
SEP. 04...	.32	.01	.00	50	36	6	5	78	7.3	17.5

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 10...	--	--	9	--	.0	--	--	--	--
JULY 23...	5	1	10	--	--	0	20	8	<.5
AUG. 13...	2	2	13	5.1	--	0	0	14	<.5
SEP. 04...	6	1	12	8.1	--	--	--	--	--

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, at gaging station 300 ft (91 m) upstream from bridge on Teachout Road in Griffin, 2.0 mi (3.2 km) downstream from Georgia Creek, 3 mi (5 km) upstream from mouth and 7 mi (11 km) upstream from Wells.

DRAINAGE AREA.--114 mi^2 (295 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 24...	1230	E40	7.6	450	60	--	6.0	--	1.5	--	2.7
NOV. 14...	1500	E62	7.5	120	0	--	5.2	--	1.3	--	2.5
DEC. 20...	1830	E130	6.5	90	0	--	5.2	--	1.1	--	1.5
JAN. 23...	1215	E390	6.0	210	30	--	4.5	--	.9	--	1.6
FEB. 21...	1315	E64	8.2	150	0	--	5.2	--	1.0	--	2.0
MAR. 22...	1530	E115	7.4	100	30	--	5.0	--	.9	--	1.6
APR. 25...	1130	470	5.1	780	20	2.7	--	.7	--	1.0	--
MAY 23...	2030	189	5.2	150	20	5.0	--	.9	--	1.5	--
JUNE 18...	1140	228	5.2	240	20	4.5	--	1.0	--	1.7	--
JULY 16...	1415	24	--	260	20	5.4	--	1.2	--	2.5	--
AUG. 08...	1330	47	--	240	30	4.9	--	1.2	--	1.6	--
SEP. 03...	0930	45	--	320	10	6.6	--	1.3	--	1.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 24...	--	.8	14	0	11	11	2.2	--	.4	.07	.00
NOV. 14...	--	.5	10	0	8	9.6	1.7	--	.2	.33	.00
DEC. 20...	--	.4	7	0	6	7.6	1.3	--	.4	.72	.00
JAN. 23...	--	.3	3	0	2	9.0	1.5	--	.1	.75	.00
FEB. 21...	--	.5	9	0	7	9.9	2.3	--	.1	.61	.00
MAR. 22...	--	.3	3	0	2	9.3	1.9	--	.0	.66	.00
APR. 25...	.4	--	4	0	3	7.2	.9	.1	--	.59	.01
MAY 23...	.3	--	6	0	5	8.1	1.4	.1	--	.27	.01
JUNE 18...	.4	--	8	0	7	9.4	1.9	.2	--	.14	.01
JULY 16...	.4	--	14	0	11	8.5	3.4	--	--	.29	.01
AUG. 08...	.6	--	6	2	8	10	1.7	--	--	.09	.00
SEP. 03...	.5	--	12	0	10	9.3	2.0	--	--	.09	.00

E Estimated value.

CONTINUED NEXT PAGE

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 24...	.01	.12	.13	.20	.13	--	.01	39	65	48
NOV. 14...	.00	.15	.15	.49	.00	--	.00	33	48	31
DEC. 20...	.03	.05	.08	.81	.01	--	.00	27	43	36
JAN. 23...	.05	.05	.10	.85	.01	--	.00	25	32	25
FEB. 21...	.03	.08	.11	.72	.00	--	.00	34	45	27
MAR. 22...	.07	.02	.09	.75	.01	--	.00	28	42	32
APR. 25...	.03	.13	.16	.76	.01	.00	--	--	31	--
MAY 23...	.04	.15	.19	.47	.01	.00	--	--	47	43
JUNE 18...	.05	.23	.28	.43	.01	.01	--	--	43	24
JULY 16...	.38	.00	.30	.60	.02	.01	--	--	44	28
AUG. 08...	.12	.16	.28	.37	.01	.00	--	--	41	18
SEP. 03...	.16	.10	.26	.35	.01	.00	--	--	60	28

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 24...	9	7	20	9	49	6.9	7.0	--	--	13.2
NOV. 14...	4	0	20	12	44	6.6	6.0	--	--	13.5
DEC. 20...	5	4	13	7	34	6.9	.0	--	--	14.6
JAN. 23...	0	0	13	11	45	6.2	.0	--	--	15.6
FEB. 21...	1	1	18	11	38	6.3	.0	--	--	14.1
MAR. 22...	5	2	14	12	35	6.6	.0	--	--	13.8
APR. 25...	4	1	--	--	42	6.3	5.0	--	--	14.0
MAY 23...	1	1	--	--	40	6.7	16.5	--	--	9.6
JUNE 18...	2	0	--	--	43	6.7	17.5	--	--	9.8
JULY 16...	2	0	--	--	53	7.3	23.5	20	1	9.2
AUG. 08...	3	2	--	--	50	7.2	22.0	20	1	9.2
SEP. 03...	2	0	--	--	47	7.1	17.0	40	2	8.7

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
24...	110	13	112	B6	--	.0	--	--	--	--
NOV.										
14...	110	9	B24	B2	--	.0	--	--	--	--
DEC.										
20...	120	10	B64	--	--	.0	--	--	--	--
JAN.										
23...	111	8	40	B10	--	.0	--	--	--	--
FEB.										
21...	98	8	B2	B1	--	.0	--	--	--	--
MAR.										
22...	105	7	21	B1	--	.0	--	--	--	--
APR.										
25...	88	10	B2	<1	--	.0	--	--	--	--
MAY										
23...	99	10	120	16	--	.0	--	--	--	--
JUNE										
18...	101	16	B260	B62	--	.0	--	--	--	--
JULY										
16...	107	15	690	B16	--	--	--	--	--	--
AUG.										
08...	106	13	--	--	5.5	--	--	--	--	--
SEP.										
03...	94	18	--	--	9.0	--	0	0	1	<.5

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

01325005 SACANDAGA RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°18'50", long 73°50'45", Saratoga County, at bridge on Corinth Road in Hadley, 0.1 mi (0.2 km) upstream from mouth and 1.3 mi (2.1 km) downstream from gaging station (01325000) near Hadley.

DRAINAGE AREA.--1,055 mi^2 (2,732 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
JUNE 10...	1435	E2020	4.7	70	30	4.6	.9	1.7	.5	6
JULY 23...	1640	E2540	--	130	70	5.0	.9	1.0	.6	7
AUG. 13...	1435	E2520	--	100	100	5.1	1.1	1.3	.8	8
SEP. 04...	1420	E2520	--	210	180	4.7	1.0	1.6	.6	10

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JUNE 10...	0	5	7.1	1.9	.0	.42	.01	.02	.29	.31
JULY 23...	0	6	7.8	1.6	--	.29	.00	.09	.10	.19
AUG. 13...	--	7	8.0	1.9	--	.24	.02	.17	.00	.13
SEP. 04...	--	8	6.0	2.2	--	.18	.00	.09	.21	.30

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE 10...	.74	.01	.00	38	18	0	0	45	6.8
JULY 23...	.48	.01	.01	40	--	2	0	43	6.8
AUG. 13...	.39	.01	.01	32	16	10	8	43	--
SEP. 04...	.48	.01	.00	28	19	2	1	47	--

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 10...	--	--	7	--	.0	--	--	--	--
JULY 23...	2	1	8	--	--	1	30	1	<.5
AUG. 13...	1	2	10	4.0	--	0	0	4	<.5
SEP. 04...	0	2	10	5.3	--	--	--	--	--

E Estimated value.

01325420 HUDSON RIVER AT CORINTH, N.Y.

LOCATION.--Lat 43°14'55", long 73°49'57", Saratoga County, at bridge on River Street, in Corinth, 0.2 mi (0.3 km) downstream from Sturdevant Creek, and 2.0 mi (3.2 km) downstream from Barber Brook.

DRAINAGE AREA.--2,755 mi^2 (7,135 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
16...	1300	E2660	4.2	170	50	--	5.2	--	1.1	--	3.0	--
NOV.												
13...	1315	E3060	4.1	0	0	--	5.5	--	1.2	--	2.0	--
JAN.												
22...	1215	E7330	4.9	140	20	--	4.8	--	1.1	--	1.8	--
FEB.												
19...	1210	E6820	5.0	210	30	--	5.1	--	1.1	--	1.3	--
APR.												
15...	1330	E13900	4.7	390	30	--	4.6	--	.8	--	1.1	--
MAY												
14...	1300	E17000	5.8	150	60	4.2	--	.9	--	1.5	--	.4
JUNE												
10...	1500	E3490	6.1	180	40	8.3	--	1.2	--	6.0	--	.7
JULY												
23...	1710	E4630	--	180	20	6.8	--	1.1	--	2.2	--	.4
AUG.												
13...	1500	E3280	--	160	160	7.0	--	2.0	--	1.5	--	.7
SEP.												
04...	1445	E3770	--	180	90	4.9	--	1.1	--	1.5	--	.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
16...	.4	15	0	12	7.0	2.5	--	.1	.19	.00	.03	.24
NOV.												
13...	.5	14	0	11	6.4	1.5	--	.2	.11	.00	.00	.19
JAN.												
22...	.4	9	0	7	7.8	2.3	--	.1	.40	.00	.12	.07
FEB.												
19...	.5	8	0	7	8.0	1.8	--	.0	.45	.00	.03	.13
APR.												
15...	.8	11	0	9	7.6	1.6	--	.1	.33	.00	.10	.09
MAY												
14...	--	8	0	7	8.0	1.5	.1	--	.35	.01	.03	.19
JUNE												
10...	--	15	0	12	7.2	4.1	.1	--	.18	.01	.05	.41
JULY												
23...	--	13	0	11	8.3	2.2	--	--	.23	.00	.11	.11
AUG.												
13...	--	12	--	10	9.0	2.0	--	--	.25	.01	.18	.17
SEP.												
04...	--	12	--	10	5.8	2.6	--	--	.16	.00	.07	.20

E Estimated value.

CONTINUED NEXT PAGE

01325420 HUDSON RIVER AT CORINTH, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 16...	.27	.47	.01	--	.00	31	63	--	4	0	18	5
NOV. 13...	.19	.31	.01	--	.01	28	41	22	8	3	19	7
JAN. 22...	.19	.59	.00	--	.00	28	45	--	16	--	17	9
FEB. 19...	.16	.61	.01	--	.00	27	42	24	6	4	17	11
APR. 15...	.19	.52	.03	--	.01	27	42	25	17	0	15	6
MAY 14...	.22	.58	.01	.00	--	--	51	27	7	0	--	--
JUNE 10...	.46	.65	.01	.00	--	--	48	26	1	1	--	--
JULY 23...	.22	.45	.01	.01	--	--	38	--	3	2	--	--
AUG. 13...	.35	.61	.01	.01	--	--	63	43	11	8	--	--
SEP. 04...	.27	.43	.01	.00	--	--	30	23	1	0	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 16...	51	6.8	--	--	9	--	.0	--	--	--	--
NOV. 13...	48	6.9	--	--	10	--	.0	--	--	--	--
JAN. 22...	49	6.7	--	--	9	--	.0	--	--	--	--
FEB. 19...	50	6.7	--	--	12	--	.0	--	--	--	--
APR. 15...	42	6.7	--	--	20	--	.0	--	--	--	--
MAY 14...	45	6.6	--	--	15	--	.0	--	--	--	--
JUNE 10...	68	6.7	--	--	10	--	.0	0	10	11	<.5
JULY 23...	53	6.9	2	2	9	--	--	--	--	--	--
AUG. 13...	48	--	1	2	25	4.8	--	0	0	15	<.5
SEP. 04...	50	--	1	2	11	3.3	--	--	--	--	--

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.

LOCATION.--Lat 43°14'00", long 73°45'20", Saratoga County, upstream from Niagara Mohawk Power Plant dam at Spier Falls, 0.5 mi (0.8 km) upstream from former gaging station (01326400) and 5.2 mi (8.4 km) downstream from Corinth.

DRAINAGE AREA.--2,778 mi^2 (7,195 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
16...	1345	E2660	4.5	220	40	--	6.0	--	1.3	--	3.0	--
NOV.												
13...	--	E3060	6.5	30	0	--	7.0	--	1.5	--	3.0	--
JAN.												
22...	1245	E7330	4.7	130	30	--	5.0	--	1.1	--	5.4	--
FEB.												
19...	1235	E6820	5.2	0	30	--	5.1	--	1.1	--	1.5	--
APR.												
15...	1400	E13900	4.9	190	40	--	4.9	--	.8	--	2.9	--
MAY												
14...	1330	E17000	5.6	140	40	4.6	--	.8	--	1.4	--	.3
JUNE												
10...	1530	E3490	5.3	230	40	5.9	--	1.1	--	2.5	--	.5
JULY												
08...	1445	E5050	--	220	70	6.5	--	1.0	--	2.5	--	.6
AUG.												
13...	1530	E3280	--	330	100	6.0	--	1.3	--	2.0	--	.5
SEP.												
04...	1515	E3770	--	250	140	7.5	--	2.0	--	2.1	--	1.0

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
16...	.5	15	0	12	8.0	2.5	--	.1	.22	.00	.00	.23
NOV.												
13...	.5	17	0	14	8.2	2.5	--	.1	.17	.01	.04	.12
JAN.												
22...	.4	8	0	7	8.6	8.1	--	.2	.33	.01	.16	--
FEB.												
19...	.4	9	0	7	8.5	2.0	--	.1	.44	.00	.04	.12
APR.												
15...	1.1	10	0	8	8.1	1.9	--	.1	.33	.00	.08	.07
MAY												
14...	--	7	0	6	8.5	1.5	.1	--	.23	.02	.05	.23
JUNE												
10...	--	12	0	10	7.7	3.1	.2	--	.34	.01	.09	.49
JULY												
08...	--	13	0	11	10	2.9	--	--	.20	.01	.13	.48
AUG.												
13...	--	17	--	14	9.2	2.5	--	--	.14	.01	.22	.00
SEP.												
04...	--	14	--	11	10	2.5	--	--	.13	.00	.12	.14

E Estimated value.

CONTINUED NEXT PAGE

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.												
16...	.23	.45	.01	--	.00	33	65	--	5	0	20	8
NOV.												
13...	.16	.34	.01	--	.05	38	51	27	6	4	24	10
JAN.												
22...	.15	.49	.00	--	.00	37	58	22	1	0	17	10
FEB.												
19...	.16	.60	.01	--	.00	28	41	21	4	4	17	10
APR.												
15...	.15	.48	.02	--	.00	30	41	29	5	5	16	7
MAY												
14...	.28	.53	.02	.00	--	--	44	--	5	0	--	--
JUNE												
10...	.58	.93	.02	.00	--	--	47	26	3	2	--	--
JULY												
08...	.61	.82	.02	.00	--	--	57	34	5	2	--	--
AUG.												
13...	.20	.35	.02	.00	--	--	59	34	13	12	--	--
SEP.												
04...	.26	.39	.01	.01	--	--	59	30	1	3	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	57	6.7	--	--	9	--	.0	--	--	--	--
NOV.											
13...	61	6.9	--	--	11	--	.0	--	--	--	--
JAN.											
22...	69	6.8	--	--	11	--	.0	--	--	--	--
FEB.											
19...	53	6.9	--	--	9	--	.0	--	--	--	--
APR.											
15...	45	6.8	--	--	10	--	.0	--	--	--	--
MAY											
14...	42	6.6	--	--	12	--	.0	--	--	--	--
JUNE											
10...	59	6.8	--	--	11	--	.0	0	10	8	<.5
JULY											
08...	63	6.9	20	2	19	--	--	--	--	--	--
AUG.											
13...	52	--	2	3	13	5.2	--	0	10	7	<.5
SEP.											
04...	65	--	1	2	12	8.2	--	--	--	--	--

01327600 HUDSON RIVER AT GLENS FALLS, N.Y.

LOCATION.--Lat 43°18'20", long 73°36'58", at Warren-Saratoga County line, at highway and quarry conveyor bridge, 0.1 mi (0.2 km) east of Glens Falls and 1.4 mi (2.3 km) downstream from bridge on U.S. Highway 9 and State Highway 32.

DRAINAGE AREA.--2,810 mi^2 (7,278 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 16...	1130	4.5	360	40	--	8.0	--	1.8	--	5.5	--	.5
NOV. 13...	1230	5.1	290	0	--	7.0	--	1.6	--	3.5	--	.5
JAN. 22...	1130	4.9	160	50	--	5.6	--	1.3	--	2.5	--	.4
FEB. 19...	1130	5.2	270	40	--	6.0	--	1.2	--	1.9	--	.5
MAR. 18...	1430	6.5	120	20	--	7.7	--	1.4	--	2.5	--	.5
APR. 15...	1245	5.4	190	20	--	5.6	--	1.0	--	2.0	--	.9
MAY 14...	1215	5.9	150	50	4.5	--	1.0	--	1.8	--	.4	--
JUNE 11...	1245	5.2	200	40	8.0	--	1.2	--	2.6	--	.5	--
JULY 08...	1415	--	250	580	10	--	1.3	--	3.8	--	.7	--
AUG. 14...	1215	--	270	130	11	--	1.8	--	2.7	--	.6	--
SEP. 03...	1330	--	130	100	6.5	--	1.2	--	1.4	--	.3	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 16...	18	0	15	14	6.5	--	.1	.76	.00	.05	.38	.43
NOV. 13...	16	0	13	12	3.0	--	.3	.39	.35	.00	.70	.70
JAN. 22...	10	0	8	10	3.4	--	.1	.39	.01	.18	.14	.32
FEB. 19...	8	0	7	12	2.9	--	.1	.42	.00	.03	.21	.24
MAR. 18...	16	0	13	12	4.1	--	.2	.43	.00	.54	.08	.62
APR. 15...	14	0	11	8.7	3.1	--	.2	.36	.00	.22	.05	.27
MAY 14...	9	0	7	8.9	1.7	.1	--	.29	.02	.05	.22	.27
JUNE 11...	11	0	9	12	4.3	.1	--	.34	.01	.06	.41	.47
JULY 08...	15	0	12	12	3.8	--	--	.20	.01	.22	.56	.78
AUG. 14...	15	--	12	13	4.4	--	--	.22	.01	.45	.00	.41
SEP. 03...	18	--	15	10	2.2	--	--	.21	.00	.16	.11	.27

CONTINUED NEXT PAGE

01327600 HUDSON RIVER AT GLENS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT. 16...	1.2	.01	--	.01	50	87	--	7	1	27	13	86
NOV. 13...	1.4	.01	--	.00	41	92	66	8	3	24	11	71
JAN. 22...	.72	.01	--	.00	33	62	31	0	0	19	11	59
FEB. 19...	.66	.63	--	.61	36	--	29	7	7	20	13	61
MAR. 18...	1.0	.10	--	.00	43	63	44	9	5	25	12	70
APR. 15...	.63	.08	--	.07	34	64	44	4	0	18	7	57
MAY 14...	.58	.02	.00	--	--	48	--	10	4	--	--	49
JUNE 11...	.82	.03	.00	--	--	57	38	1	1	--	--	72
JULY 08...	.99	.01	.00	--	--	59	31	6	4	--	--	74
AUG. 14...	.64	.02	.02	--	--	78	53	15	3	--	--	69
SEP. 03...	.48	.02	.01	--	--	57	31	1	0	--	--	55

DATE	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 16...	6.3	--	--	18	--	.00	.0	0	10	--	74
NOV. 13...	6.6	--	--	13	--	.02	.0	<1	10	4	3.3
JAN. 22...	6.7	--	--	11	--	.00	.0	1	7	6	2.7
FEB. 19...	6.5	--	--	13	--	--	.0	--	--	--	--
MAR. 18...	6.8	--	--	24	--	--	.0	--	--	--	--
APR. 15...	6.8	--	--	10	--	--	.0	<1	--	--	--
MAY 14...	6.5	--	--	18	--	.00	.0	2	10	2	<.5
JUNE 11...	6.6	--	--	13	--	.00	.0	0	10	9	<.5
JULY 08...	7.0	20	5	23	--	.00	--	0	20	21	<.5
AUG. 14...	--	3	6	24	8.2	.00	--	<1	10	13	<.5
SEP. 03...	--	2	10	12	4.9	.00	--	<1	10	1	<.5

01327700 HUDSON RIVER AT HUDSON FALLS, N.Y.

LOCATION.--Lat 43°18'00", long 73°35'30", Saratoga County, at Arkell and Smiths Pumphouse on west bank in Fenimore, across river from Hudson Falls and 1,500 ft (457 m) upstream from Fenimore Dam.

DRAINAGE AREA.--2,813 mi^2 (7,286 km^2).

PERIOD OF RECORD.--Water temperatures: November 1957 to September 1974.

EXTREMES.--1972-73:
Water temperatures: Maximum, 24.5°C on several days during July and August; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 16-18, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen many days during January and February. No record Oct. 5, 13, Mar. 31, May 18, 27, June 7, 16, 30, July 14, Aug. 18.

COOPERATION.--Water temperature record furnished by Arkell and Smiths Division of the Chase Bag Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	10.5	3.5	0.0	0.0	1.0	1.5	12.0	14.5	20.5	23.0	23.0
2	16.0	10.0	3.5	0.0	0.0	0.5	2.0	11.5	15.0	20.0	23.5	22.0
3	16.0	10.0	3.0	0.0	0.0	0.5	3.5	11.0	16.0	20.5	23.5	21.0
4	16.0	9.5	3.0	0.0	0.0	0.5	4.0	10.5	16.5	21.0	23.5	20.0
5	---	9.0	3.0	0.0	0.0	1.0	4.5	9.5	18.0	21.5	23.5	20.0
6	15.5	8.5	3.0	0.0	0.0	1.0	5.0	9.5	18.5	21.5	23.5	20.0
7	15.5	8.5	2.0	0.0	0.0	1.0	3.5	9.5	---	22.0	23.5	19.5
8	15.0	8.5	3.0	0.0	0.0	1.0	3.0	9.5	19.0	23.0	23.5	19.5
9	15.0	7.0	3.0	0.0	0.0	0.5	2.0	9.0	20.5	23.5	23.5	19.5
10	15.0	6.0	3.0	0.0	0.0	0.5	2.0	9.0	21.0	24.5	23.5	20.0
11	14.5	4.5	1.5	0.0	0.0	0.0	3.0	9.0	21.0	24.0	23.5	20.0
12	14.5	4.5	1.5	0.0	0.0	0.0	3.0	9.0	20.5	24.0	24.0	20.5
13	---	4.5	1.5	0.0	0.0	0.0	3.0	8.5	21.0	24.0	24.0	21.0
14	14.5	5.0	1.5	0.0	0.0	0.0	4.0	9.5	21.0	---	24.0	21.0
15	14.0	5.0	1.0	0.0	0.0	0.0	4.5	10.5	20.5	24.5	24.0	20.5
16	14.0	4.5	1.0	0.0	0.0	0.0	4.5	12.0	---	24.5	24.0	20.5
17	13.5	4.5	0.0	0.0	0.0	0.0	4.5	13.0	20.5	24.5	24.0	20.5
18	13.5	5.0	0.0	0.0	0.5	0.5	4.5	---	20.5	24.5	---	20.0
19	13.0	5.0	0.0	0.0	0.5	0.5	5.0	14.0	20.5	24.5	24.0	20.0
20	12.0	4.5	0.0	0.0	2.0	1.0	5.5	14.0	20.5	24.0	24.0	19.5
21	11.5	4.5	0.0	0.0	2.0	1.0	6.0	13.5	20.5	22.0	24.0	19.5
22	11.5	2.0	0.0	0.0	1.0	1.5	6.5	13.5	21.0	23.5	24.0	19.0
23	11.5	3.0	0.0	0.0	0.5	1.0	8.0	13.5	21.0	23.5	24.0	18.5
24	11.5	3.0	0.0	0.0	0.5	1.0	8.0	14.0	21.5	23.0	24.0	18.0
25	11.5	3.5	0.0	0.0	0.0	1.0	8.0	14.5	21.0	22.0	23.5	16.5
26	11.5	3.5	0.5	0.0	0.5	1.5	7.0	14.5	20.5	22.0	24.0	16.5
27	11.5	3.5	0.5	0.0	1.5	2.0	7.0	---	20.5	22.0	24.0	16.5
28	10.5	3.5	0.5	0.5	1.5	2.0	7.0	14.5	20.5	23.0	23.5	16.0
29	10.0	3.5	0.5	0.5	---	1.5	9.0	14.5	20.0	23.0	23.0	16.0
30	10.5	3.0	0.0	1.0	---	1.0	10.5	14.0	---	23.0	23.0	16.0
31	10.5	---	0.0	1.5	---	---	---	13.5	---	23.0	24.5	---
AVERAGE	13.5	5.5	1.5	0.0	0.5	1.0	5.0	11.5	19.5	23.0	23.5	19.5

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.

LOCATION (revised).--Lat 43°16'03°, long 73°35'12", Washington County, at village dock in Fort Edward and 0.1 mi (0.2 km) upstream from bridge on State Highway 197.

DRAINAGE AREA.--2,817 mi^2 (7,296 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

REMARKS.--Prior to November 13, 1973, sampling site was 0.3 mi (0.5 km) upstream. Sample collected Nov. 13, 1973 at 1130 hrs from new site. Sample collected Nov. 13, 1973 at 1200 hrs from old site.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
16...	1035	5.3	660	80	--	15	--	2.9	--	9.2	--	.9
NOV.												
13...	1130	5.3	1000	60	--	9.0	--	2.2	--	6.5	--	.6
13...	1200	5.0	40	0	--	8.0	--	2.0	--	5.2	--	.6
JAN.												
22...	1100	5.1	230	63	--	6.4	--	1.5	--	6.2	--	.7
FEB.												
19...	1045	5.2	60	30	--	6.3	--	1.2	--	3.2	--	.5
MAR.												
18...	1350	6.7	230	40	--	8.6	--	1.5	--	4.1	--	.6
APR.												
15...	1200	5.5	310	20	--	7.0	--	1.4	--	3.0	--	1.2
MAY												
14...	1120	6.0	380	40	5.0	--	1.0	--	2.4	--	.6	--
JUNE												
11...	1130	5.3	690	60	9.7	--	1.5	--	6.5	--	.8	--
JULY												
08...	1300	--	200	490	7.6	--	1.4	--	4.5	--	.6	--
AUG.												
14...	1130	--	210	510	11	--	1.9	--	5.5	--	.9	--
SEP.												
03...	1030	--	460	50	7.8	--	1.5	--	2.9	--	.5	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
16...	36	0	30	34	7.5	--	.0	1.6	.00	.09	.39	.48
NOV.												
13...	23	0	19	16	5.5	--	.1	.79	.00	.15	.61	.76
13...	19	0	16	17	5.0	--	.3	.87	.01	.00	.62	.62
JAN.												
22...	12	0	10	12	7.8	--	.1	.55	.01	.24	.26	.50
FEB.												
19...	11	0	9	12	3.4	--	.1	.60	.00	.24	.23	.47
MAR.												
18...	18	0	15	14	4.9	--	.1	.55	.00	.62	.22	.84
APR.												
15...	17	0	14	11	3.8	--	.1	.36	.00	.37	.11	.48
MAY												
14...	10	0	8	10	2.3	.1	--	.36	.01	.14	.31	.45
JUNE												
11...	20	0	16	19	5.7	.2	--	.56	.06	.19	1.8	2.0
JULY												
08...	16	0	13	14	4.2	--	--	.20	.01	.28	.68	.96
AUG.												
14...	16	--	13	20	4.5	--	--	.58	.02	.78	.14	.92
SEP.												
03...	21	--	17	15	3.1	--	--	.24	.07	.32	.27	.59

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.												
16...	2.1	.02	--	.01	93	214	155	11	4	49	20	176
NOV.												
13...	1.5	.04	--	.02	57	153	121	22	14	32	13	100
13...	1.5	.00	--	.00	52	171	133	30	9	28	13	94
JAN.												
22...	1.1	.03	--	.01	46	76	46	3	2	22	12	85
FEB.												
19...	1.1	.03	--	.01	37	57	32	7	4	21	12	71
MAR.												
18...	1.4	.04	--	.02	49	75	48	13	6	28	13	84
APR.												
15...	.84	.03	--	.01	41	72	59	10	4	23	9	70
MAY												
14...	.82	.03	.00	--	--	60	25	16	7	--	--	57
JUNE												
11...	2.6	.08	.04	--	--	109	77	52	36	--	--	110
JULY												
08...	1.2	.03	.01	--	--	65	37	6	5	--	--	77
AUG.												
14...	1.5	.02	.02	--	--	93	58	15	7	--	--	86
SEP.												
03...	.90	.06	.02	--	--	68	40	7	4	--	--	73

DATE	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	6.9	--	--	21	--	.00	.0	0	30	--	2.3
NOV.											
13...	6.8	--	--	8	--	.01	.0	<1	20	18	2.8
13...	6.7	--	--	15	--	--	.0	--	--	--	--
JAN.											
22...	6.7	--	--	12	--	.00	.0	0	12	13	2.4
FEB.											
19...	6.7	--	--	15	--	--	.0	--	--	--	--
MAR.											
18...	6.9	--	--	29	--	--	.0	--	--	--	--
APR.											
15...	6.8	--	--	15	--	--	.0	<1	--	--	--
MAY											
14...	6.8	--	--	21	--	.00	.0	2	10	12	<.5
JUNE											
11...	6.5	--	--	24	--	.00	.0	0	10	9	<.5
JULY											
08...	6.9	20	3	19	--	.01	--	<1	10	11	<.5
AUG.											
14...	--	8	5	29	9.6	.00	--	1	10	7	<.5
SEP.											
03...	--	2	9	20	4.5	.00	--	<1	10	17	<.5

01328770 HUDSON RIVER AT THOMSON, N.Y.

LOCATION.--Lat 43°07'36", long 73°35'16", Saratoga County, at bridge on State Highway 4, 0.6 mi (1.0 km) north of Thomson.

DRAINAGE AREA.--2,996 mi^2 (7,760 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1972 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
02...	1030	4.9	390	30	--	9.0	--	2.2	--	5.2	--	.6
30...	1045	4.3	270	600	--	9.0	--	1.9	--	5.0	--	.7
DEC.												
03...	1415	4.8	300	10	--	8.1	--	1.7	--	3.0	--	.7
JAN.												
08...	1330	5.2	230	10	--	7.2	--	1.5	--	3.1	--	.5
MAR.												
04...	1300	5.4	340	40	--	7.0	--	1.5	--	2.4	--	.6
APR.												
02...	1525	6.6	430	50	--	11	--	2.6	--	5.5	--	.8
15...	1140	5.3	810	30	--	8.6	--	2.2	--	3.1	--	1.3
MAY												
13...	1215	5.7	2400	120	7.8	--	2.3	--	2.7	--	1.0	--
JUNE												
10...	1320	5.0	340	60	8.6	--	1.4	--	4.2	--	.5	--
JULY												
09...	1445	--	270	40	11	--	1.5	--	3.0	--	.4	--
AUG.												
05...	1450	--	--	--	--	--	--	--	--	--	--	--
SEP.												
17...	1320	--	490	50	11	--	1.7	--	3.7	--	.4	--
30...	1145	--	530	70	10	--	2.7	--	4.2	--	.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
02...	18	0	15	14	8.7	--	.3	.88	.00	.00	.36	.36
30...	12	0	10	16	5.5	--	.3	1.2	.00	.02	1.1	1.1
DEC.												
03...	15	0	12	12	6.3	--	.4	.34	.16	.06	.15	.21
JAN.												
08...	17	0	14	12	3.2	--	.3	.44	.00	.19	.22	.41
MAR.												
04...	16	0	13	12	3.8	--	.0	.03	.02	.25	.28	.53
APR.												
02...	29	0	24	16	7.3	--	.2	.65	.01	.52	.19	.71
15...	23	0	19	14	4.3	--	.1	.40	.00	.31	.12	.43
MAY												
13...	20	0	16	12	3.1	.1	--	.54	.02	.20	.22	.42
JUNE												
10...	22	0	18	13	4.1	.1	--	.47	.01	.19	.35	.54
JULY												
09...	15	0	12	14	3.3	--	--	.24	.01	.20	.27	.47
AUG.												
05...	19	0	16	14	4.6	--	--	.25	.01	.39	.25	.64
SEP.												
17...	22	--	18	15	4.3	--	--	.26	.02	.63	.25	.88
30...	27	--	22	14	4.5	--	--	.36	.00	.39	.27	.66

01328770 HUDSON RIVER AT THOMSON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
02...	1.2	.00	--	.01	54	55	--	3	0	32	17
30...	2.3	.01	--	.01	49	67	30	4	0	30	20
DEC.											
03...	.72	.01	--	.01	44	60	38	8	6	27	15
JAN.											
08...	.86	.01	--	.00	41	63	46	8	8	24	10
MAR.											
04...	.58	.01	--	.00	41	54	41	14	8	24	11
APR.											
02...	1.4	.02	--	.01	64	81	56	14	12	38	14
15...	.83	.04	--	.02	50	81	61	27	20	31	12
MAY											
13...	.98	.07	.03	--	--	116	79	60	50	--	--
JUNE											
10...	1.0	.02	.00	--	--	60	37	6	6	--	--
JULY											
09...	.72	.02	.00	--	--	63	41	8	5	--	--
AUG.											
05...	.90	.02	.01	--	--	66	38	10	8	--	--
SEP.											
17...	1.2	.02	.02	--	--	76	--	14	5	--	--
30...	1.0	.03	.01	--	--	87	73	14	14	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
02...	94	6.7	--	--	19	--	.0	--	--	--	--
30...	97	6.0	--	--	16	--	.0	--	--	--	--
DEC.											
03...	72	6.2	--	--	15	--	.0	--	--	--	--
JAN.											
08...	72	7.0	--	--	12	--	.0	--	--	--	--
MAR.											
04...	71	6.9	--	--	14	--	.0	--	--	--	--
APR.											
02...	116	6.9	--	--	22	--	.0	--	--	--	--
15...	84	6.9	--	--	27	--	.0	--	--	--	--
MAY											
13...	77	7.2	--	--	17	--	.0	2	10	5	<.5
JUNE											
10...	90	7.0	--	--	13	--	.0	--	--	--	--
JULY											
09...	79	6.9	20	4	16	--	--	0	20	5	<.5
AUG.											
05...	71	6.5	4	4	19	5.1	--	--	--	--	--
SEP.											
17...	89	--	7	10	20	6.0	--	--	--	--	--
30...	103	--	8	20	18	8.0	--	--	--	--	--

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.

LOCATION.--Lat 43°05'55", long 73°31'32", Washington County, at Niagara Mohawk Power Plant in Middle Falls, 0.5 mi (0.8 km) downstream from Hartshorn Brook, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--434 mi^2 (1,124 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 10...	1130	1.5	130	20	--	28	--	9.8	--	6.2	--	1.1
NOV. 13...	1135	3.2	20	10	--	26	--	9.3	--	5.2	--	1.1
JUNE 11...	1045	2.2	200	60	26	--	7.0	--	3.5	--	1.2	--
JULY 08...	1130	--	130	220	23	--	5.9	--	3.3	--	.8	--
AUG. 14...	1045	--	190	130	30	--	8.4	--	4.1	--	1.1	--
SEP. 03...	1130	--	230	40	22	--	7.4	--	2.5	--	.6	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 10...	133	0	109	10	8.5	--	.2	.39	.00	.00	.16	.16
NOV. 13...	120	0	98	9.4	9.5	--	.2	.49	.00	.00	.10	.10
JUNE 11...	98	0	80	10	5.5	.1	--	.51	.01	.02	.39	.41
JULY 08...	83	0	68	11	4.6	--	--	.42	.01	.02	.26	.28
AUG. 14...	116	--	95	11	7.2	--	--	.40	.01	.19	.11	.30
SEP. 03...	93	--	76	7.0	4.3	--	--	.35	.00	.08	.14	.22

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 10...	.55	.01	--	.00	131	178	125	5	0	110	1
NOV. 13...	.59	.00	--	.00	123	222	182	13	7	100	5
JUNE 11...	.93	.01	.00	--	--	126	97	6	5	--	--
JULY 08...	.71	.02	.00	--	--	116	90	4	4	--	--
AUG. 14...	.71	.02	.01	--	--	155	108	11	5	--	--
SEP. 03...	.57	.01	.00	--	--	--	90	2	0	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 10...	253	8.0	--	--	6	--	.0	--	--	--	--
NOV. 13...	234	7.9	--	--	5	--	.0	--	--	--	--
JUNE 11...	198	7.6	--	--	6	--	.0	--	--	--	--
JULY 08...	182	7.6	2	3	9	--	--	--	--	--	--
AUG. 14...	221	--	1	5	36	2.1	--	0	0	9	<.5
SEP. 03...	172	--	7	4	10	3.9	--	--	--	--	--

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, temperature recorder at gaging station on left bank 600 ft (183 m) downstream from Glowegee Creek, 1.0 mi (1.6 km) east of West Milton, and 3.5 mi (5.6 km) northwest of Ballston Spa.

DRAINAGE AREA.--90 mi^2 (233 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1953 to June 1955.
Water temperatures: October 1952 to June 1970; June 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C July 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, (1952-69,71-74) 28.5°C July 10, 1955; minimum, (1952-70, 72-74) freezing point on many days during winter periods.

REMARKS.--Clock stopped Jan. 18-25, range in temperature 0.0°C to 2.5°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	9.5	9.0	5.0	3.0	1.5	1.0	1.0	0.0	0.0	0.0
2	12.5	11.0	9.0	8.5	3.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0
3	14.0	12.0	9.0	8.0	2.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0
4	16.0	13.5	8.0	6.5	3.0	1.5	1.5	1.0	0.0	0.0	1.5	1.0
5	16.0	14.0	7.0	6.0	6.5	3.0	1.0	1.0	0.0	0.0	2.0	1.0
6	14.5	13.0	6.0	5.0	6.5	5.5	1.0	1.0	0.0	0.0	1.5	0.5
7	13.0	11.5	5.0	4.0	5.5	4.5	1.0	1.0	0.0	0.0	2.5	1.0
8	13.0	11.0	5.0	4.5	4.5	3.0	1.0	1.0	0.0	0.0	2.5	1.5
9	12.5	11.5	5.0	4.0	3.0	2.5	1.0	1.0	0.5	0.0	1.5	1.0
10	12.5	10.5	4.5	3.0	3.5	3.0	1.0	1.0	0.5	0.0	3.0	1.5
11	12.0	10.0	3.0	2.0	3.5	3.0	1.0	1.0	0.0	0.0	2.5	1.0
12	11.5	9.5	4.5	3.0	3.0	1.5	1.0	1.0	0.0	0.0	2.5	1.0
13	12.5	10.0	5.5	4.5	1.5	1.0	1.0	1.0	0.0	0.0	1.5	1.0
14	13.0	12.0	8.0	5.5	3.0	1.5	1.0	1.0	0.0	0.0	2.0	0.5
15	12.0	10.5	7.5	6.5	2.5	1.5	1.0	1.0	0.0	0.0	2.5	0.5
16	11.0	9.5	7.0	5.5	1.5	1.0	1.0	1.0	0.0	0.0	2.0	1.0
17	10.0	9.5	5.5	4.0	2.0	1.0	1.5	1.0	0.0	0.0	1.5	1.0
18	10.0	9.0	4.5	4.0	1.0	1.0	---	---	0.0	0.0	2.5	1.0
19	9.0	8.5	5.5	4.5	2.0	1.0	---	---	0.0	0.0	2.0	1.5
20	10.0	9.0	4.5	3.0	1.5	1.0	---	---	0.0	0.0	3.0	1.5
21	10.0	9.0	3.5	2.0	1.5	1.0	---	---	0.0	0.0	2.5	0.5
22	9.5	8.0	5.5	3.5	1.0	1.0	---	---	0.0	0.0	1.0	0.5
23	10.0	8.0	5.0	4.5	1.0	1.0	---	---	0.0	0.0	2.5	0.5
24	10.0	8.5	5.0	4.0	1.0	1.0	---	---	0.0	0.0	3.0	2.0
25	10.5	9.0	6.0	5.0	1.5	1.0	---	---	0.0	0.0	2.0	1.0
26	10.5	8.5	6.0	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.5	1.0
27	10.5	9.5	5.5	5.0	1.0	1.0	0.0	0.0	0.0	0.0	3.0	1.0
28	9.5	8.0	7.0	5.5	1.0	1.0	0.0	0.0	0.0	0.0	3.5	1.0
29	8.0	7.5	7.0	6.0	1.5	1.0	0.5	0.0	---	---	2.0	1.0
30	10.0	8.0	6.0	5.0	1.5	1.5	1.0	0.5	---	---	1.5	1.0
31	9.5	8.5	---	---	1.5	1.0	1.5	0.5	---	---	2.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	2.5	16.0	13.0	17.5	13.5	20.5	17.0	20.5	18.0	17.5	15.5
2	4.0	3.0	13.0	10.0	16.5	14.5	20.5	17.5	20.0	18.0	17.0	16.0
3	5.5	2.0	11.5	9.0	17.0	13.5	20.0	18.5	21.0	19.0	16.5	13.5
4	5.5	4.5	12.0	8.5	18.5	14.0	22.5	18.5	21.0	19.5	13.5	12.5
5	5.5	4.5	12.0	8.5	20.5	15.5	22.5	20.0	20.5	18.5	14.0	11.0
6	4.5	3.0	11.0	8.0	20.0	17.0	22.0	18.0	20.5	17.5	13.0	12.0
7	4.0	2.5	8.5	7.5	19.5	16.5	23.5	19.0	19.5	17.5	16.0	12.5
8	5.0	4.0	10.5	7.5	21.0	16.5	24.5	20.5	19.0	16.0	16.5	14.0
9	4.0	1.5	10.5	9.5	23.0	17.5	24.5	21.0	19.0	17.5	17.0	14.5
10	4.0	1.0	9.5	9.5	24.5	19.5	25.5	22.0	19.0	17.5	18.0	15.0
11	6.0	2.0	11.0	9.0	23.5	20.0	23.5	19.5	19.5	16.5	18.5	16.5
12	5.5	4.5	11.0	10.0	20.0	16.5	22.0	18.0	19.5	16.0	18.5	16.5
13	6.0	5.5	10.0	9.5	18.5	14.0	22.5	18.0	19.5	17.0	20.0	18.0
14	8.0	6.0	13.5	9.5	18.0	16.0	25.0	19.5	20.5	18.5	19.0	15.5
15	8.0	6.5	17.5	13.0	19.0	15.5	25.0	22.0	21.0	19.0	15.5	13.0
16	8.5	6.0	17.5	14.5	18.0	17.0	24.0	21.0	20.5	17.5	15.0	13.0
17	10.0	7.0	18.0	15.0	17.5	16.5	22.5	18.0	20.5	18.5	14.0	11.5
18	10.5	8.0	18.5	15.5	18.5	17.0	22.5	19.5	20.0	17.5	13.5	12.5
19	11.0	8.5	17.5	14.5	18.0	16.0	23.5	20.0	21.0	17.5	14.0	11.5
20	10.0	7.0	16.5	12.5	20.0	16.5	22.0	18.5	21.0	18.5	15.5	14.0
21	11.5	7.5	14.5	12.0	19.5	17.0	20.0	16.5	21.0	19.0	15.5	14.0
22	13.0	10.5	17.5	12.5	19.0	16.0	21.5	16.5	20.5	18.5	14.0	12.5
23	13.0	12.0	17.5	16.5	18.5	16.5	21.0	18.0	20.5	18.5	12.5	10.5
24	12.0	9.5	16.5	14.5	20.0	15.5	20.5	17.5	20.5	18.5	10.5	8.5
25	11.0	7.5	15.0	13.0	18.5	16.5	18.0	16.5	20.0	18.0	9.5	8.5
26	12.5	8.5	14.0	12.0	17.0	16.0	18.5	16.5	19.5	16.0	11.0	9.5
27	13.0	8.5	13.0	11.5	17.5	15.5	19.5	18.0	19.5	18.5	12.5	10.0
28	14.5	10.0	14.0	11.5	18.5	15.5	21.5	18.0	19.5	18.0	12.5	12.0
29	16.0	13.0	13.5	12.5	18.0	16.5	22.0	18.0	18.0	16.5	14.0	12.5
30	16.0	14.5	16.5	12.0	18.5	16.0	20.5	18.0	16.5	16.0	14.0	11.5
31	---	---	15.5	13.5	---	---	20.5	18.0	17.0	15.0	---	---

01330770 KAYADEROSSERAS CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°02'37", long 73°46'16", Saratoga County, at bridge on Nelson Avenue, 200 ft (61 m) south of Kaydeross Avenue in Saratoga Springs and 200 ft (61 m) upstream from Bear Swamp Outlet.

DRAINAGE AREA.--173 mi^2 (448 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 16...	1010	6.3	160	30	--	28	--	8.7	--	17	--	1.9
NOV. 13...	1015	8.7	240	370	--	27	--	9.0	--	18	--	1.6
JAN. 21...	1150	8.2	190	30	--	27	--	8.7	--	11	--	1.0
MAR. 18...	1200	5.5	400	20	--	15	--	4.3	--	5.7	--	1.0
APR. 15...	1230	4.4	590	20	--	17	--	4.2	--	5.9	--	1.4
MAY 13...	1315	4.5	1200	80	13	--	4.8	--	5.6	--	.9	--
JUNE 10...	1415	4.1	330	70	24	--	7.0	--	13	--	1.4	--
JULY 09...	1545	--	260	40	29	--	8.4	--	11	--	1.1	--
AUG. 05...	1620	--	90	20	29	--	9.0	--	11	--	1.2	--
SEP. 17...	1145	--	290	40	29	--	8.2	--	12	--	1.2	--
30...	1300	--	550	90	27	--	7.7	--	7.5	--	1.4	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 16...	120	0	98	17	21	--	.3	.51	.00	.00	.18	.18
NOV. 13...	112	0	92	22	20	--	.3	.71	.00	.00	.34	.34
JAN. 21...	96	0	79	22	17	--	.1	.52	.08	.18	.11	.29
MAR. 18...	49	0	40	16	10	--	.1	.40	.01	.13	.09	.22
APR. 15...	57	0	47	14	10	--	.1	.22	.01	.10	.12	.22
MAY 13...	57	0	47	14	8.5	.1	--	.16	.01	.04	.64	.68
JUNE 10...	118	0	97	16	18	.1	--	.21	.03	.09	.33	.42
JULY 09...	110	0	90	17	17	--	--	.29	.03	.10	.27	.37
AUG. 05...	109	0	89	18	19	--	--	1.1	.04	.22	.19	.41
SEP. 17...	113	--	93	16	19	--	--	.21	.01	.29	.15	.44
30...	87	--	71	11	13	--	--	.18	.00	.21	.31	.52

01330770 KAYADEROSSERAS CREEK AT SARATOGA SPRINGS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT.											
16...	.69	.10	--	.07	160	183	134	5	0	110	7
NOV.											
13...	1.0	.07	--	.05	162	143	98	12	6	100	13
JAN.											
21...	.89	.04	--	.02	142	175	111	16	4	100	25
MAR.											
18...	.63	.03	--	.01	82	109	83	16	12	55	15
APR.											
15...	.45	.04	--	.01	85	112	88	17	16	60	13
MAY											
13...	.85	.06	.02	--	--	138	84	31	14	--	--
JUNE											
10...	.66	.05	.03	--	--	163	125	4	1	--	--
JULY											
09...	.69	.05	.03	--	--	174	122	4	3	--	--
AUG.											
05...	1.5	.05	.03	--	--	179	140	6	4	--	--
SEP.											
17...	.66	.07	.05	--	--	173	139	2	0	--	--
30...	.70	.05	.02	--	--	155	118	11	9	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	292	7.4	--	--	22	--	.0	--	--	--	--
NOV.											
13...	289	7.6	--	--	9	--	.0	--	--	--	--
JAN.											
21...	260	7.4	--	--	7	--	.0	--	--	--	--
MAR.											
18...	150	7.3	--	--	14	--	.0	--	--	--	--
APR.											
15...	160	7.4	--	--	13	--	.0	--	--	--	--
MAY											
13...	158	7.5	--	--	22	--	.0	--	--	--	--
JUNE											
10...	274	8.0	--	--	9	--	.0	0	0	15	<.5
JULY											
09...	270	7.8	8	2	10	--	--	--	--	--	--
AUG.											
05...	231	7.9	3	2	--	3.4	--	0	0	4	<.5
SEP.											
17...	260	--	4	2	14	--	--	--	--	--	--
30...	208	--	30	5	22	9.5	--	--	--	--	--

01330885 FISH CREEK AT SARATOGA SPRINGS, N.Y.

LOCATION.--Lat 43°04'27", long 73°41'45", Saratoga County, at Staffords Bridge at Saratoga Springs corporate boundary and 2.2 mi (3.5 km) downstream from Saratoga Lake.

DRAINAGE AREA.--229 mi^2 (593 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 16...	1045	1.5	90	50	--	25	--	6.8	--	11	--	1.4
NOV. 13...	1045	.9	30	30	--	24	--	6.9	--	11	--	1.4
JAN. 21...	1230	3.7	110	60	--	27	--	7.4	--	11	--	1.2
FEB. 19...	1230	2.9	240	40	--	26	--	6.8	--	10	--	1.3
MAR. 18...	1130	3.6	220	50	--	24	--	6.0	--	9.5	--	1.2
APR. 15...	1200	2.4	80	20	--	22	--	5.0	--	9.0	--	1.6
MAY 13...	1340	.6	130	40	18	--	6.0	--	9.8	--	1.1	--
JUNE 10...	1350	1.0	60	20	--	--	--	--	--	--	--	--
JULY 09...	1515	--	20	60	25	--	6.3	--	9.5	--	1.0	--
AUG. 05...	1545	--	50	30	26	--	6.8	--	10	--	1.3	--
SEP. 17...	1220	--	50	40	25	--	6.6	--	10	--	1.0	--
30...	1215	--	280	70	24	--	6.7	--	10	--	1.1	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 16...	99	0	81	15	16	--	.3	.24	.00	.00	.27	.27
NOV. 13...	98	0	80	15	17	--	.3	.12	.00	.00	.31	.31
JAN. 21...	95	0	78	21	17	--	.1	.29	.04	.18	.15	.33
FEB. 19...	88	0	72	20	17	--	.1	.27	.02	.12	1.8	1.9
MAR. 18...	82	0	67	19	16	--	.2	.35	.02	.11	.12	.23
APR. 15...	75	0	62	18	16	--	.1	.25	.00	.16	.13	.29
MAY 13...	76	0	62	17	10	.2	--	.12	.01	.04	.24	.28
JUNE 10...	88	0	72	17	16	.2	--	.05	.01	.04	3.4	3.4
JULY 09...	88	0	72	19	16	--	--	.00	.01	.10	.36	.46
AUG. 05...	86	0	71	18	17	--	--	1.1	.01	.42	.58	1.0
SEP. 17...	90	--	74	16	17	--	--	.02	.00	.42	.68	1.1
30...	88	--	72	11	17	--	--	.01	.00	.18	.50	.68

01330885 FISH CREEK AT SARATOGA SPRINGS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
16...	.51	.02	--	.01	126	158	99	7	1	90	9
NOV.											
13...	.43	.01	--	.00	125	167	138	6	4	88	8
JAN.											
21...	.66	.04	--	.02	135	154	129	0	0	98	20
FEB.											
19...	2.2	.02	--	.02	128	139	111	5	4	93	21
MAR.											
18...	.60	.02	--	.01	120	140	113	7	4	85	17
APR.											
15...	.54	.03	--	.01	111	128	100	5	4	76	14
MAY											
13...	.41	.01	.00	--	--	137	86	8	0	--	--
JUNE											
10...	3.5	.02	.01	--	--	135	103	2	0	--	--
JULY											
09...	.47	.02	.00	--	--	143	109	6	4	--	--
AUG.											
05...	2.1	.02	.02	--	--	142	107	8	5	--	--
SEP.											
17...	1.1	.04	.01	--	--	141	94	2	0	--	--
30...	.69	.03	.01	--	--	140	115	7	4	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	239	7.6	--	--	11	--	.0	--	--	--	--
NOV.											
13...	239	7.8	--	--	9	--	.0	--	--	--	--
JAN.											
21...	255	7.4	--	--	9	--	.0	--	--	--	--
FEB.											
19...	247	7.4	--	--	11	--	.0	--	--	--	--
MAR.											
18...	216	7.3	--	--	14	--	.0	--	--	--	--
APR.											
15...	198	7.7	--	--	12	--	.0	--	--	--	--
MAY											
13...	210	7.8	--	--	11	--	.0	--	--	--	--
JUNE											
10...	221	8.2	--	--	11	--	.0	--	--	--	--
JULY											
09...	226	8.7	3	2	12	--	--	0	10	4	<.5
AUG.											
05...	201	8.3	3	7	23	5.9	--	1	0	7	<.5
SEP.											
17...	222	--	2	5	21	7.0	--	--	--	--	--
30...	222	--	5	5	20	8.7	--	--	--	--	--

01330915 FISH CREEK AT SCHUYLERVILLE, N.Y.

LOCATION.--Lat 43°05'50", long 73°34'39", Saratoga County, 200 ft (61 m) upstream from mouth in Schuylerville and 0.3 mi (0.5 km) downstream from U.S. Highway 4.

DRAINAGE AREA.--252 mi^2 (653 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
16...	1115	2.3	230	50	--	26	--	7.2	--	12	--	1.7
NOV.												
13...	1115	.8	100	30	--	25	--	7.3	--	12	--	1.4
FEB.												
19...	1300	2.8	0	40	--	26	--	7.0	--	10	--	1.3
MAR.												
18...	1105	3.9	440	40	--	25	--	6.0	--	8.9	--	1.4
APR.												
15...	1125	2.2	800	40	--	24	--	5.2	--	8.5	--	2.0
MAY												
13...	1200	2.3	2900	100	16	--	6.1	--	7.0	--	1.5	--
JUNE												
10...	1250	1.2	360	70	25	--	6.9	--	10	--	1.1	--
JULY												
09...	1420	--	280	70	23	--	6.4	--	10	--	1.1	--
AUG.												
05...	1415	--	320	80	26	--	7.0	--	10	--	1.5	--
SEP.												
17...	1300	--	330	80	26	--	6.7	--	9.8	--	1.2	--
30...	1130	--	850	100	25	--	6.7	--	8.7	--	1.6	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
16...	105	0	86	16	16	--	.3	.83	.00	.00	.27	.27
NOV.												
13...	98	0	80	15	17	--	.3	.16	.00	.00	.24	.24
FEB.												
19...	89	0	73	21	17	--	.1	.29	.02	.09	.21	.30
MAR.												
18...	79	0	65	19	15	--	.2	.44	.03	.10	.22	.32
APR.												
15...	76	0	62	18	14	--	.1	.30	.04	.19	.27	.46
MAY												
13...	66	0	54	18	11	.1	--	.32	.03	.08	.50	.58
JUNE												
10...	90	0	74	17	16	.1	--	.06	.01	.08	.46	.54
JULY												
09...	82	0	67	18	16	--	--	.03	.01	.21	.34	.55
AUG.												
05...	88	0	72	19	17	--	--	.08	.01	.72	.27	.99
SEP.												
17...	89	--	73	16	16	--	--	.13	.02	.46	.64	1.1
30...	90	--	74	12	15	--	--	.21	.00	.28	.44	.72

01330915 FISH CREEK AT SCHUYLERVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
16...	1.1	.19	--	.07	133	162	100	8	0	95	8
NOV.											
13...	.41	.01	--	.01	127	206	165	11	4	92	12
FEB.											
19...	.61	.02	--	.01	129	148	122	6	4	94	21
MAR.											
18...	.79	.05	--	.01	118	145	123	13	13	87	22
APR.											
15...	.80	.05	--	.03	112	155	122	36	36	81	19
MAY											
13...	.93	.11	.05	--	--	201	132	86	67	--	--
JUNE											
10...	.61	.03	.02	--	--	144	113	7	4	--	--
JULY											
09...	.59	.05	.02	--	--	158	108	8	7	--	--
AUG.											
05...	1.1	.07	.03	--	--	148	108	20	14	--	--
SEP.											
17...	1.3	.07	.02	--	--	153	114	12	6	--	--
30...	.93	.07	.02	--	--	169	137	24	22	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
16...	256	7.2	--	--	10	--	.0	--	--	--	--
NOV.											
13...	241	7.7	--	--	11	--	.0	--	--	--	--
FEB.											
19...	248	7.6	--	--	11	--	.0	--	--	--	--
MAR.											
18...	213	7.5	--	--	13	--	.0	--	--	--	--
APR.											
15...	197	7.6	--	--	15	--	.0	--	--	--	--
MAY											
13...	184	7.5	--	--	20	--	.0	--	--	--	--
JUNE											
10...	230	7.7	--	--	13	--	.0	2	0	3	<.5
JULY											
09...	227	7.7	5	4	12	--	--	--	--	--	--
AUG.											
05...	196	7.5	2	10	21	5.9	--	<1	0	4	<.5
SEP.											
17...	218	--	2	8	20	6.9	--	--	--	--	--
30...	222	--	20	20	23	11	--	--	--	--	--

01331095 HUDSON RIVER AT STILLWATER, N.Y.

LOCATION.--Lat 42°56'16", long 73°39'04", Saratoga and Rensselaer Counties, at bridge on State Highway 67 in Stillwater and 0.9 mi (1.4 km) upstream from Hoosic River.

DRAINAGE AREA.--3,773 mi^2 (9,772 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
02...	1200	4.8	250	40	--	12	--	3.0	--	6.5	--	.7
30...	1125	4.6	280	40	--	9.5	--	2.4	--	6.5	--	.6
DEC.												
03...	1335	4.3	240	20	--	9.4	--	2.1	--	4.0	--	.7
JAN.												
08...	1245	5.0	240	20	--	9.5	--	2.2	--	3.1	--	.6
FEB.												
04...	1400	4.7	300	40	--	9.5	--	2.2	--	3.1	--	.5
MAR.												
04...	1225	5.1	190	40	--	9.7	--	2.3	--	3.1	--	.7
18...	1030	3.4	2100	100	--	15	--	4.3	--	4.7	--	1.4
APR.												
02...	1445	5.3	350	50	--	16	--	4.0	--	6.5	--	.9
15...	1030	4.6	480	30	--	12	--	2.6	--	3.5	--	1.4
MAY												
13...	1140	5.1	2200	80	11	--	3.0	--	3.0	--	.9	--
JUNE												
10...	1215	4.7	250	50	10	--	2.0	--	4.9	--	.7	--
JULY												
09...	1345	--	240	50	10	--	2.0	--	3.7	--	.7	--
AUG.												
05...	1330	--	1900	120	14	--	2.8	--	3.2	--	1.1	--
SEP.												
17...	1410	--	250	50	13	--	2.5	--	4.1	--	.7	--
30...	1100	--	520	70	17	--	3.7	--	4.5	--	.9	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
02...	30	0	25	17	6.3	--	.3	.99	.00	.01	.29	.30
30...	23	0	19	18	5.5	--	.3	.92	.01	.01	.28	.29
DEC.												
03...	21	0	17	12	7.0	--	.3	.58	.00	.00	.17	.17
JAN.												
08...	28	0	23	12	4.3	--	.3	.35	.00	.15	.15	.30
FEB.												
04...	24	0	20	15	4.5	--	.1	.59	.01	.17	.23	.40
MAR.												
04...	26	0	21	14	4.5	--	.2	.60	.02	.27	.14	.41
18...	50	0	41	14	7.6	--	.2	.68	.03	.19	.15	.34
APR.												
02...	48	0	39	19	8.0	--	.1	.77	.01	.53	.33	.86
15...	36	0	30	13	5.5	--	.1	.49	.00	.25	.17	.42
MAY												
13...	29	0	24	14	4.8	.1	--	.41	.02	.08	.25	.33
JUNE												
10...	32	0	26	14	4.7	.1	--	.56	.02	.15	.35	.50
JULY												
09...	24	0	20	13	4.1	--	--	.24	.01	.19	.27	.46
AUG.												
05...	27	0	22	14	4.9	--	--	.26	.01	.37	.30	.67
SEP.												
17...	33	--	27	15	4.5	--	--	.36	.03	.48	.25	.73
30...	39	--	32	13	4.9	--	--	.39	.01	.28	.28	.56

01331095 HUDSON RIVER AT STILLWATER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
02...	1.3	.01	--	.00	65	80	41	3	0	42	18
30...	1.2	.01	--	.00	59	73	50	0	0	34	15
DEC.											
03...	.75	.01	--	.01	50	58	39	5	5	32	15
JAN.											
08...	.66	.01	--	.00	51	74	54	8	8	33	10
FEB.											
04...	1.0	.02	--	.00	51	68	40	8	6	33	13
MAR.											
04...	1.0	.01	--	.00	52	67	51	17	12	34	12
18...	1.0	.08	--	.04	75	145	120	37	30	55	14
APR.											
02...	1.6	.02	--	.01	83	101	67	6	5	56	17
15...	.91	.02	--	.01	60	89	63	16	11	41	11
MAY											
13...	.76	.05	.02	--	--	117	76	48	38	--	--
JUNE											
10...	1.1	.02	.00	--	--	71	49	5	3	--	--
JULY											
09...	.71	.02	.00	--	--	72	46	8	6	--	--
AUG.											
05...	.94	.02	.00	--	--	69	41	10	8	--	--
SEP.											
17...	1.1	.03	.02	--	--	78	--	4	4	--	--
30...	.96	.02	.01	--	--	95	79	13	11	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
02...	119	6.8	--	--	12	--	.0	--	--	--	--
30...	110	6.8	--	--	13	--	.0	--	--	--	--
DEC.											
03...	83	6.5	--	--	15	--	.0	--	--	--	--
JAN.											
08...	90	7.1	--	--	11	--	.0	--	--	--	--
FEB.											
04...	96	7.1	--	--	11	--	.0	--	--	--	--
MAR.											
04...	97	6.9	--	--	13	--	.0	--	--	--	--
18...	141	7.5	--	--	12	--	.0	--	--	--	--
APR.											
02...	162	7.2	--	--	22	--	.0	--	--	--	--
15...	109	7.2	--	--	10	--	.0	--	--	--	--
MAY											
13...	92	7.3	--	--	13	--	.0	<1	10	4	<.5
JUNE											
10...	103	7.0	--	--	12	--	.0	--	--	--	--
JULY											
09...	93	7.2	20	3	15	--	--	0	10	4	<.5
AUG.											
05...	84	6.7	3	5	18	5.2	--	--	--	--	--
SEP.											
17...	106	--	8	5	16	--	--	--	--	--	--
30...	126	--	7	9	16	6.9	--	--	--	--	--

01333350 HOOSIC RIVER BEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y.-Bennington County-Vt., at bridge on New York-Vermont State Highway 346, at state line, and 1.3 mi (2.1 km) northwest of North Pownal, Vt.

DRAINAGE AREA.--302 mi^2 (782 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
16...	0900	359	1.7	320	140	--	34	--	11	--	31	--
NOV.												
13...	1000	363	3.9	0	0	--	27	--	9.7	--	17	--
JAN.												
22...	0930	918	3.4	1200	280	--	24	--	6.5	--	30	--
MAR.												
18...	1230	890	3.3	360	160	--	18	--	4.6	--	7.2	--
APR.												
15...	1015	E6400	2.4	5200	270	--	12	--	3.2	--	3.0	--
MAY												
14...	0920	1650	3.7	1000	60	14	--	4.0	--	4.0	--	.8
JUNE												
11...	0930	296	2.0	420	90	28	--	7.8	--	11	--	1.2
JULY												
08...	1020	382	--	930	140	24	--	6.6	--	6.8	--	1.2
AUG.												
14...	0930	106	--	350	130	40	--	11	--	24	--	2.0
SEP.												
04...	1030	--	--	930	170	21	--	6.4	--	6.5	--	1.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
16...	3.5	170	0	139	23	27	--	.3	1.6	.00	.01	.31
NOV.												
13...	2.0	120	0	98	23	19	--	.2	1.6	.00	.00	.57
JAN.												
22...	1.2	79	0	65	21	45	--	.1	.90	.07	.32	.58
MAR.												
18...	1.0	58	0	48	16	11	--	.2	.75	.00	.24	.17
APR.												
15...	1.9	36	0	30	13	5.3	--	.1	.42	.03	.40	.48
MAY												
14...	--	50	0	41	11	5.7	.1	--	.50	.04	.10	.16
JUNE												
11...	--	102	0	84	18	16	.1	--	.58	.08	.13	.49
JULY												
08...	--	90	0	74	17	9.2	--	--	.53	.05	.15	.27
AUG.												
14...	--	138	--	113	25	29	--	--	1.1	.19	.56	.14
SEP.												
04...	--	81	--	66	14	8.9	--	--	.46	.02	.28	.25

E Estimated value.

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 16...	.32	1.9	.28	--	.21	216	259	190	8	1	130	0
NOV. 13...	.57	2.2	.01	--	.01	161	--	--	10	5	110	9
JAN. 22...	.90	1.9	.45	--	.07	170	236	184	44	3	87	22
MAR. 18...	.41	1.2	.04	--	.01	90	116	96	11	10	64	16
APR. 15...	.88	1.3	.24	--	.05	59	293	249	224	197	43	14
MAY 14...	.26	.80	.08	.03	--	--	112	75	32	25	--	--
JUNE 11...	.62	1.3	.09	.05	--	--	171	136	9	8	--	--
JULY 08...	.42	1.0	.09	.04	--	--	152	113	14	13	--	--
AUG. 14...	.70	2.0	.18	.13	--	--	253	210	16	10	--	--
SEP. 04...	.53	1.0	.08	.03	--	--	159	115	30	23	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 16...	409	7.9	--	--	7	--	.0	--	--	--	--
NOV. 13...	311	7.5	--	--	7	--	.0	--	--	--	--
JAN. 22...	331	7.3	--	--	15	--	.0	--	--	--	--
MAR. 18...	172	7.4	--	--	8	--	.0	--	--	--	--
APR. 15...	101	7.3	--	--	40	--	.0	--	--	--	--
MAY 14...	131	7.4	--	--	13	--	.0	--	--	--	--
JUNE 11...	258	7.6	--	--	8	--	.0	<1	20	23	<.5
JULY 08...	214	7.6	1	6	14	--	--	--	--	--	--
AUG. 14...	335	--	2	5	13	3.8	--	<1	0	21	<.5
SEP. 04...	184	--	9	20	16	5.9	--	--	--	--	--

01335400 HOOSIC RIVER NEAR STILLWATER, N.Y.

LOCATION.--Lat 42°55'56", long 73°39'07", Rensselaer County, off north bank 0.5 mi (0.8 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Stillwater and 2.8 mi (4.5 km) downstream from Tomhannock Creek.

DRAINAGE AREA.--713 mi^2 (1,847 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
JAN.												
21...	1400	4.7	190	60	--	28	--	8.6	--	12	--	1.3
FEB.												
19...	1400	3.9	20	60	--	25	--	7.5	--	9.8	--	1.2
APR.												
15...	1050	3.1	2100	120	--	15	--	3.6	--	3.9	--	1.6
MAY												
13...	1115	2.7	2200	180	14	--	5.2	--	4.7	--	1.1	--
JUNE												
10...	1125	.1	150	50	28	--	7.7	--	8.0	--	1.4	--
JULY												
09...	1315	--	310	40	27	--	6.4	--	6.0	--	1.4	--
AUG.												
05...	1250	--	50	30	26	--	8.9	--	11	--	1.6	--
SEP.												
17...	1430	--	380	60	22	--	6.1	--	5.5	--	1.4	--
30...	1045	--	1000	120	24	--	7.0	--	6.2	--	1.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JAN.												
21...	107	0	88	20	16	--	.1	1.3	.04	.32	.08	.40
FEB.												
19...	95	0	78	19	14	--	.1	1.2	.01	.19	.17	.36
APR.												
15...	54	0	44	11	6.8	--	.1	.56	.05	.10	.25	.35
MAY												
13...	64	0	53	12	6.5	.2	--	.44	.03	.06	.50	.56
JUNE												
10...	98	1	82	16	10	.1	--	.19	.02	.07	.40	.47
JULY												
09...	81	0	66	16	7.7	--	--	.41	.02	.15	.37	.52
AUG.												
05...	86	0	71	18	17	--	--	.17	.02	.32	.30	.62
SEP.												
17...	79	--	65	13	7.3	--	--	.45	.01	.19	.29	.48
30...	86	--	71	8.9	9.0	--	--	.50	.01	.18	.22	.40

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
JAN.											
21...	1.7	.13	--	.11	144	162	132	12	8	110	18
FEB.											
19...	1.6	.06	--	.06	127	144	117	11	9	93	15
APR.											
15...	.96	.09	--	.03	72	228	205	70	68	52	8
MAY											
13...	1.0	.12	.03	--	--	173	122	79	67	--	--
JUNE											
10...	.68	.03	.02	--	--	120	87	2	0	--	--
JULY											
09...	.95	.06	.02	--	--	138	101	9	6	--	--
AUG.											
05...	.81	.03	.01	--	--	139	103	17	3	--	--
SEP.											
17...	.94	.07	.03	--	--	134	89	18	12	--	--
30...	.91	.09	.04	--	--	150	131	26	21	--	--

01335400 HOOSIC RIVER NEAR STILLWATER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.											
21...	271	7.6	--	--	5	--	.0	--	--	--	--
FEB.											
19...	249	7.7	--	--	6	--	.0	--	--	--	--
APR.											
15...	137	7.5	--	--	17	--	.0	--	--	--	--
MAY											
13...	159	7.6	--	--	11	--	.0	--	--	--	--
JUNE											
10...	207	9.6	--	--	9	--	.0	1	0	2	<.5
JULY											
09...	208	8.9	2	4	9	--	--	--	--	--	--
AUG.											
05...	195	8.9	3	5	14	3.3	--	<1	0	7	<.5
SEP.											
17...	173	--	4	10	14	5.1	--	--	--	--	--
30...	197	--	2	20	14	7.4	--	--	--	--	--

01335770 HUDSON RIVER AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'34", Saratoga County, at Waterford water supply intake on west shore and 0.3 mi (0.5 km) upstream from bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi^2 (11,966 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
02...	1235	E4200	4.8	390	390	--	12	--	3.1	--	7.0
30...	1200	E4650	3.8	420	60	--	13	--	3.3	--	7.5
DEC.											
03...	1300	E3160	4.1	390	40	--	12	--	2.9	--	5.2
JAN.											
08...	1130	E11300	4.9	300	40	--	12	--	3.9	--	4.0
FEB.											
04...	1245	E12300	4.7	110	40	--	13	--	2.7	--	3.5
MAR.											
04...	1145	E11000	5.0	210	40	--	11	--	2.6	--	3.9
APR.											
02...	1400	E7270	4.8	410	60	--	19	--	4.8	--	7.7
08...	1110	E17800	4.9	650	130	--	11	--	2.4	--	4.4
22...	1020	E13300	4.7	300	40	--	12	--	2.5	--	3.6
MAY											
07...	1030	E12800	4.5	440	50	13	--	3.0	--	3.7	--
20...	1110	E16100	4.6	390	30	17	--	3.0	--	3.1	--
JUNE											
03...	1200	E7280	4.7	500	90	15	--	3.1	--	4.9	--
17...	1145	E4300	4.3	390	70	14	--	2.6	--	5.4	--
JULY											
01...	1140	E5900	4.4	420	50	15	--	2.9	--	5.5	--
15...	1130	E3290	--	460	110	21	--	3.2	--	5.0	--
29...	1130	E3930	--	400	70	13	--	3.0	--	5.3	--
AUG.											
12...	1145	E3860	--	380	80	15	--	2.7	--	3.4	--
27...	1045	E4650	--	370	70	16	--	2.9	--	5.8	--
SEP.											
10...	1145	E5170	--	320	40	20	--	3.1	--	5.0	--
25...	1045	E6300	--	570	90	18	--	5.3	--	4.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
02...	--	.8	30	0	25	15	8.8	--	.3	1.0
30...	--	.7	33	0	27	17	9.5	--	.3	.90
DEC.										
03...	--	.8	28	0	23	14	10	--	.3	.64
JAN.										
08...	--	.7	36	0	30	13	6.3	--	.2	.43
FEB.										
04...	--	.5	32	0	26	15	6.4	--	.3	.59
MAR.										
04...	--	.7	31	0	25	13	6.3	--	.2	.60
APR.										
02...	--	1.0	57	0	47	20	11	--	.1	.76
08...	--	.6	29	0	24	15	5.9	--	.2	.56
22...	--	1.0	31	0	25	13	6.1	--	.1	.49
MAY										
07...	.6	--	33	0	27	12	5.5	.1	--	.45
20...	.6	--	29	0	24	12	5.4	.1	--	.39
JUNE										
03...	.7	--	41	0	34	12	10	.1	--	.52
17...	.7	--	37	0	30	15	11	.2	--	.50
JULY										
01...	.7	--	35	0	29	30	14	.1	--	.53
15...	.8	--	34	0	28	18	20	--	--	.40
29...	.7	--	30	0	25	22	7.7	--	--	.57
AUG.										
12...	.9	--	29	--	24	15	10	--	--	.24
27...	.6	--	25	--	21	23	10	--	--	.44
SEP.										
10...	1.0	--	47	--	39	15	8.8	--	--	.45
25...	1.1	--	52	--	43	12	8.3	--	--	.39

E Estimated value.

01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.										
02...	.00	.00	.28	.28	1.3	.01	--	.00	67	--
30...	.00	.00	.29	.29	1.2	.01	--	.01	71	95
DEC.										
03...	.00	.00	.21	.21	.85	.02	--	.01	63	114
JAN.										
08...	.00	.16	.09	.25	.69	.01	--	.00	63	87
FEB.										
04...	.01	.13	.11	.24	.84	.00	--	.00	66	80
MAR.										
04...	.02	.28	.22	.50	1.1	.02	--	.00	58	74
APR.										
02...	.03	.35	.22	.57	1.4	.02	--	.01	97	114
08...	.05	.14	.27	.41	1.0	.03	--	.01	59	64
22...	.01	.21	.11	.32	.82	.02	--	.01	58	73
MAY										
07...	.01	.02	.20	.22	.68	.03	.01	--	--	83
20...	.05	.07	.86	.93	1.4	.02	.00	--	--	84
JUNE										
03...	.01	.08	.29	.37	.90	.03	.00	--	--	94
17...	.01	.20	.29	.49	1.0	.02	.00	--	--	104
JULY										
01...	.03	.09	.34	.43	.99	.04	.01	--	--	106
15...	.01	.33	.37	.70	1.1	.04	.01	--	--	150
29...	.03	.39	.33	.72	1.3	.03	.01	--	--	91
AUG.										
12...	.01	.42	.14	.56	.81	.05	.02	--	--	208
27...	.01	.72	.03	.75	1.2	4.4	3.9	--	--	132
SEP.										
10...	.01	.27	.28	.55	1.0	.04	.01	--	--	107
25...	.01	.30	.15	.45	.85	.03	.03	--	--	113

DATE	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
02...	--	--	--	43	18	--	6.7	--	--	14
30...	90	7	3	46	19	140	6.8	--	--	14
DEC.										
03...	99	6	5	42	19	115	6.7	--	--	11
JAN.										
08...	62	10	8	46	16	112	7.2	--	--	11
FEB.										
04...	54	6	5	44	17	115	7.1	--	--	10
MAR.										
04...	58	13	8	38	13	113	7.1	--	--	14
APR.										
02...	79	8	8	67	20	179	7.3	--	--	15
08...	52	17	13	37	14	105	7.0	--	--	13
22...	57	6	6	40	15	104	7.0	--	--	16
MAY										
07...	43	14	10	--	--	108	7.4	--	--	--
20...	60	18	15	--	--	89	7.4	--	--	15
JUNE										
03...	65	6	5	--	--	135	7.5	--	--	11
17...	75	5	0	--	--	147	7.3	--	--	11
JULY										
01...	70	9	7	--	--	142	7.0	--	--	25
15...	98	10	6	--	--	183	6.5	6	4	15
29...	59	14	12	--	--	117	6.8	5	4	18
AUG.										
12...	140	12	11	--	--	--	--	7	4	19
27...	90	34	23	--	--	157	--	20	20	29
SEP.										
10...	99	3	1	--	--	149	--	4	5	14
25...	97	16	5	--	--	159	--	8	8	20

CONTINUED NEXT PAGE

01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
02...	--	.0	--	--	--	--	--	--	--	--
30...	--	.0	--	0	--	--	10	16	3.4	--
DEC.										
03...	--	.0	--	<1	--	--	10	9	.9	--
JAN.										
08...	--	.0	--	0	--	--	15	6	1.4	--
FEB.										
04...	--	.0	--	<1	--	--	10	2	2.2	--
MAR.										
04...	--	.0	--	--	--	--	--	--	--	--
APR.										
02...	--	.0	--	1	--	--	20	3	2.8	--
08...	--	.0	--	1	0	0	10	5	<.5	30
22...	--	.0	--	1	--	--	10	5	<.5	--
MAY										
07...	--	.0	--	2	0	<10	50	6	<.5	50
20...	--	--	--	1	0	10	10	5	<.5	170
JUNE										
03...	--	.0	--	1	0	10	10	4	<.5	60
17...	--	.0	--	1	0	20	10	4	<.5	20
JULY										
01...	--	.0	--	<1	0	10	100	8	<.5	40
15...	5.8	--	2.3	1	0	10	20	7	<.5	110
29...	7.9	--	--	0	1	10	20	7	<.5	0
AUG.										
12...	6.3	--	--	1	0	0	10	3	<.5	30
27...	5.2	--	--	2	1	<10	--	14	<.5	20
SEP.										
10...	6.5	--	--	<1	1	10	10	6	<.5	80
25...	9.7	--	--	0	1	10	10	5	<.5	0

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", long 73°40'33", Saratoga County, at New York State Water Quality Surveillance monitor on west bank, 300 ft (91 m) south of bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi^2 (11,966 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1971 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
02...	1300	E4200	4.8	--	50	--	14	--	3.1	--	6.5	--
30...	1225	E4650	4.1	340	40	--	19	--	4.0	--	8.5	--
DEC.												
03...	1230	E3160	4.3	400	40	--	15	--	2.8	--	6.7	--
JAN.												
08...	1100	E11300	4.9	370	50	--	15	--	3.1	--	4.2	--
FEB.												
04...	1200	E12300	4.8	3000	90	--	17	--	3.0	--	3.9	--
MAR.												
04...	1120	E11000	5.1	290	80	--	20	--	3.1	--	5.1	--
APR.												
02...	1325	E7270	5.0	580	90	--	25	--	5.0	--	8.0	--
15...	1000	E2170	4.4	610	130	--	19	--	3.0	--	4.9	--
MAY												
13...	1030	E25300	5.0	2300	100	14	--	3.2	--	4.0	--	.9
JUNE												
10...	1030	E4390	4.4	110	10	11	--	1.3	--	5.4	--	1.3
JULY												
09...	1230	E6710	--	790	80	22	--	3.0	--	4.7	--	.8
AUG.												
05...	1145	E5660	--	300	70	14	--	2.8	--	4.0	--	1.0
SEP.												
17...	1520	E5250	--	1000	100	21	--	4.2	--	5.1	--	.8
30...	1000	E9200	--	550	90	24	--	4.4	--	6.0	--	1.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
02...	.8	32	0	26	14	14	--	.3	.76	.00	.01	.26
30...	1.0	40	0	33	19	21	--	.3	.94	.00	.00	.35
DEC.												
03...	.9	28	0	23	15	17	--	.4	.69	.00	.01	.22
JAN.												
08...	.5	33	0	27	16	11	--	.3	.43	.00	.18	.15
FEB.												
04...	.6	33	0	27	17	14	--	.1	.63	.01	.10	.47
MAR.												
04...	1.1	36	0	30	18	17	--	.1	.61	.02	.28	.18
APR.												
02...	1.4	60	0	49	27	19	--	.1	.76	.01	.33	.27
15...	1.7	44	0	36	14	16	--	.1	.54	.01	.18	.35
MAY												
13...	--	32	0	26	16	9.5	.1	--	.41	.02	.11	.37
JUNE												
10...	--	29	0	24	16	16	.1	--	.57	.02	.30	.90
JULY												
09...	--	33	0	27	15	21	--	--	.32	.01	.20	.36
AUG.												
05...	--	33	0	27	15	13	--	--	--	--	--	--
SEP.												
17...	--	48	--	39	15	17	--	--	.44	.02	.23	.37
30...	--	57	--	47	12	22	--	--	.42	.01	.28	.27

E Estimated value.

CONTINUED NEXT PAGE

01335771 HUDSON RIVER AT MONITOR AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.												
02...	.27	1.0	.03	--	.01	73	95	51	3	5	48	21
30...	.35	1.3	.03	--	.02	97	131	129	2	0	64	31
DEC.												
03...	.23	.92	.03	--	.02	76	92	65	8	5	49	26
JAN.												
08...	.33	.77	.01	--	.00	71	79	73	10	8	50	23
FEB.												
04...	.57	1.2	.05	--	.01	77	160	110	68	58	55	28
MAR.												
04...	.46	1.1	.05	--	.02	87	114	85	16	11	63	33
APR.												
02...	.60	1.4	.02	--	.01	120	154	116	11	10	83	34
15...	.53	1.1	.04	--	.01	85	130	91	22	18	60	24
MAY												
13...	.48	.91	.07	.02	--	--	153	103	61	50	--	--
JUNE												
10...	1.2	1.8	.16	.09	--	--	129	82	28	18	--	--
JULY												
09...	.56	.89	.04	.01	--	--	147	93	17	12	--	--
AUG.												
05...	--	--	--	--	--	--	101	62	11	7	--	--
SEP.												
17...	.60	1.1	.08	.03	--	--	145	101	23	7	--	--
30...	.55	.98	.04	.01	--	--	148	112	14	10	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
02...	148	6.9	--	--	12	--	.0	--	--	--	--
30...	191	6.8	--	--	17	--	.0	--	--	--	--
DEC.											
03...	139	6.6	--	--	13	--	.0	--	--	--	--
JAN.											
08...	132	6.9	--	--	11	--	.0	--	--	--	--
FEB.											
04...	148	6.9	--	--	33	--	.0	--	--	--	--
MAR.											
04...	166	7.0	--	--	14	--	.0	--	--	--	--
APR.											
02...	217	7.0	--	--	16	--	.0	--	--	--	--
15...	160	7.2	--	--	15	--	.0	--	--	--	--
MAY											
13...	131	7.3	--	--	15	--	.0	0	20	17	<.5
JUNE											
10...	105	7.1	--	--	24	--	.0	--	--	--	--
JULY											
09...	171	7.2	10	4	17	--	--	0	20	8	<.5
AUG.											
05...	116	6.9	5	4	20	5.6	--	--	--	--	--
SEP.											
17...	167	--	8	20	32	--	--	--	--	--	--
30...	196	--	3	9	17	13	--	--	--	--	--

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, temperature recorder at gaging station on right bank at Rome Fish Hatchery, 1.0 mi (1.6 km) downstream from Delta Dam, and 4.0 mi (6.4 km) north of Rome.

DRAINAGE AREA.--150 mi^2 (389 km^2).

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1972, April to September 1974.

EXTREMES.--1974:
Water temperatures: Maximum, 16.0°C on June 15, 21, 22, 24-26.

Period of record:
Water temperatures: Maximum, 24.0°C on several days during September 1961 and July 1962; minimum (1960-62, 1963-72), on many days during winter periods 1967, 1971, and 1972.

REMARKS.--Prior to May 1964 water temperature measurements were made at Delta Dam, 1 mile upstream from present site. Thermograph installed September 1966. No record Apr. 1.

TEMPERATURE (°C) OF WATER, APRIL TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.0	7.0	13.5	13.5	18.5	17.5	17.0	17.0	19.0	19.0
2	3.0	3.0	8.0	7.5	13.5	13.5	19.0	17.5	17.5	17.0	19.0	19.0
3	3.5	3.0	8.0	8.0	15.0	13.5	23.5	18.0	19.5	17.5	19.0	19.0
4	3.0	1.5	8.5	8.0	14.0	13.5	23.5	18.0	18.0	18.0	19.0	19.0
5	3.0	2.0	8.5	8.0	14.0	14.0	20.5	18.0	18.0	18.0	19.0	18.5
6	3.5	3.0	9.5	8.0	14.0	14.0	18.0	18.0	18.0	18.0	18.5	18.5
7	3.5	3.5	9.5	9.0	14.0	14.0	23.0	17.5	18.0	18.0	18.5	18.5
8	3.5	3.5	9.5	9.0	14.0	14.0	19.5	18.0	18.0	18.0	18.5	18.5
9	3.5	3.5	10.5	9.0	14.0	14.0	18.0	18.0	18.0	18.0	18.5	18.5
10	3.5	3.5	10.5	10.0	15.0	14.0	18.0	17.5	18.0	18.0	18.5	18.5
11	4.0	3.5	10.0	9.5	16.0	14.5	17.5	17.5	18.5	18.0	18.5	18.0
12	4.0	4.0	11.0	9.5	15.5	15.5	18.5	17.0	18.5	18.5	18.0	18.0
13	4.0	4.0	11.0	10.0	15.5	15.0	17.0	17.0	18.5	18.5	18.5	18.0
14	4.0	3.5	10.0	10.0	15.5	15.0	17.0	17.0	18.5	18.5	18.0	18.0
15	4.0	3.5	10.0	10.0	15.5	15.5	17.0	16.5	18.5	18.5	18.0	18.0
16	4.5	4.0	10.0	10.0	19.0	15.5	16.5	16.5	18.5	18.5	18.0	17.5
17	4.5	4.0	12.0	10.0	18.5	16.5	16.5	16.5	18.5	18.5	17.5	17.5
18	5.0	4.0	11.0	10.5	16.5	16.0	16.5	16.5	18.5	18.5	17.5	17.5
19	5.0	4.5	11.0	10.5	16.0	16.0	16.5	16.0	18.5	18.5	17.5	17.5
20	5.0	5.0	11.0	10.5	16.0	16.0	16.0	16.0	19.5	18.5	17.5	17.5
21	5.0	5.0	11.5	10.5	21.0	16.0	16.0	16.0	19.5	19.5	17.5	17.5
22	5.0	5.0	11.5	11.0	18.0	17.0	16.0	16.0	19.5	19.5	17.5	17.0
23	5.5	5.0	11.5	11.5	18.0	17.0	16.0	16.0	19.5	19.5	17.0	17.0
24	6.0	5.5	12.5	11.5	17.5	17.5	16.0	16.0	19.5	19.5	17.0	17.0
25	6.0	6.0	12.5	12.0	20.5	17.5	16.0	16.0	19.5	19.5	17.0	17.0
26	6.5	6.0	12.5	12.0	19.0	18.0	16.0	16.0	19.5	19.5	17.0	17.0
27	6.5	6.5	13.0	12.0	18.0	18.0	17.0	16.0	19.5	19.5	17.0	17.0
28	6.5	6.5	15.5	12.5	18.0	18.0	17.0	16.5	19.5	19.5	17.0	17.0
29	7.0	6.5	13.0	12.5	18.0	18.0	17.5	17.0	19.5	19.5	17.0	17.0
30	7.0	7.0	12.5	12.5	20.0	17.5	17.0	17.0	19.5	19.5	17.0	17.0
31	---	---	14.0	12.5	---	---	17.0	17.0	19.5	19.0	---	---

01346495 MOHAWK RIVER ABOVE LITTLE FALLS, N.Y.

LOCATION.--Lat 43°02'05", long 74°51'57", Herkimer County, at Erie (Barge) Canal termimal building on south bank in Little Falls and 0.1 mi (0.2 km) upstream from highway bridge and dams, and 5.2 mi (8.4 km) upstream from gaging station (01347000) near Little Falls.

DRAINAGE AREA.--1,285 mi^2 (3,328 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
10...	1230	E1080	4.0	860	150	--	32	--	6.6	--	8.2	--
NOV.												
07...	1030	E1400	5.4	600	50	--	29	--	5.0	--	5.5	--
DEC.												
11...	1115	E7080	3.6	2100	90	--	29	--	5.4	--	4.7	--
JAN.												
15...	1200	E2690	4.2	520	60	--	25	--	4.3	--	4.6	--
FEB.												
13...	1050	E2900	4.7	350	250	--	29	--	5.2	--	5.0	--
MAR.												
11...	1130	E4640	3.9	580	50	--	25	--	4.4	--	4.4	--
APR.												
29...	1215	E2750	3.5	460	80	23	--	4.9	--	3.4	--	.7
MAY												
29...	1145	E2040	3.7	500	80	31	--	5.6	--	6.3	--	1.0
JUNE												
24...	1145	E1560	3.2	430	60	31	--	5.8	--	4.6	--	1.1
JULY												
22...	1210	E1270	--	570	110	32	--	6.4	--	6.9	--	1.4
AUG.												
20...	1045	E1090	--	380	100	31	--	5.7	--	6.6	--	1.5
SEP.												
16...	1130	E1640	--	900	80	33	--	6.4	--	4.8	--	1.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
10...	1.6	98	0	80	33	11	--	.4	1.2	.00	.03	.27
NOV.												
07...	1.3	85	0	70	23	8.0	--	.3	.74	.00	.00	.31
DEC.												
11...	2.6	84	0	69	24	6.5	--	.2	.91	.00	.01	.14
JAN.												
15...	.9	71	0	58	21	6.1	--	.1	.90	.10	.16	.12
FEB.												
13...	1.0	83	0	68	22	8.3	--	.1	1.1	.02	.16	.22
MAR.												
11...	1.1	75	0	62	18	7.1	--	.1	.96	.04	.19	.16
APR.												
29...	--	75	0	62	20	6.2	.1	--	.91	.03	.23	.21
MAY												
29...	--	100	0	82	18	6.8	.2	--	.73	.03	.15	.24
JUNE												
24...	--	98	0	80	22	6.7	.1	--	.70	.04	.10	.32
JULY												
22...	--	94	0	77	28	10	--	--	.68	.05	.24	.22
AUG.												
20...	--	97	--	80	31	9.5	--	--	.74	.07	.29	.24
SEP.												
16...	--	108	--	89	23	6.2	--	--	.49	.04	.29	.22

E Estimated value.

01346495 MOHAWK RIVER ABOVE LITTLE FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.												
10...	.30	1.5	.06	--	.03	145	170	117	18	8	110	27
NOV.												
07...	.31	1.1	.04	--	.03	119	188	134	17	7	93	23
DEC.												
11...	.15	1.1	.09	--	.05	118	189	157	28	24	95	26
JAN.												
15...	.28	1.3	.06	--	.02	101	132	111	16	13	80	22
FEB.												
13...	.38	1.5	.04	--	.02	116	139	113	14	13	94	26
MAR.												
11...	.35	1.3	.04	--	.02	101	133	118	27	20	81	19
APR.												
29...	.44	1.4	.05	.02	--	--	147	111	10	10	--	--
MAY												
29...	.39	1.2	.05	.02	--	--	148	117	17	10	--	--
JUNE												
24...	.42	1.2	.05	.03	--	--	164	148	9	5	--	--
JULY												
22...	.46	1.2	.05	.03	--	--	187	137	18	16	--	--
AUG.												
20...	.53	1.3	.07	.04	--	--	182	161	9	5	--	--
SEP.												
16...	.51	1.0	.08	.04	--	--	186	143	20	16	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	267	7.3	--	--	8	--	.0	--	--	--	--
NOV.											
07...	217	7.3	--	--	10	--	.0	--	--	--	--
DEC.											
11...	213	7.4	--	--	17	--	.0	--	--	--	--
JAN.											
15...	184	7.5	--	--	10	--	.0	--	--	--	--
FEB.											
13...	214	7.5	--	--	6	--	.0	--	--	--	--
MAR.											
11...	195	7.5	--	--	9	--	.0	--	--	--	--
APR.											
29...	197	7.6	--	--	6	--	.0	--	--	--	--
MAY											
29...	228	7.8	--	--	9	--	.0	<1	10	2	<.5
JUNE											
24...	243	7.7	--	--	8	--	.0	--	--	--	--
JULY											
22...	251	7.4	20	10	10	--	--	--	--	--	--
AUG.											
20...	248	--	2	7	17	4.4	--	--	--	--	--
SEP.											
16...	199	--	4	20	16	4.9	--	0	10	7	<.5

01348002 EAST CANADA CREEK NEAR ST. JOHNSVILLE, N.Y.

LOCATION.--Lat 43°00'21", long 74°44'30", Herkimer County, at bridge 0.1 mi (0.2 km) upstream from bridge on State Highway 5, 0.6 mi (1.0 km) upstream from mouth, 0.6 mi (1.0 km) downstream from gaging station (01348000) at East Creek, and 2.7 mi (4.3 km) northwest of St. Johnsville.

DRAINAGE AREA.--291 mi^2 (754 km^2) at gage.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
NOV. 07...	1100	E467	5.3	200	50	--	7.0	--	1.7	--	1.5	--
APR. 29...	1145	E817	3.7	60	40	5.2	--	1.3	--	.8	--	.1
JUNE 24...	1110	E290	3.3	160	50	15	--	2.4	--	1.7	--	1.1
AUG. 20...	1005	E210	--	150	110	16	--	3.1	--	2.0	--	1.0

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV. 07...	.6	18	0	15	8.5	2.0	--	.2	.35	.00	.00	.25
APR. 29...	--	14	0	11	6.9	1.1	.1	--	.51	.01	.07	.12
JUNE 24...	--	39	0	32	6.6	1.5	.1	--	.12	.01	.10	.25
AUG. 20...	--	58	--	48	8.0	2.0	--	--	.12	.00	.19	.24

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV. 07...	.25	.61	.01	--	.00	36	--	--	9	4	24	10
APR. 29...	.19	.71	.01	.00	--	--	41	23	2	2	--	--
JUNE 24...	.35	.48	.02	.01	--	--	67	55	5	2	--	--
AUG. 20...	.43	.55	.01	.01	--	--	88	72	4	0	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV. 07...	62	7.0	--	--	11	--	.0	--	--	--	--
APR. 29...	51	7.2	--	--	9	--	.0	--	--	--	--
JUNE 24...	98	7.5	--	--	12	--	.0	1	20	4	<.5
AUG. 20...	114	--	7	2	15	4.3	--	0	0	7	<.5

E Estimated value.

01348795 MOHAWK RIVER AT LOCK 15, AT FORT PLAIN, N.Y.

LOCATION.--Lat 42°56'20", long 73°37'20", Montgomery County, at Erie (Barge) Canal Lock 15 movable dam in Fort Plain, 0.4 mi (0.6 km) upstream from bridge on State Highway 80 and 0.5 mi (0.8 km) upstream from Otsquago Creek.

DRAINAGE AREA.--1,805 mi^2 (4,675 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
10...	1130	4.1	300	50	--	32	--	6.2	--	7.7	--	1.5
NOV.												
07...	1140	5.4	340	50	--	23	--	4.4	--	6.0	--	1.1
DEC.												
11...	1205	3.9	1700	90	--	25	--	4.6	--	4.0	--	1.6
JAN.												
15...	1245	4.1	700	70	--	27	--	5.0	--	5.4	--	1.1
FEB.												
13...	1150	4.7	330	140	--	31	--	5.4	--	4.8	--	1.1
MAR.												
11...	1215	3.9	660	60	--	25	--	4.3	--	4.0	--	1.2
APR.												
29...	1115	3.7	280	70	23	--	4.4	--	3.3	--	.7	--
MAY												
29...	1100	3.6	320	70	26	--	4.5	--	4.0	--	.9	--
JUNE												
24...	1040	3.3	300	100	30	--	5.6	--	5.2	--	1.2	--
JULY												
22...	1130	--	230	60	29	--	5.5	--	5.8	--	1.2	--
AUG.												
20...	1130	--	300	80	30	--	5.5	--	7.0	--	1.5	--
SEP.												
16...	1045	--	700	80	32	--	6.8	--	4.9	--	1.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
10...	100	0	82	29	9.5	--	.4	.96	.00	.06	.17	.23
NOV.												
07...	70	0	57	19	7.0	--	.3	.63	.00	.00	.26	.26
DEC.												
11...	71	0	58	21	5.7	--	.2	.82	.00	.01	.30	.31
JAN.												
15...	78	0	64	21	7.3	--	.1	1.2	.04	.10	.29	.39
FEB.												
13...	89	0	73	23	8.3	--	.1	1.1	.01	.21	.46	.67
MAR.												
11...	75	0	62	18	6.3	--	.0	.93	.06	.19	.20	.39
APR.												
29...	70	0	57	17	5.8	.1	--	.83	.03	.17	.23	.40
MAY												
29...	77	0	63	15	5.4	.2	--	.54	.03	.06	.52	.58
JUNE												
24...	96	0	79	22	7.2	.2	--	.80	.04	.16	.38	.54
JULY												
22...	88	0	72	23	7.3	--	--	.56	.03	.20	.19	.39
AUG.												
20...	96	--	79	27	8.7	--	--	.68	.03	.26	.37	.63
SEP.												
16...	84	--	69	21	6.0	--	--	.44	.03	.26	.26	.52

CONTINUED NEXT PAGE

01348795 MOHAWK RIVER AT LOCK 15, AT FORT PLAIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
10...	1.2	.05	--	.03	140	167	135	9	1	110	23
NOV.											
07...	.90	.04	--	.02	101	225	168	12	7	76	18
DEC.											
11...	1.1	.08	--	.06	101	137	113	44	40	81	23
JAN.											
15...	1.6	.08	--	.02	110	147	114	23	19	88	24
FEB.											
13...	1.8	.04	--	.02	122	141	109	10	8	100	27
MAR.											
11...	1.4	.04	--	.02	100	140	110	28	22	80	19
APR.											
29...	1.3	.04	.02	--	--	110	85	--	--	--	--
MAY											
29...	1.2	.04	.01	--	--	118	92	7	6	--	--
JUNE											
24...	1.4	.05	.03	--	--	159	149	11	7	--	--
JULY											
22...	.98	.04	.02	--	--	156	117	11	10	--	--
AUG.											
20...	1.3	.05	.02	--	--	185	175	7	0	--	--
SEP.											
16...	.99	.06	.03	--	--	145	99	13	9	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	259	7.5	--	--	9	--	.0	--	--	--	--
NOV.											
07...	185	7.4	--	--	12	--	.0	--	--	--	--
DEC.											
11...	186	7.4	--	--	12	--	.0	--	--	--	--
JAN.											
15...	205	7.5	--	--	11	--	.0	--	--	--	--
FEB.											
13...	225	7.5	--	--	8	--	.0	--	--	--	--
MAR.											
11...	191	7.5	--	--	11	--	.0	--	--	--	--
APR.											
29...	184	7.5	--	--	10	--	.0	--	--	--	--
MAY											
29...	183	8.0	--	--	10	--	.0	0	10	2	<.5
JUNE											
24...	246	7.7	--	--	10	--	.0	--	--	--	--
JULY											
22...	223	7.5	4	7	9	--	--	--	--	--	--
AUG.											
20...	222	--	4	5	18	5.6	--	--	--	--	--
SEP.											
16...	173	--	10	10	18	7.1	--	<1	10	5	<.5

01349520 CAYADUTTA CREEK AT FONDA, N.Y.

LOCATION.--Lat 42°57'10", long 74°22'49", Montgomery County, at railroad bridge, 0.1 mi (0.2 km) downstream from bridge on State Highway 5 in Fonda and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--63.3 mi^2 (163.9 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
23...	1235	7.8	300	50	--	66	--	11	--	180	--	5.5
NOV.												
27...	1110	6.5	230	30	--	55	--	8.1	--	70	--	3.0
JAN.												
02...	1520	6.8	320	30	--	50	--	8.0	--	32	--	2.1
28...	1515	4.9	940	60	--	40	--	5.5	--	30	--	1.7
FEB.												
25...	1450	5.9	310	30	--	47	--	7.3	--	42	--	1.0
MAR.												
25...	1515	6.5	1200	70	--	66	--	9.3	--	70	--	2.6
APR.												
29...	1540	4.8	280	40	58	--	8.0	--	40	--	2.6	--
MAY												
29...	1540	6.3	750	60	69	--	9.0	--	160	--	3.4	--
JUNE												
24...	1430	7.3	250	50	68	--	9.9	--	79	--	3.3	--
JULY												
22...	1450	--	180	30	59	--	9.7	--	62	--	2.8	--
AUG.												
20...	1215	--	520	120	70	--	10	--	230	--	4.5	--
SEP.												
16...	1350	--	250	40	54	--	9.6	--	57	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
23...	195	0	160	94	220	--	.7	13	.01	.16	1.0	1.2
NOV.												
27...	150	0	123	56	90	--	.5	6.6	.06	.91	.09	1.0
JAN.												
02...	154	0	126	39	45	--	.3	1.6	1.8	.06	.45	.51
28...	116	0	95	29	41	--	.3	1.2	.44	1.5	.80	2.3
FEB.												
25...	155	0	127	37	58	--	.2	.78	.11	3.0	1.4	4.4
MAR.												
25...	199	0	163	52	100	--	.4	.02	.03	5.5	10	16
APR.												
29...	194	0	159	39	65	.4	--	.55	.30	.07	.07	.14
MAY												
29...	235	0	193	69	190	.5	--	.27	.06	7.0	1.9	8.9
JUNE												
24...	212	0	174	62	90	.3	--	.34	.76	8.2	5.8	14
JULY												
22...	195	0	160	52	89	--	--	.30	1.4	4.2	.00	4.2
AUG.												
20...	165	--	135	120	330	--	--	.01	.63	16	.00	16
SEP.												
16...	185	--	152	51	80	--	--	3.7	2.7	.14	.85	.99

CONTINUED NEXT PAGE

01349520 CAYADUTTA CREEK AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
23...	14	1.1	--	1.1	684	743	635	0	0	210	50
NOV.											
27...	7.7	.10	--	.02	363	421	359	16	8	170	48
JAN.											
02...	3.9	.21	--	.14	259	313	251	13	8	160	31
28...	3.9	.23	--	.06	210	242	213	48	34	120	27
FEB.											
25...	5.3	1.4	--	.79	277	272	236	10	2	150	20
MAR.											
25...	16	1.6	--	.07	405	520	400	116	36	200	40
APR.											
29...	.99	.14	.05	--	--	371	310	11	6	--	--
MAY											
29...	9.2	.71	.08	--	--	671	599	40	16	--	--
JUNE											
24...	15	1.3	.81	--	--	483	390	14	2	--	--
JULY											
22...	5.9	.27	.13	--	--	464	383	13	8	--	--
AUG.											
20...	17	.37	.21	--	--	984	912	22	4	--	--
SEP.											
16...	7.4	.38	.27	--	--	411	336	8	2	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
23...	1310	7.2	--	--	38	--	.1	4	20	10	3.8
NOV.											
27...	678	6.8	--	--	27	--	.0	--	--	--	--
JAN.											
02...	494	7.5	--	--	14	--	.0	--	--	--	--
28...	388	7.3	--	--	33	--	.0	--	--	--	--
FEB.											
25...	520	7.4	--	--	31	--	.0	--	--	--	--
MAR.											
25...	699	7.6	--	--	210	--	.1	--	--	--	--
APR.											
29...	612	8.0	--	--	23	--	.1	--	--	--	--
MAY											
29...	1070	7.5	--	--	82	--	.2	6	40	57	<.5
JUNE											
24...	773	8.0	--	--	49	--	.3	--	--	--	--
JULY											
22...	730	7.6	5	4	32	--	--	--	--	--	--
AUG.											
20...	1570	--	80	10	87	37	--	--	--	--	--
SEP.											
16...	549	--	2	4	25	8.6	--	5	10	7	<.5

01349527 MOHAWK RIVER AT FONDA, N.Y.

LOCATION.--Lat 42°57'01", long 74°22'21", Montgomery County, at dock of State Department of Transportation Erie (Barge) Canal terminal in Fonda, 0.1 mi (0.2 km) upstream from bridge on State Highway 30A, and 0.4 mi (0.6 km) downstream from Cayadutta Creek.

DRAINAGE AREA.--2,125 mi^2 (5,504 km^2).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
23...	1215	3.9	260	40	--	28	--	5.6	--	8.2	--	1.3
NOV.												
27...	1130	4.2	560	60	--	31	--	5.3	--	12	--	1.6
JAN.												
02...	1545	4.5	630	60	--	30	--	5.7	--	8.9	--	1.3
28...	--	4.1	4000	120	--	35	--	4.8	--	12	--	1.3
FEB.												
25...	1520	4.2	750	40	--	29	--	5.3	--	9.3	--	1.6
MAR.												
25...	1545	5.1	470	60	--	36	--	7.0	--	17	--	1.5
APR.												
29...	1625	3.5	220	70	36	--	4.9	--	4.3	--	.7	--
MAY												
29...	1610	3.5	230	50	33	--	6.3	--	8.8	--	1.2	--
JUNE												
24...	1455	1.9	210	60	33	--	6.2	--	6.0	--	1.1	--
JULY												
22...	1515	--	210	50	36	--	6.4	--	7.6	--	1.3	--
AUG.												
20...	1430	--	150	60	33	--	6.1	--	7.2	--	1.4	--
SEP.												
16...	1415	--	610	80	33	--	6.2	--	6.7	--	1.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
23...	86	0	71	28	10	--	.3	.93	.00	.04	.26	.30
NOV.												
27...	82	0	67	27	15	--	.3	1.3	.00	.12	.09	.21
JAN.												
02...	95	0	78	22	14	--	.4	1.1	.30	.03	.23	.26
28...	92	0	75	23	18	--	.3	1.4	.22	.30	1.1	1.4
FEB.												
25...	91	0	75	20	15	--	.1	.96	.14	.47	.52	.99
MAR.												
25...	111	0	91	27	27	--	.1	.70	.08	1.4	.80	2.2
APR.												
29...	80	0	66	20	8.2	.1	--	.79	.03	.25	13	13
MAY												
29...	107	0	88	24	12	.1	--	.64	.03	.17	.36	.53
JUNE												
24...	101	0	83	26	8.7	.1	--	.64	.04	.10	.49	.59
JULY												
22...	103	0	84	28	11	--	--	.56	.04	.26	.18	.44
AUG.												
20...	108	--	89	31	11	--	--	.50	.02	.29	.36	.65
SEP.												
16...	104	--	85	27	9.0	--	--	.54	.09	.39	.25	.64

CONTINUED NEXT PAGE

01349527 MOHAWK RIVER AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
23...	1.2	.17	--	.03	128	152	135	2	0	93	22
NOV.											
27...	1.5	.07	--	.04	137	175	141	17	12	99	32
JAN.											
02...	1.7	.04	--	.01	134	180	140	18	14	98	20
28...	3.0	.21	--	.06	144	310	274	121	107	110	32
FEB.											
25...	2.1	.10	--	.04	129	169	133	15	11	94	20
MAR.											
25...	3.0	.22	--	.08	176	215	162	15	13	120	28
APR.											
29...	14	.04	.02	--	--	134	106	6	5	--	--
MAY											
29...	1.2	.04	.01	--	--	172	147	10	6	--	--
JUNE											
24...	1.3	.05	.01	--	--	169	132	10	6	--	--
JULY											
22...	1.0	.04	.01	--	--	190	125	10	8	--	--
AUG.											
20...	1.2	.04	.01	--	--	194	173	6	0	--	--
SEP.											
16...	1.3	.07	.04	--	--	182	130	18	6	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
23...	245	7.2	--	--	10	--	.0	<1	10	7	1.9
NOV.											
27...	253	7.2	--	--	18	--	.0	--	--	--	--
JAN.											
02...	252	7.4	--	--	10	--	.0	--	--	--	--
28...	252	7.5	--	--	23	--	.0	--	--	--	--
FEB.											
25...	249	7.5	--	--	16	--	.0	--	--	--	--
MAR.											
25...	317	7.6	--	--	41	--	.0	--	--	--	--
APR.											
29...	212	7.6	--	--	7	--	.0	--	--	--	--
MAY											
29...	260	7.9	--	--	11	--	.0	0	10	1	<.5
JUNE											
24...	250	8.2	--	--	10	--	.0	--	--	--	--
JULY											
22...	269	7.7	10	6	9	--	--	--	--	--	--
AUG.											
20...	260	--	4	4	17	3.9	--	--	--	--	--
SEP.											
16...	212	--	7	10	17	5.0	--	0	10	4	<.5

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, at gaging station on left bank, 2,300 ft (701 m) upstream from West Kill, and 1.2 mi (1.9 km) upstream from bridge on State Highway 30 in North Blenheim.

DRAINAGE AREA.--359 mi^2 (930 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum 31.5°C June 10, Aug. 20; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1973-74) 31.5°C June 10 and Aug. 20, 1974; minimum, freezing point on many days during winter periods.

REMARKS.--During periods of low flow and direct sun, water temperature probe may not indicate value truly representative of the stream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	9.5	13.0	10.0	8.0	9.0	6.5	3.5	5.5	3.0	2.0	2.5
2	14.0	11.0	12.5	11.5	7.0	8.5	5.5	1.0	3.0	2.5	1.0	2.0
3	19.0	13.5	15.5	9.0	7.0	8.0	6.5	2.5	4.0	2.5	1.5	2.0
4	17.5	12.5	14.5	7.5	6.5	7.0	8.5	5.0	6.5	2.5	1.0	2.0
5	19.0	12.0	15.0	7.0	6.0	6.5	8.5	7.5	8.0	2.0	0.5	1.0
6	17.5	9.5	12.5	6.5	3.5	5.5	8.5	6.0	7.5	2.0	0.5	1.5
7	17.0	9.5	12.5	6.5	5.0	5.5	6.5	5.5	6.0	2.0	1.0	1.5
8	16.5	10.0	12.5	6.5	4.0	5.5	6.0	5.0	5.5	1.0	0.0	0.5
9	15.5	9.5	12.5	6.5	4.5	5.5	5.5	5.0	5.0	0.0	0.0	0.0
10	19.5	11.5	14.5	6.0	4.0	5.0	6.0	5.0	5.5	1.0	0.0	0.0
11	17.5	10.5	13.0	6.5	5.5	6.0	6.0	5.0	5.5	1.5	1.0	1.0
12	17.0	9.5	12.5	8.0	6.0	7.0	5.5	4.5	5.0	1.5	0.0	0.5
13	16.0	10.0	13.0	8.5	7.5	8.0	5.5	3.5	5.0	1.0	0.0	0.0
14	16.0	11.0	13.0	9.5	7.5	9.0	6.0	5.0	5.5	1.5	0.0	0.5
15	14.5	9.5	11.5	9.0	7.5	8.5	5.0	4.0	4.5	2.0	1.5	2.0
16	12.0	8.5	10.0	8.0	7.0	7.5	4.5	3.5	4.0	2.5	2.0	2.0
17	12.0	8.5	9.5	7.0	6.0	6.5	3.5	1.5	2.5	2.0	0.0	1.0
18	9.0	8.5	9.0	8.0	6.5	7.0	3.0	1.0	2.0	0.0	0.0	0.0
19	10.0	8.0	9.0	8.0	6.0	7.5	1.5	0.0	0.5	3.0	0.0	1.0
20	12.5	8.5	10.0	8.0	4.0	5.5	4.0	1.0	2.5	1.0	0.0	0.5
21	14.0	8.0	10.5	7.0	3.0	5.0	4.0	2.5	3.0	2.0	1.0	1.5
22	14.0	7.5	10.0	8.5	7.0	8.0	3.0	2.5	3.0	2.5	2.0	2.0
23	13.5	7.5	10.0	9.0	6.5	7.5	3.0	2.5	2.5	2.5	2.0	2.0
24	15.0	8.0	10.5	8.0	6.0	7.0	2.5	1.0	2.0	2.5	2.0	2.0
25	14.5	8.0	10.5	8.5	7.5	8.0	3.0	0.0	1.0	3.0	1.0	2.0
26	14.0	8.5	10.5	8.0	6.5	7.0	3.5	2.0	2.5	3.0	1.5	2.0
27	10.5	8.0	9.0	8.5	7.0	7.5	3.0	2.5	2.5	3.0	2.5	2.5
28	9.0	7.0	8.0	9.0	8.0	8.5	3.0	2.5	3.0	2.5	2.5	2.5
29	8.0	7.5	8.0	8.0	7.0	7.5	3.0	2.5	3.0	2.5	2.0	2.5
30	11.5	8.0	9.0	7.0	6.0	6.5	3.0	2.5	3.0	3.0	2.0	2.5
31	13.0	7.5	9.5	---	---	---	2.5	2.0	2.5	3.5	2.0	2.5
MONTH	19.5	7.0	11.5	11.5	3.0	7.0	8.5	0.0	4.0	3.5	0.0	1.5

CONTINUED NEXT PAGE

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	2.0	2.0	2.0	1.5	1.5	3.0	2.5	2.5	10.0	9.0	9.5
2	2.0	1.0	1.5	2.0	1.5	2.0	3.0	2.5	2.5	10.5	8.5	9.5
3	1.0	0.5	0.5	2.5	2.0	2.0	3.5	2.5	3.0	9.5	9.0	9.0
4	1.5	0.0	0.5	2.5	2.0	2.5	4.5	3.5	4.0	12.0	8.5	10.0
5	1.0	0.0	0.5	3.0	2.5	2.5	4.5	4.0	4.5	14.0	7.5	10.5
6	1.5	0.0	0.5	3.5	2.0	2.5	4.5	3.5	4.0	10.0	9.0	9.5
7	1.5	0.0	1.0	3.5	3.0	3.0	4.5	3.0	4.0	10.0	9.0	9.5
8	1.0	0.0	0.5	3.0	2.5	3.0	4.0	4.0	4.0	13.0	9.5	10.0
9	1.5	0.0	0.5	2.5	2.5	2.5	4.0	3.5	3.5	11.0	10.0	10.5
10	2.0	0.0	0.5	3.5	2.0	3.0	4.5	3.0	4.0	10.5	10.0	10.0
11	1.5	0.5	1.0	3.5	1.5	2.5	5.0	3.0	4.0	11.5	9.5	10.5
12	2.0	0.0	0.5	3.0	1.5	2.5	5.0	4.0	4.5	11.5	10.5	10.5
13	2.5	1.0	1.5	2.5	1.0	1.5	5.5	4.5	5.0	10.5	10.0	10.5
14	1.5	0.5	1.5	3.0	1.5	2.0	6.5	5.0	6.0	11.5	10.0	11.0
15	1.5	0.0	0.5	3.0	1.0	2.0	6.5	5.5	6.0	12.0	11.0	11.5
16	2.0	0.0	0.5	2.5	2.0	2.5	6.5	6.0	6.0	12.5	11.0	11.5
17	2.0	1.0	1.5	2.5	2.0	2.0	6.5	6.0	6.5	12.5	11.5	12.0
18	2.0	0.5	1.0	2.5	1.5	2.0	7.0	6.0	6.5	13.0	11.5	12.0
19	2.0	0.5	1.0	3.0	2.0	2.5	7.0	6.0	6.5	13.0	11.5	12.0
20	2.0	1.5	1.5	3.0	2.0	2.5	8.0	6.0	7.0	13.0	12.0	12.5
21	2.5	1.0	1.5	2.5	2.0	2.0	8.5	6.5	7.5	13.5	12.0	12.5
22	2.5	1.0	1.5	2.5	2.0	2.0	9.0	8.0	8.5	15.0	12.5	13.5
23	2.0	1.5	2.0	3.5	1.5	2.5	8.5	8.0	8.5	14.0	13.0	13.5
24	2.0	1.0	1.5	3.0	2.0	2.5	8.5	7.5	8.0	14.5	13.0	13.5
25	2.0	1.5	1.5	3.0	1.5	2.0	9.5	7.0	8.0	14.0	11.5	12.5
26	2.0	1.0	1.5	3.5	1.5	2.5	9.5	7.5	8.5	13.0	11.5	12.5
27	2.5	0.5	1.5	3.0	1.5	2.5	10.0	7.5	9.0	13.5	12.0	13.0
28	3.0	1.5	2.0	3.0	1.5	2.5	11.0	8.0	9.5	14.0	12.5	13.0
29	---	---	---	2.0	1.5	1.5	11.0	9.0	10.0	13.5	12.5	13.0
30	---	---	---	2.5	1.5	2.0	10.0	9.5	9.5	17.5	12.5	15.0
31	---	---	---	2.5	2.0	2.5	---	---	---	18.5	13.5	15.5
MONTH	3.0	0.0	1.0	3.5	1.0	2.5	11.0	2.5	6.0	18.5	7.5	11.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	14.0	16.5	26.5	16.0	19.5	21.5	19.0	20.0	26.0	19.5	22.0
2	19.0	12.5	15.5	21.5	14.5	18.0	24.0	19.5	21.5	20.5	19.5	20.0
3	23.0	12.0	16.0	19.5	16.0	17.5	23.5	20.0	21.5	20.0	19.0	19.5
4	26.5	12.5	18.5	19.0	17.0	18.0	23.5	20.5	22.0	20.5	19.5	20.0
5	26.0	14.0	19.5	20.0	17.5	18.5	23.0	20.0	21.5	22.0	18.0	19.5
6	26.0	14.0	19.5	20.5	17.0	18.5	24.0	18.5	21.0	19.5	18.0	18.5
7	25.0	13.5	18.5	19.5	17.0	18.5	23.0	18.5	20.5	21.0	17.5	19.0
8	28.0	15.0	20.5	22.0	17.5	19.5	24.5	18.5	21.5	22.5	17.5	20.0
9	28.5	16.0	21.5	27.5	18.5	22.5	23.5	19.5	21.0	21.5	18.0	19.5
10	31.5	17.5	23.0	27.0	19.0	22.5	28.0	19.0	22.5	21.5	18.0	19.5
11	26.0	16.5	21.0	25.0	16.0	19.5	30.0	17.0	22.0	22.0	18.0	19.5
12	21.5	13.5	16.0	27.0	15.0	20.0	30.5	16.0	22.0	22.5	18.5	20.0
13	24.0	10.5	16.5	29.0	15.0	21.0	24.5	19.0	22.0	22.5	19.0	20.0
14	22.0	12.5	16.5	30.5	17.0	23.0	25.0	20.0	22.5	19.0	17.5	18.5
15	23.0	13.0	17.5	30.0	20.5	24.0	25.0	19.0	22.0	20.0	17.5	18.5
16	18.5	15.0	16.5	28.5	18.5	22.0	26.0	18.5	22.0	20.0	17.0	18.5
17	23.5	15.5	19.0	28.5	15.0	21.0	23.5	19.5	21.5	20.0	16.0	18.0
18	19.0	14.0	16.0	26.5	18.0	21.5	29.0	19.0	22.5	18.5	17.5	18.0
19	17.0	13.5	15.5	29.5	18.5	22.5	29.0	17.0	22.0	20.0	17.5	18.5
20	18.0	14.0	16.0	25.5	15.5	19.5	31.5	19.0	23.5	21.0	18.0	19.0
21	17.5	13.5	15.5	24.0	14.0	19.0	29.5	19.5	23.5	18.5	16.5	18.0
22	25.5	15.0	19.0	28.0	14.0	20.5	28.5	19.5	23.0	19.0	17.0	18.0
23	17.5	13.5	15.5	21.0	18.0	19.5	25.5	20.5	22.5	16.5	15.0	15.5
24	18.5	13.5	16.0	19.0	17.0	18.0	26.5	20.0	22.5	17.5	14.5	15.5
25	16.5	14.5	15.5	20.5	16.5	18.5	26.0	18.5	21.5	16.0	14.0	15.0
26	18.5	14.5	16.0	22.5	17.0	19.5	23.5	17.0	20.0	17.5	14.5	15.5
27	20.5	15.0	17.5	26.5	18.5	21.5	23.5	20.5	22.0	18.5	14.5	16.5
28	22.0	14.5	18.0	29.0	18.0	22.5	21.5	20.0	21.0	16.5	15.0	16.0
29	24.5	16.0	18.5	26.5	18.0	21.5	21.5	19.5	20.5	17.0	15.5	16.5
30	25.5	15.5	19.5	20.0	17.5	18.5	23.5	21.5	21.5	16.0	14.5	15.5
31	---	---	---	21.0	18.0	19.5	23.5	20.5	22.0	---	---	---
MONTH	31.5	10.5	17.5	30.5	14.0	20.0	31.5	16.0	22.0	26.0	14.0	18.5

01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.

LOCATION.--Lat 42°56'17", long 74°16'57", Montgomery County, at bridge on State Highway 5S in Fort Hunter and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--926 mi^2 (2,398 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT. 23...	1130	E21	.8	80	30	--	34	--	6.9	--	11	--
FEB. 13...	1230	E805	4.7	320	50	--	32	--	5.5	--	9.8	--
MAY 29...	1015	E780	1.4	20	10	23	--	2.8	--	4.0	--	1.0
JULY 22...	1045	E147	--	0	0	40	--	5.0	--	6.1	--	2.1
SEP. 16...	0945	E307	--	370	30	35	--	5.2	--	7.0	--	2.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT. 23...	2.3	113	0	93	30	17	--	.2	.48	.00	.04	.20
FEB. 13...	1.1	93	0	76	26	17	--	.2	.99	.01	.38	.33
MAY 29...	--	74	0	61	12	4.9	.2	--	.15	.01	.03	.23
JULY 22...	--	128	0	105	21	8.4	--	--	.29	.01	.12	.26
SEP. 16...	--	122	--	100	18	8.8	--	--	.14	.00	.25	.28

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT. 23...	.24	.73	.10	--	.00	158	185	180	0	0	110	21
FEB. 13...	.71	1.7	.06	--	.04	142	161	132	8	7	100	26
MAY 29...	.26	.42	.01	.00	--	--	93	78	4	2	--	--
JULY 22...	.38	.68	.01	.01	--	--	177	142	6	4	--	--
SEP. 16...	.53	.67	.02	.01	--	--	165	123	5	1	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 23...	302	7.5	--	--	5	--	.0	<1	10	3	3.9
FEB. 13...	260	7.6	--	--	10	--	.0	--	--	--	--
MAY 29...	165	8.1	--	--	8	--	.0	1	0	9	<.5
JULY 22...	279	7.9	3	2	8	--	--	--	--	--	--
SEP. 16...	220	--	2	5	13	4.5	--	<1	10	5	<.5

E Estimated value.

01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.

LOCATION.--Lat 42°56'42", long 74°17'21", Montgomery County, at bridge on highway between Tribes Hill and Fort Hunter and 0.3 mi (0.5 km) downstream from Schoharie Creek.

DRAINAGE AREA.--3,096 mi^2 (8,019 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT.										
10...	1100	3.8	960	140	--	28	--	5.4	--	10
NOV.										
07...	1245	5.4	470	70	--	25	--	5.0	--	7.0
DEC.										
11...	1330	3.8	2000	90	--	27	--	4.8	--	5.0
JAN.										
15...	1330	4.4	630	60	--	28	--	5.0	--	8.6
MAR.										
11...	1310	3.9	450	50	--	26	--	4.3	--	4.2
APR.										
08...	1445	4.1	1200	60	--	26	--	4.2	--	3.8
22...	1440	3.7	380	50	--	21	--	3.6	--	3.5
MAY										
07...	1315	3.6	310	60	30	--	5.6	--	8.3	--
20...	1530	3.0	320	20	23	--	4.0	--	4.0	--
JUNE										
03...	1610	2.9	260	40	30	--	5.7	--	6.7	--
17...	1510	.4	240	70	36	--	6.8	--	9.5	--
JULY										
01...	1400	2.1	190	50	30	--	5.6	--	7.6	--
15...	1445	--	590	60	34	--	5.8	--	7.2	--
29...	1430	--	320	40	38	--	6.1	--	9.1	--
AUG.										
12...	1415	--	60	20	33	--	5.7	--	10	--
27...	1320	--	300	50	38	--	6.6	--	10	--
SEP.										
10...	1555	--	430	50	37	--	6.8	--	7.7	--
25...	1440	--	360	40	32	--	9.4	--	6.8	--

DATE	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
10...	--	1.3	85	0	70	26	13	--	.4	1.2
NOV.										
07...	--	1.4	75	0	62	24	9.0	--	.3	.78
DEC.										
11...	--	1.7	77	0	63	23	7.0	--	.4	.88
JAN.										
15...	--	1.0	82	0	67	25	11	--	.1	1.2
MAR.										
11...	--	1.1	76	0	62	18	7.2	--	.1	.89
APR.										
08...	--	1.4	85	0	70	17	6.2	--	.1	.98
22...	--	.9	61	0	50	16	5.0	--	.0	.74
MAY										
07...	1.0	--	84	--	69	20	12	.2	--	.72
20...	1.0	--	67	0	55	15	5.9	.1	--	.36
JUNE										
03...	.9	--	101	0	83	21	9.3	.2	--	.62
17...	1.3	--	113	0	93	30	13	.2	--	.61
JULY										
01...	1.3	--	99	0	81	27	10	.2	--	.62
15...	1.5	--	109	0	89	24	10	--	--	.59
29...	1.7	--	108	0	89	27	13	--	--	.51
AUG.										
12...	1.4	--	107	--	88	27	14	--	--	.37
27...	1.4	--	102	--	84	30	14	--	--	.53
SEP.										
10...	1.4	--	110	--	90	27	11	--	--	.52
25...	1.3	--	104	--	85	16	9.0	--	--	.50

01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.										
10...	.00	.06	.29	.35	1.5	.06	--	.03	130	146
NOV.										
07...	.00	.00	.28	.28	1.1	.04	--	.03	114	162
DEC.										
11...	.00	.00	.31	.31	1.2	.10	--	.02	111	185
JAN.										
15...	.08	.12	.60	.72	2.0	.06	--	.02	124	156
MAR.										
11...	.07	.25	.20	.45	1.4	.04	--	.02	102	133
APR.										
08...	.02	.08	.22	.30	1.3	.07	--	.03	105	151
22...	.01	.20	.09	.29	1.0	.03	--	.02	84	107
MAY										
07...	.02	.26	.41	.67	1.4	.06	.02	--	--	160
20...	.08	.04	--	--	--	.03	.01	--	--	152
JUNE										
03...	.04	.15	--	--	--	.03	.01	--	--	159
17...	.03	.21	.47	.68	1.3	.04	.01	--	--	191
JULY										
01...	.30	.11	.38	.49	1.4	.07	.02	--	--	177
15...	.04	.25	.60	.85	1.5	.05	.02	--	--	189
29...	.04	.21	.41	.62	1.2	.04	.01	--	--	197
AUG.										
12...	.04	.25	.26	.51	.92	.03	.01	--	--	256
27...	.02	.54	.29	.83	1.4	.10	.01	--	--	263
SEP.										
10...	.07	.39	.13	.52	1.1	.07	.03	--	--	190
25...	.03	.34	.17	.51	1.0	.06	.01	--	--	162

DATE	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
10...	96	7	0	92	22	243	7.3	--	--	10
NOV.										
07...	112	14	8	83	21	214	7.3	--	--	10
DEC.										
11...	147	52	47	87	24	204	7.5	--	--	16
JAN.										
15...	128	20	16	91	23	227	7.5	--	--	11
MAR.										
11...	112	28	21	83	20	191	7.5	--	--	13
APR.										
08...	135	30	24	82	12	190	7.6	--	--	13
22...	92	6	6	67	17	154	7.5	--	--	8
MAY										
07...	101	12	7	--	--	219	7.6	--	--	11
20...	120	10	8	--	--	179	7.7	--	--	8
JUNE										
03...	119	3	3	--	--	239	8.0	--	--	9
17...	151	4	1	--	--	289	7.9	--	--	11
JULY										
01...	133	6	4	--	--	257	7.3	--	--	7
15...	140	20	18	--	--	264	6.8	4	7	12
29...	168	14	12	--	--	246	7.9	3	6	11
AUG.										
12...	172	6	2	--	--	349	--	2	3	14
27...	203	17	11	--	--	282	--	6	8	16
SEP.										
10...	158	8	5	--	--	281	--	8	8	15
25...	146	18	9	--	--	245	--	6	6	14

CONTINUED NEXT PAGE

01354000 MOHAWK RIVER AT TRIBES HILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
10...	--	.0	--	--	--	--	--	--	--	--
NOV.										
07...	--	.0	--	--	--	--	--	--	--	--
DEC.										
11...	--	.0	--	--	--	--	--	--	--	--
JAN.										
15...	--	.0	--	--	--	--	--	--	--	--
MAR.										
11...	--	.0	--	--	--	--	--	--	--	--
APR.										
08...	--	.0	--	1	0	10	20	3	<.5	30
22...	--	.0	--	1	--	--	20	1	<.5	--
MAY										
07...	--	.0	--	1	1	10	20	6	<.5	20
20...	--	.0	--	1	0	10	10	2	<.5	30
JUNE										
03...	--	.0	--	1	0	10	10	6	<.5	20
17...	--	.0	--	<1	0	20	10	0	<.5	140
JULY										
01...	--	.0	--	3	1	20	10	6	<.5	40
15...	4.1	--	4.7	2	0	<10	10	4	<.5	60
29...	4.4	--	--	<1	0	10	20	5	<.5	230
AUG.										
12...	5.0	--	--	1	0	0	10	1	<.5	80
27...	4.7	--	--	<1	1	10	0	7	<.5	60
SEP.										
10...	5.8	--	--	1	1	20	0	4	<.5	170
25...	9.4	--	--	<1	1	0	10	2	<.5	0

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.

LOCATION.--Lat 42°55'03", long 74°08'31", Montgomery County, at Erie (Barge) Canal Lock 10, 0.2 mi (0.3 km) upstream from Evas Kill, 0.3 mi (0.5 km) west of Cranesville, and 0.8 mi (1.3 km) downstream from Terwilleger Creek.

DRAINAGE AREA.--3,220 mi^2 (8,340 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT.										
10...	1000	2.5	260	40	--	31	--	5.9	--	13
23...	1045	3.0	210	40	--	34	--	5.9	--	12
NOV.										
07...	1300	5.2	530	70	--	29	--	5.8	--	7.5
27...	1215	4.0	490	60	--	28	--	4.9	--	5.5
DEC.										
11...	1411	3.9	2800	120	--	32	--	5.1	--	6.2
JAN.										
02...	1625	4.0	660	30	--	26	--	4.5	--	5.2
15...	1400	4.1	670	60	--	28	--	4.6	--	6.8
28...	1230	3.6	4100	130	--	27	--	3.5	--	4.8
FEB.										
13...	1315	4.4	280	40	--	28	--	4.6	--	6.1
25...	1600	3.4	630	20	--	23	--	3.7	--	8.1
MAR.										
11...	1340	3.4	660	40	--	23	--	3.7	--	4.0
25...	1645	3.7	810	40	--	24	--	4.9	--	6.4
APR.										
08...	1410	3.7	1000	40	--	21	--	3.4	--	4.0
22...	1515	3.5	410	50	--	22	--	3.6	--	4.0
MAY										
07...	1345	3.3	220	50	28	--	5.1	--	6.1	--
20...	1600	3.4	400	30	32	--	3.9	--	4.1	--
JUNE										
03...	1540	2.3	290	40	37	--	5.5	--	8.6	--
17...	1440	.1	280	60	33	--	6.3	--	10	--
JULY										
01...	1430	1.5	240	50	34	--	6.2	--	9.0	--
15...	1415	--	670	70	36	--	5.8	--	7.5	--
29...	1400	--	270	40	36	--	6.2	--	11	--
AUG.										
12...	1345	--	50	10	44	--	7.2	--	12	--
27...	1255	--	320	50	34	--	6.3	--	12	--
SEP.										
10...	1520	--	370	50	40	--	6.8	--	8.0	--
25...	1515	--	400	50	35	--	6.8	--	6.4	--

DATE	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
10...	--	1.5	94	0	77	31	16	--	.4	1.3
23...	--	1.4	92	0	75	31	16	--	.3	1.1
NOV.										
07...	--	1.3	88	0	72	28	9.0	--	.3	.91
27...	--	1.3	75	0	62	22	7.1	--	.3	.72
DEC.										
11...	--	2.0	85	0	70	25	9.1	--	.2	.89
JAN.										
02...	--	1.2	74	0	61	20	9.0	--	.3	.89
15...	--	1.1	77	0	63	22	9.2	--	.0	1.0
28...	--	1.8	66	0	54	23	8.0	--	.1	.96
FEB.										
13...	--	1.0	86	0	71	23	10	--	.1	.94
25...	--	1.2	65	0	53	18	9.0	--	.1	.79
MAR.										
11...	--	1.1	66	0	54	17	6.4	--	.1	.71
25...	--	1.3	78	0	64	21	11	--	.2	.73
APR.										
08...	--	1.3	60	0	49	16	6.1	--	.2	.71
22...	--	1.0	62	0	51	17	5.4	--	.0	.69
MAY										
07...	1.0	--	89	0	73	22	9.0	.1	--	.62
20...	1.1	--	75	0	62	16	21	.1	--	.45
JUNE										
03...	1.1	--	98	0	80	20	12	.1	--	.55
17...	1.4	--	94	0	77	27	14	.2	--	.49
JULY										
01...	1.4	--	107	0	88	31	12	.1	--	.61
15...	1.5	--	113	0	93	23	10	--	--	.51
29...	1.5	--	96	0	79	28	16	--	--	.57
AUG.										
12...	2.0	--	114	--	94	34	16	--	--	.53
27...	1.3	--	98	--	80	30	16	--	--	.52
SEP.										
10...	1.8	--	112	--	92	24	12	--	--	.45
25...	1.5	--	108	--	89	20	8.5	--	--	.52

CONTINUED NEXT PAGE

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.										
10...	.00	.06	.23	.29	1.6	.06	--	.03	148	167
23...	.00	.04	.25	.29	1.4	.12	--	.04	149	85
NOV.										
07...	.00	.00	.33	.33	1.2	.06	--	.03	130	95
27...	.00	.09	.06	.15	.87	.03	--	.02	110	138
DEC.										
11...	.00	.01	.49	.50	1.4	.14	--	.03	125	200
JAN.										
02...	.07	.04	.11	.15	1.1	.04	--	.01	107	147
15...	.10	.11	.25	.36	1.5	.06	--	.02	114	149
28...	.04	.30	.41	.71	1.7	.20	--	.06	104	248
FEB.										
13...	.01	.19	.29	.48	1.4	.03	--	.02	120	136
25...	.03	.18	.23	.41	1.2	.06	--	.03	99	125
MAR.										
11...	.03	.16	.15	.31	1.0	.04	--	.02	91	130
25...	.02	.21	.19	.40	1.1	.04	--	.03	111	135
APR.										
08...	.05	.08	.20	.28	1.0	.05	--	.03	85	115
22...	.01	.15	.09	.24	.94	.03	--	.02	87	108
MAY										
07...	.03	.07	.26	.33	.98	.08	.06	--	--	150
20...	.09	.05	.12	.17	.71	.04	.02	--	--	126
JUNE										
03...	.04	.09	.41	.50	1.1	.03	.00	--	--	60
17...	.04	.18	.48	.66	1.2	.04	.01	--	--	178
JULY										
01...	.14	.13	.50	.63	1.4	.11	.07	--	--	193
15...	.04	.19	.42	.61	1.2	.08	.01	--	--	194
29...	.05	.16	.09	.25	.87	.05	.01	--	--	236
AUG.										
12...	.04	.14	.11	.25	.82	.04	.05	--	--	278
27...	.03	.45	.28	.73	1.3	.08	.03	--	--	197
SEP.										
10...	.03	.25	.41	.66	1.1	.06	.02	--	--	190
25...	.02	.30	.30	.60	1.1	.07	.01	--	--	173

DATE	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
10...	120	8	4	100	25	280	7.3	--	--	10
23...	75	2	0	110	34	275	7.2	--	--	8
NOV.										
07...	49	19	14	96	24	239	7.7	--	--	10
27...	104	15	0	90	29	205	7.4	--	--	10
DEC.										
11...	171	66	62	100	31	230	7.5	--	--	19
JAN.										
02...	111	17	16	83	23	203	7.5	--	--	8
15...	123	18	15	89	26	211	7.6	--	--	8
28...	219	155	142	82	28	182	7.7	--	--	19
FEB.										
13...	106	9	8	89	18	224	7.6	--	--	7
25...	97	14	10	73	19	186	7.6	--	--	11
MAR.										
11...	109	32	26	73	19	176	7.5	--	--	9
25...	106	15	13	80	16	194	7.8	--	--	10
APR.										
08...	85	25	22	66	17	148	7.6	--	--	9
22...	108	8	8	70	19	160	7.6	--	--	9
MAY										
07...	--	9	5	--	--	217	7.8	--	--	11
20...	100	14	13	--	--	185	7.9	--	--	9
JUNE										
03...	27	6	2	--	--	260	8.1	--	--	11
17...	138	4	2	--	--	272	8.0	--	--	10
JULY										
01...	151	11	8	--	--	279	7.5	--	--	9
15...	147	20	15	--	--	268	7.0	3	9	13
29...	196	14	10	--	--	264	8.0	3	5	14
AUG.										
12...	218	11	9	--	--	320	--	3	3	15
27...	154	20	16	--	--	293	--	2	9	13
SEP.										
10...	163	6	0	--	--	279	--	6	8	16
25...	151	19	10	--	--	259	--	7	8	15

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
10...	--	.0	--	--	--	--	--	--	--	--
23...	--	.0	--	<1	--	--	10	9	2.1	--
NOV.										
07...	--	.0	--	--	--	--	--	--	--	--
27...	--	.0	--	--	--	--	--	--	--	--
DEC.										
11...	--	.0	--	--	--	--	--	--	--	--
JAN.										
02...	--	.0	--	--	--	--	--	--	--	--
15...	--	.0	--	--	--	--	--	--	--	--
28...	--	.0	--	--	--	--	--	--	--	--
FEB.										
13...	--	.0	--	--	--	--	--	--	--	--
25...	--	.0	--	--	--	--	--	--	--	--
MAR.										
11...	--	.0	--	--	--	--	--	--	--	--
25...	--	.0	--	--	--	--	--	--	--	--
APR.										
08...	--	.0	--	2	0	10	10	0	<.5	30
22...	--	.0	--	1	--	--	20	3	<.5	--
MAY										
07...	--	.0	--	3	2	0	140	3	<.5	10
20...	--	.0	--	2	0	10	10	2	<.5	590
JUNE										
03...	--	.0	--	2	0	10	0	5	<.5	40
17...	--	.0	--	<1	0	10	10	0	<.5	210
JULY										
01...	--	.0	--	1	2	10	130	25	<.5	50
15...	3.2	--	8.7	3	0	10	10	3	<.5	40
29...	5.4	--	--	1	0	10	20	14	<.5	80
AUG.										
12...	4.1	--	--	1	0	<10	20	0	<.5	180
27...	4.3	--	--	1	0	10	10	7	<.5	20
SEP.										
10...	6.7	--	--	0	1	<10	0	3	<.5	10
25...	6.8	--	--	<1	1	20	10	8	<.5	0

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.

LOCATION.--Lat 42°49'07", long 73°56'59", Schenectady County, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mi (0.5 km) downstream from Western Gateway Bridge, and 1.0 mi (1.6 km) upstream from Collins Creek.

DRAINAGE AREA.--3,302 mi^2 (8,552 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT.										
10...	0900	1.2	440	150	--	34	--	6.6	--	13
23...	1425	1.6	280	50	--	33	--	6.5	--	13
NOV.										
07...	1345	4.8	360	60	--	31	--	6.2	--	10
27...	1300	4.2	550	60	--	32	--	5.5	--	7.5
DEC.										
11...	1445	4.1	3300	180	--	30	--	5.4	--	6.0
JAN.										
02...	1700	4.1	710	50	--	27	--	5.1	--	5.7
15...	1500	4.4	420	60	--	31	--	5.5	--	8.6
28...	1155	3.7	7200	190	--	31	--	4.0	--	5.0
FEB.										
13...	1350	4.7	280	50	--	31	--	5.2	--	7.5
MAR.										
11...	1430	3.8	880	50	--	26	--	4.2	--	5.5
25...	1140	4.0	950	40	--	29	--	5.2	--	6.5
APR.										
08...	1315	3.9	1200	60	--	23	--	4.0	--	4.4
22...	1200	3.6	490	60	--	22	--	3.6	--	4.5
MAY										
07...	1500	3.5	490	60	28	--	5.2	--	6.6	--
20...	1645	3.6	420	30	32	--	4.4	--	4.5	--
JUNE										
03...	1440	2.4	360	40	31	--	5.7	--	9.0	--
17...	1400	.3	800	80	35	--	6.4	--	11	--
JULY										
01...	1515	.2	310	50	34	--	6.0	--	12	--
15...	1335	--	780	80	33	--	5.5	--	7.5	--
29...	1320	--	630	50	39	--	6.9	--	9.0	--
AUG.										
12...	1315	--	360	50	38	--	7.0	--	11	--
27...	1225	--	450	60	35	--	7.0	--	12	--
SEP.										
10...	1430	--	930	90	37	--	6.6	--	2.5	--
25...	1200	--	500	80	32	--	8.4	--	6.3	--

DATE	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
10...	--	1.7	108	0	89	32	17	--	.4	1.2
23...	--	1.7	103	0	84	32	17	--	.3	1.4
NOV.										
07...	--	1.6	95	0	78	31	14	--	.3	.97
27...	--	1.5	86	0	71	26	10	--	.3	.88
DEC.										
11...	--	1.8	83	0	68	26	8.6	--	.2	.91
JAN.										
02...	--	1.3	81	0	66	20	9.9	--	.3	1.0
15...	--	1.2	91	0	75	25	12	--	.0	1.1
28...	--	1.7	74	0	61	26	8.5	--	.3	1.0
FEB.										
13...	--	1.1	89	0	73	25	12	--	.1	.98
MAR.										
11...	--	1.2	76	0	62	18	8.7	--	.2	.78
25...	--	1.4	82	0	67	21	11	--	.1	.75
APR.										
08...	--	1.4	70	0	57	16	6.9	--	.1	.86
22...	--	1.1	63	0	52	16	6.8	--	.1	.70
MAY										
07...	1.2	--	87	0	71	21	9.8	.3	--	.63
20...	1.1	--	76	0	62	16	6.8	.1	--	.55
JUNE										
03...	1.1	--	103	0	84	23	13	.2	--	.57
17...	1.2	--	102	0	84	28	15	.2	--	.48
JULY										
01...	1.5	--	107	0	88	27	16	.2	--	.67
15...	2.0	--	116	0	95	23	11	--	--	.55
29...	1.8	--	108	0	89	28	12	--	--	.54
AUG.										
12...	1.9	--	121	--	99	32	15	--	--	.51
27...	1.3	--	110	--	90	30	16	--	--	.59
SEP.										
10...	1.7	--	110	--	90	24	11	--	--	.49
25...	1.5	--	103	--	84	16	8.6	--	--	.87

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)
OCT.										
10...	.00	.09	.57	.66	1.9	.04	--	.03	159	186
23...	.01	.05	.35	.40	1.8	.06	--	.03	156	177
NOV.										
07...	.00	.00	.30	.30	1.3	.06	--	.04	146	74
27...	.00	.13	.07	.20	1.1	.07	--	.04	129	162
DEC.										
11...	.00	.01	.31	.32	1.2	.11	--	.03	123	202
JAN.										
02...	.09	.06	.17	.23	1.3	.04	--	.01	113	158
15...	.34	.10	.58	.68	2.1	.08	--	.02	133	176
28...	.05	.37	.55	.92	2.0	.30	--	.07	117	255
FEB.										
13...	.01	.21	.26	.47	1.5	.04	--	.03	131	150
MAR.										
11...	.07	.16	.25	.41	1.3	.07	--	.03	105	136
25...	.05	.26	.84	1.1	1.9	.10	--	.04	119	152
APR.										
08...	.01	.08	.27	.35	1.2	.06	--	.03	94	148
22...	.01	.17	.08	.25	.96	.03	--	.02	89	112
MAY										
07...	.03	.11	.28	.39	1.1	.07	.04	--	--	159
20...	.10	.06	--	--	--	.04	.02	--	--	147
JUNE										
03...	.03	.09	.34	.43	1.0	.04	.00	--	--	166
17...	.04	.20	.46	.66	1.2	.06	.02	--	--	195
JULY										
01...	.17	.10	.54	.64	1.5	.09	.02	--	--	201
15...	.03	.29	.81	1.1	1.7	.07	.02	--	--	207
29...	.04	.13	.22	.35	.93	.04	.01	--	--	203
AUG.										
12...	.03	.23	.07	.30	.84	.06	.01	--	--	272
27...	.03	.37	.41	.78	1.4	.11	.04	--	--	208
SEP.										
10...	.02	.29	.29	.58	1.1	.07	.03	--	--	196
25...	.02	.31	.17	.48	1.4	.05	.02	--	--	170

DATE	RESIDUE ON IGNITION (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
10...	130	24	12	110	23	302	7.4	--	--	10
23...	151	4	2	110	25	302	7.2	--	--	9
NOV.										
07...	43	23	16	100	25	272	7.4	--	--	10
27...	134	15	12	100	32	235	7.3	--	--	11
DEC.										
11...	175	71	64	97	29	224	7.4	--	--	20
JAN.										
02...	117	20	17	88	22	215	7.5	--	--	8
15...	140	26	19	100	25	246	7.4	--	--	13
28...	232	210	194	94	33	197	7.6	--	--	30
FEB.										
13...	121	10	8	99	26	240	7.5	--	--	8
MAR.										
11...	115	30	24	82	20	200	7.5	--	--	13
25...	113	26	25	94	27	204	7.7	--	--	12
APR.										
08...	133	28	23	74	16	177	7.5	--	--	10
22...	95	9	8	70	18	166	7.5	--	--	9
MAY										
07...	105	15	10	--	--	218	7.8	--	--	11
20...	124	14	11	--	--	192	7.9	--	--	10
JUNE										
03...	135	8	7	--	--	246	8.2	--	--	11
17...	143	21	20	--	--	267	7.8	--	--	9
JULY										
01...	161	18	14	--	--	285	7.4	--	--	13
15...	152	22	18	--	--	278	7.0	10	10	14
29...	190	23	20	--	--	249	8.1	2	8	13
AUG.										
12...	182	14	13	--	--	317	--	3	6	16
27...	159	14	8	--	--	308	--	6	8	15
SEP.										
10...	157	10	7	--	--	--	--	9	9	16
25...	146	20	10	--	--	244	--	7	9	15

CONTINUED NEXT PAGE

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
10...	--	.0	--	--	--	--	--	--	--	--
23...	--	.0	--	1	--	--	10	7	2.4	--
NOV.										
07...	--	.0	--	--	--	--	--	--	--	--
27...	--	.0	--	--	--	--	--	--	--	--
DEC.										
11...	--	.0	--	--	--	--	--	--	--	--
JAN.										
02...	--	.0	--	--	--	--	--	--	--	--
15...	--	.0	--	--	--	--	--	--	--	--
28...	--	.0	--	--	--	--	--	--	--	--
FEB.										
13...	--	.0	--	--	--	--	--	--	--	--
MAR.										
11...	--	.0	--	--	--	--	--	--	--	--
25...	--	.0	--	--	--	--	--	--	--	--
APR.										
08...	--	.0	--	1	0	20	20	1	<.5	40
22...	--	.0	--	1	--	--	10	2	<.5	--
MAY										
07...	--	.0	--	<1	3	<10	30	11	<.5	30
20...	--	--	--	2	0	10	0	2	<.5	40
JUNE										
03...	--	.0	--	5	0	10	10	4	<.5	20
17...	--	.0	--	<1	0	20	10	2	<.5	50
JULY										
01...	--	.0	--	2	1	10	20	25	<.5	40
15...	4.2	--	7.3	2	1	<10	20	11	<.5	80
29...	6.4	--	--	0	0	10	20	16	<.5	20
AUG.										
12...	5.0	--	--	2	0	0	10	5	<.5	80
27...	8.5	--	--	0	1	<10	10	10	<.5	50
SEP.										
10...	7.5	--	--	6	1	10	10	4	<.5	400
25...	4.9	--	--	<1	3	20	10	5	<.5	0

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.

LOCATION.--Lat 42°48'27", long 73°50'39", Saratoga County, at bridge crossing headrace of Vischer Ferry powerplant operated by New York State Department of Transportation at Vischer Ferry Dam.

DRAINAGE AREA.--3,385 mi^2 (8,767 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1951 to September 1953.
Water temperatures: October 1951 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C July 19, 28, Aug. 30 minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 5, 1955; minimum, freezing point on many days during winter periods.

REMARKS.-- Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature record furnished by New York State Department of Transportation.

CHEMICAL ANALYSES

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE						
06...	1000	E3280	<1	50	0	<.5
SEP.						
05...	0900	E5690	1	260	3	<.5

E Estimated value.

CONTINUED NEXT PAGE

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(TWICE DAILY MEASUREMENTS AT 0800 AND 1600)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	17.0	16.5	11.5	11.5	4.0	4.0	0.0	0.0	0.0	0.0	0.5	1.0
2	17.0	16.5	11.5	11.5	4.0	4.0	0.0	0.0	0.0	0.0	1.0	1.0
3	17.0	17.0	10.0	10.0	4.0	4.0	0.0	0.0	0.0	0.0	0.5	1.0
4	17.0	17.0	10.0	10.0	4.0	4.5	0.0	0.0	0.0	0.0	1.0	1.0
5	17.0	17.0	9.5	9.5	4.0	4.0	0.0	0.0	0.0	0.0	1.0	1.0
6	16.5	17.0	9.5	9.5	4.0	4.0	0.0	0.0	0.0	0.0	1.0	1.0
7	16.0	16.5	9.5	9.5	4.0	4.0	0.0	0.0	0.0	0.0	0.5	0.5
8	16.0	16.0	9.0	9.0	4.0	3.5	0.0	0.0	0.0	0.0	0.5	1.0
9	15.5	16.0	9.0	9.0	4.0	3.5	0.0	0.0	0.0	0.0	1.0	1.0
10	15.5	15.5	6.5	5.5	3.5	3.5	0.0	0.0	0.0	0.0	1.0	1.0
11	15.5	15.5	4.5	5.0	3.5	3.5	0.0	0.0	0.0	0.0	1.0	1.0
12	15.5	15.5	4.5	4.5	3.5	3.5	0.0	0.0	0.0	0.0	1.0	1.0
13	15.5	15.5	4.5	5.0	3.5	3.5	0.0	0.0	0.0	0.0	1.0	1.0
14	15.5	15.5	4.5	6.5	2.0	2.0	0.0	0.0	0.5	0.0	1.0	1.0
15	15.5	15.5	6.5	6.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0
16	15.5	12.0	5.5	5.5	1.0	1.0	0.0	0.0	0.5	0.5	1.0	1.0
17	14.0	14.0	4.5	4.5	1.0	0.5	0.0	0.0	0.0	0.0	1.0	1.5
18	13.5	13.5	4.5	4.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0	1.0
19	13.5	13.5	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.5	1.0	1.5
20	13.5	13.5	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.5	1.0	2.0
21	13.5	13.5	4.0	4.5	0.0	0.0	0.0	0.0	0.5	0.0	1.5	2.0
22	13.0	10.0	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.0	1.0	1.5
23	12.0	13.0	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.0	1.5	1.5
24	12.0	12.0	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.5	2.0	1.5
25	12.0	12.0	4.5	4.5	0.0	0.0	0.0	0.0	1.0	0.5	1.5	2.0
26	12.0	12.0	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.5	1.5	1.5
27	12.0	10.5	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.5	1.5	1.5
28	11.5	10.5	4.5	4.5	0.0	0.0	0.0	0.0	1.0	0.5	1.0	1.0
29	12.0	12.0	4.5	5.0	0.0	0.0	0.0	0.0	---	---	1.5	1.5
30	11.5	11.5	5.0	5.0	0.0	0.0	0.0	0.0	---	---	1.0	1.0
31	11.0	11.5	---	---	0.0	0.0	0.0	0.0	---	---	1.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	2.0	2.0	12.0	12.0	16.5	16.5	21.0	22.0	24.0	24.0	24.5	23.5
2	2.0	3.0	13.0	13.0	16.5	16.5	21.5	22.0	22.0	24.5	24.0	23.0
3	1.5	1.5	12.0	12.0	17.0	17.0	21.5	22.0	24.5	24.5	24.5	23.5
4	4.0	5.5	12.0	12.0	17.0	18.0	22.0	22.0	24.5	24.5	23.5	22.0
5	4.0	4.5	12.0	12.0	18.0	19.0	21.5	21.5	24.0	24.5	23.5	23.0
6	6.0	6.0	12.0	12.0	19.0	19.5	21.5	21.5	24.5	24.0	21.0	21.0
7	5.5	5.5	11.5	11.5	19.0	19.5	21.5	22.0	24.5	24.0	20.5	21.0
8	5.5	4.5	11.5	11.5	19.0	20.0	22.0	23.0	24.0	24.5	19.0	19.5
9	5.0	3.0	11.5	11.5	19.5	20.5	23.0	23.5	24.0	24.5	18.5	20.0
10	3.5	3.5	11.0	11.5	19.5	21.0	24.5	24.5	24.5	24.5	18.5	19.5
11	3.5	4.0	11.0	11.5	20.0	22.0	24.0	24.0	24.0	24.5	19.5	19.5
12	3.5	6.5	11.5	11.5	20.0	20.5	23.0	23.0	24.0	24.5	20.0	21.0
13	3.5	4.5	11.5	11.0	20.0	21.0	24.0	24.5	24.5	24.5	20.5	20.5
14	4.5	7.0	11.0	11.5	21.5	21.5	23.5	24.5	24.0	24.5	20.5	20.5
15	6.5	8.0	12.0	13.5	21.0	21.5	24.5	24.0	24.0	25.0	20.0	19.5
16	6.5	6.5	12.0	13.5	21.0	21.5	24.0	24.5	24.5	24.5	19.5	19.5
17	6.5	7.0	13.0	13.5	21.5	22.0	24.5	24.5	24.0	25.0	19.0	19.0
18	6.5	8.0	14.0	15.0	21.0	22.0	24.0	24.5	24.5	24.5	18.5	18.5
19	6.5	8.0	14.5	15.0	21.5	21.5	25.0	25.5	24.0	25.0	18.5	18.5
20	7.0	7.0	14.5	15.5	22.0	22.0	22.0	24.0	24.5	24.5	18.5	18.5
21	7.0	8.0	15.5	15.5	23.5	23.5	24.5	24.5	24.5	24.5	18.5	18.5
22	9.5	9.5	16.0	16.5	21.5	23.0	24.5	25.0	24.5	25.0	18.0	18.0
23	9.5	11.0	17.0	17.0	21.5	21.5	24.5	25.0	24.5	24.5	17.0	15.5
24	9.5	10.0	16.5	18.0	21.5	22.0	24.5	24.5	24.5	24.5	14.5	16.5
25	9.5	9.5	17.0	17.0	21.5	21.5	23.5	24.0	24.5	24.5	15.5	15.5
26	9.5	10.5	16.5	16.5	21.5	21.5	24.5	25.0	24.5	24.5	15.0	15.5
27	9.5	10.0	16.0	16.5	21.5	22.0	24.5	24.5	24.5	24.5	15.0	15.0
28	10.5	10.5	15.5	16.0	22.0	22.0	24.5	25.5	24.5	24.0	14.5	14.5
29	11.0	12.0	15.5	15.5	21.0	21.0	25.0	25.0	24.5	24.0	14.0	14.0
30	12.0	13.0	15.5	16.0	21.5	22.0	24.0	19.5	25.0	25.5	13.5	14.0
31	---	---	16.0	16.0	---	---	22.0	24.0	24.5	24.5	---	---

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.

LOCATION.--Lat 42°48'22", long 73°43'24", Albany County, at hydroelectric station at Crescent Dam and 1.7 mi (2.7 km) upstream from gaging station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 mi^2 (8,943 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
02...	1320	E1480	.3	520	80	--	36	--	7.2	--	17
16...	1500	E1430	.2	880	100	--	34	--	6.3	--	16
30...	1250	E1740	.1	770	80	--	32	--	6.2	--	14
NOV.											
13...	1500	E2340	4.2	0	0	--	35	--	6.5	--	12
DEC.											
03...	1145	E4170	4.0	200	20	--	31	--	5.5	--	7.0
JAN.											
08...	1000	E6270	4.4	430	40	--	30	--	5.5	--	8.5
22...	1400	E6090	4.3	290	50	--	28	--	5.0	--	8.9
FEB.											
04...	1130	E7720	4.1	680	40	--	29	--	5.1	--	6.0
19...	1345	E4560	4.5	460	50	--	30	--	5.1	--	8.5
MAR.											
04...	1045	E8660	4.1	360	140	--	28	--	4.7	--	7.0
18...	1530	E12700	4.4	1400	70	--	27	--	4.5	--	6.0
APR.											
02...	1230	E9330	4.0	390	80	--	30	--	5.3	--	10
08...	1030	E18000	3.8	1600	80	--	21	--	3.6	--	4.3
22...	0940	E9280	3.8	1000	110	--	23	--	3.7	--	5.0
MAY											
07...	0945	E5340	3.3	1000	100	27	--	4.7	--	6.9	--
20...	1135	E7350	3.5	1000	70	23	--	3.9	--	5.2	--
JUNE											
03...	1240	E2470	1.0	420	50	33	--	5.4	--	7.0	--
17...	1230	E2900	.1	680	90	36	--	6.5	--	10	--
JULY											
01...	1200	E2080	.1	1300	80	32	--	5.9	--	12	--
15...	1215	E2370	--	1600	170	36	--	6.0	--	6.5	--
29...	1200	E2310	--	530	50	39	--	6.6	--	9.0	--
AUG.											
12...	1215	E1070	--	580	60	35	--	6.1	--	9.5	--
27...	1110	E1550	--	1000	110	40	--	7.7	--	14	--
SEP.											
10...	1245	E2510	--	800	90	36	--	12	--	8.0	--
25...	1140	E4060	--	620	70	37	--	7.9	--	8.2	--

E Estimated value.

CONTINUED NEXT PAGE

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
02...	--	1.8	112	0	92	23	24	--	.3	1.2
16...	--	1.7	106	0	87	31	19	--	.0	.98
30...	--	1.6	102	0	84	31	17	--	.3	.99
NOV.										
13...	--	1.7	103	0	84	35	14	--	.3	1.1
DEC.										
03...	--	1.8	84	0	69	26	13	--	.3	.91
JAN.										
08...	--	1.2	92	0	75	25	12	--	.3	.90
22...	--	2.5	82	0	67	24	14	--	.1	.89
FEB.										
04...	--	1.2	84	0	69	25	10	--	.1	.95
19...	--	1.1	87	0	71	24	13	--	.1	.90
MAR.										
04...	--	1.2	83	0	68	22	12	--	.0	.85
18...	--	1.3	77	0	63	22	13	--	.2	.84
APR.										
02...	--	1.2	90	0	74	23	17	--	.1	.77
08...	--	1.2	67	0	55	15	6.9	--	.1	1.1
22...	--	1.2	66	0	54	17	7.4	--	.0	.69
MAY										
07...	1.1	--	77	0	63	20	11	.2	--	.66
20...	1.1	--	70	0	57	16	7.8	.2	--	.48
JUNE										
03...	1.1	--	101	0	83	20	9.9	.1	--	.39
17...	1.2	--	112	0	92	25	14	.3	--	.43
JULY										
01...	1.6	--	108	0	89	29	17	.2	--	1.1
15...	2.0	--	138	0	113	22	8.7	--	--	.89
29...	1.7	--	114	0	94	46	13	--	--	3.1
AUG.										
12...	1.9	--	111	--	91	28	13	--	--	.42
27...	1.5	--	129	--	106	32	19	--	--	.47
SEP.										
10...	1.8	--	106	--	87	27	12	--	--	.50
25...	1.5	--	97	--	80	18	11	--	--	.46

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)
OCT.										
02...	.00	.00	.32	.32	1.5	.07	--	.04	165	213
16...	.00	.04	.23	.27	1.3	.09	--	.04	161	134
30...	.01	.01	.35	.36	1.4	.08	--	.05	153	172
NOV.										
13...	.00	.00	.22	.22	1.3	.07	--	.05	160	--
DEC.										
03...	.00	.00	.19	.19	1.1	.08	--	.04	130	104
JAN.										
08...	.01	.34	.02	.36	1.3	.05	--	.04	132	160
22...	.02	.33	.25	.58	1.5	.06	--	.04	127	157
FEB.										
04...	.02	.26	.12	.38	1.3	.04	--	.03	122	160
19...	.01	.27	.16	.43	1.3	.05	--	.04	129	147
MAR.										
04...	.02	.33	.30	.63	1.5	.05	--	.03	120	136
18...	.09	.27	.00	.27	1.2	.08	--	.05	116	167
APR.										
02...	.04	.29	.22	.51	1.3	.04	--	.04	135	156
08...	.01	.16	.41	.57	1.7	.08	--	.04	89	126
22...	.02	.30	.14	.44	1.1	.07	--	.03	94	132
MAY										
07...	.03	.17	.35	.52	1.2	.08	.03	--	--	163
20...	.07	.16	.29	.45	1.0	.08	.03	--	--	129
JUNE										
03...	.03	.15	.44	.59	1.0	.07	.01	--	--	158
17...	.04	.37	.41	.78	1.3	.10	.04	--	--	196
JULY										
01...	.00	.01	.43	.44	1.5	.13	.04	--	--	220
15...	.05	.37	.58	.95	1.9	.13	.04	--	--	210
29...	.05	.31	.17	.48	3.6	.07	.02	--	--	199
AUG.										
12...	.04	.34	.50	.84	1.3	.09	.02	--	--	274
27...	.04	.77	.63	1.4	1.9	.10	.05	--	--	258
SEP.										
10...	.04	.25	.61	.86	1.4	.10	.02	--	--	201
25...	.04	.48	.19	.67	1.2	.09	.02	--	--	175

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	RESIDUE ON IGNITION (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
02...	154	11	0	120	28	339	7.3	--	--	11
16...	86	25	12	110	24	307	7.3	--	--	11
30...	147	14	8	110	22	293	7.3	--	--	11
NOV.										
13...	--	10	5	110	30	285	7.6	--	--	9
DEC.										
03...	100	10	8	100	31	227	7.2	--	--	11
JAN.										
08...	135	14	11	98	22	243	7.5	--	--	7
22...	103	2	1	91	23	230	7.4	--	--	9
FEB.										
04...	120	19	16	93	25	222	7.5	--	--	9
19...	121	10	9	96	25	247	7.4	--	--	8
MAR.										
04...	119	19	14	89	21	229	7.5	--	--	8
18...	148	35	22	86	23	213	7.6	--	--	10
APR.										
02...	125	9	8	97	23	251	7.5	--	--	8
08...	103	24	23	67	12	165	7.5	--	--	12
22...	109	24	22	73	19	173	7.5	--	--	11
MAY										
07...	115	30	24	--	--	206	7.6	--	--	11
20...	99	39	28	--	--	185	7.7	--	--	12
JUNE										
03...	114	9	7	--	--	247	8.4	--	--	12
17...	185	15	13	--	--	280	7.6	--	--	11
JULY										
01...	177	27	23	--	--	294	7.2	--	--	13
15...	180	47	40	--	--	264	7.1	7	30	17
29...	171	20	16	--	--	261	7.8	4	8	16
AUG.										
12...	174	22	18	--	--	345	--	4	10	20
27...	198	38	30	--	--	344	--	3	20	19
SEP.										
10...	165	17	16	--	--	277	--	4	10	19
25...	152	30	17	--	--	248	--	10	20	20

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
02...	--	.0	--	--	--	--	--	--	--	--
16...	--	.0	--	--	--	--	--	--	--	--
30...	--	.0	--	--	--	--	--	--	--	--
NOV.										
13...	--	.0	--	--	--	--	--	--	--	--
DEC.										
03...	--	.0	--	--	--	--	--	--	--	--
JAN.										
08...	--	.0	--	--	--	--	--	--	--	--
22...	--	.0	--	--	--	--	--	--	--	--
FEB.										
04...	--	.0	--	--	--	--	--	--	--	--
19...	--	.0	--	--	--	--	--	--	--	--
MAR.										
04...	--	.0	--	--	--	--	--	--	--	--
18...	--	.0	--	--	--	--	--	--	--	--
APR.										
02...	--	.0	--	--	--	--	--	--	--	--
08...	--	.0	--	1	0	0	20	1	<.5	30
22...	--	.0	--	1	--	--	20	5	<.5	--
MAY										
07...	--	.0	--	1	0	10	10	5	<.5	20
20...	--	.0	--	2	0	10	10	3	<.5	60
JUNE										
03...	--	.0	--	1	0	<10	10	5	<.5	80
17...	--	.0	--	1	0	20	10	3	<.5	260
JULY										
01...	--	.0	--	2	0	10	20	7	<.5	150
15...	5.8	--	7.7	3	0	10	20	7	<.5	30
29...	5.5	--	--	2	0	<10	20	5	<.5	460
AUG.										
12...	6.8	--	--	2	0	<10	20	1	<.5	20
27...	4.5	--	--	0	3	<10	30	21	<.5	80
SEP.										
10...	6.7	--	--	1	1	10	10	7	<.5	270
25...	7.7	--	--	1	0	0	10	4	<.5	0

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.
(International Hydrological Decade River Station)
(Radiochemical Network)

LOCATION.--Lat 42°44'07", long 73°41'25", Albany-Rensselaer County line, right channel at bridge on road between Green Island and Troy, at Starbuck Island, 0.5 mi (0.8 km) upstream from bridge on State Highway 7, and 1.2 mi (1.9 km) downstream from gaging station at Troy lock and dam.

DRAINAGE AREA.--8,090 mi^2 (20,953 km^2), approximately, at gaging station (including that above site of former auxiliary gage).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1974.
Water temperatures: October 1954 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C Aug. 14, 17, 22-25; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature measurements made at Troy lock and dam, lat 42°45'08", long 73°41'22". Prior to October 1968 sampling site at bridge on State Highway 7. Stream frozen or no water temperature record Dec. 17 to April 15.

COOPERATION.--Water temperature record furnished by the Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
25...	0930	E5900	2.6	240	10	--	23	--	4.4	--	11	--
NOV.												
14...	1030	E5310	4.1	260	20	--	22	--	4.6	--	9.0	--
DEC.												
18...	1330	E11100	4.2	530	40	--	23	--	4.6	--	6.5	--
JAN.												
24...	0940	E25900	4.7	570	100	--	17	--	3.6	--	8.3	--
FEB.												
20...	1710	E13900	5.0	440	40	--	11	--	2.7	--	4.2	--
MAR.												
22...	1000	E19300	4.8	660	70	--	18	--	4.0	--	6.1	--
APR.												
25...	1545	E28900	3.7	890	90	18	--	3.7	--	4.5	--	1.0
MAY												
24...	1345	E17200	4.7	370	50	21	--	3.0	--	3.7	--	.7
JUNE												
20...	1320	E8600	3.0	420	60	18	--	4.4	--	6.0	--	.7
JULY												
17...	1500	E7880	--	460	90	22	--	4.0	--	5.6	--	1.1
AUG.												
08...	1200	E6770	--	360	80	19	--	3.8	--	4.5	--	.9
SEP.												
05...	0830	E15700	--	760	50	25	--	5.4	--	7.9	--	1.0

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
25...	1.4	62	0	51	24	13	--	.4	.57	.16	.11	.48
NOV.												
14...	1.2	63	0	52	24	11	--	.3	.88	.00	.00	.38
DEC.												
18...	1.2	63	0	52	20	11	--	.4	.68	.03	.14	.05
JAN.												
24...	.8	42	0	34	17	12	--	.1	.69	.04	.17	.25
FEB.												
20...	.7	33	0	27	14	5.8	--	.1	.62	.00	.18	.23
MAR.												
22...	1.0	50	0	41	18	9.4	--	.0	.74	.00	.34	.24
APR.												
25...	--	59	0	48	15	7.0	.3	--	.66	.01	.16	.35
MAY												
24...	--	35	0	29	13	4.9	.1	--	.46	.02	.26	.30
JUNE												
20...	--	54	0	44	17	10	.3	--	.47	.02	.16	.33
JULY												
17...	--	64	0	53	19	7.7	--	--	.46	.03	.30	.30
AUG.												
08...	--	44	0	36	16	9.3	--	--	.32	.02	.31	.22
SEP.												
05...	--	78	0	64	20	11	--	--	.57	.04	.37	.25

E Estimated value.

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 25...	.59	1.3	.04	--	.03	110	--	--	0	0	73	22
NOV. 14...	.38	1.3	.05	--	.02	107	134	102	8	2	80	28
DEC. 18...	.19	.90	.04	--	.02	102	125	98	16	12	73	21
JAN. 24...	.42	1.1	.04	--	.02	84	95	85	9	4	56	22
FEB. 20...	.41	1.0	.03	--	.02	60	75	49	6	4	36	9
MAR. 22...	.58	1.3	.04	--	.01	86	120	92	15	13	67	26
APR. 25...	.51	1.2	.07	.02	--	--	129	97	32	26	--	--
MAY 24...	.56	1.0	.03	.01	--	--	121	96	10	9	--	--
JUNE 20...	.49	.98	.04	.00	--	--	119	84	8	7	--	--
JULY 17...	.60	1.1	.05	.01	--	--	131	98	11	10	--	--
AUG. 08...	.53	.87	.06	.06	--	--	108	69	7	5	--	--
SEP. 05...	.62	1.2	.07	.02	--	--	165	118	27	9	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 25...	230	7.5	11.0	--	--	10.4	95	14	79100	13500	--	.0
NOV. 14...	225	7.1	--	--	--	13.1	109	14	37000	4000	--	.0
DEC. 18...	184	7.2	--	--	--	15.0	106	14	81700	--	--	.0
JAN. 24...	210	7.5	.0	--	--	14.8	105	11	20000	82500	--	.0
FEB. 20...	145	6.8	5.5	--	--	14.4	105	11	73000	11000	--	.0
MAR. 22...	185	7.3	2.0	--	--	14.0	105	16	844000	8500	--	.0
APR. 25...	180	7.1	11.0	--	--	8.6	80	16	817000	81200	--	.0
MAY 24...	131	7.1	17.0	--	--	9.0	93	17	30000	9400	--	.0
JUNE 20...	158	7.5	22.0	--	--	8.2	98	11	70000	1900	--	.0
JULY 17...	180	7.7	24.5	7	8	8.2	97	20	833000	8500	--	--
AUG. 08...	144	7.4	24.5	10	5	8.1	96	16	--	--	4.5	--
SEP. 05...	185	7.7	18.0	6	20	9.9	98	14	--	--	5.3	--

RADIOCHEMICAL ANALYSIS

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
APR. 25...	1545	1.9	3.2	2.5	100	1.8	1.3	1.1	32	.04	.10

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

CONTINUED NEXT PAGE

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	13.0	5.0	---	---	---	---	9.0	15.5	23.0	23.5	24.0
2	16.5	11.0	4.0	---	---	---	---	9.0	15.5	23.5	24.0	23.0
3	16.5	10.0	4.0	---	---	---	---	9.0	16.0	23.5	24.0	23.0
4	16.5	10.0	4.0	---	---	---	---	10.5	16.0	23.5	24.0	21.0
5	16.5	10.0	4.0	---	---	---	---	11.0	16.5	23.5	24.0	19.5
6	16.5	8.0	4.0	---	---	---	---	11.0	16.5	23.5	24.0	19.0
7	16.0	7.0	4.0	---	---	---	---	10.5	18.0	23.5	24.0	19.0
8	16.0	7.0	4.0	---	---	---	---	10.0	18.0	21.5	24.0	18.5
9	15.5	7.0	3.0	---	---	---	---	10.0	18.0	23.0	24.5	18.5
10	15.5	7.0	3.0	---	---	---	---	10.0	21.0	23.0	25.0	19.5
11	15.5	6.0	1.0	---	---	---	---	10.0	21.0	23.0	25.0	19.5
12	15.5	6.0	0.5	---	---	---	---	10.0	21.0	23.0	25.0	19.5
13	15.5	6.0	0.0	---	---	---	---	10.0	23.0	23.5	25.0	19.5
14	15.5	6.0	0.0	---	---	---	---	10.0	23.5	24.0	25.5	21.5
15	15.5	7.0	0.0	---	---	---	---	10.5	21.5	24.0	25.0	20.5
16	15.0	7.0	0.0	---	---	---	5.5	10.5	21.5	24.0	25.0	20.5
17	15.0	5.0	---	---	---	---	5.5	13.5	21.5	24.0	25.5	20.5
18	14.5	5.0	---	---	---	---	5.5	13.5	22.0	24.0	24.5	20.0
19	14.5	5.5	---	---	---	---	6.0	13.5	22.0	25.0	24.5	20.5
20	14.5	5.0	---	---	---	---	6.0	13.5	22.0	25.0	24.5	20.5
21	14.5	4.5	---	---	---	---	6.0	14.5	23.0	25.0	24.5	20.0
22	14.0	5.0	---	---	---	---	6.5	14.5	23.0	25.0	25.5	19.5
23	14.0	5.0	---	---	---	---	6.5	14.5	23.0	25.0	25.5	16.5
24	14.0	5.0	---	---	---	---	6.5	15.0	23.0	24.5	25.5	16.5
25	14.0	5.5	---	---	---	---	6.5	15.5	23.0	23.0	25.5	15.5
26	13.5	5.0	---	---	---	---	8.0	15.5	23.0	23.5	24.5	15.5
27	13.0	5.0	---	---	---	---	8.0	14.5	21.5	23.5	25.0	15.0
28	13.0	5.5	---	---	---	---	7.0	14.5	22.0	23.5	25.0	15.5
29	13.0	5.5	---	---	---	---	8.0	14.5	23.0	23.5	24.5	16.0
30	13.0	5.5	---	---	---	---	9.0	15.0	23.0	23.5	24.0	15.5
31	13.0	---	---	---	---	---	---	15.0	---	23.5	24.0	---
AVERAGE	15.0	6.5	---	---	---	---	---	12.0	20.5	23.5	24.5	19.0

01359560 HUDSON RIVER AT GLENMONT, N.Y.

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mi (0.3 km) downstream from lower mouth of Normans Kill and 0.9 mi (1.4 km) southeast of Glenmont.

DRAINAGE AREA.--8,476 mi^2 (21,953 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
OCT.										
10...	1330	3.2	450	70	--	20	--	4.6	--	13
23...	0935	2.9	380	90	--	23	--	5.0	--	11
NOV.										
07...	1355	3.1	620	80	--	23	--	5.1	--	11
27...	1000	4.5	640	60	--	26	--	4.7	--	8.2
DEC.										
11...	1130	3.9	1200	120	--	25	--	4.5	--	7.2
JAN.										
02...	1100	4.4	670	30	--	18	--	3.7	--	4.5
15...	1425	4.6	380	50	--	20	--	4.0	--	7.0
28...	1045	4.3	2200	100	--	25	--	4.6	--	11
FEB.										
13...	1610	4.8	310	60	--	19	--	3.6	--	6.0
25...	1115	3.6	1800	160	--	21	--	3.8	--	7.4
MAR.										
11...	1600	4.2	660	40	--	19	--	3.5	--	4.8
25...	1045	4.4	780	60	--	24	--	5.4	--	9.5
APR.										
08...	1215	4.1	1400	70	--	18	--	3.4	--	5.0
22...	1130	4.2	670	80	--	21	--	3.8	--	6.6
MAY										
07...	1130	3.7	440	70	19	--	4.4	--	7.0	--
20...	1025	4.2	530	50	20	--	3.6	--	5.7	--
JUNE										
03...	1115	3.9	1100	120	25	--	5.0	--	9.4	--
17...	1055	2.8	470	150	22	--	4.4	--	8.2	--
JULY										
01...	1030	3.0	360	490	23	--	4.1	--	8.5	--
15...	1030	--	490	130	24	--	4.0	--	6.0	--
29...	1030	--	410	280	22	--	4.6	--	7.8	--
AUG.										
12...	1100	--	290	50	20	--	2.3	--	7.7	--
27...	1000	--	270	140	23	--	4.2	--	8.8	--
SEP.										
10...	1030	--	550	80	25	--	8.4	--	7.5	--
25...	1000	--	340	60	23	--	8.0	--	7.0	--

CONTINUED NEXT PAGE

01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
10...	--	1.4	58	0	48	24	15	--	.4	1.2
23...	--	1.4	66	0	54	28	16	--	.3	.95
NOV.										
07...	--	1.5	70	0	57	24	14	--	.2	1.2
27...	--	1.7	63	0	52	26	11	--	.3	1.1
DEC.										
11...	--	1.7	63	0	52	23	10	--	.3	.88
JAN.										
02...	--	1.1	50	0	41	16	8.1	--	.3	.72
15...	--	.9	55	0	45	19	9.8	--	.0	.69
28...	--	1.4	64	0	52	31	18	--	.2	.90
FEB.										
13...	--	1.0	53	0	43	20	10	--	.2	.70
25...	--	1.2	57	0	47	22	13	--	.2	.72
MAR.										
11...	--	1.2	54	0	44	16	7.9	--	.1	.66
25...	--	1.3	65	0	53	23	16	--	.1	.70
APR.										
08...	--	1.4	50	0	41	16	8.8	--	.1	.75
22...	--	1.3	54	0	44	19	10	--	.0	.58
MAY										
07...	.9	--	57	0	47	17	10	.2	--	.57
20...	1.0	--	52	0	43	16	9.3	.1	--	.42
JUNE										
03...	1.2	--	74	0	61	26	15	.1	--	.51
17...	1.0	--	64	0	53	21	12	.3	--	.53
JULY										
01...	1.2	--	62	0	51	26	12	.2	--	.61
15...	1.4	--	61	0	50	19	9.6	--	--	.48
29...	1.7	--	63	0	52	22	11	--	--	.47
AUG.										
12...	1.5	--	59	--	48	20	13	--	--	.36
27...	.6	--	58	--	48	14	15	--	--	.49
SEP.										
10...	1.0	--	65	--	53	20	11	--	--	.54
25...	1.6	--	74	--	61	15	9.8	--	--	.77

DATE	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)
OCT.										
10...	.00	.00	.28	.28	1.5	.14	--	.04	110	--
23...	.00	.08	.36	.44	1.4	.06	--	.04	120	149
NOV.										
07...	.01	.12	.12	.24	1.4	.10	--	.04	117	158
27...	.00	.13	.09	.22	1.3	.08	--	.04	114	143
DEC.										
11...	.00	.03	.22	.25	1.1	.07	--	.03	107	161
JAN.										
02...	.12	.07	.12	.19	1.0	.16	--	.13	81	124
15...	.19	.13	.50	.63	1.5	.05	--	.02	92	116
28...	.09	.16	.43	.59	1.6	.15	--	.06	127	179
FEB.										
13...	.01	.27	.38	.65	1.4	.04	--	.02	91	108
25...	.07	.42	.39	.81	1.6	.10	--	.04	100	122
MAR.										
11...	.02	.33	.20	.53	1.2	.05	--	.03	83	130
25...	.03	.28	.17	.45	1.2	.06	--	.04	116	151
APR.										
08...	.02	.09	.33	.42	1.2	.07	--	.03	82	137
22...	.01	.28	.19	.47	1.1	.05	--	.02	93	127
MAY										
07...	.02	.17	.33	.50	1.1	.06	.03	--	--	128
20...	.05	.15	.33	.48	.95	.05	.02	--	--	105
JUNE										
03...	.04	.25	.69	.94	1.5	.08	.02	--	--	159
17...	.03	.39	.42	.81	1.4	.08	.04	--	--	141
JULY										
01...	.22	.41	.41	.82	1.7	.07	.03	--	--	151
15...	.05	.47	.43	.90	1.4	.13	.07	--	--	132
29...	.04	.50	.80	1.3	1.8	.07	.02	--	--	141
AUG.										
12...	.02	.45	.29	.74	1.1	.07	.04	--	--	228
27...	.03	.76	.34	1.1	1.6	.10	.04	--	--	138
SEP.										
10...	.08	.43	.37	.80	1.4	.06	.03	--	--	124
25...	.03	.48	.28	.76	1.6	.07	.03	--	--	134

01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	RESIDUE ON IGNITION (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT.										
10...	--	10	2	69	21	207	6.9	--	--	12
23...	141	3	0	78	24	230	6.7	--	--	15
NOV.										
07...	139	12	5	78	21	224	7.1	--	--	13
27...	106	17	14	84	33	207	7.0	--	--	18
DEC.										
11...	122	26	21	81	29	201	7.2	--	--	12
JAN.										
02...	85	19	18	60	19	155	7.3	--	--	15
15...	90	9	7	66	21	173	7.1	--	--	12
28...	163	74	68	81	29	210	7.4	--	--	14
FEB.										
13...	87	9	8	62	19	172	7.1	--	--	13
25...	97	36	30	68	21	190	7.2	--	--	17
MAR.										
11...	104	27	22	62	18	161	7.3	--	--	11
25...	114	17	16	82	29	209	7.6	--	--	11
APR.										
08...	121	31	25	59	18	155	7.3	--	--	11
22...	98	20	6	68	24	171	7.1	--	--	12
MAY										
07...	72	15	11	--	--	176	7.5	--	--	11
20...	75	16	12	--	--	161	7.6	--	--	12
JUNE										
03...	117	16	12	--	--	225	7.3	--	--	12
17...	100	10	8	--	--	197	7.2	--	--	13
JULY										
01...	107	8	6	--	--	205	7.0	--	--	15
15...	90	11	10	--	--	187	6.6	10	7	15
29...	111	18	15	--	--	174	7.1	4	6	15
AUG.										
12...	168	9	8	--	--	--	--	3	3	16
27...	95	12	6	--	--	207	--	20	6	27
SEP.										
10...	99	3	1	--	--	200	--	5	5	15
25...	115	16	5	--	--	199	--	7	6	20

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
10...	--	.0	--	--	--	--	--	--	--	--
23...	--	.0	--	<1	--	--	20	8	3.9	--
NOV.										
07...	--	.0	--	0	--	--	30	7	5.0	--
27...	--	.0	--	--	--	--	--	--	--	--
DEC.										
11...	--	.0	--	--	--	--	--	--	--	--
JAN.										
02...	--	.0	--	--	--	--	--	--	--	--
15...	--	.0	--	--	--	--	--	--	--	--
28...	--	.0	--	--	--	--	--	--	--	--
FEB.										
13...	--	.0	--	--	--	--	--	--	--	--
25...	--	.0	--	--	--	--	--	--	--	--
MAR.										
11...	--	.0	--	--	--	--	--	--	--	--
25...	--	.0	--	--	--	--	--	--	--	--
APR.										
08...	--	.0	--	1	0	20	0	0	<.5	30
22...	--	.0	--	1	--	--	10	3	<.5	--
MAY										
07...	--	.0	--	0	0	<10	10	5	<.5	70
20...	--	.0	--	1	0	10	0	5	<.5	30
JUNE										
03...	--	.0	--	<1	0	10	10	10	<.5	20
17...	--	.0	--	1	0	0	10	12	<.5	50
JULY										
01...	--	.0	--	2	6	10	10	15	<.5	440
15...	4.9	--	2.7	2	0	10	20	10	<.5	90
29...	7.8	--	--	1	1	10	20	10	<.5	30
AUG.										
12...	5.9	--	--	0	0	0	10	2	<.5	200
27...	5.2	--	--	0	3	<10	0	2	<.5	190
SEP.										
10...	5.9	--	--	1	1	10	10	7	.5	40
25...	5.0	--	--	<1	1	10	10	8	<.5	20

01359803 HUDSON RIVER AT COEYMANS, N.Y.

LOCATION.--Lat 42°28'57", long 73°47'20", Albany County, at dock at Powell and Minnock Brick Works, 0.4 mi (0.6 km) upstream from Coeymans Creek, and 0.4 mi (0.6 km) northeast of Coeymans.

DRAINAGE AREA.--8,595 mi^2 (22,261 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 10...	1300	3.0	370	240	--	23	--	5.1	--	14	--	1.5
NOV. 07...	1340	2.4	430	70	--	23	--	5.3	--	12	--	1.5
DEC. 11...	1225	4.0	1100	80	--	23	--	4.4	--	6.5	--	1.5
JAN. 15...	1345	4.5	380	60	--	20	--	4.0	--	7.4	--	.9
FEB. 13...	1530	4.8	360	60	--	20	--	3.8	--	6.2	--	1.0
MAR. 11...	1530	4.1	650	40	--	18	--	3.4	--	5.5	--	1.1
APR. 22...	1430	4.1	--	90	--	21	--	3.7	--	6.0	--	1.2
MAY 21...	1400	4.3	530	50	16	--	3.4	--	5.0	--	.9	--
JUNE 17...	1400	2.5	280	80	22	--	4.4	--	8.5	--	1.3	--
JULY 15...	1445	--	480	90	20	--	3.7	--	6.0	--	1.1	--
AUG. 12...	1415	--	150	70	25	--	5.1	--	7.5	--	1.5	--
SEP. 09...	1400	--	280	60	23	--	4.9	--	7.8	--	1.0	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 10...	67	0	55	25	17	--	.4	1.3	.00	.05	.31	.36
NOV. 07...	73	0	60	25	14	--	.3	1.1	.00	.00	.39	.39
DEC. 11...	60	0	49	23	8.8	--	.4	.89	.00	.05	.31	.36
JAN. 15...	57	0	47	19	9.1	--	.1	.69	.17	.13	.80	.93
FEB. 13...	54	0	44	20	10	--	.2	.74	.01	.26	.37	.63
MAR. 11...	53	0	43	16	6.9	--	.1	.64	.03	.26	.18	.44
APR. 22...	57	0	47	20	8.7	--	.0	.59	.01	.23	.15	.38
MAY 21...	47	0	39	15	7.5	.2	--	.43	.03	.20	.25	.45
JUNE 17...	63	0	52	20	12	.2	--	.43	.03	.29	.51	.80
JULY 15...	58	0	48	18	10	--	--	.39	.04	.45	.31	.76
AUG. 12...	61	--	50	21	14	--	--	.39	.04	.47	.18	.65
SEP. 09...	65	--	53	21	12	--	--	.38	.04	.38	.21	.59

01359803 HUDSON RIVER AT COEYMANS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
10...	1.7	.13	--	.03	122	157	105	10	2	78	23
NOV.											
07...	1.5	.05	--	.04	120	174	149	13	6	79	19
DEC.											
11...	1.2	.07	--	.03	101	152	108	4	4	76	26
JAN.											
15...	1.8	.04	--	.02	93	118	90	2	1	66	20
FEB.											
13...	1.4	.04	--	.02	93	112	81	10	9	66	21
MAR.											
11...	1.1	.04	--	.02	81	110	91	25	21	59	15
APR.											
22...	.98	.04	--	.02	93	118	102	9	8	68	21
MAY											
21...	.91	.04	.01	--	--	90	66	20	17	--	--
JUNE											
17...	1.3	.08	.06	--	--	136	104	7	6	--	--
JULY											
15...	1.2	.08	.05	--	--	126	91	11	8	--	--
AUG.											
12...	1.1	.06	.03	--	--	139	96	18	15	--	--
SEP.											
09...	1.0	.07	.04	--	--	153	116	7	3	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	228	7.1	--	--	13	--	.0	--	--	--	--
NOV.											
07...	231	7.1	--	--	11	--	.0	0	20	7	4.5
DEC.											
11...	186	7.2	--	--	15	--	.0	--	--	--	--
JAN.											
15...	174	7.2	--	--	10	--	.0	--	--	--	--
FEB.											
13...	176	7.2	--	--	12	--	.0	--	--	--	--
MAR.											
11...	152	7.0	--	--	11	--	.0	--	--	--	--
APR.											
22...	168	7.4	--	--	10	--	.0	<1	--	--	--
MAY											
21...	146	7.5	--	--	11	--	.0	1	10	6	<.5
JUNE											
17...	199	7.2	--	--	11	--	.0	--	--	--	--
JULY											
15...	175	6.8	20	8	14	4.2	--	--	--	--	--
AUG.											
12...	199	--	4	3	14	4.7	--	2	0	3	<.5
SEP.											
09...	167	--	5	5	15	6.0	--	--	--	--	--

01361450 HUDSON RIVER AT CATSKILL, N.Y.

LOCATION.--Lat 42°12'36", long 73°51'12", Greene County, at right bank at Greene County Highway Department dock, 600 ft (183 m) upstream from Catskill Creek, and 0.9 mi (1.4 km) downstream from Rip Van Winkle Bridge.

DRAINAGE AREA.--9,336 mi^2 (24,180 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 10...	1220	.1	230	20	--	21	--	4.9	--	14	--	1.4
NOV. 07...	1230	2.3	460	60	--	21	--	4.8	--	12	--	1.5
DEC. 11...	1315	3.9	740	60	--	20	--	4.0	--	6.5	--	1.5
FEB. 13...	1430	4.8	390	50	--	21	--	4.0	--	6.0	--	1.0
MAR. 11...	1430	3.8	600	30	--	17	--	3.1	--	4.5	--	1.0
APR. 22...	1330	4.1	--	180	--	18	--	3.1	--	5.0	--	1.0
MAY 21...	1300	3.9	480	50	16	--	3.0	--	4.3	--	.8	--
JUNE 17...	1245	.1	180	30	20	--	4.2	--	7.0	--	.8	--
JULY 15...	1345	--	1300	80	24	--	4.5	--	5.1	--	1.6	--
AUG. 12...	1335	--	200	40	24	--	4.9	--	8.1	--	1.5	--
SEP. 09...	1310	--	290	50	26	--	5.4	--	10	--	1.1	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 10...	64	0	52	23	16	--	.4	.95	.00	.02	.27	.29
NOV. 07...	63	0	52	24	15	--	.3	1.1	.00	.00	.47	.47
DEC. 11...	49	0	40	21	9.3	--	.3	.79	.00	.00	.21	.21
FEB. 13...	57	0	47	20	10	--	.2	.76	.01	.24	.40	.64
MAR. 11...	48	0	39	16	7.0	--	.0	.56	.05	.22	.17	.39
APR. 22...	45	0	37	17	7.7	--	.1	.55	.01	.24	.11	.35
MAY 21...	47	0	39	14	6.7	.1	--	.42	.03	.13	.25	.38
JUNE 17...	58	0	48	18	11	.2	--	.46	.02	.11	.45	.56
JULY 15...	77	0	63	21	7.7	--	--	3.3	.11	.13	.42	.55
AUG. 12...	72	--	59	23	13	--	--	.52	.04	.20	.00	.12
SEP. 09...	81	--	66	23	20	--	--	.64	.08	.25	.61	.86

01361450 HUDSON RIVER AT CATSKILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 10...	1.2	.03	--	.02	112	146	110	10	1	73	20
NOV. 07...	1.6	.05	--	.04	112	193	148	27	20	72	21
DEC. 11...	1.0	.05	--	.03	91	136	101	18	15	66	26
FEB. 13...	1.4	.04	--	.02	95	112	87	12	11	69	22
MAR. 11...	1.0	.03	--	.02	76	105	92	28	24	55	16
APR. 22...	.91	.04	--	.02	78	107	98	9	7	58	21
MAY 21...	.83	.05	.02	--	--	114	90	16	15	--	--
JUNE 17...	1.0	.06	.02	--	--	124	85	5	5	--	--
JULY 15...	4.0	.12	.06	--	--	150	119	36	32	--	--
AUG. 12...	.68	.05	.02	--	--	158	122	10	7	--	--
SEP. 09...	1.6	.05	.01	--	--	166	128	10	7	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 10...	215	7.2	--	--	13	--	.0	--	--	--	--
NOV. 07...	218	7.1	--	--	13	--	.0	0	10	7	2.8
DEC. 11...	167	7.2	--	--	11	--	.0	--	--	--	--
FEB. 13...	180	7.2	--	--	12	--	.0	--	--	--	--
MAR. 11...	144	7.3	--	--	10	--	.1	--	--	--	--
APR. 22...	142	7.2	--	--	9	--	.0	1	--	--	--
MAY 21...	177	7.6	--	--	10	--	.0	1	10	4	<.5
JUNE 17...	187	7.5	--	--	16	--	.0	--	--	--	--
JULY 15...	196	7.4	20	30	13	6.2	--	--	--	--	--
AUG. 12...	209	--	2	7	13	5.6	--	1	10	8	<.5
SEP. 09...	197	--	5	5	17	9.9	--	--	--	--	--

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, temperature recorder at gaging station at Shandaken, 0.5 mi (0.8 km) downstream from Bushnellsville Creek, and 1.3 mi (2.1 km) upstream from Shandaken Tunnel Outlet.

DRAINAGE AREA.--59.5 mi^2 (154 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1963 to September 1974.
Water temperatures: July 1963 to July 1968, January 1970 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C Aug. 14; minimum, freezing point on many days during January and February.

Period of record:
Water temperatures: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter period.

REMARKS.--Water temperature record unreliable Aug. 26 to Sept. 25 and Sept. 27-30. Clock stopped Feb. 4-14, range 0.5°C to 1.0°C and July 9-11, range 17.0°C to 19.0°C.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.									
18...	1015	9.5	2.3	30	10	7.0	1.7	2.8	68
NOV.									
13...	1040	31	2.0	--	--	4.7	1.3	1.8	51
DEC.									
12...	1350	305	2.5	1900	80	4.2	1.3	1.0	44
JAN.									
16...	1115	5.5	2.8	200	10	4.6	1.2	1.9	49
FEB.									
13...	1130	92	2.2	80	10	4.3	1.2	1.5	46
MAR.									
26...	1120	195	2.3	60	10	4.3	1.2	1.5	60
APR.									
19...	1430	310	2.1	--	--	5.0	1.0	1.3	41
MAY									
15...	1500	424	2.5	90	0	4.1	1.0	1.5	46
JUNE									
19...	0800	62	2.8	--	--	5.6	1.2	2.5	53
JULY									
23...	0930	30	3.1	--	--	6.0	1.4	2.5	61
AUG.									
15...	1535	17	2.8	--	--	6.1	1.5	2.9	63
SEP.									
26...	1400	55	2.8	--	--	5.5	1.3	2.2	61

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)
OCT.									
18...	.01	.00	.00	60	35	24	7	7.4	8.0
NOV.									
13...	.41	.00	.00	45	25	17	9	7.0	5.0
DEC.									
12...	.52	.00	.01	31	22	16	10	6.7	4.0
JAN.									
16...	.33	.01	.01	30	25	16	10	6.8	1.0
FEB.									
13...	.27	.00	.01	31	23	16	10	6.7	.0
MAR.									
26...	.26	.01	.01	27	24	16	10	7.2	4.5
APR.									
19...	--	--	.05	31	23	17	11	6.8	9.0
MAY									
15...	--	--	.01	25	22	14	9	7.0	15.0
JUNE									
19...	--	--	.01	43	31	19	9	7.2	12.5
JULY									
23...	--	--	.01	40	32	21	8	7.6	17.0
AUG.									
15...	--	--	.02	38	35	21	7	8.7	24.0
SEP.									
26...	--	--	.01	32	28	19	8	7.6	12.0

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.						
18...	9.8	82	136	B4	--	.0
NOV.						
13...	12.1	95	58	B4	6	--
DEC.						
12...	11.8	89	170	11	19	--
JAN.						
16...	12.6	90	B24	5	14	--
FEB.						
13...	14.5	88	25	<1	2	--
MAR.						
26...	13.4	88	B4	<1	B3	--
APR.						
19...	--	--	B5	<1	<1	--
MAY						
15...	11.3	113	180	B3	14	--
JUNE						
19...	10.9	103	330	70	B3	--
JULY						
23...	10.7	110	1600	20	B1	--
AUG.						
15...	9.2	110	1700	B12	35	--
SEP.						
26...	12.2	107	480	B4	25	--

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
OCT.										
18...	1015	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT.									
18...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
OCT.												
18...	1015	.0	0	.0	.6	1.3	.0	.0	.0	.0	.0	0

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

CONTINUED NEXT PAGE

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

RADIOCHEMICAL ANALYSIS

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT. 18...	1015	<.5	1.1	.9	36	<.4	<.4	<.4	<1	.02	.05

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JAN. 16...	1115	5.5	6	.09
MAR. 26...	1120	195	17	12
APR. 19...	1430	310	4	3.3
MAY 15...	1500	424	4	4.6
JUNE 19...	0800	62	1	.17
JULY 23...	0930	30	1	.08
AUG. 15...	1535	17	4	.18
SEP. 26...	1400	55	4	.59

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	8.0	6.0	4.5	2.0	2.5	2.5	3.5	2.0	4.5	3.5
2	13.0	12.0	8.5	5.5	3.0	1.5	2.5	1.5	2.0	1.0	5.0	4.5
3	17.0	13.0	7.5	5.0	3.5	1.5	1.5	1.5	1.0	1.0	5.0	5.0
4	16.0	14.0	5.0	5.0	6.0	3.0	1.5	1.5	---	---	5.5	5.0
5	15.5	13.5	5.0	4.5	7.5	5.5	1.5	1.0	---	---	6.5	5.5
6	14.0	11.5	4.5	4.0	7.5	4.5	1.0	1.0	---	---	6.5	6.0
7	13.0	10.5	4.5	4.0	4.5	4.0	1.0	1.0	---	---	6.0	6.0
8	13.0	10.5	5.0	4.0	4.0	3.5	1.0	0.5	---	---	6.0	6.0
9	13.0	11.0	4.5	3.0	4.0	2.0	0.5	0.0	---	---	6.0	5.0
10	15.0	12.0	3.0	2.0	4.5	4.0	0.0	0.0	---	---	5.0	5.0
11	14.0	12.0	3.0	2.0	4.0	3.5	0.0	0.0	---	---	5.0	4.5
12	14.0	11.0	4.0	2.5	3.5	2.5	0.0	0.0	---	---	4.5	4.5
13	14.0	11.0	5.5	4.0	3.5	2.0	0.0	0.0	---	---	5.5	4.5
14	14.0	12.0	8.0	5.5	4.0	3.0	0.0	0.0	---	---	4.5	4.5
15	13.5	11.0	8.5	5.5	3.0	2.0	0.0	0.0	0.5	0.0	4.5	4.5
16	12.5	9.5	8.5	4.0	2.0	1.5	1.0	0.0	0.0	0.0	5.0	4.5
17	9.5	8.5	4.0	3.0	1.5	0.5	1.0	1.0	0.0	0.0	5.0	5.0
18	8.5	8.0	5.0	3.0	0.5	0.5	1.0	0.0	0.0	0.0	5.0	4.5
19	9.0	7.0	5.0	3.5	0.5	0.5	0.0	0.0	0.5	0.0	5.0	4.5
20	9.5	8.5	3.5	2.0	2.0	0.5	0.0	0.0	0.5	0.5	5.5	5.0
21	10.5	7.5	4.0	2.0	2.0	1.5	0.0	0.0	1.5	0.5	5.5	5.0
22	10.0	6.5	6.5	4.0	1.5	1.5	0.5	0.0	1.5	1.5	5.0	4.5
23	10.5	6.5	5.5	3.5	2.5	1.5	1.5	0.5	2.5	1.5	6.0	5.0
24	11.0	7.0	5.5	4.5	2.5	1.5	1.5	1.5	2.5	2.0	6.0	5.5
25	10.5	7.5	7.0	5.5	1.5	1.0	1.5	1.5	2.5	2.0	5.5	4.5
26	11.5	7.5	6.0	4.5	3.5	1.5	1.5	1.5	3.0	2.5	5.5	4.5
27	9.5	6.5	6.0	4.5	4.0	3.5	3.5	1.5	3.0	3.0	6.0	4.5
28	6.5	5.5	8.0	6.0	4.0	3.5	3.5	3.0	3.5	3.0	6.0	4.5
29	7.5	5.5	7.0	4.0	4.0	3.0	3.0	3.0	---	---	5.5	4.0
30	8.5	7.5	5.5	3.5	4.0	2.5	3.0	3.0	---	---	4.0	4.0
31	9.0	7.0	---	---	3.0	---	3.0	3.0	---	---	5.0	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.0	12.0	10.5	13.5	13.0	16.5	13.5	22.0	17.5	---	---
2	7.0	6.5	12.0	8.5	13.5	12.5	17.0	13.5	20.0	17.5	---	---
3	9.0	6.0	10.0	8.5	13.5	11.5	17.0	15.0	22.0	18.0	---	---
4	9.5	8.0	10.0	8.5	14.0	12.0	17.0	14.5	20.5	18.0	---	---
5	9.0	7.5	10.0	7.5	19.0	14.0	17.0	16.0	20.5	18.0	---	---
6	7.5	6.5	9.5	8.0	19.5	13.5	17.0	15.0	20.0	18.0	---	---
7	8.0	5.5	8.0	7.5	17.5	13.0	17.5	15.5	21.5	18.0	---	---
8	8.0	7.0	9.5	7.0	19.0	14.0	17.5	16.0	24.0	18.0	---	---
9	7.0	4.5	9.5	8.5	20.5	14.5	---	---	19.5	18.0	---	---
10	6.0	5.0	9.0	9.0	21.0	14.5	---	---	24.5	18.0	---	---
11	8.0	5.5	11.0	8.0	20.0	16.5	---	---	23.5	18.0	---	---
12	8.5	7.0	11.0	10.0	17.0	13.0	20.0	16.0	24.5	18.5	---	---
13	9.5	7.5	10.0	8.5	16.5	11.5	21.5	16.0	23.0	18.5	---	---
14	11.0	8.5	11.5	8.0	15.5	12.0	22.5	16.0	25.5	18.5	---	---
15	10.5	8.5	13.5	10.0	17.0	12.5	22.5	17.5	25.0	18.0	---	---
16	9.5	7.5	13.0	10.5	16.5	14.0	20.5	17.0	25.0	18.0	---	---
17	10.5	7.5	13.5	11.5	17.0	13.0	20.5	16.5	19.5	18.5	---	---
18	10.5	8.0	13.5	11.5	17.0	12.5	20.5	17.0	21.0	18.5	---	---
19	10.0	8.5	13.5	11.0	16.0	12.5	21.5	17.5	22.0	19.0	---	---
20	10.5	7.5	13.5	10.5	17.5	14.0	20.5	16.5	24.5	19.0	---	---
21	10.5	7.0	12.0	10.0	17.0	14.0	20.0	17.0	24.5	19.0	---	---
22	10.5	9.5	14.0	11.0	17.5	13.5	22.0	17.0	22.0	19.0	---	---
23	9.5	9.0	14.0	13.0	17.0	14.0	18.5	17.0	19.5	19.0	---	---
24	9.5	7.5	13.0	11.5	16.0	12.5	17.5	17.0	20.5	19.0	---	---
25	8.5	6.5	12.0	11.0	16.0	13.5	18.5	17.0	20.5	18.5	---	---
26	9.0	7.5	11.0	10.5	12.5	12.0	19.0	17.0	---	---	12.0	9.0
27	10.0	7.5	10.5	10.0	14.0	12.0	21.5	17.0	---	---	---	---
28	11.5	8.5	11.0	10.0	14.5	12.5	23.0	17.5	---	---	---	---
29	13.5	10.5	11.0	10.5	15.0	12.5	23.0	18.0	---	---	---	---
30	13.5	11.5	13.5	10.5	15.5	13.0	22.0	18.0	---	---	---	---
31	---	---	13.5	12.5	---	---	21.5	17.5	---	---	---	---

01364501 ESOPUS CREEK AT SAUGERTIES, N.Y.

LOCATION.--Lat 42°04'16", long 73°57'02", Ulster County, at bridge on U.S. Highway 9W in Saugerties, 300 ft (91 m) upstream from dam, 1.3 mi (2.1 km) upstream from mouth, and 3.2 mi (5.1 km) downstream from gaging station (01364500) at Mount Marion.

DRAINAGE AREA.--425 mi^2 (1,101 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
10...	--	E36	.4	400	190	--	28	--	4.9	--	23	--
NOV.												
07...	1145	E78	4.1	350	100	--	21	--	4.1	--	19	--
DEC.												
11...	1430	E1200	4.0	480	60	--	9.9	--	2.1	--	5.0	--
MAR.												
11...	1315	E814	2.0	180	20	--	9.0	--	1.7	--	4.7	--
APR.												
22...	1245	E1010	2.0	--	100	--	8.6	--	1.6	--	4.5	--
MAY												
21...	1210	E312	2.5	460	100	10	--	1.8	--	5.0	--	.7
JUNE												
17...	1200	E674	3.0	470	150	21	--	3.6	--	13	--	1.0
JULY												
15...	1250	E103	--	210	60	15	--	2.8	--	9.5	--	.9
AUG.												
12...	1300	E37	--	500	180	26	--	4.3	--	20	--	1.6
SEP.												
09...	1200	E180	--	280	80	18	--	3.0	--	10	--	1.2

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.												
10...	2.2	78	0	64	26	36	--	.3	1.1	.00	.00	.21
NOV.												
07...	2.3	55	0	45	25	23	--	.2	.89	.00	.00	.28
DEC.												
11...	1.2	21	0	17	15	6.4	--	.3	.42	.00	.00	.13
MAR.												
11...	.8	20	0	16	12	7.3	--	.1	.40	.01	.14	.10
APR.												
22...	.7	20	0	16	12	6.8	--	.1	.36	.01	.10	.06
MAY												
21...	--	25	0	21	12	8.4	.1	--	.37	.01	.09	.13
JUNE												
17...	--	52	0	43	19	22	.2	--	.51	.02	.10	.39
JULY												
15...	--	41	0	34	16	15	--	--	.07	.01	.18	.27
AUG.												
12...	--	67	--	55	26	34	--	--	.22	.02	.24	.09
SEP.												
09...	--	48	--	39	19	16	--	--	.42	.00	.21	.20

E Estimated value.

01364501 ESOPUS CREEK AT SAUGERTIES, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.												
10...	.21	1.3	.06	--	.01	159	194	139	10	2	90	26
NOV.												
07...	.28	1.2	.02	--	.01	126	155	139	17	9	69	24
DEC.												
11...	.13	.55	.02	--	.01	54	81	63	8	6	33	16
MAR.												
11...	.24	.65	.02	--	.00	47	60	52	18	13	29	13
APR.												
22...	.16	.53	.02	--	.01	46	62	48	8	5	28	12
MAY												
21...	.22	.60	.03	.01	--	--	70	53	12	6	--	--
JUNE												
17...	.49	1.0	.05	.01	--	--	137	102	10	4	--	--
JULY												
15...	.45	.53	.04	.01	--	--	104	75	6	6	--	--
AUG.												
12...	.33	.57	.03	.01	--	--	186	146	11	8	--	--
SEP.												
09...	.41	.83	.04	.01	--	--	120	101	4	0	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	307	7.4	--	--	9	--	.0	--	--	--	--
NOV.											
07...	229	7.2	--	--	9	--	.0	0	10	5	6.2
DEC.											
11...	98	6.9	--	--	13	--	.0	--	--	--	--
MAR.											
11...	95	7.0	--	--	6	--	.0	--	--	--	--
APR.											
22...	87	7.1	--	--	4	--	.0	1	--	--	--
MAY											
21...	106	7.6	--	--	6	--	.0	1	10	6	<.5
JUNE											
17...	206	7.2	--	--	8	--	.0	--	--	--	--
JULY											
15...	159	8.4	3	3	9	2.2	--	--	--	--	--
AUG.											
12...	273	--	3	4	13	5.1	--	<1	10	11	<.5
SEP.											
09...	143	--	4	5	22	6.9	--	--	--	--	--

01364950 HUDSON RIVER AT KINGSTON POINT, N.Y.

LOCATION.--Lat 41°55'40", long 73°57'44", Ulster County, at pier at Kingston Point in Kingston and 0.6 mi (1.0 km) upstream from Rondout Creek.

DRAINAGE AREA.--10,515 mi^2 (27,234 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1974.
Water temperatures: July 1959 to March 1966.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
10...	1045	.4	430	410	--	23	--	5.4	--	14	--	1.8
NOV.												
07...	1055	.5	790	60	--	23	--	5.4	--	12	--	1.8
DEC.												
11...	1520	4.0	760	60	--	21	--	4.5	--	6.5	--	1.9
JAN.												
15...	1120	4.7	450	40	--	21	--	4.7	--	7.5	--	1.6
FEB.												
13...	1200	4.8	630	50	--	23	--	4.6	--	6.0	--	1.4
MAR.												
11...	1215	3.7	1200	40	--	22	--	4.0	--	5.4	--	1.8
APR.												
22...	1145	4.0	--	40	--	18	--	3.6	--	5.0	--	1.2
MAY												
21...	1130	4.0	530	50	20	--	3.3	--	4.5	--	1.0	--
JUNE												
17...	1115	.1	530	60	20	--	4.2	--	6.3	--	1.5	--
JULY												
15...	1105	--	1000	60	27	--	4.9	--	6.6	--	1.8	--
AUG.												
12...	1200	--	250	50	24	--	3.0	--	7.3	--	2.0	--
SEP.												
09...	1100	--	450	90	22	--	4.6	--	8.5	--	1.5	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
10...	70	0	57	24	17	--	.4	1.1	.00	.02	.73	.75
NOV.												
07...	70	0	57	25	16	--	.3	1.1	.00	.00	.45	.45
DEC.												
11...	50	0	41	24	9.4	--	.3	.82	.00	.11	.15	.26
JAN.												
15...	58	0	48	23	9.8	--	.1	.85	.15	.02	.47	.49
FEB.												
13...	62	0	51	23	11	--	.1	.85	.01	.21	.31	.52
MAR.												
11...	61	0	50	18	8.7	--	.1	.70	.08	.31	.27	.58
APR.												
22...	50	0	41	17	7.6	--	.1	.52	.03	.20	.10	.30
MAY												
21...	49	0	40	15	7.1	.1	--	.45	.03	.11	.33	.44
JUNE												
17...	59	0	48	17	9.2	.2	--	.40	.01	.10	.36	.46
JULY												
15...	83	0	68	25	9.7	--	--	.75	.10	.24	.22	.46
AUG.												
12...	72	--	59	22	11	--	--	.46	.01	.21	.10	.31
SEP.												
09...	69	--	57	22	14	--	--	.64	.04	.23	.21	.44

01364950 HUDSON RIVER AT KINGSTON POINT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
10...	1.8	.10	--	.03	121	164	116	14	6	80	22
NOV.											
07...	1.5	.05	--	.02	119	170	150	27	20	80	22
DEC.											
11...	1.1	.07	--	.04	96	142	103	21	19	71	30
JAN.											
15...	1.5	.05	--	.03	101	131	96	4	0	72	24
FEB.											
13...	1.4	.06	--	.03	105	93	58	32	29	76	26
MAR.											
11...	1.4	.05	--	.02	94	142	120	39	32	71	21
APR.											
22...	.85	.06	--	.03	81	122	112	22	20	60	19
MAY											
21...	.92	.06	.02	--	--	117	88	31	27	--	--
JUNE											
17...	.87	.07	.03	--	--	135	93	17	15	--	--
JULY											
15...	1.3	.10	.08	--	--	177	133	27	24	--	--
AUG.											
12...	.78	.05	.03	--	--	175	125	15	12	--	--
SEP.											
09...	1.1	.06	.03	--	--	148	120	22	20	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	233	7.2	--	--	12	--	.0	--	--	--	--
NOV.											
07...	232	7.3	--	--	18	--	.0	<1	20	11	3.3
DEC.											
11...	178	7.4	--	--	14	--	.0	--	--	--	--
JAN.											
15...	187	7.3	--	--	10	--	.0	--	--	--	--
FEB.											
13...	195	7.4	--	--	10	--	.0	--	--	--	--
MAR.											
11...	180	7.3	--	--	14	--	.0	--	--	--	--
APR.											
22...	150	7.4	--	--	11	--	.0	1	--	--	--
MAY											
21...	145	7.3	--	--	12	--	.0	2	10	3	<.5
JUNE											
17...	179	7.6	--	--	10	--	.0	--	--	--	--
JULY											
15...	214	7.6	30	30	14	4.2	--	--	--	--	--
AUG.											
12...	208	--	2	6	16	3.9	--	2	10	0	<.5
SEP.											
09...	168	--	7	8	28	6.7	--	--	--	--	--

01368000 WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWEN, N.J.)

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, at gaging station at bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey state line, and 3.0 mi (4.8 km) south of Unionville.

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
DEC. 04...	0800	102	--	--	--	--	--	--	--	--	--	--
FEB. 12...	1115	184	--	--	--	--	--	--	--	--	--	--
APR. 18...	0730	452	--	--	--	--	--	--	--	--	--	--
MAY 21...	1145	167	--	--	--	--	--	--	--	--	--	--
JULY 10...	1430	44	--	--	--	--	--	--	--	--	--	--
AUG. 21...	1830	41	5.6	900	150	41	14	13	2.4	147	121	32
SEP. 18...	1500	102	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)
DEC. 04...	--	--	.71	.01	.73	.11	.20	.31	1.0	.04	.03	.03
FEB. 12...	--	--	1.3	.00	1.3	.14	.26	.40	1.7	.03	.02	.02
APR. 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	--	--	.61	.03	.64	.15	.39	.54	1.2	.08	.03	.24
JULY 10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG. 21...	26	.2	--	--	--	--	--	--	--	--	--	--
SEP. 18...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 04...	--	309	7.6	3.0	--	--	12.4	0	88	6	--
FEB. 12...	--	301	7.4	.0	--	--	13.6	138	20	6	1.0
APR. 18...	--	254	7.6	11.5	--	--	8.4	1370	1240	100	--
MAY 21...	--	258	8.8	17.0	--	--	7.0	0	2080	16	6.7
JULY 10...	--	381	8.9	27.5	--	--	8.6	350	130	190	--
AUG. 21...	266	372	8.1	--	5	30	9.6	--	196	430	7.5
SEP. 18...	--	326	7.6	18.5	--	--	8.4	13000	648	40	--

01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.

LOCATION.--Lat 41°48'53", long 74°03'33", Ulster County, at bridge on State Highway 32 and 213, 0.2 mi (0.3 km) upstream from Interstate Highway 87, 1.0 mi (1.6 km) south of Tillson, and 1.7 mi (2.7 km) southeast of Rosendale.

DRAINAGE AREA.--764 mi^2 (1,979 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)
OCT.											
23...	1400	1.1	590	90	--	42	--	12	--	15	--
NOV.											
13...	1400	7.2	--	--	--	35	--	10	--	12	--
FEB.											
20...	1620	3.5	1000	60	--	21	--	5.5	--	7.7	--
MAR.											
18...	1530	4.0	1400	60	--	22	--	5.5	--	8.0	--
APR.											
16...	1000	2.9	2000	90	--	18	--	5.5	--	6.5	--
MAY											
16...	1430	3.8	670	60	19	--	4.2	--	6.4	--	1.4
JUNE											
11...	1300	2.0	390	90	31	--	8.8	--	9.4	--	1.3
JULY											
10...	1400	--	520	90	36	--	9.2	--	11	--	1.6
AUG.											
06...	1050	--	160	60	15	--	2.9	--	6.0	--	.8
SEP.											
04...	1300	--	930	90	20	--	8.3	--	10	--	1.9
25...	1530	--	330	70	26	--	8.4	--	9.1	--	1.7

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
OCT.											
23...	3.0	151	0	124	41	23	--	.3	.77	.00	.01
NOV.											
13...	3.0	107	0	88	42	17	--	.3	1.2	.01	.00
FEB.											
20...	1.8	60	0	49	23	15	--	.1	.81	.02	.25
MAR.											
18...	2.0	50	0	41	29	16	--	.2	1.0	.09	.25
APR.											
16...	1.5	57	0	47	22	12	--	.1	.70	.04	.01
MAY											
16...	--	52	0	43	18	9.7	.2	--	.40	.04	.14
JUNE											
11...	--	108	0	89	26	16	.2	--	.03	.12	.38
JULY											
10...	--	119	0	98	31	18	--	--	.03	.26	.21
AUG.											
06...	--	41	--	34	16	7.4	--	--	.09	.01	.18
SEP.											
04...	--	88	--	72	26	19	--	--	.60	.03	.35
25...	--	84	--	69	21	15	--	--	.39	.03	.30

CONTINUED NEXT PAGE

01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 23...	.39	.40	1.2	.20	--	.16	212	225	195	8
NOV. 13...	.62	.62	1.8	.15	--	.14	180	--	--	14
FEB. 20...	.40	.65	1.5	.11	--	.07	107	159	118	30
MAR. 18...	.28	.53	1.6	.15	--	.10	112	183	144	49
APR. 16...	.67	.68	1.4	.18	--	.10	97	199	151	73
MAY 16...	.28	.42	.86	.09	.05	--	--	127	90	22
JUNE 11...	.28	.66	.81	.16	.11	--	--	209	148	11
JULY 10...	.31	.52	.81	.18	.12	--	--	222	162	16
AUG. 06...	.13	.31	.41	.05	.02	--	--	88	72	5
SEP. 04...	.20	.55	1.2	.19	.12	--	--	199	151	34
25...	.23	.53	.95	.12	.09	--	--	168	139	8

DATE	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT. 23...	3	150	30	397	7.7	--	--	10	.0	--
NOV. 13...	10	130	41	331	7.7	--	--	18	.0	2
FEB. 20...	26	75	26	194	7.2	--	--	13	.0	--
MAR. 18...	44	78	37	207	7.4	--	--	23	.0	--
APR. 16...	57	68	21	186	7.2	--	--	32	.0	--
MAY 16...	15	--	--	167	7.3	--	--	16	.0	--
JUNE 11...	8	--	--	272	8.7	--	--	19	.0	--
JULY 10...	13	--	--	273	8.4	20	6	20	--	--
AUG. 06...	4	--	--	130	--	4	2	13	--	--
SEP. 04...	28	--	--	266	--	20	20	20	--	--
25...	6	--	--	252	--	20	5	17	--	--

01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.

LOCATION.--Lat 41°53'39", long 74°01'13", Ulster County, at upstream side of dam 200 ft (61 m) upstream from bridge on State Highway 213 in Eddyville and 1.2 mi (1.9 km) upstream from Twaalfskill Brook.

DRAINAGE AREA.-- 1,186 mi^2 (3,072 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May 1971 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)
OCT.											
23...	1500	2.6	600	80	--	30	--	8.3	--	11	--
NOV.											
13...	1325	5.3	--	--	--	28	--	8.0	--	10	--
00...	1530	3.4	1000	50	--	18	--	4.6	--	6.9	--
FEB.											
20...	1600	4.4	400	40	--	25	--	6.2	--	8.0	--
MAR.											
18...	1530	3.4	1000	50	--	18	--	4.6	--	6.9	--
APR.											
17...	1000	2.8	1500	70	--	18	--	4.4	--	5.9	--
MAY											
16...	1455	4.7	830	50	33	--	6.0	--	8.0	--	1.8
JUNE											
12...	1200	3.3	2400	170	33	--	7.9	--	9.2	--	2.0
JULY											
10...	1300	--	160	50	32	--	7.4	--	9.8	--	1.5
AUG.											
06...	1030	--	150	90	28	--	7.3	--	9.5	--	1.5
SEP.											
04...	1300	--	620	80	20	--	5.0	--	6.0	--	1.4
25...	1500	--	450	80	34	--	10	--	11	--	1.7

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
OCT.											
23...	2.2	106	0	87	26	16	--	.3	.65	.00	.01
NOV.											
13...	3.2	81	0	66	34	16	--	.2	1.3	.01	.00
00...	2.0	46	0	38	21	11	--	.0	.57	.04	.22
FEB.											
20...	1.3	72	0	59	24	15	--	.0	.95	.01	.19
MAR.											
18...	2.0	46	0	38	21	11	--	.0	.57	.04	.22
APR.											
17...	2.0	48	0	39	21	11	--	.1	.55	.04	.00
MAY											
16...	--	64	0	53	19	13	.3	--	.43	.05	.13
JUNE											
12...	--	88	0	72	23	14	.2	--	.67	.00	.00
JULY											
10...	--	97	0	80	26	16	--	--	.42	.09	.20
AUG.											
06...	--	87	--	71	32	17	--	--	.16	.03	.25
SEP.											
04...	--	57	--	47	19	10	--	--	.31	.02	.30
25...	--	113	--	93	22	19	--	--	.39	.00	.41

CONTINUED NEXT PAGE

01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.										
23...	.26	.27	.93	.11	--	.08	149	181	153	4
NOV.										
13...	.54	.54	1.8	.11	--	.08	145	--	--	59
00...	.00	.22	.83	.08	--	.05	90	133	106	27
FEB.										
20...	.27	.46	1.4	.06	--	.05	120	166	124	11
MAR.										
18...	.00	.22	.83	.08	--	.05	90	133	106	27
APR.										
17...	.60	.60	1.2	.16	--	.10	89	167	124	45
MAY										
16...	.34	.47	.95	.12	.07	--	--	142	98	26
JUNE										
12...	.39	.39	1.1	.10	.06	--	--	195	139	27
JULY										
10...	.24	.44	.95	.12	.09	--	--	180	128	4
AUG.										
06...	.40	.65	.84	.11	.06	--	--	178	128	11
SEP.										
04...	.08	.38	.71	.11	.07	--	--	126	98	14
25...	.47	.88	1.3	.18	.10	--	--	318	181	17

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT.										
23...	0	110	22	284	7.4	--	--	11	.0	--
NOV.										
13...	49	100	36	268	7.5	--	--	16	.0	2
00...	27	64	26	167	7.4	--	--	12	.0	--
FEB.										
20...	9	88	29	221	7.5	--	--	7	.0	--
MAR.										
18...	27	64	26	167	7.4	--	--	12	.0	--
APR.										
17...	34	63	24	161	7.3	--	--	26	.0	--
MAY										
16...	18	--	--	197	7.6	--	--	21	.0	--
JUNE										
12...	25	--	--	252	7.5	--	--	24	.0	--
JULY										
10...	2	--	--	270	7.7	20	3	17	--	--
AUG.										
06...	8	--	--	261	--	5	4	17	--	--
SEP.										
04...	10	--	--	182	--	20	20	18	--	--
25...	12	--	--	320	--	10	8	16	--	--

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 41°43'18", long 73°56'28", Dutchess County, at city pumping station on east bank, adjacent (north) to Marist College 0.5 mi (0.8 km) north of Poughkeepsie and 1.3 mi (2.1 km) upstream from Mid-Hudson Bridge.

DRAINAGE AREA.--11,700 mi^2 (30,300 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.
Water temperatures: June 1959 to September 1966, October 1972 to September 1974.

EXTREMES.--1973-74:
Water temperatures; Maximum, 25.0°C on several days during August; minimum, 0.5°C on many days during January and February.

Period of record:
Water temperatures: Maximum, 26.5 °C Aug. 29, 1959; minimum, 0.5°C on many days during winter periods.

REMARKS.--No water temperature record on Sundays or holidays.

COOPERATION.--Water temperature record furnished by City of Poughkeepsie, Water Department.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	1040	.4	2700	190	--	23	--	5.4	--	12	--	1.4
31...	1130	.3	860	70	--	23	--	5.5	--	13	--	1.7
NOV.												
28...	0940	1.1	2000	150	--	25	--	5.1	--	12	--	1.6
DEC.												
27...	1030	4.2	6500	300	--	18	--	3.7	--	6.1	--	1.4
JAN.												
15...	1330	4.4	3900	190	--	19	--	4.1	--	6.0	--	1.1
FEB.												
14...	1015	4.4	1400	50	--	20	--	4.0	--	5.6	--	1.1
MAR.												
14...	1315	4.8	2400	130	--	21	--	4.0	--	5.9	--	1.2
APR.												
19...	1130	3.5	1800	70	17	--	4.0	--	5.9	--	1.4	--
MAY												
14...	1140	3.7	460	80	--	19	--	3.6	--	6.5	--	.9
14...	1340	3.8	3600	240	18	--	4.3	--	6.0	--	1.3	--
JUNE												
18...	1315	.2	970	60	20	--	4.0	--	5.4	--	1.0	--
JULY												
02...	1000	.1	900	70	--	22	--	4.2	--	7.6	--	1.2
23...	1300	--	1100	840	27	--	4.9	--	9.4	--	1.7	--
AUG.												
28...	1645	--	1600	130	25	--	4.8	--	7.2	--	1.2	--
SEP.												
09...	1230	--	5500	330	--	--	--	--	--	--	--	--
10...	1130	.8	360	50	--	26	--	5.0	--	8.9	--	1.5

DATE	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT.												
31...	71	58	23	16	--	.3	.84	.00	.00	.47	.47	1.3
31...	71	58	22	17	--	.3	.67	.00	.00	.39	.39	1.1
NOV.												
28...	66	54	25	16	--	.4	.92	.00	.12	.22	.34	1.3
DEC.												
27...	46	38	22	9.7	--	.2	.88	.07	.17	.35	.52	1.5
JAN.												
15...	53	43	21	8.7	--	.1	.95	.00	.01	.48	.49	1.4
FEB.												
14...	56	46	20	9.7	--	.1	.86	.07	.04	.32	.36	1.3
MAR.												
14...	61	50	19	9.8	--	.3	.74	.04	.27	.20	.47	1.2
APR.												
19...	56	46	18	9.1	.1	.1	.57	.03	.35	.05	.40	1.0
MAY												
14...	51	42	18	8.7	--	.1	--	--	--	--	.33	.90
14...	51	42	16	8.0	.2	--	.58	.03	.12	.64	.76	1.4
JUNE												
18...	55	45	16	8.1	.2	--	.53	.01	.03	.35	.38	.92
JULY												
02...	64	53	20	11	--	.2	--	--	--	--	.36	.96
23...	78	64	22	10	--	--	.77	.01	.20	.03	.23	1.0
AUG.												
28...	67	55	20	11	--	--	.56	.00	.14	.05	.19	.75
SEP.												
09...	72	59	20	12	--	--	.46	.00	.20	.39	.59	1.1
10...	73	60	24	12	--	.2	--	--	--	--	.28	.75

CONTINUED NEXT PAGE

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.												
31...	.13	--	.04	--	117	122	72	67	59	80	21	229
31...	.22	--	--	131	118	--	--	--	--	80	22	229
NOV.												
28...	.09	--	.02	--	119	184	138	54	47	83	29	220
DEC.												
27...	.19	--	.04	--	88	213	180	110	99	60	22	158
JAN.												
15...	.20	--	.03	--	91	192	157	88	78	64	21	166
FEB.												
14...	.06	--	.03	--	93	129	98	24	22	66	20	179
MAR.												
14...	.16	--	.04	--	96	152	125	44	38	69	19	182
APR.												
19...	.10	.06	--	115	--	148	138	46	40	--	--	210
MAY												
14...	.05	--	--	102	86	--	--	--	--	62	20	160
14...	.18	.03	--	--	--	219	160	112	98	--	--	160
JUNE												
18...	.07	.03	--	--	--	124	93	16	12	--	--	155
JULY												
02...	.08	--	--	122	98	--	--	--	--	72	20	190
23...	.10	.04	--	--	--	186	121	43	38	--	--	176
AUG.												
28...	.12	.05	--	--	--	184	139	60	53	--	--	195
SEP.												
09...	.22	.05	--	--	--	275	228	149	136	--	--	220
10...	.06	--	--	139	114	--	--	7	--	86	26	200

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.												
31...	6.8	15.0	--	--	8.0	78	19	--	--	--	--	.0
31...	6.8	15.0	--	15	8.0	78	--	380	29	<1	--	--
NOV.												
28...	7.0	9.0	--	--	8.7	76	19	3900	120	58	--	.0
DEC.												
27...	7.0	2.0	--	--	12.8	92	19	B20000	B740	B800	--	.0
JAN.												
15...	7.1	.0	--	--	12.2	98	20	--	52	120	--	.0
FEB.												
14...	6.5	.0	--	--	--	--	11	--	98	58	--	.0
MAR.												
14...	5.9	3.0	--	--	13.4	88	19	--	100	100	--	.0
APR.												
19...	7.5	11.0	--	1	--	--	11	700	90	40	--	.0
MAY												
14...	7.3	--	--	8	--	--	--	--	--	--	2.9	--
14...	7.2	11.0	--	--	--	--	24	--	94	750	--	.0
JUNE												
18...	7.3	21.0	--	--	8.1	90	12	3900	270	--	--	.0
JULY												
02...	7.8	19.0	--	10	--	--	--	--	B440	B8	4.9	--
23...	7.3	25.5	8	20	6.0	71	7	2600	130	--	--	--
AUG.												
28...	7.6	25.0	3	30	6.4	77	14	--	--	--	6.2	--
SEP.												
09...	7.6	--	4	60	7.2	82	45	--	--	--	--	--
10...	7.5	22.0	--	6	--	--	--	--	320	B14	4.5	--

RADIOCHEMICAL ANALYSES

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
AUG.											
28...	1645	1.4	3.5	2.8	130	3.2	2.8	2.3	50	.04	.10
SEP.											
10...	1130	<1.4	3.8	3.1	130	<.4	.6	.5	7	.03	.11

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

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.										
31...	1130	2	1	1	1	0	1	0	0	0
APR.										
19...	1130	2	--	--	--	--	--	--	--	--
MAY										
14...	1140	0	--	1	1	1	0	10	10	0
JULY										
02...	1000	3	3	0	1	1	0	10	10	0
AUG.										
28...	1645	1	--	--	--	--	--	--	--	--
SEP.										
10...	1130	1	0	1	1	1	0	0	0	0

DATE	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
OCT.										
31...	0	--	1	30	20	10	250	5	4	1
APR.										
19...	--	--	--	20	--	--	--	6	--	--
MAY										
14...	0	0	1	0	0	10	310	14	12	2
JULY										
02...	0	0	0	10	0	10	40	7	7	0
AUG.										
28...	--	--	--	20	--	--	--	10	--	--
SEP.										
10...	0	0	0	20	10	10	30	9	9	0

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
31...	--	190	<.5	<.5	2	0	2	60	30	30
APR.										
19...	--	--	<.5	--	--	--	--	--	--	--
MAY										
14...	50	30	<.5	<.5	0	0	0	340	320	20
JULY										
02...	70	0	<.5	<.5	3	1	2	50	30	20
AUG.										
28...	--	--	<.5	--	--	--	--	--	--	--
SEP.										
10...	50	0	<.5	<.5	3	1	2	20	20	0

CONTINUED NEXT PAGE

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C)

October 31, 1973 1015 to 1053 Hours

Distance from left bank	260 ft (79 m)		800 ft (244 m)		1320 ft (402 m)		1850 ft (564 m)		2380 ft (725 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	172	16.0	177	15.0	178	15.0	177	15.5	174	15.0
10 3	172	15.5	177	15.0	178	15.0	177	15.0	174	15.0
middepth	172	15.5	177	15.0	178	15.0	177	15.0	174	15.0
50 15	172	15.5	177	15.0	178	15.0	177	15.0	174	15.0

October 31, 1973 1402 to 1438 Hours

Distance from left bank	260 ft (79 m)		800 ft (244 m)		1320 ft (402 m)		1850 ft (564 m)		2380 ft (725 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	243	16.0	205	15.5	205	15.5	180	15.5	176	15.0
10 3	243	15.5	205	15.5	205	15.5	180	15.5	176	15.0
middepth	243	15.5	205	15.5	205	15.5	180	15.5	176	15.5
50 15	243	15.5	205	15.5	205	15.5	180	15.5	176	15.5

July 2, 1974 0931 to 0939 Hours

Distance from left bank	400 ft (122 m)		1200 ft (366 m)		2000 ft (610 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
2 0.6	190	18.5	190	18.5	190	18.0
25 8	190	18.5	190	18.5	190	18.0
50 15	190	18.0	190	18.0	190	18.0

September 10, 1974 1131 to 1139 Hours

Distance from left bank	400 ft (122 m)		1200 ft (366 m)		2000 ft (610 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
2 0.6	200	- -	100	- -	100	- -
25 8	200	- -	100	- -	100	- -
50 15	200	- -	100	- -	100	- -

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

PHYTOPLANKTON ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
Aug. 7 1973	4,800	Oscillatoria	29
		Ulothrix	25
		Anacystis	21
July 2 1974	3,600	Pediastrum	27
		Anacystis	16
		Cyclotella	14
		Crucigenia	9
		Fragilaria	8
		Scenedesmus	7
		Melosira	7
		Navicula	5
		Stephanodiscus	2
		Cymbella	1
		Asterionella	1
		Nitzschia	1
		Gomphonema	1
		Cocconeis	1
		Tetraedron	1
		Closteriopsis	1
		Ankistrodesmus	1
Sept. 10 1974	8,200	Oscillatoria	56
		Anacystis	20
		Melosira	8
		Selenastrum	5
		Tetrastrum	3
		Scenedesmus	3
		Nitzschia	2
		Cyclotella	2
		Navicula	1
May 14 1974	1,900	Asterionella	29
		Melosira	28
		Ankistrodesmus	14
		Cyclotella	12
		Cymbella	5
		Navicula	3
		Nitzschia	2
		Gomphonema	2
		Cryptomonas	2
		Selenastrum	2
		Chlamydomonas	2
Aug. 28 1974	8,300	Anacystis Incerta	46
		Lyngbya	14
		Pediastrum	8
		Anacystis	7
		Coflastrum	7
		Cyclotella	6
		Scenedesmus	5
		Crucigenia	2
		Navicula	1
		Actinastrum	1
		Selenastrum	<1
		Oocystis	<1

PERIPHYTON ANALYSES, SEPTEMBER 1973 TO OCTOBER 1974

DATE	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M
Sept. 9 - Oct. 31	--	--	--	1.6
Nov. 6 - Dec. 27	--	--	3.1	1.5
Dec. 27 - Jan. 29	--	--	1.7	.80
May 14 - June 18	--	--	15	--
June 18 - July 16	70	29	--	--
July 16 - Aug. 14	94	37	28	21
Aug. 14 - Sept. 9	--	--	85	18
Sept. 9 - Oct. 10	22	8.1	38	28

CONTINUED NEXT PAGE

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT BETWEEN 0800 AND 0830)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.5	15.0	7.0	---	1.5	1.0	3.5	12.0	17.0	20.5	24.0	---
2	20.5	14.0	---	1.5	1.5	1.0	4.0	12.0	---	20.5	24.0	24.5
3	20.5	14.0	6.5	1.5	---	---	4.0	13.0	18.0	21.0	24.5	24.0
4	20.0	---	6.5	1.5	1.0	1.5	4.5	13.5	16.5	21.0	---	23.5
5	20.0	14.0	6.5	1.5	0.5	2.0	5.0	---	16.5	22.0	24.0	23.0
6	20.0	13.5	6.5	---	0.5	2.0	5.0	13.5	16.5	23.0	24.0	23.0
7	---	12.0	6.5	1.0	0.5	3.0	---	13.5	16.5	---	24.0	22.0
8	19.5	12.0	6.5	1.0	1.0	3.5	7.0	13.5	17.0	21.5	24.5	---
9	19.5	11.5	---	1.0	0.5	4.0	6.5	13.5	---	22.0	24.5	21.5
10	19.0	11.5	6.0	1.0	---	---	6.5	13.5	18.0	22.0	24.5	21.5
11	19.0	---	5.5	0.5	0.5	4.0	6.5	13.5	18.5	22.0	---	21.0
12	19.0	10.5	5.5	0.5	0.5	4.5	6.5	---	18.5	22.0	24.5	21.5
13	19.0	10.5	5.0	---	0.5	4.0	6.5	13.5	19.0	23.0	24.5	21.0
14	---	10.0	5.0	0.5	1.0	4.0	---	13.5	19.0	---	24.5	21.5
15	18.5	10.0	5.0	0.5	0.5	4.0	6.5	13.5	19.0	23.5	24.5	---
16	18.5	10.5	---	0.5	0.5	4.0	6.5	13.5	---	24.0	24.5	21.0
17	18.5	10.0	4.0	0.5	---	---	7.0	14.0	19.5	23.5	24.5	21.0
18	18.0	---	4.0	0.5	0.5	4.0	8.5	14.5	20.0	23.5	---	21.0
19	18.0	9.5	3.5	0.5	0.5	3.5	9.0	---	20.0	24.5	24.5	21.0
20	18.0	9.5	3.5	---	0.5	3.5	9.0	15.5	20.5	24.5	24.5	21.0
21	---	9.0	2.0	0.5	0.5	3.5	---	15.5	21.0	---	25.0	21.0
22	17.0	---	1.0	0.5	1.0	4.0	10.0	15.5	21.5	23.5	25.0	---
23	16.5	8.5	---	0.5	0.5	3.5	10.5	16.0	---	24.0	25.0	19.5
24	16.0	8.5	1.0	0.5	---	---	11.0	16.0	21.0	23.5	25.0	19.5
25	15.5	---	1.0	0.5	0.5	3.5	11.0	16.0	20.5	23.5	---	19.0
26	15.5	8.0	1.0	0.5	0.5	4.0	11.0	---	20.5	23.0	25.0	19.0
27	15.5	8.5	1.0	---	1.0	4.0	11.0	16.0	20.5	24.0	24.5	19.0
28	---	8.0	1.0	1.0	1.0	4.0	---	16.5	20.0	---	25.0	19.0
29	15.5	8.0	1.0	1.0	---	4.0	11.0	16.5	20.5	23.5	24.5	---
30	15.0	8.0	---	1.0	---	3.5	11.5	17.0	---	23.5	25.0	18.5
31	15.0	---	1.5	1.0	---	---	---	17.0	---	24.0	24.5	---
AVERAGE	18.0	10.5	4.0	1.0	1.0	3.5	7.5	14.5	19.0	23.0	24.5	21.0

SUSPENDED-SEDIMENT MEASUREMENTS
WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.			
31...	1130	43	95
MAY			
14...	1140	14	--
JULY			
02...	1000	22	--
SEP.			
10...	1130	11	95

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, at gaging station 700 ft (213 m) downstream from Red Oak Mill dam and 4.5 mi (7.2 km) northeast of Wappingers Falls.

DRAINAGE AREA.--181 mi^2 (469 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1964, August 1965 to September 1974.
Water temperatures: October 1963 to September 1964.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 25...	1230	29	3.4	110	30	--	39	--	12	--	11
NOV. 20...	1330	35	2.3	60	20	--	39	--	13	--	11
DEC. 19...	1400	E200	5.9	150	30	--	31	--	8.5	--	8.1
JAN. 23...	1345	436	5.6	640	60	--	24	--	7.8	--	10
FEB. 21...	1430	331	4.6	360	30	--	26	--	7.4	--	6.4
MAR. 20...	1315	590	4.6	230	20	--	23	--	6.6	--	5.9
APR. 16...	1430	883	3.4	340	20	30	--	6.8	--	5.4	--
MAY 15...	0820	480	4.4	350	60	23	--	6.0	--	6.1	--
JUNE 25...	1900	124	6.1	470	80	31	--	9.2	--	9.0	--
JULY 23...	1800	46	--	330	80	37	--	14	--	11	--
AUG. 14...	1610	28	--	150	100	35	--	12	--	13	--
SEP. 18...	1130	91	--	320	100	34	--	9.9	--	8.0	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 25...	--	1.3	158	0	130	23	18	--	.2	.53	.01
NOV. 20...	--	1.4	147	0	121	27	17	--	.2	.45	.03
DEC. 19...	--	1.6	100	0	82	31	13	--	.1	.92	.00
JAN. 23...	--	1.0	75	0	62	24	17	--	.2	1.1	.01
FEB. 21...	--	1.1	83	0	68	22	13	--	.0	1.2	.01
MAR. 20...	--	1.1	75	0	62	21	11	--	.0	.84	.00
APR. 16...	.9	--	78	0	64	19	9.5	.2	--	.62	.01
MAY 15...	.9	--	80	0	66	18	9.0	.2	--	.38	.02
JUNE 25...	1.0	--	115	0	94	21	15	.1	--	.70	.01
JULY 23...	1.0	--	127	0	104	23	18	--	--	.37	.01
AUG. 14...	1.1	--	141	0	116	25	21	--	--	.43	.02
SEP. 18...	1.0	--	130	0	107	19	13	--	--	.26	.00

E Estimated value.

CONTINUED NEXT PAGE

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 25...	.01	.18	.19	.73	.01	--	.00	186	210	184
NOV. 20...	.04	.05	.09	.58	.00	--	.00	183	206	163
DEC. 19...	.06	.05	.11	1.0	.01	--	.01	149	165	150
JAN. 23...	.05	.27	.32	1.4	.03	--	.02	127	150	127
FEB. 21...	.04	.15	.19	1.4	.02	--	.00	127	153	115
MAR. 20...	.07	.08	.15	.99	.02	--	.00	110	130	105
APR. 16...	.03	.12	.15	.78	.02	.00	--	--	120	110
MAY 15...	.03	.37	.40	.80	.02	.01	--	--	142	84
JUNE 25...	.01	.33	.34	1.1	.05	.03	--	--	192	151
JULY 23...	.20	.00	.20	.58	.02	.01	--	--	201	143
AUG. 14...	.21	.07	.28	.73	.03	.01	--	--	277	214
SEP. 18...	.11	.23	.34	.60	.03	.00	--	--	177	150

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 25...	2	0	150	17	330	7.6	13.5	--	--	8.7
NOV. 20...	6	0	149	28	370	7.8	8.0	--	--	9.6
DEC. 19...	5	4	103	21	256	6.8	.0	--	--	--
JAN. 23...	10	5	88	26	290	6.8	.0	--	--	12.2
FEB. 21...	7	5	92	24	226	6.8	3.0	--	--	12.2
MAR. 20...	8	6	83	21	203	6.6	5.0	--	--	12.0
APR. 16...	4	4	--	--	199	7.7	10.0	--	--	12.2
MAY 15...	10	4	--	--	240	7.7	14.0	--	--	9.5
JUNE 25...	11	8	--	--	220	7.8	18.0	--	--	8.6
JULY 23...	5	5	--	--	328	8.2	22.5	2	4	8.4
AUG. 14...	3	0	--	--	340	8.1	24.0	2	3	8.8
SEP. 18...	6	4	--	--	330	8.0	17.5	1	3	9.6

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
25...	83	6	490	B16	--	.0	--	--	--	--
NOV.										
20...	81	4	B80	B2	--	.0	--	--	--	--
DEC.										
19...	--	7	440	120	--	.0	--	--	--	--
JAN.										
23...	--	7	660	20	--	.0	--	--	--	--
FEB.										
21...	88	9	140	B16	--	.0	--	--	--	--
MAR.										
20...	99	6	B28	B2	--	.0	--	--	--	--
APR.										
16...	109	8	B40	B11	--	.0	<1	10	1	<.5
MAY										
15...	95	11	1500	330	--	.0	--	--	--	--
JUNE										
25...	90	12	B13000	B5700	--	.0	--	--	--	--
JULY										
23...	97	7	630	B55	--	--	--	--	--	--
AUG.										
14...	103	7	--	--	2.8	--	0	0	1	<.5
SEP.										
18...	100	9	--	--	--	--	--	--	--	--

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

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.

LOCATION.--Lat 41°34'20", long 73°57'45", Dutchess County, approximately 0.2 mi (0.3 km) southeast of Danskammer Point on line between Danskammer Point and Chelsea Pumping Station, 1.3 mi (2.1 km) north of Chelsea and approximately 0.8 mi (1.3 km) downstream from Wappinger Creek.

DRAINAGE AREA.--11,995 mi^2 (31,067 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
03...	0835	.4	800	80	--	22	--	6.9	--	22	--	2.2
31...	0810	.2	590	90	--	24	--	8.6	--	33	--	2.9
NOV.												
14...	0830	.3	430	30	--	23	--	5.9	--	15	--	1.9
28...	0915	.5	720	40	--	25	--	5.7	--	12	--	1.7
DEC.												
05...	0845	.6	1000	60	--	25	--	5.5	--	12	--	1.8
19...	0845	4.0	230	20	--	21	--	4.3	--	6.3	--	1.8
JAN.												
09...	0910	4.4	2800	90	--	19	--	3.4	--	5.0	--	1.3
23...	0815	4.9	730	40	--	21	--	4.7	--	7.0	--	1.1
FEB.												
06...	0815	4.4	460	170	--	21	--	4.2	--	6.9	--	1.4
20...	0815	4.3	1000	50	--	22	--	4.3	--	6.0	--	1.2
MAR.												
06...	0900	4.4	2200	90	--	20	--	3.8	--	6.6	--	1.3
20...	0840	4.6	1100	50	--	21	--	4.3	--	5.6	--	1.4
APR.												
03...	0840	4.4	1300	70	--	20	--	4.1	--	7.0	--	1.2
17...	0840	3.7	600	40	--	19	--	3.9	--	5.4	--	1.2
MAY												
01...	0845	3.3	1700	70	23	--	3.8	--	4.8	--	1.1	--
29...	0855	4.0	5900	270	19	--	5.2	--	5.0	--	1.4	--
JUNE												
12...	0830	2.5	730	50	17	--	3.6	--	5.0	--	.8	--
26...	0855	.2	1400	70	18	--	4.0	--	5.5	--	1.0	--
JULY												
10...	0830	--	350	20	24	--	4.6	--	8.5	--	1.1	--
24...	0820	--	500	50	24	--	5.5	--	15	--	1.4	--
AUG.												
07...	0835	--	430	70	26	--	4.7	--	7.7	--	1.2	--
21...	0830	--	750	110	35	--	5.3	--	9.3	--	1.5	--
SEP.												
04...	0835	--	610	40	25	--	5.0	--	7.0	--	1.4	--
18...	0900	--	400	50	24	--	5.2	--	7.7	--	1.3	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
03...	73	0	60	23	38	--	.4	.62	.00	.11	.16
31...	70	0	57	28	63	--	.3	.69	.00	.07	--
NOV.											
14...	74	0	61	25	22	--	.3	.75	.00	.10	.05
28...	72	0	59	27	17	--	.3	.90	.00	.01	.17
DEC.											
05...	71	0	58	27	19	--	.4	.93	.00	.02	.19
19...	57	0	47	23	10	--	.2	.91	.00	.03	.36
JAN.											
09...	54	0	44	17	8.2	--	.3	.77	.03	.16	.28
23...	58	0	48	22	11	--	.1	.82	.07	.09	.23
FEB.											
06...	56	0	46	24	13	--	.2	.84	.10	.12	.34
20...	62	0	51	20	11	--	.1	.82	.03	.16	.29
MAR.											
06...	50	0	41	20	12	--	.1	.75	.06	.29	--
20...	61	0	50	19	9.4	--	.0	.80	.07	.25	.11
APR.											
03...	57	0	47	20	12	--	.2	.77	.08	.15	.20
17...	52	0	43	16	9.5	--	.1	.64	.03	.01	.22
MAY											
01...	51	0	42	17	7.5	.2	--	.61	.04	.18	.15
29...	53	0	43	14	7.4	.1	--	.60	.01	.01	--
JUNE											
12...	48	0	39	14	7.2	.2	--	.63	.00	.03	.23
26...	54	0	44	18	8.2	.2	--	.60	.01	.00	.55
JULY											
10...	66	0	54	22	12	--	--	.65	.01	.12	.21
24...	66	0	54	25	22	--	--	.65	.01	.16	.11
AUG.											
07...	81	--	66	22	12	--	--	.82	.00	.12	.03
21...	71	--	58	20	13	--	--	.77	.00	.07	.19
SEP.											
04...	73	--	60	19	11	--	--	.59	.00	.09	.14
18...	68	--	56	17	12	--	--	.49	.00	.13	.32

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.											
03...	.27	.89	.07	--	.05	151	181	118	18	6	83
31...	--	--	.07	--	.04	195	239	217	11	7	95
NOV.											
14...	.15	.90	.06	--	.04	130	167	129	--	--	82
28...	.18	1.1	.08	--	.03	125	137	115	14	11	86
DEC.											
05...	.21	1.1	.08	--	.03	126	149	135	26	24	85
19...	.39	1.3	.09	--	.04	99	138	118	45	39	70
JAN.											
09...	.44	1.2	.15	--	.08	85	181	145	79	72	61
23...	.32	1.2	.07	--	.03	100	110	96	16	10	72
FEB.											
06...	.46	1.4	.08	--	.04	103	150	--	34	30	70
20...	.45	1.3	.06	--	.03	100	143	108	27	25	73
MAR.											
06...	.21	1.0	.09	--	.04	93	151	130	58	48	66
20...	.36	1.2	.10	--	.04	95	140	117	29	28	70
APR.											
03...	.35	1.2	.07	--	.04	97	140	100	38	37	67
17...	.23	.90	.05	--	.03	85	128	107	20	14	64
MAY											
01...	.33	.98	.08	.04	--	--	141	120	49	45	--
29...	--	--	.12	.03	--	--	169	140	93	72	--
JUNE											
12...	.26	.89	.07	.03	--	--	141	102	47	--	--
26...	.55	1.2	.25	.06	--	--	144	119	37	32	--
JULY											
10...	.33	.99	.06	.03	--	--	153	125	22	19	--
24...	.27	.93	.06	.04	--	--	169	118	11	8	--
AUG.											
07...	.15	.97	.08	.05	--	--	183	111	18	17	--
21...	.26	1.0	.08	.06	--	--	330	271	18	12	--
SEP.											
04...	.23	.82	.07	.04	--	--	135	105	9	6	--
18...	.45	.94	.08	.04	--	--	133	103	20	18	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
03...	23	293	7.4	--	--	11	.0	--	--	--	--
31...	38	394	7.5	--	--	12	.0	--	--	--	--
NOV.											
14...	21	255	7.5	--	--	12	.0	3	20	4	<.5
28...	27	234	7.4	--	--	12	.0	--	--	--	--
DEC.											
05...	27	234	7.2	--	--	12	.0	--	--	--	--
19...	23	188	7.2	--	--	14	.0	--	--	--	--
JAN.											
09...	17	156	7.4	--	--	17	.0	--	--	--	--
23...	24	188	7.1	--	--	11	.0	--	--	--	--
FEB.											
06...	24	189	7.3	--	--	11	.0	--	--	--	--
20...	22	183	7.2	--	--	11	.0	--	--	--	--
MAR.											
06...	25	175	7.2	--	--	14	.0	--	--	--	--
20...	20	180	7.4	--	--	14	.0	--	--	--	--
APR.											
03...	20	181	7.3	--	--	12	.0	--	--	--	--
17...	21	155	7.2	--	--	10	.0	--	--	--	--
MAY											
01...	--	155	7.3	--	--	15	.0	--	--	--	--
29...	--	155	7.2	--	--	14	.0	1	270	88	.8
JUNE											
12...	--	155	7.3	--	--	10	.0	--	--	--	--
26...	--	165	7.0	--	--	11	.0	--	--	--	--
JULY											
10...	--	202	7.3	6	7	11	--	--	--	--	--
24...	--	240	7.3	2	7	12	--	--	--	--	--
AUG.											
07...	--	228	--	3	8	10	--	--	--	--	--
21...	--	231	--	7	6	13	--	4	40	8	<.5
SEP.											
04...	--	212	--	3	9	11	--	--	--	--	--
18...	--	214	--	3	8	11	--	--	--	--	--

01372575 HUDSON RIVER AT BEACON, N.Y.

LOCATION.--Lat 41°30'18", long 73°59'21" Dutchess County, at point of land in Beacon, 1.0 mi (1.6 km) downstream from Beacon-Newburgh Bridge and 0.8 mi (1.3 km) upstream from north end of Denning Point.

DRAINAGE AREA.--12,011 mi^2 (31,108 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	0855	4.0	630	50	--	25	--	19	--	100	--	5.9
NOV.												
28...	0910	.5	1600	80	--	26	--	6.3	--	18	--	2.1
JAN.												
16...	0915	4.4	1900	70	--	19	--	3.7	--	7.8	--	1.1
30...	0935	5.0	710	60	--	24	--	4.8	--	9.5	--	1.1
MAR.												
27...	0905	4.7	870	50	--	20	--	4.2	--	6.3	--	1.1
APR.												
24...	0905	4.0	1100	60	--	21	--	4.6	--	8.8	--	1.4
MAY												
23...	0910	3.9	1600	80	20	--	4.0	--	6.7	--	1.1	--
JULY												
10...	1100	--	560	50	23	--	4.6	--	9.0	--	1.1	--
31...	1200	--	240	40	26	--	7.3	--	26	--	1.8	--
AUG.												
14...	1000	--	400	80	26	--	6.8	--	25	--	1.3	--
SEP.												
12...	1000	--	430	30	25	--	6.4	--	9.0	--	1.5	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	76	0	62	44	190	--	.3	.69	.00	.00	.24
NOV.											
28...	74	0	61	28	26	--	.4	.90	.00	.01	.38
JAN.											
16...	56	0	46	20	12	--	.1	.98	.01	.02	.41
30...	58	0	48	21	16	--	.2	.81	.03	.25	.30
MAR.											
27...	56	0	46	18	11	--	.1	.72	.06	.23	.12
APR.											
24...	57	0	47	19	12	--	.2	.64	.08	.11	.28
MAY											
23...	61	0	50	16	16	.2	--	.64	.01	.00	1.7
JULY											
10...	67	0	55	21	15	--	--	.58	.01	.17	.20
31...	69	0	57	28	51	--	--	.61	.02	.11	.27
AUG.											
14...	81	--	66	24	32	--	--	.67	.01	.16	.22
SEP.											
12...	83	--	68	22	18	--	--	.52	.00	.15	.18

01372575 HUDSON RIVER AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.											
31...	.24	.94	.10	--	.05	426	584	481	35	24	140
NOV.											
28...	.39	1.3	.12	--	.04	144	188	165	64	38	91
JAN.											
16...	.43	1.4	.10	--	.00	96	163	128	42	36	63
30...	.55	1.4	.06	--	.03	110	122	103	28	23	80
MAR.											
27...	.35	1.1	.07	--	.03	93	130	98	24	23	67
APR.											
24...	.39	1.1	.09	--	.05	99	165	144	34	30	71
MAY											
23...	1.7	2.4	.11	.04	--	--	158	114	54	40	--
JULY											
10...	.37	.96	.08	.03	--	--	152	109	16	14	--
31...	.38	1.0	.06	.04	--	--	213	166	12	10	--
AUG.											
14...	.38	1.1	.06	.05	--	--	231	148	3	0	--
SEP.											
12...	.33	.85	.08	.05	--	--	170	126	8	8	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
31...	78	820	7.5	--	--	13	.0	0	10	9	<.5
NOV.											
28...	30	268	7.4	--	--	44	.0	--	--	--	--
JAN.											
16...	17	179	7.2	--	--	13	.0	--	--	--	--
30...	32	196	7.3	--	--	9	.0	--	--	--	--
MAR.											
27...	21	170	7.4	--	--	10	.0	--	--	--	--
APR.											
24...	25	184	7.3	--	--	5	.0	--	--	--	--
MAY											
23...	--	171	7.3	--	--	22	.0	--	--	--	--
JULY											
10...	--	202	7.4	7	8	18	--	--	--	--	--
31...	--	385	7.6	4	5	9	--	<1	10	170	<.5
AUG.											
14...	--	280	--	2	6	16	--	--	--	--	--
SEP.											
12...	--	230	--	2	7	13	--	1	10	5	<.5

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22, long 73°48'25", Dutchess County, temperature recorder at gaging station at Hopewell Junction 400 ft (122 m) upstream from bridge on State Highway 376, 500 ft (152 m) upstream from small tributary, and 0.6 mi (1.0 km) south of State Highway 82.

DRAINAGE AREA.--57.3 mi^2 (148 km^2).

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum 24.5°C June 10, 11; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 27°C July 13, 1966; minimum, freezing point on many days during winter periods.

REMARKS.--Clock stopped Dec. 24-28, range 2.5°C to 4.5°C, Jan. 12, 13, range 0.5°C to 1.0°C, Sept. 5-20, range 14.5°C to 21.0°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	9.5	9.0	7.0	6.0	3.0	3.0	3.0	1.5	5.0	4.0
2	14.5	13.5	9.5	8.0	6.0	5.0	3.0	2.0	1.5	0.5	5.0	4.5
3	16.5	14.5	9.0	8.5	5.0	4.0	2.0	2.0	0.5	0.5	5.0	4.5
4	16.5	15.5	8.5	8.0	5.5	4.5	2.0	1.5	0.5	0.0	6.0	5.0
5	18.0	15.5	8.0	6.5	8.5	5.5	2.0	1.0	0.0	0.0	8.0	6.0
6	15.5	13.5	6.5	5.0	9.0	8.5	1.5	1.0	0.0	0.0	8.0	6.5
7	14.0	13.0	5.0	5.0	8.5	6.0	1.5	1.5	0.0	0.0	8.0	7.0
8	13.0	12.0	5.0	4.5	6.0	5.0	1.5	1.0	0.0	0.0	8.0	6.0
9	13.0	13.0	5.0	4.5	6.0	5.0	1.0	0.0	0.0	0.0	6.0	5.0
10	13.5	12.0	4.5	3.5	6.0	5.5	0.5	0.0	0.0	0.0	6.0	5.0
11	13.0	11.5	3.5	3.0	5.5	4.5	0.5	0.5	0.0	0.0	6.0	5.0
12	12.0	10.5	4.0	3.5	4.5	3.5	---	---	0.0	0.0	6.0	5.0
13	13.0	11.0	5.0	4.0	3.5	3.0	---	---	1.0	0.0	5.0	3.5
14	13.5	13.0	6.5	5.0	5.5	3.5	0.5	0.0	1.5	1.0	5.0	3.5
15	13.0	11.5	9.0	6.5	5.5	4.0	0.0	0.0	1.0	0.0	5.0	4.0
16	12.0	10.5	9.5	8.5	4.0	2.0	1.0	0.0	0.5	0.0	5.5	5.0
17	10.5	9.5	8.5	6.5	2.0	1.5	1.5	0.0	1.5	0.5	5.5	5.5
18	10.0	9.5	6.5	5.5	1.5	1.0	0.0	0.0	1.5	1.0	5.5	4.5
19	9.5	8.0	6.5	6.0	1.0	1.0	0.0	0.0	2.0	1.5	5.5	5.0
20	9.5	8.5	6.0	5.0	1.0	1.0	0.0	0.0	2.0	1.5	6.0	5.0
21	9.5	9.0	5.0	4.0	1.5	1.0	0.0	0.0	3.0	1.0	6.0	5.5
22	9.0	8.0	6.5	5.0	1.5	1.5	0.5	0.0	4.5	3.0	6.0	4.5
23	9.0	8.0	8.0	6.5	3.0	1.5	1.0	0.5	4.5	3.5	6.5	5.0
24	9.5	8.0	8.0	6.5	---	---	1.0	1.0	3.5	2.0	6.5	6.5
25	9.0	8.5	8.5	8.0	---	---	1.0	1.0	3.5	3.0	6.5	5.0
26	10.0	9.0	8.5	8.0	---	---	1.5	0.5	3.0	3.0	6.0	5.0
27	10.0	9.0	8.5	8.0	---	---	3.0	1.5	3.5	3.0	6.0	5.5
28	9.0	7.0	9.0	8.5	---	---	3.0	2.0	4.0	3.5	6.5	5.5
29	8.0	7.0	9.0	8.5	4.0	3.5	3.0	2.0	---	---	6.5	4.0
30	9.0	8.0	8.5	7.0	3.5	3.5	3.0	2.0	---	---	4.5	3.5
31	10.0	9.0	---	---	3.5	3.0	3.0	2.0	---	---	5.0	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.0	15.5	14.5	16.5	16.0	21.0	18.5	21.5	19.0	21.0	19.0
2	7.0	6.5	15.0	13.0	16.5	16.0	21.5	18.5	22.0	20.0	21.0	19.5
3	9.5	6.5	13.0	11.0	18.0	15.5	22.0	20.0	21.5	21.0	19.5	18.0
4	11.5	9.5	13.5	11.0	19.0	16.5	23.5	20.5	23.0	21.0	18.0	16.0
5	11.5	11.0	13.0	11.0	20.0	18.0	23.5	21.5	23.0	20.0	---	---
6	11.0	9.0	11.5	11.0	20.5	18.0	23.5	21.0	21.0	20.0	---	---
7	9.0	7.0	11.5	10.5	20.0	18.0	23.5	20.0	20.0	18.5	---	---
8	9.5	9.0	13.0	10.5	19.0	18.0	23.5	20.0	20.5	18.5	---	---
9	9.0	5.5	13.0	12.0	21.0	18.0	24.0	21.0	20.0	19.0	---	---
10	6.5	5.5	12.0	12.0	24.5	19.5	24.0	22.0	20.5	18.0	---	---
11	9.0	5.5	13.5	11.0	24.5	21.5	23.0	20.0	20.0	18.0	---	---
12	10.0	8.0	13.5	12.0	22.0	19.5	21.0	19.0	20.0	18.0	---	---
13	10.0	9.5	13.0	12.0	20.0	18.0	21.5	18.5	20.0	18.5	---	---
14	10.0	9.5	14.5	11.5	20.0	16.5	23.5	19.5	22.0	19.5	---	---
15	10.5	10.0	16.5	14.0	20.5	17.0	24.0	21.0	21.5	19.0	---	---
16	11.0	9.0	16.5	16.0	20.0	19.0	23.0	20.5	21.0	18.5	---	---
17	11.5	9.0	18.0	16.5	21.0	19.0	22.0	20.0	20.5	20.0	---	---
18	12.0	10.0	18.5	17.0	21.0	19.0	21.0	20.0	21.0	19.0	---	---
19	12.0	10.5	18.0	16.5	20.0	19.0	22.0	20.0	21.0	19.0	---	---
20	11.0	9.0	16.5	15.0	21.0	18.5	21.5	19.0	21.5	19.5	---	---
21	12.0	10.0	15.0	14.5	20.5	19.5	21.0	18.5	22.0	20.5	18.0	17.0
22	13.0	12.0	17.0	15.0	20.5	19.0	21.0	18.5	22.0	20.0	17.0	15.5
23	13.5	13.0	18.5	17.0	19.5	18.5	20.0	19.0	22.0	20.5	15.5	13.5
24	13.5	11.5	17.0	16.0	19.0	17.0	19.0	18.0	22.0	20.5	13.5	11.0
25	11.5	10.0	16.0	15.0	18.5	17.0	18.0	16.5	22.0	20.0	12.0	11.0
26	11.5	10.5	15.0	14.5	17.0	16.0	18.5	16.5	21.0	19.5	12.0	11.0
27	12.0	10.5	14.5	13.5	16.5	16.0	19.0	18.0	21.0	19.5	13.5	11.0
28	13.5	12.0	15.0	13.5	17.0	16.0	20.0	18.5	21.5	20.5	13.5	13.5
29	15.5	13.5	14.5	14.5	18.5	16.0	20.5	19.5	20.5	19.5	16.5	13.5
30	15.5	15.0	16.0	14.5	19.5	16.5	22.0	20.0	20.0	19.5	16.5	14.5
31	---	---	16.5	15.5	---	---	21.5	19.0	20.0	18.0	---	---

01373500 FISHKILL CREEK AT BEACON, N.Y.

LOCATION.--Lat 41°30'40", long 73°56'55", Dutchess County, at former gaging station, at Bridge Street Bridge in Beacon, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--190 mi^2 (492 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, April 1969 to September 1974.
Water temperatures: October 1961 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 28.0°C July 9; minimum, freezing point on Dec. 17-19, Jan. 17, 18.

Period of record:
Water temperatures: Maximum, 28.0°C July 9, 1974; minimum, freezing point on many days during winter periods some years.

REMARKS.--Water temperature measurements are made at lat 41°31'01", long 73°56'17", at the Texaco Research Center, 0.8 mi (1.3 km) upstream from former gaging station. No water temperature measurements made on weekends or holidays.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation. Water temperature records furnished by Texaco Incorporated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	0935	5.5	620	150	--	39	--	13	--	22	--	2.1
NOV.												
28...	0950	4.2	310	30	--	39	--	13	--	15	--	1.8
JAN.												
30...	1015	5.7	670	40	--	20	--	6.8	--	6.4	--	.9
FEB.												
27...	0915	4.8	220	30	--	24	--	8.3	--	8.0	--	1.0
MAR.												
27...	0940	5.3	390	50	--	23	--	8.0	--	7.7	--	1.0
APR.												
24...	0935	4.4	360	70	--	24	--	9.6	--	10	--	1.2
MAY												
23...	0945	5.4	380	50	26	--	8.5	--	9.4	--	.9	--
JULY												
10...	1300	--	200	50	33	--	10	--	16	--	1.2	--
31...	1300	--	480	140	35	--	11	--	15	--	1.4	--
AUG.												
14...	1100	--	660	270	45	--	13	--	44	--	1.5	--
SEP.												
12...	1100	--	300	80	34	--	13	--	15	--	1.3	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	149	0	122	36	33	--	.4	2.7	.00	.00	.31
NOV.											
28...	140	0	115	32	23	--	.3	1.2	.00	.01	.15
JAN.											
30...	59	0	48	19	12	--	.2	.86	.01	.11	.28
FEB.											
27...	81	0	66	22	15	--	.2	1.1	.01	.05	.08
MAR.											
27...	79	0	65	22	14	--	.1	.94	.02	.14	.06
APR.											
24...	94	0	77	22	15	--	.2	.80	.05	.11	.19
MAY											
23...	101	0	83	20	24	.2	--	.95	.04	.01	.21
JULY											
10...	125	0	103	25	25	--	--	.71	.01	.12	.20
31...	118	0	97	32	27	--	--	.87	.04	.14	.25
AUG.											
14...	140	--	115	34	80	--	--	.95	.03	.22	.18
SEP.											
12...	133	--	109	32	25	--	--	.84	.01	.17	.05

CONTINUED NEXT PAGE

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.											
31...	.31	3.0	.16	--	.11	225	260	210	30	16	150
NOV.											
28...	.16	1.4	.07	--	.05	197	219	183	17	13	150
JAN.											
30...	.39	1.3	.04	--	.02	100	109	92	26	24	78
FEB.											
27...	.13	1.2	.03	--	.02	123	178	145	18	14	94
MAR.											
27...	.20	1.2	.03	--	.02	120	149	107	12	12	90
APR.											
24...	.30	1.1	.04	--	.02	133	167	154	9	6	99
MAY											
23...	.22	1.2	.05	.04	--	--	175	122	10	6	--
JULY											
10...	.32	1.0	.07	.04	--	--	227	160	6	5	--
31...	.39	1.3	.08	.05	--	--	223	181	13	11	--
AUG.											
14...	.40	1.4	.09	.06	--	--	332	246	2	0	--
SEP.											
12...	.22	1.1	.09	.06	--	--	219	169	1	0	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
31...	29	427	7.5	--	--	8	.0	<1	50	--	<.5
NOV.											
28...	36	363	7.5	--	--	16	.0	--	--	--	--
JAN.											
30...	30	182	7.4	--	--	7	.0	--	--	--	--
FEB.											
27...	28	237	7.7	--	--	5	.0	--	--	--	--
MAR.											
27...	26	211	7.7	--	--	8	.0	--	--	--	--
APR.											
24...	22	245	7.5	--	--	7	.0	--	--	--	--
MAY											
23...	--	255	7.9	--	--	7	.0	--	--	--	--
JULY											
10...	--	334	8.2	2	2	8	--	--	--	--	--
31...	--	359	7.9	3	6	8	--	<1	20	390	<.5
AUG.											
14...	--	505	--	2	4	8	--	--	--	--	--
SEP.											
12...	--	363	--	2	4	15	--	1	10	3	<.5

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(TWICE-DAILY READINGS AT 0800 AND 1700)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	14.0	16.5	11.0	11.5	---	---	---	---	4.5	4.5	5.0	6.0
2	14.0	15.5	10.0	11.0	---	---	3.5	3.5	---	---	---	---
3	14.5	17.0	---	---	3.0	3.5	1.5	2.0	---	---	---	---
4	15.5	18.0	---	---	3.5	4.5	3.0	3.0	1.0	2.0	5.0	6.0
5	16.5	19.5	6.5	7.0	6.0	7.0	---	---	1.0	2.0	8.5	9.5
6	---	---	6.0	7.0	8.0	9.0	---	---	1.0	3.5	8.5	9.5
7	---	---	6.0	6.5	7.0	6.5	2.0	3.0	6.0	6.5	8.5	9.0
8	13.5	15.0	5.5	6.0	---	---	2.0	3.0	---	---	8.0	8.5
9	13.5	14.0	5.0	5.0	---	---	0.5	0.5	---	---	---	---
10	13.0	14.5	---	---	5.5	5.5	0.5	0.5	---	---	---	---
11	11.0	13.5	---	---	5.0	5.0	0.5	0.5	4.0	4.0	5.0	6.0
12	11.5	14.0	4.0	4.5	4.5	5.0	---	---	2.0	2.0	5.0	6.0
13	---	---	5.0	5.5	2.0	3.0	---	---	2.0	1.5	3.5	4.5
14	---	---	6.0	8.5	4.5	5.0	0.5	0.5	2.0	3.0	3.0	4.5
15	11.5	14.5	6.5	9.0	---	---	1.0	1.5	1.5	2.0	3.5	5.5
16	12.0	14.5	9.5	9.5	---	---	1.0	1.5	---	---	---	---
17	11.0	13.0	---	---	0.0	0.5	1.0	0.0	---	---	---	---
18	11.0	11.0	---	---	0.0	0.0	0.0	0.0	---	---	3.5	5.0
19	10.0	11.0	6.0	7.0	0.0	0.5	---	---	3.0	3.0	4.5	6.0
20	---	---	6.5	7.0	0.5	0.5	---	---	3.0	3.0	5.0	6.5
21	---	---	5.0	6.0	---	---	1.0	1.0	1.5	3.5	6.0	5.5
22	10.0	11.5	5.0	6.0	---	---	1.5	2.0	3.5	5.0	4.0	5.5
23	10.0	12.0	5.5	9.5	---	---	2.0	3.5	---	---	---	---
24	10.5	11.0	---	---	---	---	3.0	3.5	---	---	---	---
25	10.0	12.0	---	---	---	---	3.0	3.5	3.0	3.0	4.0	5.5
26	10.5	11.5	7.0	8.0	1.5	3.0	---	---	2.0	3.5	4.5	5.0
27	---	---	7.0	8.0	3.5	4.0	---	---	2.0	3.5	4.5	5.5
28	---	---	8.0	9.0	5.0	5.0	4.5	4.5	3.0	4.5	5.0	6.5
29	9.0	10.0	9.0	8.5	---	---	4.5	5.0	---	---	4.5	3.5
30	10.0	10.0	6.5	6.5	---	---	4.5	5.5	---	---	---	---
31	9.5	11.0	---	---	4.0	4.0	4.5	5.5	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	4.5	6.0	15.5	17.0	---	---	21.0	22.0	22.0	24.5	---	---
2	6.5	7.0	13.5	14.5	---	---	21.0	22.0	22.0	24.5	---	---
3	8.0	9.0	11.0	12.0	14.5	18.0	22.0	25.0	---	---	19.5	19.0
4	10.5	13.0	---	---	14.5	19.0	---	---	---	---	16.5	16.5
5	---	---	---	---	18.0	20.5	25.0	26.0	24.0	25.5	16.5	16.5
6	---	---	11.0	11.0	18.5	21.0	---	---	23.0	24.0	15.5	16.0
7	---	---	10.0	11.5	19.0	20.0	---	---	22.0	23.0	---	---
8	8.0	9.0	10.0	11.5	---	---	24.0	26.0	21.0	23.5	---	---
9	6.5	5.5	10.0	12.0	---	---	24.5	28.0	21.5	23.5	17.0	19.5
10	3.5	4.5	12.0	13.0	21.5	25.0	25.0	27.0	---	---	17.0	19.5
11	5.0	7.0	---	---	23.5	24.5	24.0	25.0	---	---	19.0	20.0
12	---	---	---	---	21.0	21.5	22.0	24.0	20.0	23.5	20.0	21.0
13	---	---	13.0	13.5	18.0	21.0	---	---	21.0	23.5	22.0	23.5
14	---	---	12.0	14.5	18.5	20.5	---	---	21.5	25.0	---	---
15	11.5	11.5	15.0	18.0	---	---	23.5	26.5	22.0	25.0	---	---
16	10.0	11.5	17.0	20.0	---	---	24.5	25.5	21.5	24.5	18.0	19.0
17	10.5	12.0	18.5	20.5	20.5	21.0	23.5	24.5	---	---	16.0	18.5
18	11.0	13.5	---	---	19.5	23.0	23.5	24.0	---	---	17.0	18.5
19	10.5	12.0	---	---	20.0	21.0	23.0	25.0	22.0	24.0	17.0	19.0
20	---	---	15.5	17.0	20.5	---	---	---	21.5	24.5	18.5	19.5
21	---	---	13.5	16.0	---	---	---	---	23.0	25.5	---	---
22	14.0	15.5	15.5	18.0	---	---	21.0	23.5	23.0	24.5	---	---
23	16.5	17.0	15.5	18.0	---	---	21.5	23.5	23.5	24.5	15.0	17.0
24	14.5	14.0	16.0	18.0	18.5	19.5	21.0	21.5	---	---	13.0	13.5
25	13.5	14.5	---	---	18.0	16.5	19.0	20.0	---	---	13.0	13.5
26	14.0	12.0	---	---	15.5	16.0	18.5	19.5	22.0	22.0	12.0	13.0
27	---	---	---	---	15.5	16.5	---	---	22.0	22.0	12.0	14.5
28	---	---	11.5	14.0	16.0	17.0	---	---	23.5	23.5	---	---
29	15.5	18.5	13.0	14.0	---	---	20.5	21.5	22.0	22.0	---	---
30	17.0	17.0	13.5	14.0	---	---	21.0	24.5	23.0	23.0	15.5	16.5
31	---	---	14.5	16.5	---	---	21.5	24.0	---	---	---	---

01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.

LOCATION.--Lat 41°27'32", long 74°01'27", Orange County, at bridge on State Highway 9W, 0.6 mi (1.0 km) upstream from mouth and 1.5 mi (2.4 km) south of New Windsor.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
11...	0915	4.7	490	490	--	42	--	9.4	--	70	--	4.4
NOV.												
07...	0900	5.6	--	--	--	33	--	11	--	30	--	4.6
DEC.												
05...	0925	3.7	790	90	--	33	--	7.0	--	21	--	3.4
MAR.												
06...	0855	2.8	270	40	--	21	--	4.2	--	14	--	1.5
MAY												
01...	0900	.9	490	70	24	--	4.7	--	13	--	1.4	--
29...	0905	2.7	350	100	25	--	5.2	--	16	--	1.4	--
JUNE												
26...	0840	5.8	1900	280	26	--	5.0	--	14	--	1.1	--
JULY												
24...	1100	--	420	1000	39	--	6.8	--	33	--	2.2	--
AUG.												
21...	1000	--	690	500	40	--	7.9	--	37	--	2.6	--
SEP.												
18...	1100	--	610	350	35	--	7.0	--	29	--	1.7	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.												
11...	172	0	141	63	82	--	.6	.00	.01	9.8	.00	9.8
NOV.												
07...	114	0	94	58	38	--	.3	.20	.03	3.5	1.0	4.5
DEC.												
05...	79	0	65	47	30	--	.5	.79	.13	.22	.46	.68
MAR.												
06...	52	0	43	26	26	--	.3	.61	.03	.39	.26	.65
MAY												
01...	73	0	60	25	24	.2	--	.34	.05	.89	.31	1.2
29...	83	0	68	21	24	.2	--	.51	.09	1.1	.70	1.8
JUNE												
26...	72	0	59	20	22	.2	--	.55	.19	.11	.44	.55
JULY												
24...	135	0	111	54	42	--	--	1.3	.25	7.0	.00	6.9
AUG.												
21...	99	--	81	38	70	--	--	.16	.16	--	--	2.1
SEP.												
18...	110	--	90	30	48	--	--	.38	.10	2.6	.50	3.1

01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
11...	9.8	1.1	--	1.1	364	442	343	22	5	140	3
NOV.											
07...	4.7	.44	--	.33	238	139	122	26	16	130	34
DEC.											
05...	1.6	.22	--	.13	185	259	207	54	40	110	46
MAR.											
06...	1.3	.08	--	.05	122	153	127	20	11	70	27
MAY											
01...	1.6	.16	.09	--	--	170	131	12	6	--	--
29...	2.4	.18	.12	--	--	189	154	10	5	--	--
JUNE											
26...	1.3	.20	.07	--	--	193	147	42	34	--	--
JULY											
24...	8.4	.85	.68	--	--	336	243	12	2	--	--
AUG.											
21...	2.4	.66	.35	--	--	326	261	26	6	--	--
SEP.											
18...	3.6	.34	.27	--	--	270	214	15	10	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	643	6.9	--	--	110	--	.2	--	--	--	--
NOV.											
07...	424	6.9	--	--	64	--	.1	<1	--	--	--
DEC.											
05...	388	6.6	--	--	37	--	.0	--	--	--	--
MAR.											
06...	237	7.0	--	--	18	--	.0	--	--	--	--
MAY											
01...	252	7.1	--	--	12	--	.0	--	--	--	--
29...	265	7.1	--	--	28	--	.1	--	--	--	--
JUNE											
26...	229	7.3	--	--	22	--	.0	0	10	61	<.5
JULY											
24...	426	6.9	30	5	56	--	--	--	--	--	--
AUG.											
21...	414	--	10	30	74	--	--	--	--	--	--
SEP.											
18...	401	--	10	8	55	16	--	1	10	12	.6

01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.

LOCATION.--Lat 41°18'51", long 73°59'08", Rockland County, at south dock of Bear Mountain State Park, at Bear Mountain, and 0.4 mi (0.6 km) downstream from Bear Mountain Bridge.

DRAINAGE AREA.--12,521 mi^2 (32,429 km^2).

PERIOD OF RECORD.--Chemical analyses, April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT. 11...	1010	1.0	90	130	--	56	--	110	--	1000	--	38
NOV. 07...	0940	.8	--	--	--	40	--	75	--	650	--	26
DEC. 05...	1015	.5	1000	60	--	33	--	34	--	270	--	1.0
MAR. 06...	0940	4.4	1400	60	--	20	--	3.8	--	7.0	--	1.2
MAY 01...	0950	3.4	1400	50	20	--	5.0	--	4.0	--	.8	--
29...	0950	3.7	830	70	18	--	4.2	--	6.2	--	1.0	--
JUNE 26...	0925	1.5	1100	70	29	--	13	--	85	--	3.4	--
JULY 24...	1200	--	720	170	36	--	55	--	380	--	14	--
AUG. 21...	1100	--	520	80	39	--	100	--	400	--	14	--
SEP. 18...	1200	--	450	40	26	--	7.0	--	27	--	2.0	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT. 11...	80	0	66	250	1800	--	.4	.93	.00	.02	.18	.20
NOV. 07...	80	0	66	170	1200	--	.2	.81	.00	.03	.36	.39
DEC. 05...	77	0	63	84	450	--	.4	.97	.01	.04	.17	.21
MAR. 06...	54	0	44	20	12	--	.2	.78	.05	.31	.18	.49
MAY 01...	58	0	48	19	9.7	.2	--	.66	.08	.16	.16	.32
29...	54	0	44	15	9.3	.2	--	.60	.04	.07	.29	.36
JUNE 26...	51	0	42	37	160	.1	--	.62	.03	.01	.30	.31
JULY 24...	66	0	54	120	680	--	--	.57	.03	.33	.32	.65
AUG. 21...	76	--	62	110	650	--	--	.78	.00	.07	.23	.30
SEP. 18...	76	--	62	27	50	--	--	.58	.00	.10	.27	.37

01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA.MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
11...	1.1	.12	--	.06	3300	3680	3090	14	5	590	530
NOV.											
07...	1.2	.14	--	.06	2200	--	--	46	37	410	340
DEC.											
05...	1.2	.14	--	.05	911	1000	852	47	41	220	160
MAR.											
06...	1.3	.06	--	.04	95	145	125	40	33	66	21
MAY											
01...	1.1	.07	.03	--	--	143	112	30	29	--	--
29...	1.0	.07	.03	--	--	132	115	21	17	--	--
JUNE											
26...	.96	.11	.05	--	--	438	340	29	24	--	--
JULY											
24...	1.3	.10	.04	--	--	1660	1320	28	24	--	--
AUG.											
21...	1.1	.11	.08	--	--	1600	1320	26	19	--	--
SEP.											
18...	.95	.10	.06	--	--	227	186	15	4	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
11...	5860	7.2	--	--	28	--	.0	--	--	--	--
NOV.											
07...	3800	7.5	--	--	18	--	.0	1	--	--	--
DEC.											
05...	1700	7.1	--	--	19	--	.0	--	--	--	--
MAR.											
06...	185	7.2	--	--	12	--	.0	--	--	--	--
MAY											
01...	179	7.3	--	--	15	--	.0	--	--	--	--
29...	168	7.3	--	--	10	--	.0	--	--	--	--
JUNE											
26...	685	7.4	--	--	12	--	.0	0	20	51	<.5
JULY											
24...	2550	7.1	5	20	10	--	--	--	--	--	--
AUG.											
21...	2560	--	5	20	13	--	--	--	--	--	--
SEP.											
18...	344	--	2	8	12	3.9	--	2	10	4	<.5

01374350 HUDSON RIVER AT VERPLANCK, N.Y.

LOCATION.--Lat 41°15'23", long 73°57'59", Westchester County, at pier at end of 6th Street in Verplanck and across the river from Tompkins Cove.

DRAINAGE AREA.--12,612 mi^2 (32,665 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	1045	1.0	470	80	--	59	--	150	--	1100	--	42
NOV.												
28...	1115	.6	780	50	--	40	--	56	--	460	--	16
JAN.												
30...	1120	4.9	710	50	--	22	--	4.8	--	8.0	--	1.2
MAR.												
27...	1050	4.7	900	40	--	18	--	4.4	--	8.6	--	1.3
APR.												
24...	1030	4.2	1800	100	--	19	--	4.2	--	7.3	--	1.3
MAY												
23...	1045	3.5	3600	200	18	--	4.5	--	6.5	--	1.3	--
JULY												
10...	1400	--	1300	70	22	--	4.8	--	10	--	1.3	--
31...	1500	--	2200	260	54	--	120	--	880	--	35	--
AUG.												
14...	1200	--	2300	260	75	--	110	--	1200	--	40	--
SEP.												
12...	1300	--	3400	170	39	--	80	--	470	--	15	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	80	0	66	270	2000	--	.4	.81	.00	.05	.17
NOV.											
28...	78	0	64	130	780	--	.4	.84	.00	.03	.24
JAN.											
30...	59	0	48	23	13	--	.3	.81	.09	.18	.48
MAR.											
27...	56	0	46	20	14	--	.1	.71	.06	.24	.07
APR.											
24...	53	0	43	18	11	--	.2	.65	.05	.11	.27
MAY											
23...	57	0	47	16	15	.2	--	.79	.00	.00	.54
JULY											
10...	63	0	52	19	13	--	--	.54	.01	.15	.21
31...	69	--	57	250	1600	--	--	.56	.06	.18	.47
AUG.											
14...	74	--	61	300	2200	--	--	.63	.02	.21	.32
SEP.											
12...	84	--	69	130	770	--	--	.77	.00	.16	.24

01374350 HUDSON RIVER AT VERPLANCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.											
31...	.22	1.0	.11	--	.09	3660	3900	3200	12	3	770
NOV.											
28...	.27	1.1	.12	--	.08	1520	1620	1400	19	17	330
JAN.											
30...	.66	1.6	.07	--	.04	106	115	100	20	18	75
MAR.											
27...	.31	1.1	.08	--	.04	99	132	105	26	25	63
APR.											
24...	.38	1.1	.13	--	.04	91	174	154	56	51	65
MAY											
23...	.54	1.3	.27	.04	--	--	257	156	117	143	--
JULY											
10...	.36	.91	.11	.05	--	--	160	116	33	30	--
31...	.65	1.3	.16	.07	--	--	7440	5800	61	53	--
AUG.											
14...	.53	1.2	.15	.09	--	--	4640	3620	34	24	--
SEP.											
12...	.40	1.2	.21	.09	--	--	1950	1630	0	0	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
31...	700	6340	7.5	--	--	8	.0	1	30	5	<.5
NOV.											
28...	270	2830	7.6	--	--	14	.0	--	--	--	--
JAN.											
30...	26	189	7.2	--	--	13	.0	--	--	--	--
MAR.											
27...	17	181	7.4	--	--	11	.0	--	--	--	--
APR.											
24...	21	170	7.1	--	--	13	.0	--	--	--	--
MAY											
23...	--	169	7.3	--	--	23	.0	--	--	--	--
JULY											
10...	--	196	7.7	4	20	11	--	--	--	--	--
31...	--	5700	7.1	2	30	20	--	1	20	250	<.5
AUG.											
14...	--	6510	--	1	20	21	--	--	--	--	--
SEP.											
12...	--	2440	--	4	40	18	--	3	20	17	1.4

01376269 HUDSON RIVER AT PIERMONT, N.Y.

LOCATION.--Lat 41°02'34", long 73°53'48", Rockland County, at end of pier in Piermont, 0.3 mi (0.5 km) upstream from Sparkill Creek and 1.8 mi (2.9 km) downstream from Tappen Zee Bridge.

DRAINAGE AREA.--13,125 mi^2 (33,994 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.												
10...	1155	1.5	840	110	--	100	--	320	--	2400	--	90
NOV.												
07...	1115	1.4	--	--	--	98	--	280	--	2100	--	80
DEC.												
05...	1225	1.0	520	50	--	65	--	140	--	1200	--	48
MAR.												
06...	1110	4.4	1800	60	--	40	--	70	--	500	--	20
MAY												
01...	1130	4.4	3000	130	40	--	33	--	230	--	9.6	--
29...	1120	1.1	1300	90	26	--	26	--	180	--	7.6	--
JUNE												
26...	1100	2.4	1200	110	72	--	160	--	1300	--	51	--
JULY												
24...	1600	--	980	70	96	--	320	--	2200	--	82	--
AUG.												
21...	1300	--	900	90	130	--	300	--	2500	--	90	--
SEP.												
18...	1500	--	870	50	70	--	200	--	1600	--	60	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
10...	86	0	71	600	4500	--	.6	1.1	.00	.01	.27	.28
NOV.												
07...	98	0	80	26	3900	--	.5	1.3	.00	.13	.36	.49
DEC.												
05...	80	0	66	280	2200	--	.5	.80	.49	.19	.03	.22
MAR.												
06...	65	0	53	150	980	--	.2	.79	.03	.53	.00	.53
MAY												
01...	66	0	54	72	450	.2	--	2.2	.17	.01	1.5	1.5
29...	55	0	45	61	360	.1	--	.42	.01	.27	.62	.89
JUNE												
26...	116	0	95	340	2300	.4	--	.49	.04	1.9	.40	2.3
JULY												
24...	75	0	62	590	4100	--	--	.36	.03	.60	.40	1.0
AUG.												
21...	88	--	72	600	4600	--	--	.56	.01	.39	.25	.64
SEP.												
18...	84	--	69	400	3200	--	--	.75	.01	.32	.45	.77

01376269 HUDSON RIVER AT PIERMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
10...	1.4	.18	--	.12	8060	--	--	14	0	1600	1500
NOV.											
07...	1.8	.19	--	.13	6540	4160	3480	28	18	1400	1300
DEC.											
05...	1.5	.14	--	.10	3970	4210	3550	18	15	740	670
MAR.											
06...	1.3	.18	--	.07	1800	2050	1760	60	53	390	340
MAY											
01...	3.9	.35	.16	--	--	1120	916	106	94	--	--
29...	1.3	.14	.04	--	--	846	696	39	31	--	--
JUNE											
26...	2.8	.32	.22	--	--	5000	4100	26	22	--	--
JULY											
24...	1.4	.23	.14	--	--	8510	6960	35	29	--	--
AUG.											
21...	1.2	.20	.13	--	--	8990	7360	10	7	--	--
SEP.											
18...	1.5	.20	.14	--	--	5620	4720	29	7	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	13500	7.2	--	--	10	--	.0	--	--	--	--
NOV.											
07...	12200	7.3	--	--	10	--	.0	2	--	--	--
DEC.											
05...	6820	7.1	--	--	0	--	.0	--	--	--	--
MAR.											
06...	3430	7.2	--	--	22	--	.0	--	--	--	--
MAY											
01...	1660	7.1	--	--	23	--	.0	--	--	--	--
29...	1300	7.5	--	--	17	--	.0	--	--	--	--
JUNE											
26...	7840	7.3	--	--	6	--	.2	0	20	160	<.5
JULY											
24...	11900	7.2	2	20	10	--	--	--	--	--	--
AUG.											
21...	13300	--	2	20	10	--	--	--	--	--	--
SEP.											
18...	8610	--	2	20	16	4.4	--	3	20	6	.5

01376510 HUDSON RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°55'00", long 73°54'41", Westchester County, at south end of dock at the Westchester County Joint Sewage Treatment Plant at Yonkers-New York City line.

DRAINAGE AREA.--13,183 mi^2 (34,144 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	1200	1.2	480	90	--	130	--	440	--	3300	--	120
NOV.												
28...	1035	1.1	740	80	--	140	--	440	--	3500	--	140
JAN.												
17...	1025	5.6	1900	130	--	74	--	200	--	1700	--	80
30...	1020	4.7	1800	90	--	31	--	36	--	260	--	12
FEB.												
27...	1055	3.8	80	80	--	49	--	95	--	800	--	--
MAR.												
27...	1200	4.5	1800	110	--	20	--	88	--	700	--	30
APR.												
24...	1010	3.8	1600	90	--	83	--	83	--	660	--	27
MAY												
23...	1110	2.7	2500	110	83	--	220	--	2000	--	77	--
JULY												
10...	1400	--	420	70	56	--	160	--	1400	--	53	--
31...	1600	--	480	120	120	--	320	--	2400	--	96	--
AUG.												
14...	1400	--	450	200	110	--	310	--	2500	--	89	--
SEP.												
12...	1400	--	360	50	91	--	230	--	2000	--	82	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	93	0	76	860	6300	--	.7	1.2	.00	.15	.06
NOV.											
28...	93	0	76	920	6800	--	.8	.73	.57	.27	--
JAN.											
17...	67	0	55	400	3000	--	.5	.67	.06	.56	.25
30...	59	0	48	82	500	--	.2	.80	.06	.73	.67
FEB.											
27...	61	0	50	200	1490	--	.2	.72	.01	.35	.36
MAR.											
27...	61	0	5	180	1300	--	.1	.73	.03	.50	.32
APR.											
24...	65	0	53	160	1200	--	.1	.61	.02	.46	.40
MAY											
23...	68	0	56	450	3500	.4	--	.64	.13	.11	.25
JULY											
10...	67	0	55	360	2400	--	--	.40	.01	.45	.36
31...	61	0	50	850	4500	--	--	.35	.03	.50	.37
AUG.											
14...	86	--	71	720	4900	--	--	.38	.05	.90	.40
SEP.											
12...	91	--	75	540	3800	--	--	.62	.05	1.2	.50

01376510 HUDSON RIVER AT YONKERS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA.MG) (MG/L)
OCT.											
31...	.21	1.4	.17	--	.14	11200	21000	11000	21	7	2100
NOV.											
28...	.23	1.5	.19	--	.13	12000	13400	10400	12	9	2200
JAN.											
17...	.81	1.5	.18	--	.09	5490	5920	4910	47	38	1000
30...	1.4	2.3	.22	--	.08	955	1050	909	57	50	230
FEB.											
27...	.71	1.4	.11	--	.05	--	2850	2450	38	31	510
MAR.											
27...	.82	1.6	.17	--	.06	2330	2670	2180	64	63	410
APR.											
24...	.86	1.5	.13	--	.06	2250	2550	2380	48	46	550
MAY											
23...	.36	1.1	.17	.08	--	--	7100	5820	58	43	--
JULY											
10...	.81	1.2	.16	.08	--	--	5180	4060	12	10	--
31...	.87	1.3	.20	.12	--	--	8950	7030	15	11	--
AUG.											
14...	1.3	1.7	.25	.16	--	--	10200	8150	14	9	--
SEP.											
12...	1.7	2.4	.33	.25	--	--	7440	6260	7	4	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
31...	2100	18100	7.2	--	--	6	.0	1	80	--	<.5
NOV.											
28...	2100	18500	7.1	--	--	7	.0	--	--	--	--
JAN.											
17...	950	9230	7.1	--	--	11	.0	--	--	--	--
30...	180	1740	7.0	--	--	22	.0	--	--	--	--
FEB.											
27...	460	4730	7.4	--	--	20	.0	--	--	--	--
MAR.											
27...	410	4160	7.2	--	--	21	.0	--	--	--	--
APR.											
24...	500	3940	7.2	--	--	20	.1	--	--	--	--
MAY											
23...	--	10700	7.4	--	--	11	.4	--	--	--	--
JULY											
10...	--	7880	7.1	2	8	7	--	--	--	--	--
31...	--	13100	7.2	2	9	15	--	1	40	520	<.5
AUG.											
14...	--	14100	--	4	8	12	--	--	--	--	--
SEP.											
12...	--	12000	--	4	5	29	--	1	30	5	.5

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.

LOCATION.--Lat 41°02'39", long 73°59'18", Orange County, at bridge on Orangeburg Road (Veterans Memorial Drive), 300 ft (91 m) west of Hunt Road and 2 mi (3.2 km) west of Orangeburg.

DRAINAGE AREA.--45.8 mi^2 (118.6 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 10...	1120	2.1	880	--	--	28	--	6.1	--	18	--	2.5
NOV. 07...	1035	4.9	--	--	--	32	--	7.9	--	18	--	3.6
DEC. 05...	1120	3.4	1600	290	--	34	--	7.1	--	20	--	3.0
MAR. 06...	1020	2.8	380	70	--	28	--	5.3	--	31	--	2.1
MAY 01...	1025	.1	430	100	27	--	5.2	--	19	--	1.6	--
29...	1045	1.6	590	300	26	--	5.3	--	18	--	1.8	--
JUNE 26...	1020	1.4	640	290	36	--	6.1	--	18	--	1.7	--
JULY 24...	1400	--	560	220	28	--	5.8	--	23	--	2.0	--
AUG. 21...	1200	--	850	460	34	--	6.0	--	19	--	2.1	--
SEP. 18...	1300	--	350	100	26	--	4.4	--	16	--	1.7	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT. 10...	95	0	78	20	30	--	.3	1.6	.00	.07	.40	.47
NOV. 07...	104	0	85	22	31	--	.2	2.2	.00	.00	.42	.42
DEC. 05...	96	0	79	27	34	--	.4	2.3	.00	.02	.46	.48
MAR. 06...	71	0	58	24	58	--	.2	.79	.03	.40	--	.33
MAY 01...	74	0	61	24	36	.0	--	.40	.02	.22	.49	.71
29...	76	0	62	21	33	.2	--	.32	.03	.43	.77	1.2
JUNE 26...	88	0	72	22	33	.2	--	.17	.04	.20	.80	1.0
JULY 24...	89	0	73	26	39	--	--	.03	.01	.33	.77	1.1
AUG. 21...	83	--	68	25	42	--	--	.23	.04	.47	.03	.50
SEP. 18...	80	2	69	21	29	--	--	.30	.04	.35	.54	.89

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
10...	2.1	.09	--	.02	154	194	147	18	6	95	17
NOV.											
07...	2.6	.04	--	.01	171	143	138	47	19	110	27
DEC.											
05...	2.8	.12	--	.02	176	253	215	2	2	110	35
MAR.											
06...	1.1	.05	--	.02	186	214	189	15	9	92	34
MAY											
01...	1.1	.06	.02	--	--	198	160	8	6	--	--
29...	1.6	.10	.04	--	--	192	179	12	6	--	--
JUNE											
26...	1.2	.09	.01	--	--	197	150	16	11	--	--
JULY											
24...	1.1	.09	.01	--	--	309	257	18	11	--	--
AUG.											
21...	.77	.12	.02	--	--	228	181	27	14	--	--
SEP.											
18...	1.2	.05	.06	--	--	189	150	12	8	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
10...	298	7.2	--	--	15	--	.0	--	--	--	--
NOV.											
07...	337	7.3	--	--	14	--	.0	0	--	--	--
DEC.											
05...	330	7.0	--	--	23	--	.0	--	--	--	--
MAR.											
06...	371	7.3	--	--	13	--	.0	--	--	--	--
MAY											
01...	289	7.5	--	--	25	--	.0	--	--	--	--
29...	280	7.3	--	--	16	--	.0	--	--	--	--
JUNE											
26...	300	7.6	--	--	18	--	.0	0	10	94	<.5
JULY											
24...	306	7.3	4	20	24	--	--	--	--	--	--
AUG.											
21...	297	--	6	20	28	--	--	--	--	--	--
SEP.											
18...	270	--	7	9	26	10	--	1	10	3	<.5

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, at gaging station at bridge on Fair Street at intersection with Main Street in Margaretville, and 1.6 mi (2.6 km) downstream from Dry Brook.

DRAINAGE AREA.--163 mi^2 (422 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
25...	1100	24	2.1	--	8.2	--	1.8	--	2.0	--	1.0
NOV.											
27...	1100	153	--	--	7.0	--	2.0	--	--	--	--
DEC.											
18...	1030	380	--	--	5.5	--	1.4	--	--	--	--
JAN.											
22...	1100	505	3.1	--	5.7	--	1.2	--	2.5	--	.8
FEB.											
22...	1010	228	--	--	6.2	--	1.1	--	--	--	--
APR.											
02...	1030	400	--	--	6.0	--	1.2	--	--	--	--
23...	1105	445	--	4.8	--	.7	--	1.4	--	.6	--
MAY											
22...	1115	272	--	10	--	1.1	--	--	--	--	--
JUNE											
18...	1110	218	--	6.1	--	1.3	--	--	--	--	--
JULY											
30...	1230	620	2.9	11	--	1.0	--	1.5	--	1.4	--
AUG.											
27...	1140	64	--	8.3	--	1.6	--	--	--	--	--
SEP.											
18...	1030	153	--	7.7	--	1.8	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
25...	23	0	19	9.0	4.5	--	.3	.14	.00	.14	.00
NOV.											
27...	17	0	14	--	--	--	--	.48	.00	.48	.12
DEC.											
18...	10	0	8	--	--	--	--	.58	.00	.58	.01
JAN.											
22...	11	0	9	8.4	4.1	--	.0	.51	.03	.54	.05
FEB.											
22...	13	0	11	--	--	--	--	.46	.00	.46	.03
APR.											
02...	11	0	9	--	--	--	--	.33	.01	.34	.00
23...	11	0	9	8.2	2.1	.2	--	.32	.02	.34	.12
MAY											
22...	13	0	11	--	--	--	--	.19	.01	.20	.04
JUNE											
18...	18	0	15	--	--	--	--	.34	.01	.35	.09
JULY											
30...	16	0	13	9.6	2.2	.2	--	.35	.02	.37	.28
AUG.											
27...	22	0	18	--	--	--	--	.19	.00	.19	.08
SEP.											
18...	18	0	15	--	--	--	--	.19	.00	.19	.04

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
25...	.08	.08	.22	.00	--	.00	40	0	42	28
NOV.										
27...	.19	.31	.79	.01	--	.00	--	4	60	26
DEC.										
18...	.18	.19	.77	.01	--	.00	--	6	45	20
JAN.										
22...	.33	.38	.92	.03	--	.01	31	5	26	19
FEB.										
22...	.04	.07	.53	.02	--	.00	--	8	35	20
APR.										
02...	.04	.04	.38	.01	--	.01	--	0	35	20
23...	.01	.13	.47	.02	.01	--	--	4	32	--
MAY										
22...	.09	.13	.33	.01	.01	--	--	6	51	--
JUNE										
18...	.13	.22	.57	.02	.01	--	--	2	41	--
JULY										
30...	.44	.72	1.1	.12	.06	--	--	46	90	--
AUG.										
27...	.06	.14	.33	.01	.01	--	--	0	51	--
SEP.										
18...	.03	.07	.26	.01	.01	--	--	1	43	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
25...	9	83	7.1	11.0	10.8	99	.6	1.8	--	62
NOV.										
27...	12	70	6.5	7.0	11.0	96	.5	2.5	--	68
DEC.										
18...	11	60	6.3	.0	13.8	96	--	1.1	--	38
JAN.										
22...	10	64	6.0	2.0	13.0	93	2.9	1.9	--	B610
FEB.										
22...	9	65	6.2	3.0	12.2	92	.0	3.8	--	96
APR.										
02...	11	55	6.4	4.0	12.3	95	2.1	14	--	140
23...	--	45	6.2	9.0	10.9	95	.3	5.0	6.4	13
MAY										
22...	--	52	7.0	14.0	10.4	102	.7	2.2	4.0	56
JUNE										
18...	--	59	7.0	15.0	10.0	100	2.0	.5	1.7	B550
JULY										
30...	--	57	7.0	19.0	8.0	80	--	4.0	1.0	B6000
AUG.										
27...	--	79	7.1	8.0	9.8	104	.8	2.8	2.4	B320
SEP.										
18...	--	71	6.9	14.0	10.5	103	1.0	6.5	7.0	180

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

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, at gaging station 0.5 mi (0.8 km) downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downsville.

DRAINAGE AREA.--371 mi^2 (961 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
25...	1310	20	2.5	--	6.0	--	1.4	--	1.0	--	.9
NOV.											
27...	1305	6.9	--	--	5.5	--	1.7	--	--	--	--
DEC.											
18...	1205	6.9	--	--	5.5	--	1.5	--	--	--	--
JAN.											
22...	1230	7.8	1.6	--	6.0	--	1.5	--	2.0	--	.7
FEB.											
22...	0855	8.0	--	--	6.0	--	1.4	--	--	--	--
APR.											
02...	1255	268	--	--	5.5	--	1.4	--	--	--	--
23...	1255	410	--	4.3	--	1.2	--	1.5	--	.7	--
MAY											
22...	1345	195	--	5.0	--	1.1	--	--	--	--	--
JUNE											
18...	1330	18	--	10	--	2.3	--	--	--	--	--
JULY											
30...	1445	18	1.9	5.1	--	1.4	--	1.5	--	.7	--
AUG.											
27...	1345	18	--	5.7	--	1.1	--	--	--	--	--
SEP.											
18...	1215	18	--	8.0	--	1.4	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
25...	14	0	11	9.0	2.1	--	.4	.40	.00	.41	.24
NOV.											
27...	14	0	11	--	--	--	--	.41	.00	.41	.02
DEC.											
18...	14	0	11	--	--	--	--	.37	.00	.37	.01
JAN.											
22...	14	0	11	8.6	2.4	--	.1	.30	.00	.30	.03
FEB.											
22...	13	0	11	--	--	--	--	.32	.00	.32	.01
APR.											
02...	10	0	8	--	--	--	--	.28	.01	.29	.03
23...	10	0	8	8.5	2.3	.1	--	.28	.00	.28	.06
MAY											
22...	11	0	9	--	--	--	--	.26	.01	.27	.04
JUNE											
18...	26	0	21	--	--	--	--	.13	.01	.14	.06
JULY											
30...	7	0	6	9.2	2.2	.3	--	.33	.01	.34	.01
AUG.											
27...	8	0	7	--	--	--	--	.34	.00	.34	.00
SEP.											
18...	10	0	8	--	--	--	--	.36	.00	.36	.00

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
25...	.96	1.2	1.6	.12	--	.03	30	8	36	21
NOV.										
27...	.00	.02	.43	.00	--	.00	--	5	53	21
DEC.										
18...	.05	.06	.43	.00	--	.00	--	5	43	20
JAN.										
22...	.24	.27	.57	.01	--	.00	30	4	--	21
FEB.										
22...	.15	.16	.48	.01	--	.00	--	0	32	21
APR.										
02...	.05	.08	.37	.01	--	.00	--	2	34	20
23...	.04	.10	.38	.01	.00	--	--	4	--	--
MAY										
22...	.31	.35	.62	.02	.00	--	--	3	50	--
JUNE										
18...	.30	.36	.50	.02	.01	--	--	2	55	--
JULY										
30...	.16	.17	.51	.01	.01	--	--	5	38	--
AUG.										
27...	.05	.05	.39	.01	.00	--	--	1	30	--
SEP.										
18...	.10	.10	.46	.02	.01	--	--	0	34	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
25...	9	60	6.8	7.0	12.7	106	.6	.9	--	<1
NOV.										
27...	9	58	6.7	7.0	11.0	92	1.4	.7	--	<1
DEC.										
18...	8	64	6.2	.0	13.0	90	2.2	2.9	--	<1
JAN.										
22...	10	60	5.9	4.0	12.9	98	1.8	1.5	--	<1
FEB.										
22...	10	61	6.7	3.0	11.8	89	.0	1.7	--	<1
APR.										
02...	11	50	6.1	6.0	12.0	97	1.4	4.3	--	<1
23...	--	50	6.5	5.0	13.0	103	--	5.7	13	<1
MAY										
22...	--	48	7.0	14.0	10.1	99	.6	1.5	2.3	<1
JUNE										
18...	--	58	7.0	7.0	12.0	100	.6	.8	5.5	B1
JULY										
30...	--	56	7.0	7.0	11.0	90	--	2.4	3.6	B30
AUG.										
27...	--	56	7.7	8.0	13.0	111	1.1	.0	3.6	B11
SEP.										
18...	--	57	7.3	6.0	12.3	100	.2	4.5	4.0	<1

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

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, at gaging station 125 ft (38 m) downstream from highway bridge in Cooks Falls, and 5.5 mi (8.8 km) downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi^2 (624 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 24...	1415	85	1.5	20	0	--	6.7	--	1.3	--	4.5
NOV. 19...	1245	211	1.7	10	0	--	6.0	--	1.0	--	2.7
DEC. 19...	1400	532	2.3	20	20	--	5.5	--	1.0	--	1.5
JAN. 22...	1430	895	2.1	130	30	--	5.0	--	1.0	--	3.0
FEB. 20...	1530	472	1.9	80	20	--	5.5	--	.8	--	3.5
MAR. 21...	1430	920	1.8	140	30	--	5.1	--	.9	--	4.2
APR. 17...	1445	1410	1.6	160	20	3.6	--	.8	--	1.1	--
MAY 16...	1050	1120	1.9	80	30	4.8	--	.9	--	1.4	--
JUNE 27...	0930	478	2.0	110	20	5.6	--	1.0	--	1.6	--
JULY 23...	1700	117	--	160	40	7.5	--	1.2	--	4.5	--
AUG. 22...	1345	94	--	40	30	8.5	--	1.3	--	4.0	--
SEP. 18...	1530	209	--	160	40	6.3	--	.9	--	2.0	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 24...	--	.7	17	0	14	8.0	7.0	--	.3	.10	.00
NOV. 19...	--	.6	11	0	9	7.6	4.2	--	.1	.27	.00
DEC. 19...	--	.5	8	0	7	8.7	2.4	--	--	.51	.00
JAN. 22...	--	.5	6	0	5	7.4	5.6	--	.0	.47	.01
FEB. 20...	--	.5	9	0	7	8.1	6.8	--	.1	.48	.00
MAR. 21...	--	.5	7	0	6	7.8	7.9	--	.2	.41	.00
APR. 17...	.5	--	6	0	5	7.5	2.2	.2	--	.38	.01
MAY 16...	.5	--	6	0	5	8.1	1.5	.1	--	.30	.01
JUNE 27...	.4	--	10	0	8	8.5	2.2	.1	--	.19	.02
JULY 23...	.3	--	13	0	11	9.3	7.4	--	--	.18	.01
AUG. 22...	1.2	--	15	0	12	8.5	6.7	--	--	.21	.00
SEP. 18...	.4	--	14	0	11	7.1	2.5	--	--	.13	.00

01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT.										
24...	.01	.07	.08	.18	.06	--	.01	38	55	38
NOV.										
19...	.04	.16	.20	.47	.00	--	.00	29	42	20
DEC.										
19...	.01	.03	.04	.56	.01	--	.01	26	26	16
JAN.										
22...	.06	--	.05	.53	.02	--	.01	28	50	12
FEB.										
20...	.01	.15	.16	.64	.01	--	.00	32	41	32
MAR.										
21...	.05	.09	.14	.55	.01	--	.01	32	45	34
APR.										
17...	.02	.05	.07	.46	.01	.00	--	--	27	26
MAY										
16...	.02	.14	.16	.47	.01	.00	--	--	35	12
JUNE										
27...	.01	.14	.15	.36	.01	.00	--	--	35	20
JULY										
23...	.16	.00	.16	.35	.02	.01	--	--	47	28
AUG.										
22...	.09	.00	.09	.30	.03	.02	--	--	53	2
SEP.										
18...	.05	.27	.32	.45	.03	.01	--	--	32	11

DATE	TOTAL NON-FILTRABLE RESIDUE (MG/L)	FIXED NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.										
24...	0	0	22	8	74	7.7	11.5	--	--	10.8
NOV.										
19...	11	0	18	9	58	7.3	6.5	--	--	12.0
DEC.										
19...	4	3	16	9	52	6.8	.0	--	--	--
JAN.										
22...	1	0	14	9	56	6.5	.0	--	--	14.4
FEB.										
20...	3	2	15	8	63	6.8	.0	--	--	13.8
MAR.										
21...	9	6	14	8	61	6.7	1.0	--	--	9.9
APR.										
17...	3	1	--	--	74	6.9	8.0	--	--	13.0
MAY										
16...	3	1	--	--	48	6.5	12.0	--	--	10.5
JUNE										
27...	2	1	--	--	41	6.7	14.0	--	--	11.1
JULY										
23...	1	0	--	--	74	--	20.0	1	1	9.6
AUG.										
22...	0	4	--	--	75	--	23.0	1	2	9.6
SEP.										
18...	2	1	--	--	65	--	14.0	0	3	10.6

CONTINUED NEXT PAGE

01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 24...	97	5	B150	B3	--	.0	--	--	--	--
NOV. 19...	97	25	B90	14	--	.0	--	--	--	--
DEC. 19...	--	3	--	--	--	.0	--	--	--	--
JAN. 22...	104	4	B100	20	--	.0	--	--	--	--
FEB. 20...	98	2	170	23	--	.0	--	--	--	--
MAR. 21...	81	4	B81	B10	--	.0	--	--	--	--
APR. 17...	115	4	B6	<1	--	.0	1	10	0	<.5
MAY 16...	105	5	430	B7	--	.0	--	--	--	--
JUNE 27...	106	4	B740	90	--	.0	--	--	--	--
JULY 23...	105	5	2800	43	--	--	--	--	--	--
AUG. 22...	108	5	--	B15	1.7	--	1	0	2	<.5
SEP. 18...	109	3	--	B7	--	--	--	--	--	--

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

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, temperature recorder at gaging station on left bank 3,000 ft (914 m) upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mi (1.0 km) upstream from Fish Creek, 4.2 mi (6.8 km) downstream from Beaver Kill and 11 mi (18 km) upstream from the confluence of East and West Branches at Hancock.

DRAINAGE AREA.--783 mi^2 (2,028 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1974.
Water temperatures: November 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.0°C Aug. 14; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 31.0°C July 16-18, 1968; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
24...	1210	133	1.5	10	0	--	7.1	--	1.6	--	4.2
NOV.											
19...	1115	342	1.9	10	0	--	6.5	--	1.2	--	2.2
DEC.											
18...	1145	1200	2.3	1300	90	--	5.0	--	1.2	--	1.3
JAN.											
22...	1145	E1350	2.2	170	30	--	5.5	--	1.2	--	5.0
FEB.											
20...	1300	3160	1.8	40	0	--	5.6	--	1.1	--	3.7
MAR.											
21...	1300	1400	1.7	170	40	--	5.0	--	1.0	--	1.9
APR.											
17...	1230	4440	1.6	190	20	5.6	--	1.2	--	1.0	--
MAY											
16...	1230	2820	1.7	90	30	5.3	--	1.0	--	1.5	--
JUNE											
27...	1230	606	1.8	100	0	5.5	--	1.2	--	3.0	--
JULY											
23...	1400	176	--	90	20	6.5	--	1.3	--	3.0	--
AUG.											
22...	1110	140	--	60	40	8.0	--	1.4	--	3.0	--
SEP.											
18...	1730	300	--	250	70	7.0	--	1.3	--	2.2	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
24...	--	.6	20	0	16	6.7	6.0	--	.2	.08	.00
NOV.											
19...	--	.6	13	0	11	7.4	3.6	--	.2	.26	.00
DEC.											
18...	--	.9	8	0	7	8.4	2.4	--	.2	.54	.00
JAN.											
22...	--	.5	9	0	7	8.1	9.2	--	.1	.49	.00
FEB.											
20...	--	.6	10	0	8	8.5	7.3	--	.2	.44	.00
MAR.											
21...	--	.5	7	0	6	8.4	3.8	--	.1	.35	.00
APR.											
17...	.6	--	8	0	7	8.0	1.8	.1	--	.31	.01
MAY											
16...	.6	--	9	0	7	8.7	1.5	.1	--	.27	.01
JUNE											
27...	.5	--	12	0	10	8.9	3.2	.1	--	.16	.02
JULY											
23...	.6	--	17	0	14	9.3	3.3	--	--	.09	.01
AUG.											
22...	1.3	--	18	0	15	9.1	5.0	--	--	.08	.00
SEP.											
18...	.4	--	15	0	12	7.4	2.8	--	--	.08	.00

E Estimated value.

CONTINUED NEXT PAGE

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT.										
24...	.04	.09	.13	.22	.00	--	.00	38	46	22
NOV.										
19...	.04	.20	.24	.50	.00	--	.00	30	44	28
DEC.										
18...	.04	.10	.14	.68	.01	--	.00	26	48	25
JAN.										
22...	.08	.05	.13	.62	.01	--	.00	36	60	26
FEB.										
20...	.01	.01	.02	.45	.01	--	.00	36	45	29
MAR.										
21...	.04	.06	.10	.45	.01	--	.00	26	50	38
APR.										
17...	.01	.09	.10	.42	.01	.00	--	--	35	25
MAY										
16...	.02	.44	.46	.74	.01	.00	--	--	33	16
JUNE										
27...	.01	.15	.16	.34	.01	.00	--	--	33	24
JULY										
23...	.13	.00	.09	.19	.01	.01	--	--	42	29
AUG.										
22...	.06	.02	.08	.16	.01	.01	--	--	54	52
SEP.										
18...	.05	.02	.07	.15	.02	.01	--	--	36	17

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.										
24...	17	2	24	8	76	7.0	11.0	--	--	11.2
NOV.										
19...	2	2	21	11	59	7.1	6.0	--	--	11.6
DEC.										
18...	9	8	17	11	55	6.9	.0	--	--	14.6
JAN.										
22...	0	0	19	11	75	6.8	.0	--	--	--
FEB.										
20...	0	0	19	10	69	6.8	.0	--	--	13.4
MAR.										
21...	4	3	17	11	48	6.6	2.0	--	--	15.0
APR.										
17...	1	0	--	--	49	6.9	5.5	--	--	13.7
MAY										
16...	6	1	--	--	52	7.5	12.0	--	--	11.8
JUNE										
27...	1	0	--	--	48	8.1	17.0	--	--	10.8
JULY										
23...	4	2	--	--	66	--	22.5	0	1	10.0
AUG.										
22...	1	0	--	--	70	--	23.0	0	2	9.7
SEP.										
18...	1	0	--	--	68	--	16.5	0	20	11.1

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
24...	101	2	B150	B8	--	.0	--	--	--	--
NOV.										
19...	93	3	84	B4	--	.0	--	--	--	--
DEC.										
18...	101	2	--	--	--	.0	--	--	--	--
JAN.										
22...	--	3	620	B200	--	.0	--	--	--	--
FEB.										
20...	98	2	96	42	--	.0	--	--	--	--
MAR.										
21...	95	6	53	20	--	.0	--	--	--	--
APR.										
17...	106	4	B8	<1	--	.0	<1	10	1	<.5
MAY										
16...	118	5	46	B6	--	.0	--	--	--	--
JUNE										
27...	111	4	230	B16	--	.0	--	--	--	--
JULY										
23...	114	5	4800	B10	--	--	--	--	--	--
AUG.										
22...	112	5	--	B9	1.3	--	<1	0	1	<.5
SEP.										
18...	113	4	--	21	--	--	--	--	--	--

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

CONTINUED NEXT PAGE

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	13.0	10.0	8.0	4.5	2.0	2.0	1.0	3.0	0.0	2.0	1.5
2	15.0	14.5	10.0	7.0	2.0	1.0	1.5	0.0	0.5	0.0	2.0	1.0
3	19.0	15.0	9.5	6.5	3.0	0.5	0.5	0.0	0.0	0.0	3.0	1.5
4	19.0	17.0	6.5	4.5	4.5	1.5	0.5	0.0	0.0	0.0	4.0	3.0
5	19.0	15.5	5.0	4.0	9.0	5.0	0.0	0.0	0.0	0.0	5.0	3.5
6	16.5	13.0	4.5	1.5	8.5	5.0	0.0	0.0	0.0	0.0	4.5	2.0
7	15.0	13.5	3.0	1.5	6.0	4.5	0.0	0.0	0.0	0.0	5.5	4.0
8	15.5	13.0	3.5	1.5	5.0	4.0	0.0	0.0	1.5	0.0	5.0	3.0
9	16.0	14.0	3.5	1.0	6.0	4.0	0.0	0.0	1.0	0.0	3.5	2.0
10	18.5	15.5	1.5	0.0	6.5	6.0	0.0	0.0	0.0	0.0	4.0	2.0
11	16.0	14.0	1.5	0.5	6.0	5.0	0.0	0.0	0.0	0.0	3.5	0.5
12	15.5	13.0	3.0	1.0	5.0	4.0	0.0	0.0	0.0	0.0	3.5	1.0
13	15.5	13.0	5.0	3.0	4.0	1.5	0.0	0.0	0.0	0.0	1.5	0.0
14	15.5	13.0	8.5	5.0	4.5	3.0	0.0	0.0	0.0	0.0	2.0	0.0
15	14.0	11.0	9.0	6.5	3.5	1.5	0.0	0.0	0.0	0.0	2.0	0.0
16	11.5	9.5	9.0	5.5	1.5	0.0	0.0	0.0	0.0	0.0	3.0	2.0
17	10.0	8.5	5.5	3.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	0.0
18	8.5	8.0	4.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	3.0	0.0
19	9.5	7.0	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5
20	11.0	8.5	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.5
21	12.0	9.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	3.5	1.0
22	11.5	9.0	6.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
23	12.0	8.5	6.5	5.0	1.0	0.0	0.0	0.0	0.5	0.0	5.5	1.0
24	12.0	8.5	6.5	5.5	1.0	0.0	0.0	0.0	1.0	0.0	4.5	1.5
25	12.0	8.5	7.0	6.5	0.5	0.0	0.0	0.0	1.5	0.5	3.0	0.0
26	13.0	9.5	6.5	5.5	3.0	0.5	0.0	0.0	1.0	0.0	3.5	0.5
27	11.5	9.5	6.5	5.0	4.0	3.0	3.0	0.0	1.5	0.0	4.5	0.5
28	9.5	8.5	8.5	6.5	4.0	3.0	3.0	1.5	2.0	0.0	4.5	1.0
29	9.5	8.5	8.0	4.5	3.5	2.0	3.0	2.0	---	---	3.0	0.0
30	10.5	9.5	5.0	4.0	3.5	1.5	4.0	1.5	---	---	1.0	0.0
31	10.5	8.0	---	---	1.5	1.0	4.0	1.5	---	---	3.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.5	12.0	15.5	14.5	23.5	18.5	24.5	20.0	22.0	18.5
2	---	---	13.5	9.0	15.0	13.0	24.0	18.5	24.5	20.5	20.5	18.5
3	---	---	11.5	9.5	17.0	13.0	25.0	20.5	24.0	21.5	18.5	15.5
4	---	---	13.0	8.0	19.5	14.5	27.0	21.0	24.5	21.5	15.5	14.0
5	---	---	13.0	7.0	21.0	16.0	25.5	22.0	24.0	21.0	18.0	13.0
6	---	---	10.5	8.0	21.5	16.5	26.5	20.5	25.0	20.0	16.0	14.5
7	---	---	8.0	6.5	21.5	16.0	27.0	21.0	24.5	20.5	17.0	14.0
8	---	---	11.0	6.5	24.0	17.0	28.5	22.0	25.0	20.5	20.0	15.0
9	3.0	0.0	10.5	9.5	24.0	18.0	28.5	24.5	24.0	21.5	20.5	16.5
10	5.0	1.0	10.0	9.0	27.0	20.5	28.0	21.0	26.0	21.0	21.0	18.0
11	6.5	2.0	14.5	8.0	25.0	21.5	25.0	20.0	26.0	20.5	21.5	18.0
12	6.5	4.0	13.5	10.5	21.5	18.5	25.0	19.0	26.0	20.0	23.5	19.5
13	8.0	5.0	10.5	9.0	21.0	15.5	26.0	19.5	27.0	21.5	24.5	21.0
14	9.5	5.5	13.5	8.0	20.0	16.5	28.0	21.0	29.0	23.5	23.0	17.0
15	9.0	5.0	16.0	11.0	21.0	16.0	28.0	24.5	28.0	21.5	19.0	15.0
16	7.0	4.5	15.5	11.5	17.0	15.5	26.5	22.0	28.0	21.0	19.0	15.0
17	9.0	4.5	16.5	13.5	19.0	15.0	25.5	20.5	24.5	22.0	18.0	14.5
18	9.0	5.5	18.0	13.5	20.0	16.0	26.0	22.0	25.0	21.0	18.5	16.0
19	9.0	6.0	18.0	14.0	23.5	16.0	27.0	23.5	26.0	20.5	18.5	15.5
20	9.5	4.5	17.0	12.0	22.0	15.0	24.0	20.0	28.0	22.0	19.5	16.0
21	11.0	5.5	17.0	12.0	20.5	17.0	24.5	19.5	28.5	23.5	18.5	15.5
22	11.0	9.5	19.5	15.0	21.0	16.0	26.5	20.0	25.5	23.0	15.5	13.0
23	10.5	9.5	18.5	17.0	19.5	18.0	24.5	21.0	26.5	22.0	13.5	11.0
24	9.5	6.0	17.0	15.0	20.0	15.5	21.5	18.0	25.0	22.0	14.0	9.5
25	10.0	5.0	15.5	13.5	18.5	16.5	21.5	16.5	24.5	20.5	12.0	10.0
26	11.5	8.0	15.0	11.5	16.5	15.0	20.5	19.0	21.5	20.0	14.5	11.0
27	14.5	7.0	14.0	11.5	20.0	15.0	25.5	19.5	24.0	20.5	16.0	11.5
28	16.5	10.0	16.0	11.0	20.5	16.5	26.5	21.5	22.0	20.5	15.5	14.0
29	19.0	14.0	14.5	13.0	19.5	17.0	27.0	23.0	21.5	19.5	15.0	14.0
30	17.0	15.0	19.0	12.0	21.0	16.5	24.0	20.0	21.0	19.5	14.5	11.5
31	---	---	18.5	15.5	---	---	23.5	19.5	20.5	17.0	---	---

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'10", long 75°16'37", Delaware County, at former gaging station on bridge on State Highway 97 in Hancock and 1.2 mi (1.9 km) upstream from confluence with West Branch.

DRAINAGE AREA.--838 mi^2 (2,170 km^2).

PERIOD OF RECORD,--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.										
18...	1645	155	1.2	--	7.5	--	1.7	--	2.2	--
NOV.										
28...	1125	1490	--	--	5.7	--	1.5	--	--	--
DEC.										
19...	1340	790	--	--	5.4	--	.9	--	--	--
JAN.										
23...	1315	1440	2.4	--	5.2	--	1.0	--	3.3	--
FEB.										
27...	0925	1650	--	--	--	--	--	--	--	--
APR.										
03...	1045	2750	--	--	5.0	--	1.1	--	--	--
24...	1055	1770	--	4.3	--	1.0	--	1.3	--	.6
MAY										
23...	0900	1200	--	5.4	--	1.1	--	--	--	--
JUNE										
19...	1710	860	--	10	--	1.0	--	--	--	--
AUG.										
01...	1230	600	2.6	9.4	--	1.0	--	2.0	--	.8
28...	1220	280	--	6.7	--	1.1	--	--	--	--
SEP.										
19...	0845	400	--	7.4	--	1.6	--	--	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
18...	.7	20	0	16	9.0	5.5	--	.3	.04	.00
NOV.										
28...	--	11	0	9	--	--	--	--	.40	.00
DEC.										
19...	--	8	0	7	--	--	--	--	.53	.00
JAN.										
23...	.5	8	0	7	7.8	5.7	--	.1	.44	.00
FEB.										
27...	--	5	0	4	--	--	--	--	.44	.01
APR.										
03...	--	8	0	7	--	--	--	--	.32	.01
24...	--	10	0	8	8.8	2.4	.2	--	.31	.00
MAY										
23...	--	11	0	9	--	--	--	--	.23	.01
JUNE										
19...	--	10	0	8	--	--	--	--	.14	.01
AUG.										
01...	--	11	0	9	10	2.7	.3	--	.21	.01
28...	--	14	0	11	--	--	--	--	.07	.00
SEP.										
19...	--	14	0	11	--	--	--	--	.04	.00

CONTINUED NEXT PAGE

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.										
18...	.04	.01	.10	.11	.15	.00	--	.00	38	--
NOV.										
28...	.40	.10	.14	.24	.64	.00	--	.00	--	6
DEC.										
19...	.53	.02	--	.01	.54	.00	--	.00	--	7
JAN.										
23...	.44	.03	.04	.07	.51	.01	--	.00	30	8
FEB.										
27...	.45	.03	.04	.07	.52	.01	--	.00	--	0
APR.										
03...	.33	.01	.04	.05	.38	.01	--	.01	--	5
24...	.31	.05	.05	.10	.41	.01	.00	--	--	5
MAY										
23...	.24	.03	.10	.13	.37	.01	.00	--	--	4
JUNE										
19...	.15	.17	.02	.19	.34	.01	.00	--	--	2
AUG.										
01...	.22	.07	.06	.13	.35	.02	.01	--	--	11
28...	.07	.08	.06	.14	.21	.01	.01	--	--	1
SEP.										
19...	.04	.04	.06	.10	.14	.00	.01	--	--	1

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
18...	45	26	9	93	6.8	10.0	10.4	93	1.1	B10000
NOV.										
28...	54	20	11	57	7.0	7.0	10.1	84	2.3	B71
DEC.										
19...	39	17	11	58	6.3	.0	13.9	97	3.0	B2
JAN.										
23...	--	17	11	66	6.0	1.0	11.5	81	2.2	B15
FEB.										
27...	31	--	--	39	5.9	.0	12.2	85	.4	22
APR.										
03...	--	17	10	52	6.8	5.0	12.0	95	1.8	B3
24...	27	--	--	47	6.5	7.0	13.5	113	--	B5
MAY										
23...	47	--	--	51	6.8	18.0	8.7	94	1.2	B27
JUNE										
19...	33	--	--	50	7.7	21.0	9.9	110	.6	--
AUG.										
01...	47	--	--	57	7.1	24.0	9.1	107	.8	B40
28...	48	--	--	67	7.5	21.0	9.0	100	1.3	60
SEP.										
19...	42	--	--	66	7.4	16.0	9.2	94	.8	100

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

01421500 EAST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION	DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
May 16 1973	1,600	Asterionella formosa	87	June 12 1973	160	Cymbella	26
July 10 1973	200	Nitzschia	16	Aug. 15 1973	330	Scenedesmus sp.	58
Sept. 12 1973	720	Scenedesmus sp.	54	Oct. 18 1973	210	Sphaerocystis schroeteri	16
Nov. 28 1973	130	Nitzschia	30	Dec. 19 1973	62	Melosira sp.	32
		Achnanthes	20			Navicula spp.	16
		Cymbella	17			Fragilaria sp.	24
Jan. 23 1974	270.0	Chlamydomonas	82	Feb. 27 1974	250.0	Synedra	32
						Achnanthes	16
						Gomphonema	16
Apr. 3 1974	2,300	Ulothrix	30	May 23 1974	2,600	Actinastrum	29
						Cymbella	28
						Asterionella	16
						Navicula	14
						Hannaea Arcus	5
						Fragilaria	3
						Anacystis	2
						Cyclotella	2
						Synedra	1
						Diatoma	1
						Closterium	1
Apr. 24 1974	1,080	Melosira	20	June 19 1974	1,200	Achnanthes	30
		Achnanthes	18			Scenedesmus	21
		Hannaea Arcus	18			Cymbella	18
		Asterionella	16			Kirchneriella	13
						Gomphonema	5
						Anacystis	4
						Navicula	4
						Synedra	4
						Dinobryon	2
Aug. 1 1974	1,800	Achnanthes	38	Aug. 28 1974	1,000	Achnanthes	55
		Schroederia	31			Scenedesmus	26
		Cymbella	8			Cocconeis	6
		Navicula	6			Tetraedron	6
		Pediastrum	6			Nitzschia	3
		Cyclotella	4			Gomphonema	3
		Gomphonema	2				
		Stauroneis	2				
		Trachelomonas	2				
		Haematococcus	2				
Sept. 19 1974	620	Achnanthes	63				
		Scenedesmus	13				
		Gomphonema	9				
		Nitzschia	6				
		Cymbella	6				
		Cosmarium	3				

01422735 WEST BRANCH DELAWARE RIVER ABOVE WALTON, N.Y.

LOCATION.--Lat 42°09'18", long 75°06'40", Delaware County, 0.1 mi (0.2 km) north of River Road opposite roadside park, 0.6 mi (1.0 km) upstream from Walton, 1.5 mi (2.4 km) upstream from East Brook and 2.1 mi (3.4 km) upstream from gaging station (01423000) at Walton.

DRAINAGE AREA.--273 mi^2 (707 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
25...	1445	E30	1.4	--	12	--	3.4	--	3.7	--	1.3
NOV.											
27...	1410	E130	--	--	10	--	3.4	--	--	--	--
DEC.											
18...	1430	E420	--	--	6.5	--	2.0	--	--	--	--
JAN.											
22...	1405	E1100	3.2	--	6.5	--	1.6	--	3.9	--	1.7
FEB.											
26...	1245	E960	--	--	6.2	--	1.7	--	--	--	--
APR.											
02...	1430	E940	--	--	7.0	--	1.8	--	--	--	--
23...	1510	E660	--	6.3	--	1.8	--	2.5	--	1.0	--
MAY											
22...	1525	E470	--	7.5	--	1.8	--	--	--	--	--
JUNE											
19...	1005	E120	--	10	--	2.4	--	--	--	--	--
JULY											
30...	1700	E2470	2.9	6.3	--	1.5	--	2.2	--	2.7	--
AUG.											
27...	1720	E85	--	11	--	2.7	--	--	--	--	--
SEP.											
18...	1435	E340	--	12	--	2.6	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
25...	36	0	30	12	9.5	--	.3	1.0	.00	1.0	.01
NOV.											
27...	26	0	21	--	--	--	--	1.2	.00	1.2	.08
DEC.											
18...	15	0	12	--	--	--	--	1.2	.00	1.2	.05
JAN.											
22...	12	0	10	9.7	6.5	--	.1	.96	.00	.96	.16
FEB.											
26...	10	0	8	--	--	--	--	.99	.01	1.0	.04
APR.											
02...	15	0	12	--	--	--	--	.84	.01	.85	.09
23...	16	0	13	11	4.3	.1	--	.67	.01	.68	.10
MAY											
22...	21	0	17	--	--	--	--	.45	.01	.46	.03
JUNE											
19...	31	0	25	--	--	--	--	.86	.01	.87	.15
JULY											
30...	11	0	9	11	3.9	.3	--	.92	.04	.96	1.3
AUG.											
27...	29	--	--	--	--	--	--	.54	.00	.54	.12
SEP.											
18...	25	0	21	--	--	--	--	.68	.00	.68	.06

E Estimated value.

01422735 WEST BRANCH DELAWARE RIVER ABOVE WALTON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.										
25...	.15	.16	1.2	.01	--	.00	61	8	75	44
NOV.										
27...	.05	.13	1.3	.04	--	.02	--	11	85	39
DEC.										
18...	.09	.14	1.3	.05	--	.03	--	25	79	24
JAN.										
22...	.57	.73	1.7	.13	--	.09	39	32	59	23
FEB.										
26...	.13	.17	1.2	.02	--	.01	--	2	46	22
APR.										
02...	.09	.18	1.0	.02	--	.01	--	2	55	25
23...	.07	.17	.85	.02	.01	--	--	9	45	--
MAY										
22...	.16	.19	.65	.04	.02	--	--	10	73	--
JUNE										
19...	.24	.39	1.3	.06	.04	--	--	6	86	--
JULY										
30...	.00	1.2	2.2	.33	.18	--	--	--	232	--
AUG.										
27...	.13	.25	.79	.04	.03	--	--	0	71	--
SEP.										
18...	.09	.15	.83	.02	.02	--	--	1	59	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
25...	14	135	7.1	13.0	12.8	119	.6	1.9	--	<1
NOV.										
27...	18	112	7.4	7.0	11.5	96	2.3	1.8	--	49
DEC.										
18...	12	86	6.1	.0	13.5	94	1.2	1.7	--	100
JAN.										
22...	13	83	5.9	1.0	13.5	95	3.6	4.6	--	B1200
FEB.										
26...	14	69	5.8	1.0	12.4	88	1.2	1.8	--	B17
APR.										
02...	13	77	6.5	5.0	13.9	110	2.1	5.5	--	35
23...	--	73	6.1	9.0	11.6	101	.0	5.7	8.2	18
MAY										
22...	--	76	7.4	19.0	12.0	130	1.5	4.6	2.5	13
JUNE										
19...	--	111	7.0	18.0	8.5	90	.6	3.0	5.7	58
JULY										
30...	--	72	6.7	19.0	8.2	88	--	18	13	1000
AUG.										
27...	--	112	8.7	22.0	11.0	125	1.1	4.4	1.6	839
SEP.										
18...	--	102	7.4	15.0	12.0	120	.6	3.2	2.0	B100

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

01423010 WEST BRANCH DELAWARE RIVER AT BEERSTON, N.Y.

LOCATION.--Lat 42°07'43", long 75°09'39", Delaware County, at bridge on State Highway 10 in Beerston, at upper end of Cannonsville Reservoir and 4.7 mi (7.6 km) downstream from gaging station (01423000) at Walton.

DRAINAGE AREA.--351 mi^2 (909 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
19...	1055	E46	3.3	--	9.7	--	3.0	--	4.0	--	1.2
NOV.											
27...	1605	E197	--	--	6.7	--	2.6	--	--	--	--
DEC.											
18...	1550	E559	--	--	5.0	--	1.5	--	--	--	--
JAN.											
22...	1530	1340	3.0	--	5.8	--	1.5	--	3.4	--	1.4
FEB.											
26...	1415	E1170	--	--	5.0	--	1.3	--	--	--	--
APR.											
02...	1610	1390	--	--	5.8	--	1.6	--	--	--	--
23...	1700	E810	--	5.1	--	1.6	--	1.6	--	.8	--
MAY											
22...	1700	E542	--	7.4	--	1.8	--	--	--	--	--
JUNE											
19...	1205	E144	--	11	--	2.6	--	--	--	--	--
JULY											
31...	0830	E1030	3.8	7.0	--	1.6	--	2.8	--	1.6	--
AUG.											
27...	1820	E116	--	14	--	3.2	--	--	--	--	--
SEP.											
18...	1605	E329	--	11	--	2.8	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
19...	29	0	24	11	7.5	--	.3	.74	.02	.76	.07
NOV.											
27...	18	0	15	--	--	--	--	.58	.00	.59	.15
DEC.											
18...	8	0	7	--	--	--	--	.62	.00	.62	.04
JAN.											
22...	11	0	9	9.2	5.4	--	.1	.75	.00	.75	.12
FEB.											
26...	7	0	6	--	--	--	--	.62	.01	.63	.03
APR.											
02...	13	0	11	--	--	--	--	.61	.01	.62	.10
23...	14	0	11	9.6	2.9	.0	--	.42	.02	.44	.14
MAY											
22...	21	0	17	--	--	--	--	.40	.01	.41	.04
JUNE											
19...	31	0	25	--	--	--	--	.75	.02	.77	.13
JULY											
31...	15	0	12	10	3.5	.3	--	.68	.02	.70	.22
AUG.											
27...	29	0	24	--	--	--	--	.48	.00	.48	.22
SEP.											
18...	25	0	21	--	--	--	--	.58	.00	.58	.13

E Estimated value.

01423010 WEST BRANCH DELAWARE RIVER AT BEERSTON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
19...	.02	.09	.85	.34	--	.22	55	0	67	37
NOV.										
27...	.05	.20	.79	.06	--	.05	--	7	62	27
DEC.										
18...	.03	.07	.69	.03	--	.02	--	9	46	19
JAN.										
22...	.61	.73	1.5	.14	--	.10	36	16	51	21
FEB.										
26...	.07	.10	.73	.02	--	.01	--	1	33	18
APR.										
02...	.17	.27	.89	.05	--	.02	--	14	53	21
23...	.06	.20	.64	.05	.04	--	--	5	37	--
MAY										
22...	.28	.32	.73	.10	.08	--	--	7	87	--
JUNE										
19...	.38	.51	1.3	.37	.29	--	--	3	79	--
JULY										
31...	.55	.77	1.5	.18	.10	--	--	53	129	--
AUG.										
27...	.06	.28	.76	.19	.16	--	--	1	63	--
SEP.										
18...	.12	.25	.83	.09	.06	--	--	4	63	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
19...	13	114	6.4	10.0	8.9	79	1.9	2.8	--	35
NOV.										
27...	13	77	6.5	8.0	10.5	91	2.3	2.7	--	8210
DEC.										
18...	12	70	6.1	.0	14.0	97	1.3	1.7	--	200
JAN.										
22...	12	72	5.9	1.0	13.0	92	4.4	4.0	--	740
FEB.										
26...	12	59	5.9	1.0	12.6	90	1.6	3.7	--	823
APR.										
02...	10	67	7.4	5.0	12.9	103	2.1	3.8	--	8360
23...	--	58	6.5	9.0	11.6	101	--	5.8	7.7	9190
MAY										
22...	--	75	7.9	19.0	11.0	120	2.2	4.6	8.3	88
JUNE										
19...	--	115	6.9	19.0	9.2	100	2.7	2.3	6.0	285
JULY										
31...	--	78	7.1	14.0	8.2	79	--	9.5	5.5	B3800
AUG.										
27...	--	114	7.1	21.0	8.1	90	2.3	3.0	5.0	440
SEP.										
18...	--	102	7.2	15.0	11.2	110	1.7	4.0	2.0	290

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

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, temperature recorder at gaging station on right bank at Stilesville, 0.5 mi (0.8 km) upstream from Cold Spring Creek, 1.4 mi (2.3 km) downstream from Cannonsville Dam, and 2.0 mi (3.2 km) northeast of Deposit.

DRAINAGE AREA.--456 mi^2 (1,181 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.
Water temperatures: October 1962 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C June 10; minimum, freezing point on several days during December.

Period of record:
Water temperatures: Maximum, 30.5°C July 2, 1963; minimum, freezing point on many days during winter periods, most years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
19...	0935	1270	2.7	--	6.2	--	1.8	--	2.5	--	1.0
NOV.											
28...	0940	35	--	--	7.7	--	2.9	--	--	--	--
DEC.											
18...	1705	E11	--	--	7.9	--	2.3	--	--	--	--
JAN.											
22...	1725	885	2.6	--	6.0	--	1.7	--	2.6	--	1.3
FEB.											
26...	1535	1810	--	--	6.2	--	1.7	--	--	--	--
APR.											
03...	0900	1320	--	--	6.5	--	1.8	--	--	--	--
24...	0820	1060	--	5.3	--	1.6	--	2.2	--	1.0	--
MAY											
22...	1835	830	--	9.9	--	1.7	--	--	--	--	--
JUNE											
19...	1445	28	--	7.7	--	1.8	--	--	--	--	--
JULY											
31...	1100	41	2.3	8.0	--	2.6	--	2.7	--	.9	--
AUG.											
28...	0950	770	--	9.0	--	1.8	--	--	--	--	--
SEP.											
18...	1720	28	--	8.0	--	2.0	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
19...	16	0	13	9.6	3.5	--	.8	.71	.00	.71	.01
NOV.											
28...	21	0	17	--	--	--	--	.42	.00	.43	.10
DEC.											
18...	23	0	19	--	--	--	--	.44	.00	.44	.02
JAN.											
22...	12	0	10	9.9	3.7	--	.2	.65	.00	.65	.07
FEB.											
26...	12	0	10	--	--	--	--	.84	.01	.85	.06
APR.											
03...	15	0	12	--	--	--	--	.65	.01	.66	.06
24...	13	0	11	9.9	3.6	.2	--	.63	.00	.63	.04
MA'											
22...	14	0	11	--	--	--	--	.38	.01	.39	.12
JUNE											
19...	19	0	16	--	--	--	--	.54	.01	.55	.06
JULY											
31...	13	0	11	11	4.4	.2	--	.52	.01	.53	.11
AUG.											
28...	11	0	9	--	--	--	--	.67	.00	.67	.03
SEP.											
18...	15	0	12	--	--	--	--	.48	.00	.48	.06

E Estimated value.

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
19...	.12	.13	.84	.03	--	.01	36	1	51	23
NOV.										
28...	.14	.24	.67	.04	--	.01	--	14	80	31
DEC.										
18...	.11	.13	.57	.01	--	.00	--	5	65	29
JAN.										
22...	.18	.25	.90	.05	--	.02	34	13	35	22
FEB.										
26...	.08	.14	.99	.04	--	.03	--	1	41	22
APR.										
03...	.08	.14	.80	.03	--	.02	--	0	46	24
24...	.14	.18	.81	.03	.01	--	--	2	--	--
MAY										
22...	.33	.45	.84	.04	.01	--	--	6	57	--
JUNE										
19...	.17	.23	.78	.02	.01	--	--	0	52	--
JULY										
31...	.21	.32	.85	.03	.01	--	--	7	59	--
AUG.										
28...	.03	.06	.73	.02	.01	--	--	0	57	--
SEP.										
18...	.13	.19	.67	.01	.01	--	--	1	46	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
19...	10	71	6.3	8.0	5.4	46	.2	2.4	--	B3
NOV.										
28...	14	85	6.7	9.0	9.5	83	1.8	2.9	--	B1
DEC.										
18...	10	96	6.2	.0	13.5	94	1.0	.8	--	B2
JAN.										
22...	12	78	6.2	2.0	13.0	92	2.3	2.1	--	B3
FEB.										
26...	13	78	6.1	2.0	13.4	98	.9	2.6	--	B1
APR.										
03...	11	71	6.4	3.0	12.9	97	1.8	.0	--	B1
24...	--	64	6.5	4.0	13.0	100	--	4.5	10	<11
MAY										
22...	--	62	7.5	14.0	10.1	99	3.1	.0	.0	<1
JUNE										
19...	--	75	7.2	16.0	11.0	110	.6	.4	.2	B8
JULY										
31...	--	78	7.2	11.0	10.0	88	--	14	3.2	25
AUG.										
28...	--	73	7.0	8.0	7.7	65	1.1	2.8	1.6	20
SEP.										
18...	--	76	7.5	12.0	12.2	114	.5	7.6	5.0	360

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

CONTINUED NEXT PAGE

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	9.0	7.0	5.5	3.0	1.5	1.5	3.0	3.0	2.0	2.0
2	9.0	7.0	10.0	6.5	4.0	2.0	1.5	1.5	3.0	3.0	2.0	2.0
3	11.0	8.0	9.0	6.5	5.5	2.0	2.0	1.5	3.0	3.0	2.0	1.5
4	8.0	7.0	6.5	6.0	7.0	4.0	2.0	1.5	3.0	3.0	1.5	1.5
5	9.0	7.0	8.5	6.0	8.5	6.0	1.5	1.5	3.0	3.0	1.5	1.5
6	9.0	7.0	8.5	8.0	8.5	5.0	1.5	1.5	3.0	3.0	1.5	1.5
7	9.5	7.0	8.5	8.0	4.5	4.0	2.0	1.5	3.0	3.0	1.5	1.5
8	10.0	7.0	9.0	8.5	4.0	3.0	2.0	2.0	3.0	3.0	1.5	1.5
9	10.0	8.0	9.0	9.0	4.0	4.0	2.0	2.0	3.0	3.0	1.5	1.5
10	11.5	8.0	9.0	9.0	4.5	4.0	2.0	2.0	3.0	3.0	2.0	1.5
11	8.0	6.5	9.0	9.0	4.5	3.0	2.0	1.5	3.0	3.0	2.0	1.5
12	7.0	6.5	9.0	9.0	3.0	1.5	1.5	1.5	3.0	3.0	2.0	1.5
13	7.0	6.5	9.0	9.0	1.5	1.0	1.5	1.5	3.0	3.0	2.0	2.0
14	8.0	7.0	9.0	9.0	3.0	1.5	1.5	1.0	3.0	3.0	3.0	2.0
15	7.0	7.0	9.0	9.0	1.5	0.5	1.5	1.0	3.0	2.0	3.0	3.0
16	7.0	7.0	9.0	9.0	0.5	0.0	1.5	1.0	2.0	2.0	3.0	3.0
17	7.0	7.0	9.0	8.5	0.0	0.0	1.5	1.0	2.0	2.0	3.0	3.0
18	7.0	7.0	8.5	8.5	0.0	0.0	1.0	1.0	3.0	2.0	3.0	3.0
19	7.0	6.5	8.5	8.5	0.0	0.0	1.0	1.0	3.0	2.0	3.0	3.0
20	7.0	7.0	8.5	6.5	0.0	0.0	1.0	1.0	2.0	2.0	4.0	3.0
21	8.0	7.0	7.0	6.0	0.0	0.0	1.0	1.0	3.5	2.0	3.0	3.0
22	8.0	8.0	8.0	7.0	0.0	0.0	1.0	1.0	3.0	2.0	3.0	2.0
23	8.5	8.0	8.0	8.0	0.0	0.0	1.0	1.0	2.0	2.0	3.0	2.0
24	8.5	8.0	8.0	8.0	0.0	0.0	1.0	1.0	2.0	2.0	3.0	3.0
25	8.5	8.0	8.0	8.0	0.0	0.0	1.0	1.0	2.0	2.0	3.0	2.0
26	8.5	8.0	8.0	7.0	1.5	0.0	1.5	1.0	2.0	2.0	3.0	2.0
27	8.5	8.5	7.0	6.5	1.5	1.5	2.0	1.5	2.0	2.0	3.5	2.0
28	8.5	8.5	8.5	6.5	3.0	1.5	2.0	2.0	2.0	2.0	3.5	3.0
29	8.5	8.0	7.0	5.5	2.0	2.0	2.0	2.0	---	---	3.0	2.0
30	9.0	7.0	6.5	5.5	2.0	0.5	2.0	2.0	---	---	3.0	2.0
31	10.0	6.5	---	---	1.5	0.5	3.0	2.0	---	---	3.5	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	3.5	8.0	6.0	17.0	15.5	18.5	10.5	18.5	9.5	15.5	11.0
2	4.0	3.5	9.0	6.5	16.5	15.0	19.5	10.5	12.0	9.0	15.0	11.0
3	4.5	3.5	8.5	8.0	18.0	15.5	20.0	12.0	14.5	8.5	12.0	11.0
4	4.0	3.5	9.5	7.0	19.0	15.5	21.5	11.5	15.5	10.5	11.5	10.5
5	3.5	3.5	9.5	8.0	19.0	15.5	17.0	11.0	14.0	10.0	17.0	9.5
6	3.5	3.5	9.0	8.5	19.0	14.5	20.5	10.0	17.0	9.5	12.0	9.5
7	3.5	3.5	9.0	8.0	19.0	11.0	21.0	10.5	12.0	8.5	15.0	10.0
8	3.5	3.5	10.5	7.0	18.5	11.0	20.5	10.5	9.5	8.0	16.0	10.0
9	3.5	3.5	9.5	9.0	21.0	11.0	20.0	10.5	9.5	8.0	15.5	10.5
10	3.5	3.5	9.5	9.0	24.0	15.0	14.5	8.0	9.5	8.0	16.0	10.5
11	4.0	3.5	11.5	9.0	18.0	13.0	11.5	7.0	10.5	8.0	16.5	10.5
12	4.0	4.0	10.5	9.5	14.0	10.0	9.0	8.0	10.5	8.0	17.0	11.0
13	4.0	4.0	9.5	8.5	10.0	8.5	8.5	8.0	9.5	8.5	18.0	11.5
14	4.5	4.0	9.5	8.5	9.5	8.5	9.0	8.0	10.0	8.5	13.5	10.5
15	4.0	4.0	9.5	8.5	13.0	8.5	12.0	8.0	9.5	8.0	15.5	9.5
16	4.0	4.0	10.5	9.0	14.0	8.5	12.0	8.0	9.5	8.5	14.5	9.5
17	4.5	4.0	11.5	10.5	19.0	10.5	9.0	8.0	8.5	8.5	12.0	8.5
18	4.5	4.0	13.0	11.0	17.0	10.0	9.0	8.0	9.5	8.5	13.0	9.5
19	5.0	4.5	14.5	12.0	16.0	10.5	8.5	7.0	10.0	8.5	15.5	9.5
20	5.5	5.0	15.0	14.0	16.5	10.5	8.5	8.0	10.0	8.5	11.0	8.5
21	6.0	5.0	15.5	14.5	13.0	10.0	8.5	8.0	9.5	8.5	9.5	8.5
22	5.5	5.0	15.5	14.0	18.5	10.5	9.0	7.0	9.5	8.5	17.0	9.5
23	5.0	5.0	14.0	13.5	14.0	10.5	8.0	7.0	10.0	8.5	16.5	16.0
24	5.0	5.0	15.0	13.5	16.5	9.5	8.0	8.0	8.5	8.5	17.0	16.0
25	5.5	5.0	14.5	13.5	11.5	10.5	8.5	7.0	13.5	9.0	16.5	16.0
26	6.5	5.5	13.5	13.5	11.0	9.5	8.0	8.0	13.0	8.5	16.5	15.5
27	7.0	6.0	14.5	13.5	18.0	9.5	8.5	8.0	13.0	9.0	16.5	13.5
28	8.0	6.0	14.5	14.0	14.5	10.0	9.0	7.0	10.5	9.0	16.0	16.0
29	8.5	6.0	14.0	14.0	15.0	10.5	11.5	8.0	13.0	10.5	16.5	15.5
30	7.0	5.5	16.0	14.0	14.0	8.5	13.0	8.0	12.0	9.5	15.0	14.5
31	---	---	16.0	15.5	---	---	16.0	9.5	13.5	9.0	---	---

01425665 OQUAGA CREEK AT ARCTIC, N.Y.

LOCATION.--Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mi (0.5 km) upstream from small tributary, 0.5 mi (0.8 km) west of Arctic, 1.3 mi (2.1 km) upstream from gaging station (01425675) near North Sanford and 2.6 mi (4.2 km) northeast of North Sanford.

DRAINAGE AREA.--1.15 mi^2 (2.98 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1971, April to August 1973, March to September 1974.

REMARKS.--Analyses of miscellaneous samples published for 1972 water year.

CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR.											
21...	1230	2.8	2.7	--	--	--	4.0	--	1.0	--	1.5
APR.											
24...	1045	1.6	2.7	150	20	5.8	--	1.2	--	1.2	--
MAY											
22...	1400	.70	3.2	400	30	6.4	--	1.1	--	1.7	--
JUNE											
20...	0915	.19	3.6	340	30	5.0	--	1.4	--	2.0	--
JULY											
25...	1530	.10	4.2	250	50	7.4	--	1.4	--	2.5	--
AUG.											
21...	0935	E.00	4.7	1500	220	8.3	--	2.2	--	2.1	--
SEP.											
19...	1230	.12	4.2	230	50	8.0	--	1.9	--	2.0	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
MAR.											
21...	--	3.0	6	0	5	8.5	4.6	--	.0	.14	.00
APR.											
24...	.6	--	8	0	7	8.5	1.6	.2	--	.05	.01
MAY											
22...	.6	--	9	0	7	8.2	.9	.1	--	.00	.01
JUNE											
20...	.3	--	15	0	12	7.4	1.4	.1	--	.08	.00
JULY											
25...	2.5	--	31	0	25	9.4	1.7	.1	--	.07	.00
AUG.											
21...	1.5	--	27	0	22	7.9	5.2	.1	--	.13	.00
SEP.											
19...	.4	--	15	0	12	8.2	1.5	.2	--	.01	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
MAR.											
21...	.14	28	14	9	51	6.5	1.0	--	--	--	--
APR.											
24...	.06	--	--	--	43	6.8	5.5	--	--	--	--
MAY											
22...	.00	--	--	--	44	7.5	18.5	--	--	--	--
JUNE											
20...	.08	--	--	--	51	7.0	16.0	--	--	--	--
JULY											
25...	.07	--	--	--	58	6.2	17.0	--	--	--	--
AUG.											
21...	.13	--	--	--	62	7.0	--	--	--	B120	B214
SEP.											
19...	.01	--	--	--	58	7.0	12.0	10.5	95	B24	45

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

E Estimated value.

01425670 OQUAGA CREEK TRIBUTARY AT ARCTIC, N.Y.

LOCATION.--Lat 42°10'56", long 75°25'16" Broome County, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southwest of Arctic, 0.4 mi (0.6 km) downstream from bridge on East Afton Road, and 2.5 mi (4.0 km) northwest of North Sanford.

DRAINAGE AREA.--2.37 mi^2 (6.14 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1971, April to August 1973, March to September 1974.

REMARKS.--Analyses of miscellaneous samples published for 1972 water year.

CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR. 21...	1320	7.9	2.6	--	--	--	4.4	--	1.3	--	4.9
APR. 24...	1000	4.3	2.7	180	20	3.3	--	1.2	--	1.9	--
MAY 22...	1500	2.0	3.5	300	10	8.5	--	1.4	--	2.7	--
JUNE 20...	0830	.65	3.6	280	90	6.9	--	2.0	--	3.3	--
JULY 25...	1630	.33	4.2	360	40	10	--	2.5	--	4.5	--
AUG. 21...	1320	.09	4.8	550	310	11	--	3.8	--	4.9	--
SEP. 19...	1000	.26	4.1	320	60	9.5	--	2.8	--	4.1	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
MAR. 21...	--	.6	6	0	5	8.5	8.5	--	.1	.19	.00
APR. 24...	.6	--	11	0	9	8.8	2.7	.2	--	.05	.01
MAY 22...	.7	--	14	0	11	8.5	2.4	.1	--	.04	.01
JUNE 20...	.5	--	23	0	19	8.2	3.4	.2	--	.08	.00
JULY 25...	.7	--	28	0	23	10	4.4	.2	--	--	--
AUG. 21...	1.2	--	34	0	28	9.3	6.0	.2	--	.14	.00
SEP. 19...	.8	--	31	0	25	8.2	4.5	.2	--	.05	.00

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
MAR. 21...	.19	34	16	11	64	6.5	1.0	--	--	--	--
APR. 24...	.06	--	--	--	50	6.9	6.0	--	--	--	--
MAY 22...	.05	--	--	--	60	7.8	15.5	--	--	--	--
JUNE 20...	.08	--	--	--	73	7.3	15.0	--	--	--	--
JULY 25...	--	--	--	--	93	6.5	17.0	--	--	--	--
AUG. 21...	.14	--	--	--	110	7.4	16.5	--	--	32	630
SEP. 19...	.05	--	--	--	111	7.1	12.0	10.8	97	830	1500

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

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, temperature recorder at gaging station on left bank 20 ft (6 m) downstream from culvert on North Sanford Road, 0.2 mi (0.3 km) upstream from outlet of Stilson Pond, 1.5 mi (2.4 km) north of North Sanford, and 4.1 mi (6.6 km) upstream from Dry Brook.

DRAINAGE AREA.--4.71 mi^2 (12.2 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1972 to August 1973. March to September 1974.
Water temperatures: October 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 20.0°C June 10, July 4, 5, 9, 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

REMARKS:--Clock stopped Dec. 19-20, range 0.0°C to 1.0°C, and Feb. 6-14, range 0.0°C to 2.5°C.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR.											
21...	1130	8.8	2.9	--	--	--	4.8	--	1.4	--	3.0
APR.											
24...	1200	7.5	2.8	260	50	3.3	--	1.2	--	1.7	--
MAY											
22...	1315	4.3	3.4	420	20	5.7	--	1.4	--	2.2	--
JUNE											
20...	1100	1.2	4.0	28000	580	8.5	--	4.0	--	2.9	--
JULY											
25...	1500	.52	5.0	5300	3000	14	--	7.7	--	4.0	--
AUG.											
21...	1030	.19	5.3	15000	610	22	--	6.6	--	4.0	--
SEP.											
19...	1550	.70	5.5	21000	580	12	--	6.0	--	3.6	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
MAR.											
21...	--	.6	8	0	7	8.9	5.2	--	.0	.16	.00
APR.											
24...	.6	--	10	0	8	9.1	2.1	.1	--	.13	.00
MAY											
22...	.6	--	1	0	1	8.8	1.6	.0	--	.04	.02
JUNE											
20...	1.2	--	23	0	19	15	4.3	.8	--	.25	.01
JULY											
25...	2.9	--	17	0	14	13	4.4	1.0	--	.36	.05
AUG.											
21...	2.5	--	44	0	36	15	5.5	.1	--	.14	.01
SEP.											
19...	1.8	--	39	0	32	10	2.8	.4	--	.08	.05

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
MAR.											
21...	.16	31	18	11	58	6.9	.5	--	--	--	--
APR.											
24...	.13	--	--	--	50	7.0	6.0	--	--	--	--
MAY											
22...	.06	--	--	--	56	7.6	14.0	--	--	--	--
JUNE											
20...	.26	--	--	--	68	6.8	16.0	--	--	--	--
JULY											
25...	.41	--	--	--	99	6.3	15.0	--	--	--	--
AUG.											
21...	.15	--	--	--	106	7.6	18.0	--	--	290	750
SEP.											
19...	.13	--	--	--	130	7.3	15.0	11.3	100	400	B1200

·B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	7.0	7.0	4.5	3.5	2.0	2.0	3.0	2.0	1.0	0.5
2	11.0	9.5	8.0	7.0	3.5	3.0	2.0	2.0	2.0	2.0	0.5	0.5
3	12.0	11.0	8.0	8.0	3.0	3.0	2.0	2.0	2.0	2.0	0.5	0.5
4	12.0	11.5	8.0	7.0	4.0	2.0	2.0	2.0	2.0	2.0	0.5	0.5
5	12.0	10.5	7.0	6.5	5.0	3.5	2.0	2.0	2.0	2.0	1.5	0.5
6	10.5	9.0	6.5	6.0	5.0	4.0	2.0	2.0	---	---	2.0	1.5
7	10.0	9.0	6.0	5.5	4.0	3.5	2.0	2.0	---	---	4.0	2.0
8	10.0	9.0	6.0	6.0	3.5	2.0	2.0	2.0	---	---	4.0	3.0
9	11.0	10.0	6.0	5.5	2.0	2.0	2.0	2.0	---	---	3.0	3.0
10	11.0	10.0	5.5	5.5	2.0	2.0	2.0	2.0	---	---	3.0	2.0
11	10.0	8.5	6.0	5.5	2.0	2.0	2.0	2.0	---	---	2.0	2.0
12	8.5	8.0	6.0	6.0	2.0	0.5	2.0	2.0	---	---	2.0	1.5
13	9.5	8.0	6.5	6.0	0.5	0.5	2.0	2.0	---	---	1.5	1.0
14	9.5	8.5	7.0	6.5	0.5	0.5	2.0	2.0	---	---	1.0	1.0
15	8.5	8.0	8.0	7.0	0.5	0.5	2.0	1.5	0.0	0.0	1.0	1.0
16	8.0	6.5	8.0	7.0	0.5	0.0	1.5	1.5	0.0	0.0	1.0	1.0
17	6.5	6.0	7.0	6.0	0.0	0.0	1.5	1.5	0.0	0.0	1.0	1.0
18	6.5	6.0	6.0	5.5	0.0	0.0	1.5	1.5	0.0	0.0	1.0	0.5
19	6.5	6.0	5.5	5.5	---	---	1.5	1.5	0.0	0.0	0.5	0.5
20	6.5	6.0	5.5	4.5	---	---	1.5	1.5	0.0	0.0	1.0	0.5
21	6.5	6.0	5.0	4.5	1.0	1.0	1.5	1.5	0.0	0.0	1.0	0.5
22	6.0	6.0	5.5	4.5	1.0	1.0	1.5	1.5	0.5	0.0	1.0	0.5
23	6.0	5.5	5.0	5.0	1.0	1.0	1.5	1.5	0.5	0.0	3.0	1.0
24	5.5	5.5	5.0	5.0	1.0	1.0	1.5	1.5	1.0	0.0	3.0	2.0
25	6.0	5.5	5.5	5.0	1.0	1.0	1.5	1.5	1.0	1.0	2.0	2.0
26	7.0	6.0	5.5	5.0	1.0	1.0	1.5	1.5	1.0	1.0	2.0	1.5
27	7.0	6.5	5.0	5.0	3.0	1.0	1.5	1.5	1.0	1.0	3.0	1.5
28	6.5	6.5	6.0	5.0	3.0	3.0	1.5	1.5	1.0	1.0	3.0	1.5
29	7.0	6.5	6.0	5.0	3.0	3.0	2.0	1.5	---	---	2.0	1.5
30	8.0	7.0	5.0	4.5	3.0	3.0	3.0	2.0	---	---	1.5	1.5
31	8.0	7.0	---	---	3.0	2.0	3.5	2.0	---	---	1.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	1.5	12.0	10.5	14.5	14.0	17.0	15.0	18.0	15.0	17.0	16.5
2	3.0	1.5	10.5	8.5	14.5	13.5	17.0	14.0	18.5	15.5	17.0	16.0
3	5.0	1.5	11.0	9.5	14.0	13.5	19.5	16.5	19.0	18.5	17.0	15.0
4	6.0	4.5	10.5	9.5	15.5	13.5	20.0	17.0	19.0	18.5	15.0	14.0
5	6.0	5.0	10.5	8.5	16.0	14.5	20.0	18.5	19.0	16.5	15.5	11.5
6	5.0	3.0	10.5	9.0	16.0	14.5	19.0	16.0	17.0	15.5	14.5	13.0
7	4.5	3.0	9.0	8.5	16.0	15.0	19.0	15.5	17.0	15.5	15.5	13.5
8	4.0	3.5	10.5	8.5	16.0	16.0	19.5	16.5	17.0	15.5	16.5	14.0
9	3.5	3.0	11.0	10.0	18.0	16.0	20.0	17.0	17.0	16.5	16.5	15.0
10	3.5	3.0	10.0	10.0	20.0	18.0	20.0	18.5	18.0	16.5	16.5	15.0
11	5.5	3.0	13.5	9.5	19.5	16.5	18.5	15.5	17.0	15.0	17.0	15.0
12	4.5	3.5	13.0	10.5	16.5	14.0	17.0	14.0	16.5	14.0	18.5	17.0
13	7.0	4.5	10.5	10.0	14.5	12.0	18.0	14.0	19.0	16.5	19.5	18.5
14	8.5	5.0	14.5	9.0	15.0	14.0	19.0	15.5	19.5	18.5	19.5	14.5
15	8.0	5.0	17.0	12.0	16.0	15.0	19.0	18.0	18.0	15.5	14.5	13.0
16	6.5	5.0	16.0	11.5	16.0	16.0	19.0	17.0	18.0	14.5	14.0	13.5
17	8.0	4.5	15.5	13.5	18.0	16.0	17.0	14.0	18.0	17.0	13.5	12.0
18	8.0	5.0	16.0	12.0	18.0	15.0	18.5	16.0	19.0	18.0	14.0	13.5
19	8.0	5.5	15.5	12.0	16.0	15.0	19.5	18.5	18.0	15.5	14.5	13.5
20	8.0	4.5	15.0	11.0	18.0	16.0	18.5	16.0	19.0	16.0	15.5	14.5
21	9.0	5.0	15.5	12.0	17.0	15.5	16.0	14.0	18.5	17.0	15.5	14.0
22	9.0	8.0	15.5	13.5	18.0	15.5	16.5	14.0	18.0	14.5	14.0	11.5
23	8.0	6.5	15.5	14.5	18.0	16.0	16.5	15.5	19.0	17.0	12.0	10.5
24	6.5	6.0	14.5	12.0	16.0	14.0	15.5	15.5	19.0	17.0	11.5	9.0
25	8.0	6.0	13.0	11.0	15.5	15.0	16.0	15.0	17.0	15.0	10.5	10.0
26	8.5	7.0	11.0	11.0	15.0	14.0	16.0	15.5	16.5	14.5	12.0	10.0
27	10.5	7.0	11.0	10.0	15.0	14.0	19.5	16.0	19.0	16.5	14.5	10.5
28	12.0	9.0	12.0	10.5	15.0	14.5	19.5	17.0	18.5	16.5	14.0	13.0
29	13.5	11.0	12.0	11.5	15.0	15.0	19.5	18.0	17.0	16.5	15.5	14.0
30	13.5	12.0	15.0	12.0	15.5	14.5	19.5	17.0	16.5	16.5	14.0	12.0
31	---	---	15.0	14.5	---	---	19.0	16.0	17.0	15.5	---	---

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'11", long 75°23'02" Delaware County, temperature recorder at gaging station at bridge on County Highway 56 in Hale Eddy, 9 mi (14 km) upstream from confluence of East and West Branches of Hancock.

DRAINAGE AREA.--593 mi^2 (1,536 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1974.
Water temperatures: October 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.5°C July 8.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature record Nov. 7 to June 4.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 24...	1015	1340	2.5	560	430	--	6.2	--	1.8	--	3.0
NOV. 19...	0945	814	.8	330	180	--	7.0	--	1.9	--	4.0
DEC. 18...	1020	E230	3.5	90	40	--	6.6	--	2.0	--	3.6
JAN. 22...	1030	1030	2.4	500	60	--	6.0	--	1.8	--	3.7
FEB. 20...	1200	580	2.4	80	20	--	6.6	--	1.8	--	3.3
MAR. 21...	1100	698	2.3	100	50	--	6.5	--	2.1	--	3.4
APR. 17...	1050	3330	2.6	220	60	6.0	--	1.6	--	2.3	--
MAY 16...	1435	2080	2.6	130	70	5.3	--	1.5	--	2.6	--
JUNE 27...	1515	118	2.0	200	50	7.7	--	2.2	--	3.5	--
JULY 23...	1140	1160	--	310	130	8.5	--	1.8	--	2.5	--
AUG. 22...	0900	351	--	140	70	8.9	--	2.0	--	2.5	--
SEP. 18...	1945	45	--	210	60	11	--	2.2	--	4.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 24...	--	.9	15	0	12	7.4	3.5	--	.2	.72	.00
NOV. 19...	--	1.2	18	0	15	8.5	4.5	--	.2	.44	.00
DEC. 18...	--	1.2	13	0	11	12	5.9	--	.2	.82	.04
JAN. 22...	--	1.1	12	0	10	11	6.1	--	.1	.70	.01
FEB. 20...	--	1.2	12	0	10	11	5.9	--	.1	.89	.01
MAR. 21...	--	1.0	14	0	11	10	5.6	--	.2	.67	.01
APR. 17...	1.2	--	14	0	11	11	3.9	.1	--	.63	.01
MAY 16...	.8	--	12	0	10	9.8	3.0	.0	--	.48	.02
JUNE 27...	1.9	--	19	0	16	11	5.5	.1	--	.50	.04
JULY 23...	1.2	--	12	0	10	11	3.7	--	--	.57	.01
AUG. 22...	1.5	--	16	0	13	10	4.0	--	--	.64	.00
SEP. 18...	1.1	--	22	0	18	11	6.3	--	--	.53	.00

E Estimated value.

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 24...	.02	.19	.21	.94	.03	--	.01	33	50	15
NOV. 19...	.06	.00	.06	.50	.02	--	.01	37	61	39
DEC. 18...	.04	.00	.04	.91	.01	--	.00	41	65	47
JAN. 22...	.12	.16	.28	.99	.05	--	.02	38	70	29
FEB. 20...	.04	.14	.18	1.1	.02	--	.02	42	49	31
MAR. 21...	.11	.30	.41	1.1	.02	--	.02	38	60	52
APR. 17...	.04	.17	.21	.85	.05	.01	--	--	41	40
MAY 16...	.06	.25	.31	.81	.03	.01	--	--	49	--
JUNE 27...	.04	.20	.24	.78	.02	.01	--	--	55	38
JULY 23...	.11	.00	.04	.62	.02	.01	--	--	51	30
AUG. 22...	.01	.07	.08	.72	.01	.01	--	--	49	26
SEP. 18...	.12	.13	.25	.78	.03	.01	--	--	63	53

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 24...	6	0	23	11	70	6.5	9.0	--	--	8.6
NOV. 19...	15	14	25	11	76	7.0	8.0	--	--	9.7
DEC. 18...	10	8	25	14	85	6.6	.0	--	--	--
JAN. 22...	8	3	22	13	73	6.8	1.0	--	--	14.8
FEB. 20...	0	0	24	14	77	6.9	1.0	--	--	13.2
MAR. 21...	6	3	25	13	76	6.8	1.0	--	--	13.2
APR. 17...	4	3	--	--	70	7.1	4.5	--	--	13.6
MAY 16...	8	2	--	--	77	7.9	14.0	--	--	10.5
JUNE 27...	4	3	--	--	85	8.3	21.0	--	--	10.2
JULY 23...	3	1	--	--	82	--	10.0	0	2	15.1
AUG. 22...	1	0	--	--	76	--	10.0	0	1	12.1
SEP. 18...	2	1	--	--	110	--	16.0	1	10	11.7

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
24...	74	4	B120	B10	--	.0	--	--	--	--
NOV.										
19...	82	5	B100	B7	--	.0	--	--	--	--
DEC.										
18...	--	3	--	--	--	.0	--	--	--	--
JAN.										
22...	105	6	220	65	--	.0	--	--	--	--
FEB.										
20...	94	5	200	B32	--	.0	--	--	--	--
MAR.										
21...	94	6	72	29	--	.0	--	--	--	--
APR.										
17...	105	5	60	B10	--	.0	1	10	1	<.5
MAY										
16...	103	10	140	B7	--	.0	--	--	--	--
JUNE										
27...	113	7	630	B36	--	.0	--	--	--	--
JULY										
23...	134	6	680	B26	--	--	--	--	--	--
AUG.										
22...	114	5	--	45	1.8	--	0	0	0	<.5
SEP.										
18...	118	5	--	26	--	--	--	--	--	--

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

CONTINUED NEXT PAGE

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.0	8.0	6.0	---	---	---	---	---	---	---	---
2	11.0	7.0	9.5	5.0	---	---	---	---	---	---	---	---
3	17.0	8.0	8.5	5.0	---	---	---	---	---	---	---	---
4	10.5	8.0	5.0	3.5	---	---	---	---	---	---	---	---
5	11.5	7.0	5.0	2.0	---	---	---	---	---	---	---	---
6	11.5	7.0	6.0	5.0	---	---	---	---	---	---	---	---
7	10.5	6.5	---	---	---	---	---	---	---	---	---	---
8	13.0	8.5	---	---	---	---	---	---	---	---	---	---
9	14.0	10.0	---	---	---	---	---	---	---	---	---	---
10	16.5	11.5	---	---	---	---	---	---	---	---	---	---
11	13.0	6.0	---	---	---	---	---	---	---	---	---	---
12	9.0	6.0	---	---	---	---	---	---	---	---	---	---
13	9.5	6.0	---	---	---	---	---	---	---	---	---	---
14	9.5	6.5	---	---	---	---	---	---	---	---	---	---
15	9.5	7.0	---	---	---	---	---	---	---	---	---	---
16	8.5	6.5	---	---	---	---	---	---	---	---	---	---
17	8.5	6.5	---	---	---	---	---	---	---	---	---	---
18	7.0	7.0	---	---	---	---	---	---	---	---	---	---
19	9.0	6.5	---	---	---	---	---	---	---	---	---	---
20	9.0	7.0	---	---	---	---	---	---	---	---	---	---
21	10.5	8.0	---	---	---	---	---	---	---	---	---	---
22	10.0	7.0	---	---	---	---	---	---	---	---	---	---
23	11.0	7.0	---	---	---	---	---	---	---	---	---	---
24	10.5	8.0	---	---	---	---	---	---	---	---	---	---
25	10.5	7.0	---	---	---	---	---	---	---	---	---	---
26	10.5	8.0	---	---	---	---	---	---	---	---	---	---
27	9.5	8.0	---	---	---	---	---	---	---	---	---	---
28	9.5	8.5	---	---	---	---	---	---	---	---	---	---
29	10.0	7.0	---	---	---	---	---	---	---	---	---	---
30	10.0	7.0	---	---	---	---	---	---	---	---	---	---
31	9.5	5.0	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	23.0	15.5	23.5	16.0	19.5	14.0
2	---	---	---	---	---	---	25.5	17.0	23.5	15.0	19.5	15.5
3	---	---	---	---	---	---	26.5	20.0	18.0	11.5	18.0	14.0
4	---	---	---	---	---	---	29.0	21.0	22.0	16.0	14.5	13.0
5	---	---	---	---	21.5	14.5	25.5	22.0	21.5	18.0	18.5	10.5
6	---	---	---	---	22.0	15.0	27.0	19.0	25.0	17.0	15.0	13.0
7	---	---	---	---	21.5	14.5	28.5	19.5	21.5	18.0	18.5	13.0
8	---	---	---	---	21.5	16.0	29.5	20.0	14.5	8.5	21.0	14.5
9	---	---	---	---	25.5	17.0	29.0	21.0	12.0	8.0	21.0	16.0
10	---	---	---	---	28.5	20.0	25.0	13.0	12.0	6.5	21.5	16.0
11	---	---	---	---	23.5	19.5	15.5	7.0	17.0	6.5	23.0	16.0
12	---	---	---	---	19.5	16.0	12.0	5.5	16.0	8.5	24.5	18.0
13	---	---	---	---	16.5	8.0	13.0	5.5	14.0	8.5	25.0	19.5
14	---	---	---	---	11.0	5.5	13.0	6.0	15.5	7.0	22.0	15.0
15	---	---	---	---	13.0	6.0	13.5	7.0	13.5	6.5	19.5	13.0
16	---	---	---	---	15.5	12.0	16.5	13.0	11.0	6.0	19.0	13.5
17	---	---	---	---	23.5	14.5	13.0	6.0	8.5	6.5	18.0	13.0
18	---	---	---	---	21.5	14.5	11.0	6.0	12.0	6.5	17.0	14.0
19	---	---	---	---	20.5	14.5	11.5	6.5	14.0	6.5	19.5	13.5
20	---	---	---	---	23.5	16.5	11.0	6.0	15.0	7.0	16.5	9.0
21	---	---	---	---	19.0	14.5	11.5	5.5	13.5	9.0	11.5	8.0
22	---	---	---	---	20.5	14.0	15.0	6.0	13.5	9.0	14.0	10.0
23	---	---	---	---	18.0	15.0	10.0	6.5	12.0	8.0	14.5	11.5
24	---	---	---	---	20.0	13.0	7.0	6.5	10.5	7.0	16.0	11.0
25	---	---	---	---	18.5	15.0	9.5	6.0	15.5	7.0	14.5	11.5
26	---	---	---	---	17.0	14.0	9.0	6.0	14.5	9.0	16.5	13.0
27	---	---	---	---	21.0	14.0	11.5	6.5	14.0	8.5	18.5	10.5
28	---	---	---	---	21.0	16.0	11.5	6.5	10.0	8.0	16.0	14.0
29	---	---	---	---	19.0	16.0	14.0	6.5	15.0	10.0	18.0	15.5
30	---	---	---	---	19.5	15.0	16.0	9.0	17.0	10.5	16.0	10.5
31	---	---	---	---	---	---	22.0	15.0	14.0	8.0	---	---

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.

LOCATION.--Lat 41°57'08", long 75°17'31", Delaware County, N.Y.-Wayne County, Pa., at former gaging station, at bridge at end of Pennsylvania State Highway 191 in Hancock and 1.3 mi (2.1 km) upstream from confluence with East Branch.

DRAINAGE AREA.--648 mi^2 (1,678 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
19...	0755	1150	2.3	--	6.7	--	1.9	--	2.7	--	1.0
NOV.											
28...	1340	640	--	--	6.5	--	2.4	--	--	--	--
DEC.											
19...	0900	1230	--	--	5.8	--	1.7	--	--	--	--
JAN.											
23...	0845	1520	2.8	--	6.0	--	1.6	--	3.2	--	1.1
FEB.											
27...	0810	2070	--	--	6.0	--	1.7	--	--	--	--
APR.											
03...	1150	2720	--	--	6.0	--	1.6	--	--	--	--
24...	1320	1200	--	5.3	--	1.6	--	2.2	--	1.0	--
MAY											
23...	1030	880	--	6.2	--	1.7	--	--	--	--	--
JUNE											
20...	0830	115	--	13	--	1.4	--	--	--	--	--
AUG.											
01...	1400	130	.7	8.0	--	2.1	--	3.4	--	1.1	--
28...	1130	530	--	8.5	--	1.9	--	--	--	--	--
SEP.											
19...	1045	95	--	8.0	--	2.7	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
19...	16	0	13	9.2	4.1	--	.5	.71	.00	.71	.01
NOV.											
28...	15	0	12	--	--	--	--	.43	.00	.43	.08
DEC.											
19...	11	0	9	--	--	--	--	.60	.00	.60	.05
JAN.											
23...	12	0	10	9.8	5.0	--	.0	.60	.00	.60	.06
FEB.											
27...	11	0	9	--	--	--	--	.78	.01	.79	.05
APR.											
03...	10	0	8	--	--	--	--	.49	.00	.49	.06
24...	12	0	10	10	3.8	.2	--	.57	.00	.57	.06
MAY											
23...	15	0	12	--	--	--	--	.43	.01	.44	.11
JUNE											
20...	11	0	9	--	--	--	--	.31	.01	.32	.11
AUG.											
01...	18	0	15	12	5.3	.2	--	.16	.01	.17	.17
28...	13	0	11	--	--	--	--	.64	.00	.64	.05
SEP.											
19...	22	0	18	--	--	--	--	.25	.00	.25	.14

CONTINUED NEXT PAGE

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
19...	.13	.14	.85	.03	--	.01	36	4	--	25
NOV.										
28...	.04	.12	.55	.02	--	.01	--	8	--	26
DEC.										
19...	--	.04	.64	.01	--	.00	--	6	53	21
JAN.										
23...	.37	.43	1.0	.04	--	.02	35	21	36	22
FEB.										
27...	.10	.15	.94	.03	--	.02	--	1	31	22
APR.										
03...	.10	.16	.65	.02	--	.01	--	7	50	22
24...	.42	.48	1.1	.03	.00	--	--	5	33	--
MAY										
23...	.31	.42	.86	.02	.01	--	--	8	--	--
JUNE										
20...	.13	.24	.56	.01	.00	--	--	0	38	--
AUG.										
01...	.06	.23	.40	.02	.01	--	--	7	55	--
28...	.11	.16	.80	.01	.01	--	--	1	49	--
SEP.										
19...	.00	.12	.37	.01	.01	--	--	1	57	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
19...	11	72	6.7	7.0	9.8	82	1.4	5.4	--	29
NOV.										
28...	14	74	7.2	8.0	10.2	87	4.5	2.7	--	B160
DEC.										
19...	12	98	6.4	.0	13.6	94	.4	.9	--	31
JAN.										
23...	12	72	6.1	1.0	13.5	95	1.9	1.6	--	42
FEB.										
27...	13	73	6.1	.0	13.4	93	.0	1.3	--	26
APR.										
03...	13	63	6.4	6.0	12.0	97	2.5	3.9	--	10
24...	--	60	5.9	5.0	12.7	101	.0	6.8	14	B39
MAY										
23...	--	63	7.5	16.0	9.4	94	2.0	5.2	9.1	80
JUNE										
20...	--	92	7.4	20.0	8.4	91	1.1	2.0	6.7	53
AUG.										
01...	--	83	9.1	24.0	10.8	127	1.8	5.0	2.0	44
28...	--	74	6.9	12.0	10.6	98	.8	.0	.0	B190
SEP.										
19...	--	97	7.1	16.0	10.4	106	1.0	5.3	2.0	33

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

01427207 DELAWARE RIVER AT LORDVILLE, N.Y.

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, temperature recorder at Lordville-Equinuck interstate bridge at Lordville, 50 ft (15 m) downstream from Humphries Brook and 6.5 mi (10.4 km) southeast of Hancock.

DRAINAGE AREA.--1,587 mi^2 (4,110 km^2).

PERIOD OF RECORD.--Water temperatures: October 1967 to August 1971, June 1973 to September 1974.

EXTREMES, 1973-4.--Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1967-70, 73) 28.5°C Aug. 10, 1973; minimum (1967-71, 74), freezing point on many days during winter periods.

REMARKS.--No record Nov. 28 to Dec. 3, and Jan. 26 to Feb. 20. Record considered unreliable May 13 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.0	12.0	9.5	8.5	9.5	---	---	---	2.5	1.5	2.0
2	12.5	11.0	11.5	9.5	8.0	8.5	---	---	---	1.5	0.5	1.0
3	14.5	11.5	12.5	9.0	8.0	8.5	---	---	---	1.5	1.0	1.0
4	15.0	12.0	13.5	8.0	6.0	6.5	4.0	2.5	3.0	1.5	0.5	1.5
5	14.0	12.0	13.0	6.0	5.0	5.5	7.5	4.0	5.5	0.5	0.0	0.0
6	14.0	11.0	12.5	5.0	3.5	4.0	7.5	6.0	7.5	0.5	0.0	0.5
7	13.0	12.0	12.5	4.5	3.5	4.0	6.0	4.5	5.0	1.0	0.0	0.5
8	13.5	11.5	12.0	5.0	4.0	4.5	4.5	3.5	3.5	0.5	0.0	0.0
9	14.5	13.0	13.5	5.5	5.0	5.0	4.5	3.5	3.5	0.0	0.0	0.0
10	16.0	14.0	14.5	5.0	4.0	4.5	5.0	4.5	5.0	0.5	0.0	0.0
11	15.5	13.5	14.0	6.0	4.5	5.0	5.0	3.5	4.0	0.0	0.0	0.0
12	14.0	10.0	11.5	6.5	5.5	6.0	3.5	2.5	3.0	0.0	0.0	0.0
13	11.0	9.5	10.5	7.5	6.5	7.0	2.5	1.5	2.0	0.0	0.0	0.0
14	11.0	10.0	10.5	9.5	8.0	8.5	3.0	2.0	2.5	0.0	0.0	0.0
15	10.0	9.0	9.5	9.0	8.0	8.5	3.0	1.5	2.0	0.0	0.0	0.0
16	9.5	8.0	8.5	9.5	7.0	8.5	1.5	0.5	0.5	0.0	0.0	0.0
17	8.0	7.5	7.5	6.5	5.0	5.5	0.5	0.5	0.5	0.0	0.0	0.0
18	8.0	7.5	7.5	6.0	5.0	5.5	0.5	0.5	0.5	0.0	0.0	0.0
19	8.0	7.0	7.5	7.0	6.0	6.5	0.5	0.5	0.5	0.0	0.0	0.0
20	9.0	8.0	8.5	6.5	5.0	5.5	0.5	0.5	0.5	0.0	0.0	0.0
21	9.5	8.5	9.0	5.0	4.5	4.5	1.0	0.5	0.5	0.0	0.0	0.0
22	9.0	8.0	9.0	6.0	4.5	5.0	0.5	0.5	0.5	0.0	0.0	0.0
23	9.5	8.0	8.5	7.5	6.0	7.0	1.0	0.5	1.0	0.0	0.0	0.0
24	9.5	8.0	9.0	7.0	7.0	7.0	1.0	0.5	0.5	0.0	0.0	0.0
25	9.5	8.5	9.0	7.5	7.0	7.5	0.5	0.5	0.5	0.5	0.0	0.5
26	10.0	8.5	9.0	7.0	6.5	6.5	2.0	0.5	1.0	---	---	---
27	9.5	8.5	9.0	6.5	6.0	6.0	3.5	2.0	3.0	---	---	---
28	8.5	7.5	8.0	---	---	---	4.0	3.5	3.5	---	---	---
29	8.5	7.5	7.5	---	---	---	3.5	3.0	3.0	---	---	---
30	9.0	8.5	9.0	---	---	---	3.5	2.0	3.0	---	---	---
31	9.5	7.5	8.5	---	---	---	2.0	1.5	1.5	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	1.5	2.0	5.0	2.5	4.0	14.0	10.5	12.0
2	---	---	---	2.0	1.5	1.5	4.5	3.5	4.0	11.0	9.5	10.5
3	---	---	---	3.5	2.0	2.5	6.0	3.0	5.0	10.5	9.0	9.5
4	---	---	---	4.0	3.0	3.5	7.5	5.5	6.5	11.0	8.5	9.5
5	---	---	---	4.0	2.0	3.5	7.5	5.0	6.0	11.0	8.0	10.0
6	---	---	---	4.5	3.5	4.0	5.0	3.5	4.5	10.0	8.0	9.0
7	---	---	---	5.0	3.5	4.0	4.5	3.0	3.5	8.0	7.5	8.0
8	---	---	---	3.5	2.0	3.0	4.5	4.0	4.5	10.5	7.0	9.0
9	---	---	---	3.5	2.0	2.5	4.0	2.5	3.0	10.5	10.0	10.0
10	---	---	---	3.5	1.0	2.5	4.0	2.5	3.0	10.0	9.5	10.0
11	---	---	---	3.0	2.0	2.5	5.5	3.0	4.0	13.0	8.5	11.0
12	---	---	---	3.0	0.0	1.0	5.5	4.5	5.0	12.5	10.5	11.5
13	---	---	---	1.5	0.0	0.0	6.5	5.0	6.0	---	---	---
14	---	---	---	2.0	0.5	1.5	8.0	5.5	7.0	---	---	---
15	---	---	---	3.0	2.0	2.5	7.5	5.0	6.5	---	---	---
16	---	---	---	3.0	2.0	2.5	6.5	5.0	5.5	---	---	---
17	---	---	---	2.0	0.0	1.0	7.0	5.0	6.0			
18	---	---	---	3.0	1.0	2.0	7.5	6.0	7.0	---	---	---
19	---	---	---	2.0	1.0	1.5	7.5	6.0	7.0	---	---	---
20	---	---	---	4.0	1.5	3.0	8.0	5.5	7.0	---	---	---
21	1.5	0.0	0.5	2.5	0.5	1.5	9.0	6.5	8.0	---	---	---
22	1.0	0.0	1.0	2.5	1.0	2.0	9.0	8.5	9.0			
23	1.0	0.0	0.5	5.0	1.5	4.0	9.0	7.5	8.5	---	---	---
24	1.5	0.0	1.0	4.0	0.0	2.5	8.0	6.0	7.0	---	---	---
25	2.0	0.0	1.0	3.0	0.5	2.0	8.0	5.5	7.0	---	---	---
26	1.5	0.0	0.5	3.5	1.0	2.5	9.5	8.0	8.5	---	---	---
27	2.0	0.0	1.0	4.0	1.5	3.0	10.5	8.0	9.5			
28	2.0	1.0	2.0	4.5	2.5	3.5	12.0	10.0	11.0	---	---	---
29	---	---	---	3.0	0.0	0.0	14.0	12.0	13.5	---	---	---
30	---	---	---	1.0	0.0	0.0	13.5	12.0	13.0	---	---	---
31	---	---	---	3.0	1.0	2.5	---	---	---	---	---	---

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, temperature recorder at gaging station 500 ft (152 m) downstream from Hollister Creek, 1.3 mi (2.1 km) northwest of Callicoon and 1.4 mi (2.3 km) upstream from Callicoon Creek.

DRAINAGE AREA.--1,706 mi^2 (4,419 km^2).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1974.

EXTREMES.--Period of record:
Water temperatures (1967-73): Maximum, 31.5°C July 23, 1972, Aug. 30,31, 1973; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature record unreliable Oct. 7-23, Dec. 1-5, 19 to Feb. 8, Mar. 13-15, 17 to Apr. 11, May 28, June 3 to July 31, Aug. 27 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	11.0	13.5	9.5	7.5	8.5	---	---	---	---	---	---
2	13.0	12.0	12.5	11.0	6.5	8.5	---	---	---	---	---	---
3	18.0	12.5	15.0	10.0	6.5	8.5	---	---	---	---	---	---
4	17.5	14.0	16.0	6.5	4.5	5.5	---	---	---	---	---	---
5	17.0	11.5	14.5	5.5	4.0	4.5	---	---	---	---	---	---
6	16.5	10.5	13.0	4.5	2.0	3.0	7.5	6.0	6.5	---	---	---
7	---	---	---	3.5	2.0	2.5	6.0	4.0	5.0	---	---	---
8	---	---	---	2.5	1.0	2.0	3.5	2.5	3.0	---	---	---
9	---	---	---	3.5	1.5	2.5	3.5	2.5	3.0	---	---	---
10	---	---	---	3.5	1.0	2.0	4.5	3.5	4.0	---	---	---
11	---	---	---	3.5	1.5	2.5	5.0	4.0	4.5	---	---	---
12	---	---	---	4.5	2.5	3.5	4.0	2.5	3.5	---	---	---
13	---	---	---	5.5	4.0	5.0	2.5	1.5	2.0	---	---	---
14	---	---	---	9.0	5.5	7.0	2.5	2.0	2.5	---	---	---
15	---	---	---	9.0	6.5	8.0	3.0	1.5	2.0	---	---	---
16	---	---	---	8.5	5.5	7.5	1.5	0.0	0.5	---	---	---
17	---	---	---	6.0	4.0	5.0	0.0	0.0	0.0	---	---	---
18	---	---	---	6.0	3.5	5.0	1.5	0.0	0.0	---	---	---
19	---	---	---	7.5	4.0	5.5	---	---	---	---	---	---
20	---	---	---	6.5	1.0	4.0	---	---	---	---	---	---
21	---	---	---	4.0	2.0	3.0	---	---	---	---	---	---
22	---	---	---	6.5	4.0	5.0	---	---	---	---	---	---
23	---	---	---	7.0	4.0	5.5	---	---	---	---	---	---
24	12.0	7.0	9.0	7.0	4.5	6.0	---	---	---	---	---	---
25	11.5	6.5	9.0	7.5	6.5	7.0	---	---	---	---	---	---
26	11.5	7.0	9.5	8.0	5.0	6.5	---	---	---	---	---	---
27	11.0	7.5	9.0	6.0	4.5	5.5	---	---	---	---	---	---
28	8.0	6.5	7.0	8.5	6.0	7.5	---	---	---	---	---	---
29	7.0	6.0	6.5	8.0	4.0	6.5	---	---	---	---	---	---
30	8.5	7.5	8.0	7.5	3.5	5.0	---	---	---	---	---	---
31	10.5	6.5	8.5	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	3.5	2.5	3.0	---	---	---	16.5	12.0	14.0
2	---	---	---	2.5	2.0	2.5	---	---	---	12.0	9.5	11.0
3	---	---	---	2.5	2.5	2.5	---	---	---	10.0	9.0	9.5
4	---	---	---	5.5	2.5	4.0	---	---	---	12.0	8.0	9.5
5	---	---	---	7.0	3.5	5.0	---	---	---	12.0	6.5	9.5
6	---	---	---	5.5	1.5	3.5	---	---	---	9.0	7.0	8.0
7	---	---	---	7.0	4.0	5.0	---	---	---	7.5	6.0	6.5
8	---	---	---	6.5	3.0	4.5	---	---	---	10.5	4.5	7.5
9	1.5	0.0	0.0	3.0	1.5	2.0	---	---	---	10.5	9.5	10.0
10	2.0	0.0	0.0	5.0	1.0	2.5	---	---	---	10.5	9.5	10.0
11	1.0	0.0	0.0	5.0	0.0	3.0	---	---	---	14.5	8.0	11.0
12	1.0	0.0	0.0	5.5	1.0	3.0	8.0	5.5	7.0	11.0	8.5	10.0
13	3.5	0.0	1.0	---	---	---	10.0	7.5	8.5	9.0	8.0	8.5
14	2.0	0.0	0.5	---	---	---	10.5	7.0	8.5	12.5	7.0	9.5
15	1.5	0.0	0.0	---	---	---	10.0	6.0	8.5	15.5	11.5	13.5
16	0.5	0.0	0.0	2.0	0.0	1.5	8.0	5.0	6.5	16.0	12.5	14.5
17	1.0	0.0	0.0	---	---	---	7.5	4.0	6.0	17.5	13.5	15.5
18	3.0	0.0	0.5	---	---	---	8.5	5.5	7.0	18.5	14.5	16.0
19	0.0	0.0	0.0	---	---	---	9.5	7.0	8.0	18.5	14.0	16.0
20	1.0	0.0	0.0	---	---	---	8.0	5.0	6.5	16.0	12.0	14.5
21	5.0	0.0	1.5	---	---	---	10.0	5.0	7.5	15.5	12.0	14.0
22	1.5	0.0	0.0	---	---	---	10.5	8.5	9.5	19.0	14.0	16.0
23	1.5	0.0	1.0	---	---	---	10.5	8.0	10.0	18.5	17.0	18.0
24	2.5	0.0	0.5	---	---	---	8.5	5.5	7.0	19.0	15.5	17.0
25	1.5	0.5	1.0	---	---	---	9.5	4.0	7.0	16.5	14.5	15.5
26	3.0	0.0	1.0	---	---	---	12.0	7.5	9.5	16.0	13.0	14.5
27	3.5	0.0	0.5	---	---	---	12.5	7.0	9.5	14.0	12.0	13.0
28	3.5	0.0	1.5	---	---	---	15.0	9.0	12.0	---	---	---
29	---	---	---	---	---	---	19.0	13.0	15.5	14.5	13.0	14.0
30	---	---	---	---	---	---	16.5	14.5	15.0	20.0	13.0	16.0
31	---	---	---	---	---	---	---	---	---	17.5	15.0	16.0

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	14.5	16.0	---	---	---	24.5	18.5	21.5	---	---	---
2	15.5	14.0	14.5	---	---	---	25.0	20.5	22.5	---	---	---
3	---	---	---	---	---	---	25.0	22.0	23.0	---	---	---
4	---	---	---	---	---	---	25.0	22.0	23.5	---	---	---
5	---	---	---	---	---	---	24.0	20.0	22.0	---	---	---
6	---	---	---	---	---	---	25.0	19.5	22.0	---	---	---
7	---	---	---	---	---	---	25.5	19.5	22.0	---	---	---
8	---	---	---	---	---	---	25.5	20.0	23.0	---	---	---
9	---	---	---	---	---	---	24.0	21.5	23.0	---	---	---
10	---	---	---	---	---	---	25.0	20.0	22.5	---	---	---
11	---	---	---	---	---	---	24.0	17.0	20.5	---	---	---
12	---	---	---	---	---	---	24.5	16.5	20.5	---	---	---
13	---	---	---	---	---	---	25.5	19.5	22.5	---	---	---
14	---	---	---	---	---	---	27.0	21.5	24.0	---	---	---
15	---	---	---	---	---	---	25.5	19.5	22.5	---	---	---
16	---	---	---	---	---	---	25.0	18.0	21.5	---	---	---
17	---	---	---	---	---	---	20.5	16.5	18.0	---	---	---
18	---	---	---	---	---	---	19.0	14.0	16.5	---	---	---
19	---	---	---	---	---	---	22.0	14.5	18.0	---	---	---
20	---	---	---	---	---	---	24.5	18.0	21.0	---	---	---
21	---	---	---	---	---	---	25.5	19.5	22.5	---	---	---
22	---	---	---	---	---	---	23.5	20.0	21.5	---	---	---
23	---	---	---	---	---	---	24.5	20.5	22.0	---	---	---
24	---	---	---	---	---	---	22.0	19.0	20.5	---	---	---
25	---	---	---	---	---	---	22.0	17.0	19.5	---	---	---
26	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

01427500 CALLICOON CREEK AT CALLICOON, N.Y.

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, at gaging station, 0.7 mi (1.1 km) southeast of Callicoon, 0.9 mi (1.4 km) upstream from mouth and 1.0 mi (1.6 km) southwest of Hortonville.

DRAINAGE AREA.--111 mi^2 (287 km^2).

PERIOD OF RECORD.--Chemical analyses, May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
17...	0815	33	2.0	--	10	--	2.1	--	3.2	--	1.6
NOV.											
29...	0955	446	--	--	7.5	--	2.1	--	--	--	--
DEC.											
19...	1630	173	--	--	7.8	--	1.5	--	--	--	--
JAN.											
24...	1630	334	3.2	--	7.5	--	1.5	--	3.7	--	1.4
FEB.											
27...	1210	158	--	--	7.0	--	1.3	--	--	--	--
APR.											
04...	1630	520	--	--	6.7	--	1.4	--	--	--	--
18...	1640	286	2.1	--	6.6	--	1.3	--	2.4	--	1.2
MAY											
23...	1310	130	--	9.8	--	1.5	--	--	--	--	--
JUNE											
20...	1045	92	--	7.6	--	1.4	--	--	--	--	--
AUG.											
01...	1000	103	2.6	9.5	--	1.4	--	3.3	--	1.4	--
15...	1835	28	--	17	--	1.8	--	--	--	--	--
SEP.											
19...	1215	55	--	11	--	1.8	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
17...	26	0	21	10	6.0	--	.3	.69	.00	.69	.01
NOV.											
29...	15	0	12	--	--	--	--	.74	.01	.75	.12
DEC.											
19...	12	0	10	--	--	--	--	1.3	.00	1.3	.03
JAN.											
24...	11	0	9	12	6.1	--	.1	.94	.00	.94	.09
FEB.											
27...	10	0	8	--	--	--	--	1.1	.01	1.1	.11
APR.											
04...	10	0	8	--	--	--	--	.74	.01	.75	.21
18...	11	0	9	11	4.1	--	.1	.81	.01	.82	--
MAY											
23...	19	0	16	--	--	--	--	.70	.01	.71	.03
JUNE											
20...	19	0	16	--	--	--	--	.67	.01	.68	.07
AUG.											
01...	17	0	14	12	4.6	.2	--	.51	.01	.52	.20
15...	22	--	--	--	--	--	--	.50	.02	.52	.19
SEP.											
19...	22	0	18	--	--	--	--	.71	.00	.71	.09

01427500 CALLICOON CREEK AT CALLICOON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.										
17...	.18	.19	.88	.02	--	.00	48	8	73	34
NOV.										
29...	.21	.33	1.1	.05	--	.02	--	--	86	27
DEC.										
19...	.22	.25	1.5	.03	--	.01	--	20	71	26
JAN.										
24...	.42	.51	1.4	.04	--	.01	41	13	34	25
FEB.										
27...	.20	.31	1.4	.02	--	.01	--	2	53	23
APR.										
04...	.06	.27	1.0	.05	--	.03	--	54	83	22
18...	--	--	--	.03	--	.02	34	16	61	22
MAY										
23...	.16	.19	.90	.02	.01	--	--	2	69	--
JUNE										
20...	.28	.35	1.0	.04	.02	--	--	0	78	--
AUG.										
01...	.31	.51	1.0	.04	.01	--	--	14	67	--
15...	.03	.22	.74	.02	.02	--	--	2	67	--
SEP.										
19...	.12	.21	.92	.02	.01	--	--	2	65	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
17...	12	87	7.2	8.0	10.2	91	3.4	2.8	--	27
NOV.										
29...	15	81	7.1	6.0	11.2	91	.7	1.6	--	B270
DEC.										
19...	16	98	6.5	.0	13.5	94	1.4	1.9	--	B52
JAN.										
24...	16	82	6.2	2.0	13.8	99	.6	1.8	--	B58
FEB.										
27...	15	80	6.1	1.0	13.6	97	1.0	3.3	--	14
APR.										
04...	14	64	6.0	9.0	11.1	96	.5	2.4	--	B13
18...	13	67	7.5	11.0	11.0	99	.0	.0	--	B7
MAY										
23...	--	62	7.5	18.0	9.8	103	1.2	5.0	12	B156
JUNE										
20...	--	78	7.5	20.0	9.6	104	.8	1.3	5.0	136
AUG.										
01...	--	76	7.4	18.0	9.8	103	2.4	16	3.2	120
15...	--	100	9.2	26.0	9.2	110	1.5	.4	1.2	64
SEP.										
19...	--	99	7.6	15.0	10.8	108	1.0	5.5	2.0	140

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

01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.

LOCATION.--Lat 41°36'34", long 75°03'44", Sullivan County, N.Y.-Wayne County, Pa., at bridge on U.S. Highway 106 in Narrowsburg, 0.1 mi (0.2 km) downstream from Feagles Lake Outlet.

DRAINAGE AREA.--1,913 mi^2 (4,955 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
16...	1600	E1350	1.7	--	7.2	--	1.8	--	1.7	--	1.0
NOV.											
15...	1005	E1610	--	--	7.0	--	1.8	--	--	--	--
DEC.											
12...	1540	E5430	--	--	6.0	--	1.1	--	--	--	--
JAN.											
18...	1000	E1260	2.7	--	6.0	--	1.5	--	2.6	--	.7
FEB.											
27...	1410	E4580	--	--	--	--	--	--	--	--	--
APR.											
04...	1445	E10400	--	--	5.0	--	1.2	--	--	--	--
18...	1450	9130	1.8	--	5.2	--	1.3	--	1.6	--	.8
MAY											
23...	1440	E2650	--	5.8	--	1.4	--	--	--	--	--
JUNE											
20...	1140	1140	--	5.7	--	1.1	--	--	--	--	--
JULY											
31...	1930	E2040	1.9	7.9	--	2.0	--	2.5	--	1.0	--
AUG.											
15...	1605	E860	--	--	--	1.9	--	--	--	--	--
SEP.											
19...	1420	E560	--	9.1	--	1.8	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
16...	18	0	15	9.6	4.5	--	.3	.45	.00	.46	.00
NOV.											
15...	19	0	16	--	--	--	--	.34	.00	.34	.12
DEC.											
12...	8	0	7	--	--	--	--	.49	.00	.49	.11
JAN.											
18...	11	0	9	9.2	4.5	--	.2	.59	.01	.60	.01
FEB.											
27...	10	0	8	--	--	--	--	.59	.01	.60	.02
APR.											
04...	8	0	7	--	--	--	--	.37	.00	.37	.08
18...	10	0	8	9.2	2.7	--	.1	.38	.01	.39	--
MAY											
23...	12	0	10	--	--	--	--	.30	.01	.31	.06
JUNE											
20...	14	0	11	--	--	--	--	.18	.01	.19	.09
JULY											
31...	14	0	11	11	3.7	.3	--	.28	.01	.29	.09
AUG.											
15...	16	--	--	--	--	--	--	.17	.01	.18	.18
SEP.											
19...	17	0	14	--	--	--	--	.04	.00	.04	.08

E Estimated value.

01427750 DELAWARE RIVER AT NARROWSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA.MG) (MG/L)
OCT.										
16...	.15	.15	.61	.00	--	.00	37	0	42	25
NOV.										
15...	.03	.15	.49	.00	--	.00	--	6	62	25
DEC.										
12...	.08	.19	.68	.01	--	.00	--	6	36	20
JAN.										
18...	.12	.13	.73	.02	--	.00	33	13	63	21
FEB.										
27...	.11	.13	.73	.01	--	.00	--	2	36	--
APR.										
04...	.16	.24	.61	.03	--	.01	--	15	47	17
18...	--	--	--	.02	--	.00	28	6	59	18
MAY										
23...	.13	.19	.50	.02	.00	--	--	4	59	--
JUNE										
20...	.18	.27	.46	.01	.00	--	--	0	48	--
JULY										
31...	.13	.22	.51	.02	.01	--	--	9	53	--
AUG.										
15...	.06	.24	.42	.01	.01	--	--	1	46	--
SEP.										
19...	.13	.21	.25	.02	.01	--	--	2	45	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
16...	11	75	6.9	11.0	10.2	93	2.7	2.0	--	B7
NOV.										
15...	9	73	6.3	9.0	11.0	96	4.5	.5	--	15
DEC.										
12...	13	55	6.9	3.0	12.6	95	1.6	1.0	--	66
JAN.										
18...	12	68	6.2	.0	--	--	--	7.7	--	B9
FEB.										
27...	--	65	6.1	2.0	15.1	110	1.3	2.6	--	B1
APR.										
04...	11	52	6.2	9.0	12.0	104	2.0	7.3	--	39
18...	10	55	7.7	9.0	11.9	102	.0	10	--	B2
MAY										
23...	--	52	7.4	19.0	10.0	108	1.6	.7	9.0	18
JUNE										
20...	--	53	7.5	22.0	9.0	100	1.1	2.1	4.0	B16
JULY										
31...	--	68	7.3	24.0	9.2	108	1.4	4.0	3.0	B80
AUG.										
15...	--	73	8.5	25.0	9.0	107	1.0	.5	1.0	B16
SEP.										
19...	--	75	7.4	19.0	9.2	100	.8	2.8	3.0	25

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

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, temperature recorder at gaging station 1.6 mi (2.6 km) upstream from Lackawaxen River and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi^2 (5,240 km^2).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 29.5°C July 9.

Period of record:
Water temperatures: Maximum, 30.5°C July 22, 23, 1972.

REMARKS.--No water temperature records available for Nov. 8 to May 29.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.0	10.5	8.5	---	---	---	---	---	---	---	---
2	15.5	14.5	10.5	8.0	---	---	---	---	---	---	---	---
3	16.5	15.0	10.0	8.5	---	---	---	---	---	---	---	---
4	17.0	15.0	8.5	6.5	---	---	---	---	---	---	---	---
5	18.0	16.0	7.0	6.0	---	---	---	---	---	---	---	---
6	17.0	15.0	6.0	4.0	---	---	---	---	---	---	---	---
7	15.5	14.0	5.0	4.0	---	---	---	---	---	---	---	---
8	15.0	13.5	---	---	---	---	---	---	---	---	---	---
9	15.5	14.5	---	---	---	---	---	---	---	---	---	---
10	17.0	15.0	---	---	---	---	---	---	---	---	---	---
11	15.5	14.0	---	---	---	---	---	---	---	---	---	---
12	15.5	13.5	---	---	---	---	---	---	---	---	---	---
13	15.0	14.0	---	---	---	---	---	---	---	---	---	---
14	15.0	13.5	---	---	---	---	---	---	---	---	---	---
15	14.0	11.5	---	---	---	---	---	---	---	---	---	---
16	13.0	11.0	---	---	---	---	---	---	---	---	---	---
17	11.0	9.5	---	---	---	---	---	---	---	---	---	---
18	9.5	8.5	---	---	---	---	---	---	---	---	---	---
19	9.5	8.0	---	---	---	---	---	---	---	---	---	---
20	9.5	8.5	---	---	---	---	---	---	---	---	---	---
21	11.0	8.5	---	---	---	---	---	---	---	---	---	---
22	11.0	9.0	---	---	---	---	---	---	---	---	---	---
23	11.5	9.5	---	---	---	---	---	---	---	---	---	---
24	11.5	9.5	---	---	---	---	---	---	---	---	---	---
25	11.5	9.5	---	---	---	---	---	---	---	---	---	---
26	11.5	9.5	---	---	---	---	---	---	---	---	---	---
27	11.5	10.0	---	---	---	---	---	---	---	---	---	---
28	10.0	9.0	---	---	---	---	---	---	---	---	---	---
29	9.5	8.5	---	---	---	---	---	---	---	---	---	---
30	9.5	9.0	---	---	---	---	---	---	---	---	---	---
31	10.5	8.5	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	18.0	16.5	23.0	20.0	24.0	20.5	21.0	19.0
2	---	---	---	---	16.5	16.0	24.5	20.5	24.5	21.0	20.5	18.5
3	---	---	---	---	17.0	15.0	25.5	23.0	25.0	22.0	18.5	17.0
4	---	---	---	---	19.5	16.5	26.5	23.5	24.5	23.0	17.0	15.5
5	---	---	---	---	21.0	18.5	26.0	24.5	24.5	21.5	16.5	14.5
6	---	---	---	---	23.0	19.0	27.0	24.0	24.5	21.5	16.0	15.5
7	---	---	---	---	21.5	19.5	28.0	23.5	24.5	21.0	18.0	15.0
8	---	---	---	---	22.0	19.5	28.5	24.5	25.0	21.5	19.0	16.0
9	---	---	---	---	24.0	20.0	29.5	25.0	24.0	23.0	19.0	17.0
10	---	---	---	---	26.5	22.0	28.5	25.5	25.5	22.0	20.5	18.0
11	---	---	---	---	26.0	24.0	26.5	24.0	25.0	21.5	21.0	18.5
12	---	---	---	---	24.0	22.0	26.0	22.0	24.5	20.5	23.0	19.5
13	---	---	---	---	24.0	19.5	25.5	21.5	25.0	21.5	24.0	20.5
14	---	---	---	---	22.0	20.0	25.5	21.5	26.5	23.0	23.0	19.5
15	---	---	---	---	22.0	19.5	25.5	23.0	26.0	22.0	21.0	18.0
16	---	---	---	---	20.5	19.0	25.0	22.0	26.0	22.0	19.5	17.0
17	---	---	---	---	21.0	18.5	25.5	20.5	24.5	21.0	19.5	16.5
18	---	---	---	---	21.0	19.0	24.5	21.5	21.5	20.0	19.5	17.0
19	---	---	---	---	21.5	19.0	25.5	22.0	22.0	18.5	19.0	16.5
20	---	---	---	---	23.5	20.0	23.5	21.0	24.0	19.5	19.5	17.0
21	---	---	---	---	23.0	21.0	23.5	19.5	25.0	21.0	19.0	17.0
22	---	---	---	---	23.5	20.5	23.5	19.5	24.0	21.5	18.0	15.5
23	---	---	---	---	22.0	20.0	22.0	20.0	25.0	22.0	16.0	13.5
24	---	---	---	---	21.0	18.5	20.5	18.0	24.5	23.0	14.5	11.0
25	---	---	---	---	20.0	18.5	18.0	16.5	24.0	21.0	13.0	11.0
26	---	---	---	---	19.0	18.0	17.0	15.5	21.0	20.0	13.5	11.0
27	---	---	---	---	20.0	17.0	20.0	16.5	23.0	20.0	15.0	11.5
28	---	---	---	---	19.5	18.5	21.0	18.5	22.0	20.5	14.5	13.5
29	---	---	---	---	21.0	18.5	22.0	19.5	21.5	20.0	15.0	14.5
30	---	---	18.0	14.5	22.0	19.0	22.0	20.5	21.0	19.5	14.5	13.5
31	---	---	18.5	16.5	---	---	22.0	20.0	20.5	19.0	---	---

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, at gaging station at bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT. 16...	0800	99	1.5	--	12	--	1.7	--	2.2	--	1.4
NOV. 14...	1705	123	--	--	10	--	1.5	--	--	--	--
DEC. 12...	0610	1330	--	--	9.0	--	1.1	--	--	--	--
JAN. 17...	0745	E320	3.7	--	9.0	--	1.2	--	3.0	--	.8
FEB. 21...	1545	E260	--	--	9.4	--	1.0	--	--	--	--
MAR. 21...	1315	842	--	--	7.7	--	1.0	--	--	--	--
APR. 04...	1125	3820	--	--	--	--	--	--	--	--	--
18...	0900	1020	2.1	--	7.0	--	1.0	--	1.5	--	1.0
MAY 16...	1145	958	--	8.5	--	1.0	--	--	--	--	--
JUNE 13...	1315	143	--	11	--	1.3	--	--	--	--	--
JULY 18...	1205	82	1.9	11	--	1.3	--	3.3	--	1.1	--
AUG. 14...	1815	77	--	10	--	1.4	--	--	--	--	--
SEP. 10...	1315	224	--	9.9	--	1.6	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 16...	31	0	25	11	5.5	--	.4	.15	.00	.15
NOV. 14...	24	0	20	--	--	--	--	.27	.00	.28
DEC. 12...	13	0	11	--	--	--	--	.40	.00	.40
JAN. 17...	16	0	13	11	5.6	--	.1	.51	.05	.56
FEB. 21...	16	0	13	--	--	--	--	.56	.01	.57
MAR. 21...	12	0	10	--	--	--	--	.38	.01	.39
APR. 04...	--	--	--	--	--	--	--	--	--	--
18...	14	0	11	11	2.7	--	.1	.26	.01	.27
MAY 16...	15	0	12	--	--	--	--	.14	.01	.15
JUNE 13...	21	--	--	--	--	--	--	.26	.01	.27
JULY 18...	26	0	21	12	4.7	.1	--	.08	.01	.09
AUG. 14...	28	--	--	--	--	--	--	.01	.01	.02
SEP. 10...	7	0	6	--	--	--	--	.13	.00	.13

E Estimated value.

CONTINUED NEXT PAGE

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.										
16...	.02	.23	.25	.40	.04	--	.03	51	0	57
NOV.										
14...	.11	.05	.16	.44	.05	--	.03	--	4	73
DEC.										
12...	.14	.04	.18	.58	.04	--	.01	--	7	56
JAN.										
17...	.07	.17	.24	.80	.04	--	.02	42	2	65
FEB.										
21...	.06	.17	.23	.80	.03	--	.02	--	9	60
MAR.										
21...	.23	.04	.27	.66	.07	--	.04	--	17	97
APR.										
04...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	.03	--	.01	33	13	--
MAY										
16...	.04	.16	.20	.35	.04	.01	--	--	8	58
JUNE										
13...	.05	.24	.29	.56	.06	.05	--	--	0	50
JULY										
18...	.22	.04	.26	.35	.06	.05	--	--	2	60
AUG.										
14...	.27	.11	.38	.40	.10	.08	--	--	1	74
SEP.										
10...	.18	.14	.32	.45	.05	.02	--	--	4	50

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
16...	37	12	102	6.9	12.0	8.4	77	1.5	--	23
NOV.										
14...	31	11	102	7.0	10.0	11.4	102	3.1	--	10
DEC.										
12...	27	16	70	6.8	2.0	12.7	92	1.3	--	B600
JAN.										
17...	27	14	88	5.9	.0	12.4	86	--	--	B440
FEB.										
21...	28	14	90	6.5	3.0	12.0	90	2.7	--	B4
MAR.										
21...	23	14	62	6.3	3.0	12.8	96	1.6	--	180
APR.										
04...	--	--	60	--	6.0	--	--	1.6	--	--
18...	22	10	60	6.4	9.0	10.8	93	.0	.0	120
MAY										
16...	--	--	58	6.4	18.0	9.4	99	.1	--	210
JUNE										
13...	--	--	90	8.5	22.0	10.4	118	.2	--	29
JULY										
18...	--	--	98	8.2	23.0	10.1	116	2.0	--	14
AUG.										
14...	--	--	102	9.4	26.0	10.2	124	1.0	--	B12
SEP.										
10...	--	--	84	7.1	19.0	9.6	103	1.7	--	90

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

01431500 LACKAWAXEN RIVER AT HAWLEY, PA.--Continued

PHYTOPLANKTON ANALYSES, JUNE 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION	DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
June 20 1973	280	Cymbella	30	July 24 1973	1,400	Scenedesmus spp.	40
Aug. 21 1973	**590**	**Anabaena sp.**	**38**	**Sept. 17 1973**	**2,100**	***Pseudoparachymatous mass**	**73**
		Navicula sp.	**23**				
Oct. 16 1973	6,400	*Pseudoparachymatous mass	94	Nov. 14 1973	290	Melosira	36
						Navicula	16
						Nitzschia	15
Dec. 12 1973	270	Dinobryon sp.	18	Jan. 17 1974	.190	Achnanthes	38
		Navicula sp.	18			Navicula	25
		Asterionella formosa	17				
Feb. 21 1974	520	Fragilaria	46	Mar. 21 1974	860	Fragilaria	33
						Naviculaceae	15
						Cymbella	15
Apr. 18 1974	460	Gomphonema	21.7	May 16 1974	1,900	Navicula	26
		Cymbella	17.4			Cymbella	14
		Navicula	17.4			Scenedesmus	14
		Achnanthes	13.0			Cyclotella	12
		Fragilaria	13.0			Synedra	6
		Dinobryon	8.7			Nitzschia	5
		Synedra	4.3			Terpsinoe	4
		Euglena	4.3			Anacystis	3
						Achnanthes	3
						Meridion	3
						Tabellaria	3
						Ankistrodesmus	2
						Gomphonema	1
						Melosira	1
						Rhoicosphenia	1
						Chodatella	1
June 13 1974	3,100	Actinastrum	27	July 18 1974	2,500	Coelastrum	28
		Scenedesmus	14			Scenedesmus	15
		Navicula	12			Navicula	14
		Cyclotella	12			Pediastrum	12
		Protococcus	11			Nitzschia	8
		Achnanthes	6			Cyclotella	7
		Tetrastrum	5			Achnanthes	6
		Cymbella	4			Gomphonema	3
		Ankistrodesmus	3			Cymbella	2
		Tetraedron	2			Cocconeis	2
		Kirchneriella	2			Kirchneriella	1
		Tabellaria	1			Synedra	1
		Cosmarium	1			Closterium	1
						Selenastrum	1
						Ankistrodesmus	1
Aug. 14 1974	3,600	Scenedesmus	26	Sept. 10 1974	4,000	Gomphosphaeria	56
		Agmenellum	19			Aphanizomenon	12
		Anabaena	15			Anacystis	11
		Coelastrum	13			Scenedesmus	5
		Oscillatoria	9			Nitzschia	3
		Navicula	6			Navicula	3
		Anacystis	3			Achnanthes	2
		Nitzschia	2			Asterionella	2
		Cocconeis	2			Cyclotella	2
		Achnanthes	2			Crucigenia	2
		Ankistrodesmus	2			Oocystis	2
		Cosmarium	1			Cymbella	<1
		Kirchneriella	1			Gomphonema	<1
						Trachelomonas	<1
						Ankistrodesmus	<1

*Possible palmella or juvenile stage of Ulotrichales.

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.

LOCATION.--Lat 41°22'04", long 75°19'10", Pike County, at roadside park 0.9 mi (1.4 km) southeast of Ledgedale and 2.6 mi (4.2 km) downstream from the confluence of East and West Branches.

DRAINAGE AREA.--102 mi^2 (264 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
15...	1700	E52	2.0	--	9.2	--	1.4	--	2.0	--	.8
NOV.											
14...	1505	E98	--	--	8.0	--	1.2	--	--	--	--
DEC.											
11...	1600	E796	--	--	7.0	--	.9	--	--	--	--
JAN.											
17...	0950	E296	3.3	--	7.4	--	1.1	--	2.1	--	.5
FEB.											
21...	1315	E229	--	--	7.7	--	.7	--	--	--	--
MAR.											
21...	1130	E380	--	--	7.4	--	1.1	--	--	--	--
APR.											
04...	1000	E1200	--	--	--	--	--	--	--	--	--
17...	1810	E530	1.9	--	6.3	--	.9	--	1.5	--	.6
MAY											
16...	0900	E480	--	29	--	1.0	--	--	--	--	--
JUNE											
13...	1345	84	--	21	--	1.3	--	--	--	--	--
JULY											
18...	0950	47	1.4	8.6	--	1.0	--	2.4	--	.7	--
AUG.											
15...	0945	49	--	7.2	--	1.3	--	--	--	--	--
SEP.											
10...	1115	230	--	10	--	1.2	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
15...	24	0	20	9.0	4.1	--	.3	.03	.00	.03	.05
NOV.											
14...	18	0	15	--	--	--	--	.18	.00	.18	.05
DEC.											
11...	7	0	6	--	--	--	--	.33	.00	.33	.14
JAN.											
17...	11	0	9	11	4.3	--	.0	.38	.01	.39	.06
FEB.											
21...	11	0	9	--	--	--	--	.47	.00	.47	.07
MAR.											
21...	11	0	9	--	--	--	--	.33	.00	.33	.10
APR.											
04...	--	--	--	--	--	--	--	--	--	--	--
17...	10	0	8	11	3.1	--	.1	.23	.01	.24	--
MAY											
16...	10	0	8	--	--	--	--	.15	.01	.16	.04
JUNE											
13...	15	0	12	--	--	--	--	.18	.01	.19	.07
JULY											
18...	14	0	11	11	4.0	.1	--	.03	.01	.04	.15
AUG.											
15...	14	0	11	--	--	--	--	.00	.01	.01	.14
SEP.											
10...	8	0	7	--	--	--	--	.01	.00	.01	.16

E Estimated value.

01431670 WALLENPAUPACK CREEK AT LEDGEDALE, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.										
15...	.14	.19	.22	.02	--	.00	41	8	59	29
NOV.										
14...	.06	.11	.29	.00	--	.00	--	6	61	25
DEC.										
11...	.03	.17	.50	.02	--	.00	--	8	49	21
JAN.										
17...	.05	.11	.50	.01	--	.00	35	2	55	23
FEB.										
21...	.18	.25	.72	.01	--	.01	--	6	58	22
MAR.										
21...	.00	.10	.43	.01	--	.01	--	18	54	23
APR.										
04...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	.01	--	.01	30	3	46	19
MAY										
16...	.14	.18	.34	.02	.01	--	--	4	45	--
JUNE										
13...	.24	.31	.50	.01	.00	--	--	0	47	--
JULY										
18...	.15	.30	.34	.01	.01	--	--	2	48	--
AUG.										
15...	.11	.25	.26	.01	.01	--	--	2	57	--
SEP.										
10...	.23	.39	.40	.02	.01	--	--	1	36	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
15...	9	85	7.2	15.0	9.4	94	--	2.1	--	82
NOV.										
14...	10	74	7.0	7.0	12.0	100	1.7	.3	--	82
DEC.										
11...	15	59	6.6	3.0	12.5	94	3.5	.0	--	B76
JAN.										
17...	14	71	6.2	.0	14.2	98	--	2.2	--	10
FEB.										
21...	13	71	6.6	.0	12.5	87	1.2	3.9	--	13
MAR.										
21...	14	64	6.3	3.0	9.2	92	9.7	2.3	--	B10
APR.										
04...	--	56	--	5.0	--	--	.0	--	--	--
17...	11	53	6.3	8.0	11.5	96	.0	.0	--	83
MAY										
16...	--	52	6.1	17.0	9.3	96	1.1	.4	.5	35
JUNE										
13...	--	72	7.5	20.0	8.8	96	.8	.4	1.4	<1
JULY										
18...	--	73	7.2	24.0	9.0	106	1.6	6.4	12	140
AUG.										
15...	--	67	7.1	22.0	8.7	99	2.0	3.2	5.2	B7
SEP.										
10...	--	65	7.1	21.0	9.9	110	2.3	11	.0	14

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

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.

LOCATION.--Lat 41°29'12", long 74°59'31", Pike County, at highway bridge in Lackawaxen, 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--597 mi^2 (1,546 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
16...	1200	151	1.4	--	9.0	--	1.5	--	2.0	--	1.0
NOV.											
15...	0800	206	--	--	8.0	--	1.4	--	--	--	--
DEC.											
12...	1205	1540	--	--	7.5	--	1.1	--	--	--	--
JAN.											
24...	1245	3420	2.8	--	7.0	--	1.0	--	2.3	--	.9
FEB.											
21...	1710	2010	--	--	6.6	--	1.0	--	--	--	--
MAR.											
21...	1510	3270	--	--	6.0	--	.9	--	--	--	--
APR.											
04...	1205	--	--	--	--	--	--	--	--	--	--
18...	1100	3500	2.2	--	6.1	--	1.0	--	1.6	--	.8
MAY											
16...	1345	1200	--	12	--	1.1	--	--	--	--	--
JUNE											
13...	1710	270	--	8.7	--	1.2	--	--	--	--	--
20...	0900	E290	--	--	--	--	--	--	--	--	--
JULY											
18...	1440	200	2.3	7.4	--	1.3	--	3.0	--	.9	--
29...	1825	--	--	--	14	--	.0	--	--	--	--
AUG.											
15...	1230	190	--	7.9	--	1.1	--	--	--	--	--
SEP.											
10...	1430	2100	--	7.5	--	1.3	--	--	--	--	--
30...	1630	--	--	--	5.5	--	2.5	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
16...	23	0	19	9.5	4.5	--	.5	.07	.00	.07	.01
NOV.											
15...	19	0	16	--	--	--	--	.11	.00	.12	.08
DEC.											
12...	11	0	9	--	--	--	--	.29	.00	.29	.12
JAN.											
24...	10	0	8	10	3.9	--	.0	.26	.00	.26	.07
FEB.											
21...	10	0	8	--	--	--	--	.27	.00	.27	.07
MAR.											
21...	11	0	9	--	--	--	--	.24	.00	.24	.10
APR.											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	11	0	9	11	3.1	--	.1	.18	.00	.18	--
MAY											
16...	12	0	10	--	--	--	--	.13	.01	.14	.04
JUNE											
13...	15	--	--	--	--	--	--	.12	.00	.12	.04
20...	--	--	--	--	--	--	--	--	--	--	--
JULY											
18...	20	0	16	11	4.2	.1	--	.05	.01	.06	.14
29...	--	--	26	3.0	5.0	--	--	.40	.02	--	.07
AUG.											
15...	12	0	10	--	--	--	--	.06	.01	.07	.15
SEP.											
10...	17	0	14	--	--	--	--	.05	.00	.05	.17
30...	--	--	13	6.0	3.0	--	--	.54	.01	--	.06

E Estimated value.

01432119 LACKAWAXEN RIVER AT MOUTH AT LACKAWAXEN, PA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
16...	.16	.17	.24	.01	--	.00	41	0	55	29
NOV.										
15...	.11	.19	.31	.01	--	.01	--	6	66	26
DEC.										
12...	.00	.12	.41	.03	--	.01	--	7	53	23
JAN.										
24...	.46	.53	.79	.02	--	.00	33	13	28	22
FEB.										
21...	.09	.16	.43	.01	--	.00	--	4	46	21
MAR.										
21...	.10	.20	.44	.02	--	.01	--	7	45	19
APR.										
04...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	.02	--	.01	31	14	62	19
MAY										
16...	.11	.15	.29	.04	.01	--	--	4	51	--
JUNE										
13...	.25	.29	.41	.03	.02	--	--	1	50	--
20...	--	--	--	--	--	--	--	--	--	--
JULY										
18...	.09	.23	.29	.02	.02	--	--	2	52	--
29...	--	--	--	.09	--	--	--	--	--	36
AUG.										
15...	.07	.22	.29	.02	.01	--	--	1	47	--
SEP.										
10...	.13	.30	.35	.03	.01	--	--	3	33	--
30...	--	--	--	.06	--	--	--	--	--	24

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
16...	10	79	7.1	12.0	9.8	91	2.8	4.1	--	B4
NOV.										
15...	10	76	7.1	8.0	11.1	95	5.1	.9	--	B3
DEC.										
12...	14	62	6.8	3.0	12.7	96	2.5	1.1	--	B190
JAN.										
24...	13	64	6.8	1.0	19.1	99	.7	5.7	--	B82
FEB.										
21...	12	60	6.9	1.0	12.4	95	2.9	4.3	--	<1
MAR.										
21...	10	57	6.7	3.0	11.8	89	2.4	5.7	--	B40
APR.										
04...	--	51	--	7.0	--	--	2.4	--	--	--
18...	10	56	6.4	9.0	12.0	103	.0	.8	--	65
MAY										
16...	--	54	6.4	18.0	10.3	106	1.1	3.0	5.0	48
JUNE										
13...	--	86	8.6	23.0	9.1	88	.9	1.4	3.0	B19
20...	--	--	--	--	--	--	--	--	--	--
JULY										
18...	--	86	7.4	24.0	8.3	95	.7	3.2	4.0	20
29...	--	93	7.8	22.0	--	--	--	--	--	--
AUG.										
15...	--	66	7.0	22.0	9.4	107	.8	2.0	1.2	B7
SEP.										
10...	--	65	7.4	20.0	8.5	92	1.5	3.6	.8	B8
30...	--	190	6.7	11.0	--	--	--	--	--	--

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

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft (305 m) upstream of Shohola Brook.

DRAINAGE AREA.--2,692 mi^2 (6,972 km^2).

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958, May 1973 to September 1974.
Water temperatures: October 1967 to September 1973.(discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
16...	1410	E1820	1.5	--	7.2	--	1.8	--	2.0	--	1.0
NOV.											
15...	1345	E2080	--	--	7.0	--	1.7	--	--	--	--
DEC.											
12...	1405	E7760	--	--	6.5	--	1.1	--	--	--	--
JAN.											
17...	1530	E4280	2.6	--	6.1	--	1.2	--	2.4	--	.7
FEB.											
20...	1415	E3820	--	--	6.2	--	1.2	--	--	--	--
MAR.											
21...	1600	E7300	--	--	6.0	--	1.1	--	--	--	--
APR.											
18...	1300	E11800	1.9	--	5.9	--	1.2	--	1.6	--	.8
MAY											
16...	1535	E8670	--	5.9	--	1.2	--	--	--	--	--
JUNE											
12...	0830	1360	--	10	--	1.7	--	--	--	--	--
JULY											
18...	1550	E1430	1.8	6.1	--	1.6	--	2.9	--	.8	--
AUG.											
15...	1200	1200	--	7.8	--	1.6	--	--	--	--	--
SEP.											
10...	1530	E3030	--	13	--	1.8	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
16...	18	0	15	9.5	4.4	--	.3	.39	.00	.39	.02
NOV.											
15...	19	0	16	--	--	--	--	.28	.00	.28	.08
DEC.											
12...	9	0	7	--	--	--	--	.39	.00	.39	.13
JAN.											
17...	11	0	9	10	4.3	--	.1	.36	.01	.37	.04
FEB.											
20...	10	0	8	--	--	--	--	.38	.00	.38	.03
MAR.											
21...	10	0	8	--	--	--	--	.28	.00	.28	.08
APR.											
18...	10	0	8	9.8	3.0	--	.1	.28	.01	.29	--
MAY											
16...	11	0	9	--	--	--	--	.25	.01	.26	.04
JUNE											
12...	13	0	11	--	--	--	--	.14	.01	.15	.04
JULY											
18...	15	0	12	10	3.9	.1	--	.26	.01	.27	.16
AUG.											
15...	17	0	14	--	--	--	--	.13	.01	.14	.15
SEP.											
10...	16	0	13	--	--	--	--	.10	.00	.10	.11

E Estimated value.

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.--Continued

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
16...	.12	.14	.53	.00	--	.00	37	20	50	25
NOV.										
15...	.08	.16	.44	.00	--	.00	--	4	62	24
DEC.										
12...	.07	.20	.59	.02	--	.00	--	6	40	21
JAN.										
17...	.05	.09	.46	.02	--	.00	33	0	50	20
FEB.										
20...	.18	.21	.59	.01	--	.00	--	0	41	20
MAR.										
21...	.14	.22	.50	.02	--	.00	--	8	30	20
APR.										
18...	--	--	--	.02	--	.01	29	12	42	20
MAY										
16...	.09	.13	.39	.03	.01	--	--	7	45	--
JUNE										
12...	.18	.22	.37	.01	.01	--	--	0	37	--
JULY										
18...	.08	.24	.51	.01	.01	--	--	1	56	--
AUG.										
15...	.09	.24	.38	.01	.01	--	--	1	62	--
SEP.										
10...	.00	.11	.21	.02	.01	--	--	1	39	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
16...	11	77	6.9	12.0	10.4	97	2.3	1.3	--	B4
NOV.										
15...	9	72	6.9	10.0	11.9	106	1.6	.3	--	B2
DEC.										
12...	13	64	6.5	3.0	12.5	94	1.4	1.5	--	B120
JAN.										
17...	11	73	6.5	.0	14.0	97	--	2.3	--	13
FEB.										
20...	12	57	6.8	2.0	14.1	103	2.1	2.0	--	B6
MAR.										
21...	11	58	7.1	3.0	13.9	104	1.8	5.2	--	B31
APR.										
18...	11	55	6.2	8.0	11.4	96	2.4	.0	--	22
MAY										
16...	--	52	6.5	17.0	10.0	101	.0	.1	3.6	30
JUNE										
12...	--	66	7.1	19.0	9.4	99	2.5	.5	1.2	22
JULY										
18...	--	78	7.7	26.0	9.2	112	.4	.8	1.2	11
AUG.										
15...	--	72	7.4	25.0	8.8	103	.8	.0	-1.2	B13
SEP.										
10...	--	63	7.4	20.0	9.4	102	1.3	2.4	.0	12

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

01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.

LOCATION.--Lat 41°40'07", long 74°46'52", Sullivan County, at bridge on State Highway 17B at Mongaup Valley.

DRAINAGE AREA.--76.5 mi^2 (198 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT. 17...	1410	66	2.6	--	7.7	--	1.8	--	6.7	--	1.6
NOV. 13...	1345	64	--	--	7.7	--	1.8	--	--	--	--
DEC. 13...	1410	225	--	--	7.0	--	1.4	--	--	--	--
JAN. 15...	1620	139	4.1	--	7.0	--	1.6	--	5.5	--	1.1
FEB. 19...	1510	108	--	--	7.4	--	1.4	--	--	--	--
MAR. 19...	1410	285	--	--	6.0	--	1.3	--	--	--	--
APR. 16...	1600	350	1.9	--	5.5	--	1.2	--	4.0	--	1.3
MAY 14...	1600	370	--	11	--	1.2	--	--	--	--	--
JUNE 11...	1520	80	--	7.7	--	1.6	--	--	--	--	--
JULY 16...	1605	66	4.0	9.6	--	1.6	--	7.4	--	1.4	--
AUG. 13...	1540	63	--	7.2	--	1.8	--	--	--	--	--
SEP. 11...	1205	120	--	7.5	--	1.5	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 17...	19	0	16	10	10	--	.8	.73	.00	.74
NOV. 13...	17	0	14	--	--	--	--	.87	.04	.92
DEC. 13...	1	0	1	--	--	--	--	.72	.01	.73
JAN. 15...	11	0	9	11	9.0	--	.1	.84	.01	.85
FEB. 19...	13	0	11	--	--	--	--	.89	.01	.90
MAR. 19...	8	0	7	--	--	--	--	.67	.00	.67
APR. 16...	8	0	7	10	7.2	--	.1	.42	.01	.43
MAY 14...	11	0	9	--	--	--	--	.31	.01	.32
JUNE 11...	12	0	10	--	--	--	--	.81	.02	.83
JULY 16...	16	0	13	12	12	.2	--	1.1	.01	1.1
AUG. 13...	14	0	11	--	--	--	--	1.1	.03	1.1
SEP. 11...	15	0	12	--	--	--	--	.74	.00	.74

01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.										
17...	.07	.19	.26	1.0	.14	--	.12	51	0	48
NOV.										
13...	.18	.27	.45	1.4	.11	--	.08	--	9	74
DEC.										
13...	.30	.00	.30	1.0	.05	--	.03	--	6	50
JAN.										
15...	.22	.18	.40	1.2	.07	--	.04	45	2	68
FEB.										
19...	.37	.18	.55	1.4	.08	--	.06	--	5	63
MAR.										
19...	.22	.05	.27	.94	.05	--	.03	--	20	55
APR.										
16...	--	--	--	--	.05	--	.03	35	12	54
MAY										
14...	.10	.33	.43	.75	.07	.03	--	--	7	62
JUNE										
11...	.05	.29	.34	1.2	.12	.10	--	--	2	66
JULY										
16...	.27	.05	.32	1.4	.16	.14	--	--	2	80
AUG.										
13...	.24	.10	.34	1.4	.15	.14	--	--	1	75
SEP.										
11...	.26	.04	.30	1.0	.10	.08	--	--	1	61

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
17...	27	11	104	6.8	10.0	11.2	100	2.2	--	22
NOV.										
13...	27	13	104	6.9	5.0	11.9	94	3.3	--	10
DEC.										
13...	23	22	79	6.7	1.0	12.8	90	3.0	--	48
JAN.										
15...	24	15	97	6.0	1.0	12.0	85	2.0	--	8
FEB.										
19...	24	14	97	6.5	.0	12.3	85	3.0	--	<1
MAR.										
19...	20	14	67	6.3	3.0	12.8	96	1.4	--	82
APR.										
16...	19	12	71	6.1	9.0	12.0	105	1.7	1.5	87
MAY										
14...	--	--	64	6.1	15.0	9.6	94	3.8	--	861
JUNE										
11...	--	--	102	7.5	22.0	9.1	103	4.0	--	45
JULY										
16...	--	--	115	7.2	24.0	9.3	110	3.2	--	23
AUG.										
13...	--	--	117	7.2	24.0	9.2	108	--	--	35
SEP.										
11...	--	--	83	7.1	16.0	9.6	97	1.3	--	58

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

CONTINUED NEXT PAGE

01432900 MONGAUP RIVER AT MONGAUP VALLEY, N.Y.--Continued

PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
May 14 1973	1,100	Scenedesmus spp.	50
July 9 1973	2,000	Scenedesmus sp.	26
		Coelastrum sp.	63
Sept. 12 1973	550	Navicula sp.	45
		Scenedesmus sp.	18
Nov. 13 1973	250	Oscillatoria	23
Jan. 15 1974	224,000	Oscillatoria	99+
Mar. 19 1974	300	Achnanthes	33
		Scenedesmus	15
May 14 1974	3,500	Scenedesmus	31
		Anacystis	25
		Navicula	8
		Tetrastrum	8
		Cyclotella	6
		Achnanthes	5
		Fragilaria	4
		Nitzschia	3
		Synedra	3
		Gomphonema	2
		Ankistrodesmus	2
		Cymbella	1
		Pinnularia	1
July 16 1974	3,400	Scenedesmus	28
		Navicula	15
		Nitzschia	12
		Coelastrum	10
		Cyclotella	7
		Crucigenia	7
		Anacystis	6
		Synedra	3
		Pediastrum	3
		Kirchneriella	3
		Achnanthes	2
		Oocystis	2
		Cymbella	1
		Gomphonema	1
		Golenkinia	1
Sept. 11 1974	1,700	Anacystis	58
		Scenedesmus	29
		Navicula	10
		Melosira	2
		Achnanthes	1
		Tetraedron	1
June 14 1973	720	Synedra sp.	35
		Navicula sp.	26
Aug. 20 1973	1,100	Scenedesmus sp.	64
		Sphaerocystis schroeteri	20
Oct. 17 1973	730	Navicula sp.	32
		Sphaerocystis schroeteri	19
Dec. 13 1973	460	Melosira sp.	65
Feb. 19 1974	230	Scenedesmus	24
		Nitzschia	18
		Achnanthes	18
Apr. 16 1974	559	Cymbella	19
		Navicula	19
June 11 1974	6,300	Scenedesmus	28
		Anacystis	20
		Anabaena	16
		Navicula	7
		Nitzschia	6
		Crucigenia	6
		Synedra	2
		Cyclotella	2
		Selenastrum	2
		Kirchneriella	2
		Ankistrodesmus	2
		Planktosphaeria	2
		Oocystis	2
		Cymbella	1
		Achnanthes	1
		Melosira	1
		Gomphonema	<1
		Tetraedron	<1
Aug. 13 1974	130	Nitzschia	26
		Anacystis	16
		Chlorococcum	15
		Scenedesmus	9
		Navicula	7
		Cyclotella	7
		Ankistrodesmus	6
		Oocystis	5
		Gomphonema	3
		Euastrum	2
		Selenastrum	2
		Melosira	1

01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.

LOCATION.--Lat 41°34'02", long 74°47'01", Sullivan County, at private bridge, 0.3 mi (0.5 km) upstream from Black Lake Creek and 0.4 mi (0.6 km) downstream from dam and Swinging Bridge Reservoir.

DRAINAGE AREA.--148 mi^2 (383 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
17...	1630	24	1.7	--	5.0	--	1.3	--	2.2	--	1.0
NOV.											
13...	1510	24	--	--	5.0	--	1.3	--	--	--	--
DEC.											
13...	0945	1010	--	--	5.4	--	1.3	--	--	--	--
JAN.											
16...	0915	530	2.8	--	4.9	--	1.2	--	4.3	--	1.1
FEB.											
20...	1100	1510	--	--	5.2	--	1.0	--	--	--	--
MAR.											
20...	1000	1000	--	--	6.2	--	1.5	--	--	--	--
APR.											
16...	1800	570	2.5	--	5.0	--	1.2	--	5.0	--	1.2
MAY											
15...	0835	560	--	5.5	--	1.2	--	--	--	--	--
JUNE											
11...	1900	1630	--	6.1	--	1.2	--	--	--	--	--
JULY											
17...	0915	590	2.1	5.1	--	1.2	--	4.2	--	1.0	--
AUG.											
14...	1030	600	--	8.0	--	1.3	--	--	--	--	--
SEP.											
11...	1000	1750	--	5.0	--	1.3	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT.										
17...	11	0	9	9.0	5.0	--	.4	.23	.00	.23
NOV.										
13...	11	0	9	--	--	--	--	.18	.00	.18
DEC.										
13...	9	0	7	--	--	--	--	.24	.01	.25
JAN.										
16...	6	0	5	10	7.1	--	.1	.55	.02	.57
FEB.										
20...	7	0	6	--	--	--	--	.54	.01	.55
MAR.										
20...	13	0	11	--	--	--	--	.57	.00	.57
APR.										
16...	7	0	6	10	8.7	--	.1	.48	.01	.49
MAY										
15...	9	0	7	--	--	--	--	.41	.01	.42
JUNE										
11...	5	0	4	--	--	--	--	.20	.01	.21
JULY										
17...	9	0	7	11	6.4	.2	--	.42	.01	.43
AUG.										
14...	9	0	7	--	--	--	--	.36	.02	.38
SEP.										
11...	16	0	13	--	--	--	--	.20	.00	.20

CONTINUED NEXT PAGE

01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.										
17...	.07	.23	.30	.53	.03	--	.01	31	0	40
NOV.										
13...	.05	.23	.28	.46	.04	--	.01	--	8	61
DEC.										
13...	.23	.03	.26	.51	.02	--	.00	--	4	40
JAN.										
16...	.15	.11	.26	.83	.04	--	.02	35	0	57
FEB.										
20...	.15	.13	.28	.83	.03	--	.02	--	4	50
MAR.										
20...	.28	.04	.32	.89	.04	--	.03	--	1	51
APR.										
16...	--	--	--	--	.03	--	.01	37	5	52
MAY										
15...	.15	.12	.27	.69	.03	.01	--	--	1	49
JUNE										
11...	.15	.28	.43	.64	.04	.02	--	--	0	47
JULY										
17...	.35	.00	.32	.75	.05	.03	--	--	4	60
AUG.										
14...	.55	.00	.55	.93	.06	.04	--	--	2	52
SEP.										
11...	.25	.26	.51	.71	.05	.02	--	--	1	44

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
17...	18	9	66	6.6	16.0	8.3	85	2.1	--	<1
NOV.										
13...	18	9	65	7.0	9.0	9.1	91	2.7	--	<1
DEC.										
13...	19	11	69	6.9	6.0	10.0	81	1.5	--	<1
JAN.										
16...	17	12	75	5.9	2.0	12.8	97	5.0	--	<1
FEB.										
20...	17	11	79	6.2	2.0	12.0	87	1.8	--	<1
MAR.										
20...	22	11	81	6.3	.0	12.2	85	1.6	--	<1
APR.										
16...	17	12	72	6.1	9.0	11.0	87	2.0	.0	<1
MAY										
15...	--	--	73	6.0	9.0	9.0	78	.7	--	<1
JUNE										
11...	--	--	70	6.8	17.0	7.4	76	3.2	--	B3
JULY										
17...	--	--	81	7.1	17.0	4.0	41	3.4	--	B3
AUG.										
14...	--	--	76	7.1	18.0	3.2	34	--	--	B27
SEP.										
11...	--	--	64	7.1	19.0	6.2	67	1.8	--	14

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

01433005 MONGAUP RIVER BELOW SWINGING BRIDGE RESERVOIR, N.Y.--Continued

PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
May 14 1973	430	Melosira sp.	19
		Scenedesmus sp.	18
July 26 1973	5,100	*Pseudoparachymatous mass	93
Sept. 13 1973	560	Oscillatoria sp.	20
		Scenedesmus sp.	19
Nov. 13 1973	4,200	Melosira	83
Jan. 16 1974	27,000	Oscillatoria	99
Mar. 20 1974	150	Melosira	46
		Ankistrodesmus	31
		Navicula	23
May 15 1974	2,500	Melosira	46
		Scenedesmus	15
		Asterionella	9
		Tetrastrum	7
		Navicula	6
		Cyclotella	5
		Tabellaria	4
		Synedra	3
		Anacystis	2
		Fragilaria	2
		Dinobryon	1
July 17 1974	3,400	Scenedesmus	25
		Coelastrum	22
		Anacystis	15
		Melosira	13
		Cyclotella	8
		Pediastrum	8
		Fragilaria	6
		Gomphonema	1
		Navicula	1
		Achnanthes	1
		Chlamydomonas	1
Sept. 11 1974	25,000	Aphanizomenon	71
		Anacystis	15
		Gomphonema	10
		Scenedesmus	3
		Actinastrum	1
		Cryptomonas	<1
June 14 1973	70	Scenedesmus sp.	19
		Melosira sp.	21
		Audouinella sp.	32
Aug. 20 1973	26,000	Aphanizomenon flos-aquae	97
Oct. 17 1973	2,800	Melosira sp.	19
		Sphaerocystis schroeteri	21
		*Pseudoparachymatous mass	23
Dec. 13 1973	2,800	Melosira spp.	90
Feb. 20 1974	230	Melosira	39
		Dinobryon	30
Apr. 16 1974	1,714	Anacystis	55
		Melosira	18
June 11 1974	1,500	Chroomonas	51
		Asterionella	13
		Sphaerocystis	13
		Scenedesmus	10
		Navicula	3
		Melosira	3
		Cyclotella	3
		Chlamydomonas	2
		Closteriopsis	1
Aug. 14 1974	1,200	Scenedesmus	32
		Cyclotella	16
		Melosira	14
		Coelastrum	11
		Anacystis	8
		Fragilaria	8
		Nitzschia	3
		Synedra	3
		Navicula	1
		Asterionella	1
		Cosmarium	1
		Ankistrodesmus	1

*Possible palmella or juvenile stage of Vlotrichales.

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, at gaging station 300 ft (91 m) downstream from Rio hydroelectric plant of Orange and Rockland Utilities Inc., 0.5 mi (0.8 km) downstream from Bush Kill, and 2.8 mi (4.5 km) upstream from mouth and Mongaup.

DRAINAGE AREA.--202 mi^2 (523 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT. 18...	1400	29	1.4	--	5.3	--	1.3	--	2.0	--	1.0
NOV. 16...	0900	29	--	--	5.0	--	1.2	--	--	--	--
DEC. 13...	0805	727	--	--	5.5	--	1.2	--	--	--	--
JAN. 16...	1100	664	2.5	--	4.5	--	1.1	--	3.9	--	1.0
FEB. 20...	1315	724	--	--	5.0	--	1.3	--	--	--	--
MAR. 20...	1120	395	--	--	5.0	--	1.2	--	--	--	--
APR. 17...	0855	724	2.6	--	4.9	--	1.1	--	4.2	--	1.0
MAY 15...	1040	736	--	11	--	1.2	--	--	--	--	--
JUNE 12...	1740	716	--	5.8	--	1.1	--	--	--	--	--
JULY 17...	1245	28	1.9	5.7	--	1.1	--	4.0	--	.8	--
AUG. 14...	1210	716	--	4.3	--	1.2	--	--	--	--	--
SEP. 11...	0815	728	--	5.5	--	1.7	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT. 18...	12	0	10	9.1	4.5	--	.4	.22	.00	.22	.02
NOV. 16...	11	0	9	--	--	--	--	.17	.00	.17	.12
DEC. 13...	8	0	7	--	--	--	--	.18	.00	.19	.18
JAN. 16...	6	0	5	10	6.4	--	.1	.41	.01	.42	.12
FEB. 20...	5	0	4	--	--	--	--	.50	.01	.51	.14
MAR. 20...	8	0	7	--	--	--	--	.43	.00	.43	.22
APR. 17...	7	0	6	10	7.5	--	.0	.38	.01	.39	--
MAY 15...	7	0	6	--	--	--	--	.31	.01	.32	.07
JUNE 12...	7	0	6	--	--	--	--	.24	.01	.25	.10
JULY 17...	10	0	8	11	5.9	.1	--	.26	.01	.27	.12
AUG. 14...	10	0	8	--	--	--	--	.23	.01	.24	.18
SEP. 11...	6	0	5	--	--	--	--	.19	.01	.20	.26

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.										
18...	.25	.27	.49	.02	--	.00	31	8	40	19
NOV.										
16...	.07	.19	.36	.01	--	.00	--	3	56	17
DEC.										
13...	.07	.25	.44	.01	--	.00	--	0	39	19
JAN.										
16...	.10	.22	.64	.04	--	.01	32	1	53	16
FEB.										
20...	.25	.39	.90	.02	--	.01	--	5	38	18
MAR.										
20...	.05	.27	.70	.02	--	.01	--	4	43	17
APR.										
17...	--	--	--	.02	--	.01	35	4	47	17
MAY										
15...	.12	.19	.51	.02	.00	--	--	1	46	--
JUNE										
12...	.24	.34	.59	.02	.01	--	--	2	47	--
JULY										
17...	.04	.16	.43	.02	.01	--	--	2	49	--
AUG.										
14...	.07	.25	.49	.02	.01	--	--	1	60	--
SEP.										
11...	.06	.32	.52	.04	.01	--	--	2	36	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
18...	9	61	6.5	15.0	9.5	95	.0	9.5	--	B4
NOV.										
16...	8	61	6.6	10.0	9.8	92	1.9	.8	--	<1
DEC.										
13...	12	62	6.4	5.0	10.6	84	2.6	2.5	--	B5
JAN.										
16...	11	69	6.2	2.0	13.1	96	1.8	2.2	--	<1
FEB.										
20...	14	73	6.6	2.0	12.9	94	2.3	3.1	--	<1
MAR.										
20...	11	68	7.3	3.0	12.4	93	1.2	4.0	--	<1
APR.										
17...	11	66	6.1	6.0	12.7	103	2.0	1.7	--	<1
MAY										
15...	--	68	6.1	12.0	10.3	95	1.8	5.0	12	B5
JUNE										
12...	--	65	7.2	16.0	8.1	82	1.2	2.4	2.3	B3
JULY										
17...	--	75	6.9	19.0	8.6	93	3.0	1.5	2.5	5
AUG.										
14...	--	66	6.9	21.0	5.0	56	--	.0	1.0	2
SEP.										
11...	--	66	7.2	19.0	7.0	75	1.3	6.0	.4	4

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

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Orange County, N.Y.-Pike County, Pa., water temperature recorder at gaging station at bridge on U.S. Highway 6 and 209 in Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 mi^2 (7,967 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, July 1964 to June 1965, August 1966 to September 1974.
Water temperatures: February 1957 to September 1960, January to September 1973, June to September 1974.
Sediment records: February 1957 to September 1960; March 1971 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 27.0°C July 7, 8.
Sediment concentrations: Maximum daily, 241 mg/l Feb. 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 32,700 tons (29,500 tonnes) Dec. 21; minimum daily, 2.9 tons (2.6 tonnes) Aug. 9.

Period of record:
Water temperatures: Maximum, 29.5°C July 19, 1959; minimum (1957-60, 73), freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 760 mg/l June 29, 1973; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 187,000 tons (170,000 tonnes) June 29, 1973; minimum daily, 1 ton (0.9 tonne) Aug. 29, 1957.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
16...	1200	1600	1.5	60	20	--	7.5	--	1.9	--	3.0
NOV.											
15...	1240	2000	.9	30	0	--	6.5	--	1.7	--	3.1
DEC.											
13...	1055	8100	--	--	--	--	--	--	--	--	--
JAN.											
14...	1335	4020	3.3	210	50	--	6.0	--	1.3	--	3.0
FEB.											
06...	0945	5200	2.8	90	40	--	6.0	--	1.2	--	4.0
MAR.											
13...	1210	5885	2.3	100	20	--	5.6	--	1.0	--	2.0
MAY											
08...	1740	5800	1.7	110	40	6.0	--	1.4	--	2.4	--
31...	1100	3130	2.0	210	190	6.1	--	1.9	--	2.8	--
JUNE											
26...	1300	2310	--	--	--	--	--	--	--	--	--
JULY											
24...	0930	1400	--	300	110	15	--	2.0	--	2.8	--
AUG.											
29...	1340	2170	--	120	50	6.5	--	1.2	--	2.8	--
SEP.											
24...	1800	2010	--	220	40	7.5	--	2.4	--	2.4	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
16...	--	2.5	18	0	15	9.0	4.5	--	.1	.37	.04
NOV.											
15...	--	1.0	18	0	15	8.6	4.6	--	.2	.28	.13
DEC.											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
14...	--	.8	10	0	8	11	4.4	--	.1	.49	.02
FEB.											
06...	--	1.0	10	0	8	11	3.6	--	.4	.43	.00
MAR.											
13...	--	.8	9	0	7	10	3.3	--	.1	.32	.04
MAY											
08...	.6	--	24	0	20	10	3.5	.0	--	.26	.00
31...	.7	--	17	0	14	8.4	4.5	.2	--	.22	.02
JUNE											
26...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	1.3	--	13	0	11	11	4.1	--	--	.24	.15
AUG.											
29...	.8	--	12	0	10	10	3.7	--	--	.21	.10
SEP.											
24...	1.0	--	15	0	12	8.4	3.9	--	--	.15	.14

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
OCT.										
16...	.00	.16	.20	.58	.04	--	.00	39	186	166
NOV.										
15...	.00	.00	.13	.42	.00	--	.00	35	55	35
DEC.										
13...	--	--	--	--	--	--	--	--	--	--
JAN.										
14...	.01	.56	.58	1.1	.02	--	.01	35	54	38
FEB.										
06...	.00	.11	.11	.54	.02	--	.01	35	40	26
MAR.										
13...	.01	.09	.13	.46	.02	--	.01	30	44	35
MAY										
08...	.01	.21	.21	.48	.02	.01	--	--	48	--
31...	.01	.53	.55	.78	.01	.00	--	--	70	70
JUNE										
26...	--	--	--	--	--	--	--	--	--	--
JULY										
24...	.01	.00	.06	.31	.04	.01	--	--	47	--
AUG.										
29...	.00	.03	.13	.34	.02	.01	--	--	46	21
SEP.										
24...	.00	.06	.20	.35	.02	.01	--	--	38	38

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT.										
16...	3	0	27	12	62	7.0	14.0	--	--	8.6
NOV.										
15...	5	2	23	8	70	6.4	8.5	--	--	11.9
DEC.										
13...	--	--	--	--	--	6.2	2.0	--	--	10.5
JAN.										
14...	10	8	20	12	75	6.8	.0	--	--	12.5
FEB.										
06...	6	5	20	12	66	6.8	.0	--	--	12.8
MAR.										
13...	8	4	18	11	58	5.8	2.0	--	--	12.8
MAY										
08...	4	1	--	--	67	7.0	11.0	--	--	11.9
31...	--	4	--	--	71	6.9	17.0	--	--	9.5
JUNE										
26...	--	--	--	--	50	8.0	19.0	--	--	9.6
JULY										
24...	3	3	--	--	69	7.0	21.0	1	2	8.3
AUG.										
29...	11	4	--	--	67	7.6	22.0	2	2	9.0
SEP.										
24...	4	2	--	--	78	7.7	15.5	3	1	10.6

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
16...	83	5	--	--	--	--	--	--	--	.0
NOV.										
15...	100	6	.6	--	B70	B1	7	.5	.00	.0
DEC.										
13...	76	--	.7	--	B130	98	67	--	.00	--
JAN.										
14...	99	7	.9	--	B65	B6	B4	--	.00	.0
FEB.										
06...	97	5	1.7	--	B24	B8	B2	--	.01	.0
MAR.										
13...	92	5	2.5	--	B30	B1	B1	--	.00	.0
MAY										
08...	107	7	31	1.7	B140	B8	<1	--	.00	.0
31...	98	6	.4	.6	960	37	21	--	.01	--
JUNE										
26...	102	--	.5	.3	430	B9	23	--	.00	--
JULY										
24...	91	7	2.0	.3	3700	10	130	--	.01	--
AUG.										
29...	102	7	2.2	.8	--	51	B210	3.4	.01	--
SEP.										
24...	102	8	4.0	2.7	--	B6	61	4.8	.00	--

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

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
NOV.							
15...	1240	3	--	0	0	0	0
DEC.							
13...	1055	0	950	0	0	2	13
JAN.							
14...	1335	1	1400	0	0	0	3
FEB.							
06...	0945	2	20	0	<10	0	0
MAR.							
13...	1210	0	0	0	0	0	0
MAY							
08...	1740	2	0	0	0	1	0
31...	1100	4	10	0	10	1	0
JUNE							
26...	1300	0	40	0	10	1	0
JULY							
24...	0930	0	0	0	0	0	10
AUG.							
29...	1340	1	10	0	0	0	0
SEP.							
24...	1800	1	10	0	0	1	10

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.						
15...	0	<.5	--	30	--	0
DEC.						
13...	--	<.5	1	20	6.7	35
JAN.						
14...	6	<.5	--	20	6.8	10
FEB.						
06...	0	--	2	10	1.4	0
MAR.						
13...	0	--	3	10	.7	10
MAY						
08...	4	<.5	0	70	.0	40
31...	3	<.5	3	50	.0	10
JUNE						
26...	1	<.5	1	50	.1	620
JULY						
24...	2	<.5	<1	50	2.6	0
AUG.						
29...	1	<.5	0	40	.5	0
SEP.						
24...	1	<.5	3	40	.1	80

DATE	TIME	TOTAL NITRATE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL NITRITE IN BOTTOM DEPOSITS (N) (MG/KG)	TOTAL AMMONIA NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM DEP. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)	INORGANIC CARBON IN BED MATERIAL (G/KG)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)
NOV.										
15...	1240	14	.0	180	1960	767	4.7	.1	39	0
JULY										
24...	0930	--	--	15	290	65	1.2	.1	6	1

DATE	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL NICKEL IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
NOV.									
15...	6	--	24	45000	350	100000	.1	--	120
JULY									
24...	4	5	7	6700	20	380	.0	<5	35

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
NOV. 15...	1240	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	DI-AZINON (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	PCB (UG/L)
NOV. 15...	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	TIME	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)
NOV. 15...	1240	.0	0	.0	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)
NOV. 15...	.0	0	.0	.0	.0	.0	.0	.0	.0	0

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	20.5	22.0	23.0	21.0	22.5	23.0	20.5	22.0
2	---	---	---	23.5	21.0	22.5	24.5	21.5	23.0	22.0	20.0	20.5
3	---	---	---	25.0	22.5	23.5	24.0	22.5	23.5	20.0	19.0	19.0
4	---	---	---	25.5	23.0	24.0	24.5	22.5	23.5	18.5	17.5	18.0
5	---	---	---	25.5	24.5	25.0	24.5	22.5	23.5	18.0	16.5	17.5
6	---	---	---	26.0	23.5	25.0	24.0	22.0	23.0	18.0	17.5	17.5
7	---	---	---	27.0	24.0	26.0	23.0	21.5	22.5	18.5	17.0	17.5
8	---	---	---	27.0	25.0	26.0	24.0	21.5	22.5	19.5	18.0	19.0
9	---	---	---	25.5	24.5	25.0	24.5	23.0	23.5	19.5	19.0	19.5
10	---	---	---	26.0	23.5	24.5	25.0	22.5	23.5	20.5	19.0	20.0
11	---	---	---	25.0	22.0	23.5	24.5	22.0	23.5	21.5	19.5	20.5
12	---	---	---	24.5	22.0	23.5	24.5	22.0	23.5	22.5	20.0	21.5
13	---	---	---	25.5	21.5	23.5	24.5	22.5	23.5	23.0	21.0	22.0
14	---	---	---	26.0	23.0	24.5	25.5	22.5	24.0	22.5	20.0	21.5
15	---	---	---	26.5	24.5	26.0	25.5	22.5	24.0	20.5	19.0	20.0
16	---	---	---	25.5	23.0	24.5	25.0	22.5	24.0	20.0	18.5	19.5
17	---	---	---	25.0	22.0	23.5	24.5	23.0	23.5	19.5	18.0	19.0
18	---	---	---	25.0	23.5	24.5	23.5	22.5	23.0	19.5	18.5	19.0
19	---	---	---	25.5	23.0	24.5	24.0	21.5	23.0	20.0	18.5	19.0
20	---	---	---	25.0	22.5	24.0	24.0	21.5	23.0	20.0	18.5	19.5
21	---	---	---	24.5	21.5	23.5	24.5	22.0	23.5	20.0	19.0	19.5
22	---	---	---	25.0	21.5	23.5	23.5	22.0	23.0	19.0	17.0	18.0
23	---	---	---	23.5	21.5	22.5	24.0	22.5	23.0	17.5	15.5	16.5
24	---	---	---	22.5	20.0	21.0	25.0	22.5	24.0	15.5	13.5	15.0
25	---	---	---	20.5	19.5	20.0	25.0	22.5	24.0	15.0	13.0	14.0
26	19.5	18.5	19.0	20.5	19.0	20.0	24.0	22.0	23.0	15.0	13.0	14.5
27	20.5	18.5	19.5	21.5	19.0	20.0	23.5	21.5	22.5	16.0	14.0	15.0
28	20.0	18.5	19.0	23.5	20.5	22.0	23.5	22.0	22.5	16.0	15.0	15.5
29	20.5	18.0	19.0	23.0	21.5	22.5	23.0	21.0	22.5	17.0	16.0	16.5
30	22.0	18.5	20.5	22.5	20.0	21.5	23.0	22.0	22.0	16.5	15.0	15.5
31	---	---	---	22.5	21.5	22.0	22.0	21.0	21.5	---	---	---

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

PHYTOPLANKTON ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
Nov. 15 1973	1,000	Oscillatoria	44
		Agmenellum	22
Aug. 23 1974	710	Scenedesmus	64
		Navicula	15
		Melosira	6
		Nitzschia	4
		Gomphonema	2
		Achnanthes	2
		Synedra	2
		Kirchneriella	2
		Ankistrodesmus	2
July 24 1974	3,400	Oscillatoria	47
		Scenedesmus	14
		Melosira	9
		Anacystis	7
		Synedra	6
		Navicula	5
		Eudorina	5
		Cyclotella	4
		Cymbella	2
		Hannaea	1
		Oocystis	1
		Kirchneriella	1
Sept. 24 1974	2,400	Melosira	48
		Crucigenia	20
		Anabaena	7
		Anacystis	7
		Scenedesmus	7
		Oscillatoria	3
		Navicula	3
		Ankistrodesmus	3
		Cosmarium	2
		Selenastrum	2

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1450	6	23	2130	3	17	4480	5	60
2	1600	4	17	1830	3	15	3790	4	41
3	1670	2	10	1740	3	14	3400	4	37
4	1680	1	4.5	1720	3	14	3040	3	25
5	3340	1	9.0	1530	2	8.3	3290	13	115
6	3010	2	16	1310	1	3.5	8090	35	765
7	1580	3	13	1560	1	4.2	9710	38	996
8	1780	2	9.6	1850	2	10	7100	22	422
9	2420	1	6.5	1960	3	16	6940	12	225
10	2290	1	6.2	2040	3	17	20200	111	6160
11	1720	1	4.6	2070	2	11	14900	38	1600
12	1360	1	3.7	2050	2	11	10400	32	899
13	2330	1	6.3	2250	2	12	8090	5	109
14	2290	1	5.6	2310	1	6.2	7850	9	191
15	1920	1	4.2	2210	1	6.0	7850	8	170
16	1830	1	3.0	2250	1	6.1	6530	10	176
17	1810	1	3.0	2360	1	6.4	5660	11	168
18	1830	1	3.4	2380	2	13	4730	9	115
19	1830	1	3.7	2310	2	12	4200	9	102
20	1900	1	3.6	2170	2	12	3760	9	91
21	1890	1	3.4	2070	1	5.6	34300	218	32700
22	2040	1	4.4	1320	1	3.6	45100	188	24200
23	2290	1	6.2	1340	1	3.6	21600	66	3850
24	2420	1	5.8	1850	2	10	15300	19	785
25	2020	1	3.4	2170	3	18	10300	8	222
26	1940	1	3.5	3370	3	27	9580	12	310
27	1960	1	3.6	3620	2	20	21100	47	3100
28	1870	1	3.5	4350	2	23	28700	47	3750
29	2270	3	18	6270	7	119	22000	10	594
30	3010	3	24	5520	6	89	16600	4	179
31	2500	2	14	--	--	--	13300	6	215
TOTAL	64050	--	245.7	71910	--	533.5	381890	--	82372

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11800	5	159	13300	29	1040	6470	1	17
2	10800	4	117	11400	50	1540	6340	1	17
3	9530	6	154	9710	23	603	5920	1	16
4	8630	5	117	8800	8	190	5860	1	16
5	7100	4	77	8130	4	88	7850	8	170
6	6090	5	82	6830	6	111	12400	20	670
7	6120	6	99	6000	7	113	12100	16	523
8	5800	3	47	5800	7	110	11700	14	442
9	5020	3	41	5400	8	117	11700	19	600
10	4900	4	53	4900	8	106	10600	8	229
11	5000	4	54	4300	8	93	9760	4	105
12	5400	5	73	4500	7	85	8400	5	113
13	4900	4	53	4400	7	83	7560	4	82
14	4400	4	48	4600	6	75	6120	3	50
15	4200	3	34	4500	5	61	5870	3	48
16	4300	2	23	4400	5	59	5600	2	30
17	4600	3	37	3700	5	50	9670	10	261
18	4800	4	52	3800	6	62	9700	10	262
19	4400	6	71	4070	8	88	8570	8	185
20	4200	5	57	4480	7	85	7760	6	126
21	4410	5	60	4270	7	81	7990	9	194
22	6870	7	130	5160	20	279	13900	27	1010
23	8970	8	194	16000	241	10200	11600	10	313
24	9310	5	126	14100	120	4570	9950	8	215
25	8970	6	145	11900	14	450	10100	6	164
26	8220	7	155	9570	6	155	9370	4	101
27	8760	13	356	7940	8	172	8310	3	67
28	18300	76	3750	6980	2	38	7360	2	40
29	20800	43	2410	--	--	--	6950	2	38
30	18100	22	1080	--	--	--	6420	1	17
31	15000	13	527	--	--	--	6810	1	18
TOTAL	249700	--	10381	198940	--	20704	268710	--	6139

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8650	1	23	4320	7	82	4190	3	34
2	10300	1	28	5150	5	70	6910	11	205
3	12300	4	133	4570	4	49	5070	15	205
4	15400	9	386	5020	3	41	4210	13	148
5	18700	22	1110	4790	3	39	4200	9	102
6	22100	47	2800	4410	4	48	3680	6	60
7	18500	23	1150	5040	6	82	3430	4	37
8	14800	12	480	5260	5	71	3030	3	25
9	15200	9	369	4500	5	61	2240	4	24
10	15300	7	289	4630	4	50	2520	5	34
11	13100	5	177	5150	4	56	2930	4	32
12	12700	4	137	4730	6	77	2580	4	28
13	12600	7	238	19400	147	7780	1920	4	21
14	13100	14	495	17300	43	2010	1310	4	14
15	18000	74	4010	13200	19	677	1760	11	52
16	19500	50	2630	10800	26	758	2910	28	220
17	16100	17	739	9530	11	283	4480	32	387
18	13500	6	219	8000	7	151	4910	22	292
19	11900	5	161	6380	7	121	3070	10	83
20	10200	5	138	5710	6	93	2410	5	33
21	8300	4	90	5000	6	81	2130	8	46
22	7260	4	78	4490	6	73	2420	6	39
23	6480	5	87	5010	6	81	2780	7	53
24	5860	5	79	4340	3	35	2440	6	40
25	5500	5	74	3940	2	21	1880	5	25
26	4960	4	54	3280	2	18	2120	4	23
27	4520	4	49	3160	2	17	2360	3	19
28	4110	4	44	2860	3	23	3370	3	27
29	3730	4	40	2800	5	38	2710	2	15
30	3030	5	41	3290	4	36	1640	2	8.9
31	--	--	--	3270	3	26	--	--	--
TOTAL	346200	--	16348	189330	--	1304R	91610	--	2331.9

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2660	2	14	3700	14	140	2850	19	146
2	3080	3	25	2770	8	60	5810	28	439
3	2590	3	21	2360	6	38	7410	19	380
4	2690	4	29	1950	4	21	10100	17	464
5	2690	4	29	1890	1	5.1	10100	15	409
6	2120	5	29	1890	1	5.1	6800	9	165
7	1650	4	18	1580	1	4.3	6260	8	135
8	1920	4	21	1350	1	3.6	6090	7	115
9	2840	4	31	1070	1	2.9	5430	7	103
10	2620	4	28	1180	1	3.2	4540	6	74
11	1670	5	23	1430	2	7.7	3630	6	59
12	1260	5	17	1580	3	13	3300	5	45
13	1850	6	30	1710	3	14	3290	4	36
14	1720	7	33	1880	4	20	2280	3	18
15	1890	4	20	1970	4	21	2020	3	16
16	2840	2	15	1760	4	19	2340	2	13
17	1280	2	6.9	2080	4	22	2290	4	25
18	1330	3	11	3030	3	25	2220	8	48
19	1940	3	16	2560	3	21	2210	8	48
20	2200	3	18	2760	3	22	2130	8	46
21	1740	4	19	2220	3	18	1620	6	26
22	1800	4	19	2120	2	11	1980	5	27
23	1640	2	8.9	1870	2	10	2940	6	48
24	1880	1	5.1	1820	2	9.8	2860	7	54
25	2170	3	18	1760	3	14	2520	7	48
26	2170	4	23	1760	3	14	2200	8	48
27	2130	4	23	2040	4	22	1820	7	34
28	2090	4	23	1820	4	20	1950	7	37
29	2530	8	55	2120	5	29	5930	30	480
30	4970	26	349	1910	6	31	11100	53	1590
31	5310	15	215	2730	11	81	--	--	--
TOTAL	71270	--	1192.9	62670	--	727.7	126020	--	5176

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2122300
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 159199.7

01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, at gaging station 50 ft (15 m) downstream from covered bridge, 300 ft (91 m) upstream from small tributary, 2.2 mi (3.5 km) downstream from confluence of East and West Branches, and 2.2 mi (3.5 km) southwest of Claryville.

DRAINAGE AREA.--65.6 mi^2 (170 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT. 17...	1045	43	2.4	--	3.2	--	.9	--	.7	--	.4
NOV. 13...	1030	98	--	--	3.2	--	.9	--	--	--	--
DEC. 14...	1035	495	--	--	3.0	--	.8	--	--	--	--
JAN. 15...	1050	147	2.2	--	3.0	--	.9	--	.9	--	.4
FEB. 19...	1105	96	--	--	2.9	--	.8	--	--	--	--
MAR. 19...	1210	235	--	--	3.0	--	.8	--	--	--	--
APR. 16...	1125	525	1.5	--	2.5	--	.7	--	.5	--	.4
MAY 14...	1130	486	--	5.0	--	.8	--	--	--	--	--
JUNE 11...	1130	109	--	4.0	--	.8	--	--	--	--	--
JULY 16...	1125	79	2.3	3.5	--	.9	--	1.0	--	.3	--
AUG. 13...	1200	39	--	3.6	--	.9	--	--	--	--	--
SEP. 11...	1550	79	--	3.0	--	1.0	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT. 17...	6	0	5	6.1	1.1	--	.3	.11	.00	.11	.00
NOV. 13...	5	0	4	--	--	--	--	.38	.00	.38	.02
DEC. 14...	1	0	1	--	--	--	--	.51	.00	.51	.13
JAN. 15...	3	0	2	5.9	1.5	--	.1	.45	.00	.45	.01
FEB. 19...	2	0	2	--	--	--	--	.45	.00	.45	.00
MAR. 19...	4	0	3	--	--	--	--	.54	.00	.54	.02
APR. 16...	3	0	2	6.1	.9	--	.1	.51	.01	.52	--
MAY 14...	2	0	2	--	--	--	--	.43	.01	.44	.02
JUNE 11...	4	0	3	--	--	--	--	.26	.00	.26	.01
JULY 16...	3	0	2	7.4	1.0	.2	--	.21	.01	.22	.04
AUG. 13...	4	0	3	--	--	--	--	.18	.01	.19	.06
SEP. 11...	--	--	--	--	--	--	--	.15	.00	.15	.03

CONTINUED NEXT PAGE

01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.										
17...	.03	.03	.14	.00	--	.00	18	0	24	12
NOV.										
13...	.01	.03	.41	.00	--	.00	--	6	29	12
DEC.										
14...	.00	.13	.64	.00	--	.00	--	1	25	11
JAN.										
15...	.00	.01	.46	.00	--	.00	16	0	31	11
FEB.										
19...	.00	.00	.45	.00	--	.00	--	2	22	11
MAR.										
19...	--	.01	.55	.00	--	.00	--	--	23	11
APR.										
16...	--	--	--	.00	--	.00	14	1	39	9
MAY										
14...	.00	.01	.45	.01	.00	--	--	1	25	--
JUNE										
11...	.06	.07	.33	.00	.00	--	--	0	21	--
JULY										
16...	.03	.07	.29	.01	.00	--	--	4	36	--
AUG.										
13...	.07	.13	.32	.01	.00	--	--	1	35	--
SEP.										
11...	.03	.06	.21	.01	.00	--	--	0	16	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
17...	7	35	6.5	11.0	9.0	82	1.5	1.2	--	B2
NOV.										
13...	8	36	7.8	6.0	11.6	94	3.2	.1	--	<1
DEC.										
14...	10	30	6.4	4.0	11.4	88	.5	.8	--	B1
JAN.										
15...	9	43	5.8	1.0	12.7	90	2.2	.0	--	<1
FEB.										
19...	9	35	7.2	.0	12.2	85	1.6	2.8	--	<1
MAR.										
19...	8	32	6.1	1.0	13.2	93	.0	.8	--	<1
APR.										
16...	7	28	6.8	5.0	11.2	89	.5	.0	--	<1
MAY										
14...	--	28	5.6	9.0	10.8	96	.8	1.6	4.8	<1
JUNE										
11...	--	33	7.0	15.0	9.5	95	5.8	2.0	.6	B2
JULY										
16...	--	36	7.6	17.0	8.6	90	2.3	2.0	1.2	4
AUG.										
13...	--	34	7.5	16.0	9.6	98	--	.4	.0	B26
SEP.										
11...	--	35	7.2	16.0	8.2	85	.4	.5	.0	B31

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

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, at gaging station at downstream end of outlet channel, 1,650 ft (503 m) downstream from Neversink Dam and State Highway 55, 1.7 mi (2.7 km) southwest of Neversink, and 2.6 mi (4.2 km) upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 mi^2 (238 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
17...	1200	13	2.0	--	3.1	--	.8	--	.6	--	.4
NOV.											
13...	1150	4.8	--	--	3.0	--	.8	--	--	--	--
DEC.											
14...	0905	4.8	--	--	4.0	--	.8	--	--	--	--
JAN.											
15...	1345	4.2	1.9	--	3.2	--	.8	--	.9	--	.5
FEB.											
19...	1255	4.8	--	--	3.0	--	.7	--	--	--	--
MAR.											
19...	1345	4.7	--	--	4.0	--	.8	--	--	--	--
APR.											
16...	1325	243	1.8	--	2.8	--	.8	--	.8	--	.5
MAY											
14...	1355	386	--	3.7	--	.8	--	--	--	--	--
JUNE											
11...	1320	16	--	5.6	--	.8	--	--	--	--	--
JULY											
16...	1345	14	1.9	4.6	--	.9	--	1.0	--	.4	--
AUG.											
13...	1340	30	--	4.5	--	1.1	--	--	--	--	--
SEP.											
11...	1440	15	--	3.5	--	1.2	--	--	--	--	--

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
17...	3	0	2	6.6	1.2	--	.1	.37	.00	.37	.02
NOV.											
13...	5	0	4	--	--	--	--	.23	.00	.23	.08
DEC.											
14...	4	0	3	--	--	--	--	.28	.00	.29	.16
JAN.											
15...	3	0	2	7.1	1.9	--	.1	.39	.01	.40	.02
FEB.											
19...	3	0	2	--	--	--	--	.39	.00	.39	.06
MAR.											
19...	6	0	5	--	--	--	--	.43	.00	.43	.06
APR.											
16...	3	0	2	6.6	1.4	--	.1	.40	.01	.41	--
MAY											
14...	4	0	3	--	--	--	--	.39	.01	.40	.02
JUNE											
11...	1	0	1	--	--	--	--	.41	.00	.41	.04
JULY											
16...	3	0	2	7.5	1.4	.2	--	.38	.01	.39	.08
AUG.											
13...	3	0	2	--	--	--	--	.35	.03	.38	.11
SEP.											
11...	12	0	10	--	--	--	--	.38	.00	.38	.07

CONTINUED NEXT PAGE

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.										
17...	.05	.07	.44	.00	--	.00	16	0	25	11
NOV.										
13...	.00	.08	.31	.00	--	.00	--	9	29	11
DEC.										
14...	.00	.16	.45	.00	--	.00	--	2	26	13
JAN.										
15...	.05	.07	.47	.01	--	.00	18	1	33	11
FEB.										
19...	.33	.39	.78	.01	--	.00	--	4	25	10
MAR.										
19...	.16	.22	.65	.02	--	.00	--	2	27	13
APR.										
16...	--	--	--	.01	--	.00	16	4	24	10
MAY										
14...	.01	.03	.43	.01	.00	--	--	1	36	--
JUNE										
11...	.16	.20	.61	.00	.00	--	--	0	24	--
JULY										
16...	.13	.21	.60	.01	.01	--	--	1	31	--
AUG.										
13...	.18	.29	.67	.01	.01	--	--	2	33	--
SEP.										
11...	.17	.24	.62	.01	.00	--	--	0	18	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
17...	9	37	6.8	8.0	8.8	75	2.8	1.6	--	<1
NOV.										
13...	7	35	6.6	7.0	10.0	83	3.7	.6	--	<1
DEC.										
14...	10	28	7.2	5.0	11.5	91	.6	.0	--	B2
JAN.										
15...	9	42	6.1	1.0	12.8	94	2.6	1.0	--	<1
FEB.										
19...	8	36	6.0	2.0	13.2	96	1.6	--	--	<1
MAR.										
19...	8	37	7.3	2.0	11.5	84	.7	2.5	--	<1
APR.										
16...	8	30	6.0	4.0	13.6	104	4.0	.0	--	<1
MAY										
14...	--	32	6.7	10.0	12.1	108	.8	.7	1.6	B2
JUNE										
11...	--	35	7.5	12.0	10.8	100	2.3	.1	3.7	B3
JULY										
16...	--	36	7.2	13.0	10.0	94	3.7	4.4	6.8	24
AUG.										
13...	--	36	7.4	10.0	8.4	74	--	.0	.0	B32
SEP.										
11...	--	37	7.4	10.0	9.9	88	.6	.5	1.5	B31

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

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°21'40", long 74°41'07", Orange County, at bridge on U.S. Highway 6 (Main Street) in Port Jervis and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--333 mi^2 (862 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
16...	1330	E120	2.2	130	20	--	9.0	--	1.9	--	6.2
NOV.											
15...	0920	E130	2.8	90	30	--	9.0	--	1.8	--	6.5
DEC.											
13...	1335	E910	3.4	120	20	--	6.5	--	1.7	--	3.5
JAN.											
15...	0945	E410	4.1	240	50	--	8.4	--	1.8	--	5.7
FEB.											
06...	1330	E960	3.7	330	50	--	7.5	--	1.5	--	4.0
MAR.											
14...	1030	E440	2.9	210	50	--	8.5	--	1.5	--	5.1
MAY											
08...	1350	493	2.2	170	60	11	--	1.6	--	4.2	--
31...	1300	E290	3.2	240	40	9.3	--	1.5	--	5.2	--
JUNE											
26...	1000	E250	3.0	220	60	8.0	--	1.5	--	3.7	--
JULY											
24...	1600	E80	--	430	130	9.6	--	1.9	--	5.5	--
AUG.											
23...	0900	E130	--	260	110	9.5	--	1.7	--	5.3	--
SEP.											
25...	0800	E200	--	210	30	8.0	--	2.8	--	4.4	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
16...	--	1.2	26	0	21	11	8.0	--	.2	.63	.00
NOV.											
15...	--	1.3	23	0	19	11	8.0	--	.2	.77	.00
DEC.											
13...	--	.5	11	0	9	11	5.6	--	.2	.55	.00
JAN.											
15...	--	1.0	18	0	15	14	8.2	--	.0	.72	.04
FEB.											
06...	--	1.0	15	0	12	13	6.7	--	.1	.50	.01
MAR.											
14...	--	1.0	18	0	15	12	7.8	--	.2	.50	.01
MAY											
08...	.8	--	28	0	23	11	6.1	.1	--	.34	.01
31...	1.2	--	18	0	15	9.2	5.8	.2	--	.40	.01
JUNE											
26...	1.7	--	19	0	16	10	5.8	.1	--	.31	.03
JULY											
24...	1.2	--	25	0	21	12	7.7	--	--	.40	.01
AUG.											
23...	1.7	--	25	0	21	12	7.7	--	--	.53	.00
SEP.											
25...	1.8	--	18	0	15	8.8	6.3	--	--	.33	.00

E Estimated value.

CONTINUED NEXT PAGE

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
16...	.03	.20	.23	.87	.18	--	.14	53	100	80	0
NOV.											
15...	.14	.20	.34	1.1	.14	--	.14	52	74	50	6
DEC.											
13...	.02	.08	.10	.65	.06	--	.05	38	53	36	9
JAN.											
15...	.24	.18	.42	1.2	.11	--	.09	52	74	55	10
FEB.											
06...	.18	.17	.35	.86	.08	--	.07	45	61	36	10
MAR.											
14...	.30	.07	.37	.88	.10	--	.09	48	55	43	8
MAY											
08...	.00	.23	.23	.58	.05	.03	--	--	55	--	4
31...	.02	.78	.80	1.2	.06	.04	--	--	60	48	5
JUNE											
26...	.03	.23	.26	.60	.06	.04	--	--	53	36	6
JULY											
24...	.34	.00	.18	.59	.14	.13	--	--	72	39	4
AUG.											
23...	.17	.07	.24	.77	.16	.14	--	--	70	58	1
SEP.											
25...	.26	.26	.52	.85	.05	.03	--	--	54	42	10

DATE	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.										
16...	0	30	9	98	6.6	13.5	--	--	8.2	78
NOV.										
15...	2	30	11	159	6.6	9.5	--	--	8.8	77
DEC.										
13...	7	23	14	70	5.8	1.0	--	--	13.0	92
JAN.										
15...	9	28	14	99	6.7	.0	--	--	10.8	98
FEB.										
06...	5	25	13	87	5.8	.0	--	--	12.6	91
MAR.										
14...	4	27	13	95	5.5	1.0	--	--	11.6	90
MAY										
08...	2	--	--	89	6.9	10.0	--	--	12.3	110
31...	0	--	--	86	7.0	17.5	--	--	9.5	100
JUNE										
26...	5	--	--	70	7.2	17.0	--	--	8.4	87
JULY										
24...	3	--	--	104	7.1	19.5	1	2	7.9	85
AUG.										
23...	0	--	--	95	7.1	22.0	5	3	8.2	93
SEP.										
25...	2	--	--	110	7.3	10.5	7	2	10.6	97

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
16...	7	--	--	--	--	.0	--	--	--	--
NOV.										
15...	8	6100	160	--	--	.0	--	--	--	--
DEC.										
13...	9	B10	B14	--	--	.0	--	--	--	--
JAN.										
15...	8	B10	B11	--	--	.0	--	--	--	--
FEB.										
06...	6	B17	<1	--	--	.0	--	--	--	--
MAR.										
14...	7	91	B11	--	--	.0	--	--	--	--
MAY										
08...	23	B160	B12	B5	--	.0	1	0	6	<.5
31...	9	3000	B40	--	--	.1	--	--	--	--
JUNE										
26...	10	960	90	--	--	.0	--	--	--	--
JULY										
24...	8	13000	560	--	--	--	--	--	--	--
AUG.										
23...	--	--	120	--	5.2	--	1	0	4	<.5
SEP.										
25...	13	--	210	--	4.6	--	--	--	--	--

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

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, at bridge on Bridge Street in Unadilla, 25 ft (8 m) upstream from gaging station, 1.0 mi (1.6 km) upstream from Carrs Creek, and 1.6 mi (2.6 km) downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi^2 (2,543 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
17...	1100	112	1.9	100	20	--	23	--	3.2	--	7.0
NOV.											
19...	1030	228	1.8	220	20	--	24	--	3.0	--	6.0
DEC.											
12...	1100	2060	3.6	1100	80	--	16	--	2.3	--	3.5
JAN.											
17...	1200	1460	3.4	420	40	--	25	--	2.6	--	3.8
FEB.											
16...	1630	1020	3.3	250	40	--	22	--	2.3	--	3.0
MAR.											
18...	1630	2130	3.3	550	40	--	20	--	2.2	--	2.8
APR.											
18...	1100	3750	2.9	930	50	12	--	1.9	--	2.5	--
MAY											
23...	1100	1730	2.7	920	60	18	--	2.2	--	3.1	--
JUNE											
20...	1530	406	2.0	270	40	22	--	2.6	--	9.7	--
JULY											
25...	1030	555	--	740	30	25	--	2.9	--	4.3	--
AUG.											
20...	1100	215	--	170	40	29	--	3.1	--	3.9	--
SEP.											
20...	1030	640	--	480	60	18	--	2.4	--	3.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
17...	--	1.2	79	0	65	13	8.0	--	.0	.78	.00
NOV.											
19...	--	1.2	73	0	60	11	8.7	--	.3	.80	.00
DEC.											
12...	--	1.6	42	0	34	14	5.7	--	.2	.81	.00
JAN.											
17...	--	1.0	65	0	53	13	5.5	--	.2	.81	.03
FEB.											
16...	--	1.0	62	0	51	13	5.1	--	.1	.79	.01
MAR.											
18...	--	1.1	54	0	44	13	5.2	--	.0	.71	.00
APR.											
18...	.9	--	42	0	34	11	3.5	.2	--	.43	.01
MAY											
23...	1.0	--	52	0	43	12	3.5	.1	--	.34	.01
JUNE											
20...	1.7	--	68	0	56	12	5.1	.2	--	.26	.01
JULY											
25...	1.1	--	74	0	61	17	7.2	--	--	.42	.01
AUG.											
20...	.9	--	78	0	64	17	9.5	--	--	.43	.00
SEP.											
20...	1.1	--	56	0	46	18	7.9	--	--	.36	.00

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 17...	.04	.05	.09	.88	.02	--	.01	96	132	--
NOV. 19...	.04	.03	.07	.87	.03	--	.02	92	117	89
DEC. 12...	.00	.21	.21	1.0	.04	--	.01	68	111	80
JAN. 17...	.08	.08	.16	1.0	.03	--	.00	87	113	95
FEB. 16...	.07	.16	.23	1.0	.02	--	.01	80	106	80
MAR. 18...	.09	.15	.24	.95	.03	--	.00	74	97	81
APR. 18...	.07	.39	.46	.90	.04	.01	--	--	86	73
MAY 23...	.07	.28	.35	.70	.04	.01	--	--	128	107
JUNE 20...	.07	.36	.43	.70	.05	.03	--	--	107	81
JULY 25...	.22	.02	.24	.67	.05	.01	--	--	120	94
AUG. 20...	.09	.12	.21	.64	.03	.01	--	--	120	102
SEP. 20...	.09	.10	.19	.55	.04	.01	--	--	86	73

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 17...	4	0	71	6	165	7.5	8.0	--	--	11.2
NOV. 19...	4	4	72	12	225	7.6	3.0	--	--	14.0
DEC. 12...	33	30	49	15	150	7.2	1.0	--	--	14.0
JAN. 17...	4	1	73	20	190	7.3	.0	--	--	14.4
FEB. 16...	8	6	64	14	157	7.4	.0	--	--	15.6
MAR. 18...	15	13	59	15	160	6.5	4.0	--	--	14.0
APR. 18...	16	8	--	--	180	6.8	30.0	--	--	12.4
MAY 23...	24	18	--	--	148	6.9	17.0	--	--	8.9
JUNE 20...	5	5	--	--	170	6.5	23.5	--	--	--
JULY 25...	12	10	--	--	200	7.0	18.0	1	10	8.5
AUG. 20...	4	0	--	--	190	7.4	20.0	1	2	8.9
SEP. 20...	6	3	--	--	165	7.3	16.0	1	3	9.1

CONTINUED NEXT PAGE

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
17...	106	5	1100	110	--	.0	--	--	--	--
NOV.										
19...	104	4	340	440	--	.0	--	--	--	--
DEC.										
12...	112	14	B10000	--	--	.0	--	--	--	--
JAN.										
17...	114	6	6600	3800	--	.0	--	--	--	--
FEB.										
16...	107	4	B300	470	--	.0	--	--	--	--
MAR.										
18...	106	8	60	30	--	.0	0	0	4	--
APR.										
18...	92	8	3900	690	--	.0	--	--	--	--
MAY										
23...	92	10	39000	2600	--	.0	--	--	--	--
JUNE										
20...	--	8	B7600	B60	--	.0	--	--	--	--
JULY										
25...	89	10	34000	1300	--	--	--	--	--	--
AUG.										
20...	98	9	--	--	9.3	--	0	0	1	<.5
SEP.										
20...	92	10	--	--	4.1	--	--	--	--	--

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

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, at gaging station at abutment of former highway bridge, 500 ft (152 m) upstream from bridge on County Highway 304 at Conklin, 0.7 mi (1.1 km) downstream from Little Snake Creek, and 3.5 mi (5.6 km) downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi^2 (5,781 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955, September 1972 to September 1974. Water temperatures: October 1954 to September 1955.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
11...	1300	321	--	--	--	--	--	--	--	.24
DEC.										
05...	1400	1140	--	--	--	--	--	--	--	.47
FEB.										
07...	1400	2950	--	--	--	--	--	--	--	.80
MAY										
02...	1400	3250	--	430	40	--	--	--	--	.54
30...	1330	2600	--	--	--	--	--	--	--	.32
JUNE										
11...	1400	1030	--	--	--	--	--	--	--	.13
AUG.										
28...	1330	454	.3	340	90	67	0	55	.1	.16

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.										
11...	.00	.45	.69	.07	195	7.6	14.0	4	10.2	103
DEC.										
05...	.00	.16	.64	.03	160	7.2	6.0	10	12.3	111
FEB.										
07...	.00	.15	.95	.02	150	6.9	.0	2	15.7	107
MAY										
02...	.01	.23	.78	.03	160	7.1	11.0	3	11.4	108
30...	.01	.24	.57	.03	155	7.2	14.0	3	9.3	91
JUNE										
11...	.02	.50	.65	.04	168	7.9	23.0	3	9.0	106
AUG.										
28...	.00	.43	.59	.03	205	7.3	21.0	5	8.6	99

DATE	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT.										
11...	9.7	--	B8200	240	--	3.7	--	--	--	1
DEC.										
05...	.5	--	1400	180	--	1.2	--	--	--	1
FEB.										
07...	1.2	--	460	310	--	2.5	--	--	--	<1
MAY										
02...	5.5	9.0	3600	76	29	3.1	.00	--	--	2
30...	2.6	6.1	350	110	36	2.8	--	--	--	1
JUNE										
11...	5.5	6.0	B35000	280	600	2.9	--	--	--	<1
AUG.										
28...	13	3.5	--	220	--	4.0	.00	.0	0	1

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

CONTINUED NEXT PAGE

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT.										
11...	--	--	--	--	5	<.5	--	--	--	--
DEC.										
05...	--	--	--	--	1	.6	--	--	--	--
FEB.										
07...	--	--	--	--	1	.8	--	--	--	--
MAY										
02...	0	0	10	10	2	<.5	--	0	0	--
30...	--	0	10	0	0	<.5	--	--	--	--
JUNE										
11...	--	0	10	10	1	<.5	--	--	--	--
AUG.										
28...	--	0	<10	0	3	<.5	9	0	--	.8

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY												
30...	1330	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY											
30...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY										
30...	1330	.0	0	.0	.0	.0	.0	.0	.0	.0
AUG.										
28...	1330	.0	0	.0	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY										
30...	.0	.0	.0	.0	.0	.0	.0	9	0	.0
AUG.										
28...	.0	.0	.0	.0	.0	.0	.0	0	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG.									
28...	1330	2.5	2.7	2.1	110	<.4	.8	.7	5

01508800 FACTORY BROOK AT HOMER, N.Y.

LOCATION.--Lat 42°38'39", long 76°11'14", Cortland County, at bridge on State Highway 41, in Homer, 1.0 mi (1.6 km) upstream from mouth.

AREA.--15.8 mi^2 (40.9 km^2).

PERIOD OF RECORD.--Chemical analyses: June 1972 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
OCT.												
17...	1400	3.0	2.2	150	20	--	47	--	10	--	3.7	--
NOV.												
19...	1430	3.6	2.6	30	10	--	50	--	11	--	4.0	--
DEC.												
12...	1330	24	4.3	210	10	--	38	--	7.6	--	4.0	--
JAN.												
16...	1100	16	3.9	90	10	--	46	--	10	--	4.6	--
FEB.												
13...	1130	19	2.6	100	10	--	46	--	10	--	3.1	--
MAR.												
18...	1430	25	4.4	1200	20	--	40	--	8.4	--	3.2	--
APR.												
04...	2030	594	2.5	--	--	--	12	--	2.4	--	1.5	--
18...	1400	58	3.0	250	20	35	--	7.2	--	3.2	--	1.1
MAY												
23...	1400	34	3.9	360	40	37	--	8.4	--	3.7	--	1.0
JUNE												
13...	1000	11	2.7	90	20	44	--	9.8	--	3.5	--	1.0
JULY												
25...	1400	5.2	4.9	190	0	47	--	10	--	3.5	--	1.1
AUG.												
27...	0930	3.0	2.5	180	10	47	--	11	--	3.4	--	.8
SEP.												
30...	1200	13	5.1	290	150	40	--	8.5	--	3.5	--	1.6

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
17...	1.2	166	0	136	14	6.1	--	.5	3.0	.00	3.0
NOV.											
19...	1.2	166	0	136	17	6.7	--	.2	3.0	.00	3.0
DEC.											
12...	1.4	112	0	92	17	7.4	--	.3	3.5	.00	3.5
JAN.											
16...	1.0	148	0	121	16	8.3	--	.1	3.8	.04	3.8
FEB.											
13...	.9	148	0	121	15	8.1	--	.1	3.9	.00	3.9
MAR.											
18...	.9	135	0	111	15	8.0	--	.1	3.6	.01	3.6
APR.											
04...	2.2	31	0	25	12	3.6	--	.0	1.4	.00	1.4
18...	--	116	0	95	15	7.5	.0	--	3.2	.10	3.2
MAY											
23...	--	127	1	106	16	7.1	.1	--	2.7	.01	2.7
JUNE											
13...	--	155	0	127	15	7.5	.2	--	3.3	.01	3.3
JULY											
25...	--	156	0	128	33	11	.1	--	3.2	.01	3.2
AUG.											
27...	--	166	0	136	30	9.3	.2	--	2.9	.01	2.9
SEP.											
30...	--	137	0	112	10	8.4	.1	--	2.2	.00	2.2

CONTINUED NEXT PAGE

01508800 FACTORY BROOK AT HOMER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.											
17...	166	160	22	320	8.2	6.0	12.2	105	5500	3300	1100
NOV.											
19...	174	170	34	321	8.1	4.0	13.9	105	300	53	46
DEC.											
12...	135	130	34	326	7.7	3.0	13.9	111	B1500	--	11
JAN.											
16...	163	160	35	321	8.0	.0	14.2	108	B1200	520	B1100
FEB.											
13...	159	160	35	313	8.2	1.0	1.5	112	B30	28	B6
MAR.											
18...	147	15	24	269	7.9	.0	13.2	96	53	B8	B15
APR.											
04...	51	40	14	96	6.7	10.0	--	--	--	--	--
18...	--	--	--	420	7.6	3.0	13.9	103	98	28	50
MAY											
23...	--	--	--	280	8.4	13.0	9.6	90	8800	6800	2500
JUNE											
13...	--	--	--	295	8.1	10.5	11.9	108	8000	2100	180
JULY											
25...	--	--	--	400	8.0	15.0	9.8	96	7700	3300	880
AUG.											
27...	--	--	--	390	7.6	18.0	7.6	80	52000	5000	930
SEP.											
30...	--	--	--	325	7.7	11.0	11.6	115	40000	B17000	1900

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

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, at gaging station at bridge on Wall Street, in Homer, and 3.4 mi (5.5 km) upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 mi^2 (185 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
NOV.												
19...	1330	27	3.6	170	40	--	49	--	13	--	9.5	--
FEB.												
13...	0930	96	3.5	160	20	--	49	--	12	--	7.8	--
APR.												
04...	1925	1670	2.6	--	--	--	18	--	4.0	--	3.5	--
JUNE												
13...	1130	79	2.6	160	20	45	--	13	--	8.3	--	.9
SEP.												
30...	1000	56	3.6	400	30	40	--	10	--	7.5	--	1.4

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
NOV.											
19...	1.3	184	0	151	21	17	--	.3	1.5	.00	1.5
FEB.											
13...	1.1	170	0	139	19	17	--	.1	2.0	.01	2.0
APR.											
04...	2.0	59	0	48	13	7.2	--	.2	1.2	.00	1.2
JUNE											
13...	--	175	0	144	17	19	.2	--	1.4	.02	1.4
SEP.											
30...	--	147	0	121	12	29	.1	--	1.0	.00	1.0

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV.											
19...	205	180	25	380	7.7	4.0	14.2	108	480	270	200
FEB.											
13...	193	170	32	362	7.8	1.5	14.8	110	B30	22	B15
APR.											
04...	80	61	13	149	6.9	7.0	--	--	--	--	--
JUNE											
13...	--	--	--	420	7.7	17.0	8.0	84	B11000	460	41
SEP.											
30...	--	--	--	370	7.3	12.5	8.6	80	24000	7100	2100

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

01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°35'48", long 76°09'28", Cortland County, at Cortland Sewage Treatment Plant at Cortland, 0.1 mi (0.2 km) downstream from bridge on State Highway 11, and 0.4 mi (0.6 km) downstream from gaging station.

DRAINAGE AREA.--292 mi^2 (756 km^2), at gaging station including 14.0 mi^2 (36.3 km^2), the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957.
Water temperatures: October 1956 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 20.0°C July 5; minimum, freezing point on several days during December to February.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature records furnished by the city of Cortland.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	9.5	4.5	2.0	1.0	2.5	3.5	11.5	13.0	14.0	15.5	16.0
2	12.5	9.0	4.0	1.5	0.5	3.0	2.5	10.0	13.0	14.0	16.0	15.0
3	13.0	8.0	4.0	2.0	1.0	3.5	3.0	9.0	13.5	17.5	15.5	14.0
4	13.0	7.5	6.5	2.5	1.0	3.0	6.0	8.5	14.5	19.0	17.0	13.5
5	12.5	7.5	9.0	1.5	0.5	3.5	6.0	9.0	15.0	20.0	15.5	13.5
6	11.5	6.0	7.0	1.5	1.0	2.0	3.5	9.0	15.0	18.5	16.0	14.0
7	11.5	6.5	5.0	2.5	2.0	4.0	3.0	8.5	14.5	18.5	15.0	15.0
8	11.5	6.5	4.0	1.5	1.0	3.5	3.0	9.0	14.5	18.5	14.5	14.0
9	13.0	6.0	3.5	0.0	1.0	3.0	2.5	9.5	15.5	18.5	15.5	14.0
10	12.0	6.0	3.0	1.0	1.0	3.0	2.0	9.0	17.0	18.5	15.0	15.0
11	11.0	6.5	3.0	3.0	1.5	3.0	3.0	8.5	16.0	17.0	15.0	15.0
12	11.5	6.5	3.0	2.0	1.5	2.5	4.5	11.0	16.0	16.0	15.0	15.5
13	12.0	6.5	3.0	0.5	2.0	1.5	6.0	9.0	15.0	15.5	17.5	18.0
14	12.0	7.0	3.5	0.0	2.0	2.0	7.0	9.0	14.0	15.0	17.0	15.0
15	12.5	6.5	2.0	3.0	1.5	3.0	7.5	13.5	14.0	16.0	16.0	14.5
16	10.0	6.0	1.5	4.0	1.0	3.5	5.0	12.5	13.5	16.5	15.5	13.5
17	12.0	6.0	0.0	2.0	2.0	1.5	6.5	13.0	13.0	16.5	16.0	13.0
18	9.5	6.5	1.0	0.0	2.5	1.5	7.5	13.0	14.0	16.0	17.0	13.0
19	11.0	7.0	0.0	0.0	3.0	2.0	7.5	13.0	14.0	16.5	17.0	12.0
20	10.0	7.0	1.0	2.0	3.5	3.0	7.0	12.5	14.5	15.0	17.0	15.0
21	10.0	6.5	0.0	1.0	3.0	2.0	7.5	12.5	13.0	14.5	17.0	14.5
22	8.5	8.0	0.0	3.0	3.0	2.0	10.0	15.0	15.0	15.0	17.0	13.5
23	9.0	7.5	0.5	4.5	0.0	2.0	9.5	15.0	14.5	14.0	17.0	9.5
24	9.0	7.0	0.0	2.0	0.0	2.5	7.5	15.0	14.0	14.0	17.0	10.0
25	10.0	9.5	0.0	0.5	1.0	2.0	8.0	12.5	13.5	14.5	16.0	10.0
26	10.0	6.0	1.5	2.5	1.5	3.0	8.0	11.5	13.0	14.5	15.5	10.0
27	10.0	7.5	0.5	4.0	1.0	3.0	9.0	10.5	13.5	15.0	17.0	10.0
28	9.0	8.5	1.5	3.0	2.5	3.5	9.5	11.0	14.0	16.5	16.5	12.0
29	9.5	7.0	1.5	4.0	---	3.0	12.0	11.5	14.0	16.5	15.0	12.5
30	10.0	5.5	2.0	4.5	---	3.0	12.0	11.5	14.0	16.0	15.5	11.5
31	8.0	---	1.0	3.5	---	2.5	---	14.0	---	17.0	16.0	---
AVERAGE	11.0	7.0	2.5	2.0	1.5	2.5	6.5	11.0	14.5	16.5	16.0	13.5

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'13", long 75°58'10", Broome County, at C.F.J. Memorial Bridge in Johnson City and 3.0 mi (4.8 km) downstream from Chenango River.

DRAINAGE AREA.--3,891 mi^2 (10,078 km^2), below mouth of Chenango River.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
10...	1130	--	--	--	--	--	--	--	1.5	.00
DEC.										
05...	1230	--	--	--	--	--	--	--	.87	.01
FEB.										
07...	1200	--	--	--	--	--	--	--	1.3	.01
MAY										
02...	1200	--	350	20	--	--	--	--	.97	.02
30...	1230	--	--	--	--	--	--	--	.65	.01
JUNE										
11...	1200	--	--	--	--	--	--	--	.70	.06
AUG.										
28...	1200	1.3	240	70	122	0	100	.1	.27	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT.										
10...	--	--	.03	390	8.1	14.0	1	9.2	95	--
DEC.										
05...	.40	1.3	.04	270	7.8	6.0	4	12.0	108	.9
FEB.										
07...	.26	1.6	.02	240	7.0	.0	2	16.7	114	3.1
MAY										
02...	.56	1.6	.04	290	7.2	11.0	3	11.6	106	.8
30...	.30	.96	.02	240	7.5	14.5	4	9.4	91	1.8
JUNE										
11...	.99	1.8	.04	315	7.6	22.5	2	8.0	93	4.5
AUG.										
28...	.33	.60	.04	320	7.5	22.0	5	7.8	91	9.0

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT.										
10...	--	46000	390	--	3.0	--	--	--	0	--
DEC.										
05...	--	B49000	1400	--	8.0	--	--	--	<1	--
FEB.										
07...	--	300	290	--	1.0	--	--	--	0	--
MAY										
02...	2.6	9800	B140	B60	2.3	.02	--	--	5	0
30...	1.2	2700	390	B60	2.7	--	--	--	0	--
JUNE										
11...	9.7	B270000	7100	620	3.0	--	--	--	0	--
AUG.										
28...	2.5	--	B23000	--	4.2	.01	.0	0	<1	--

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

CONTINUED NEXT PAGE

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 10...	--	--	--	3	<.5	--	--	--	--
DEC. 05...	--	--	--	3	.7	--	--	--	--
FEB. 07...	--	--	--	1	<.5	--	--	--	--
MAY 02...	3	10	10	2	<.5	--	0	4	--
30...	0	10	0	0	<.5	--	--	--	--
JUNE 11...	2	20	10	2	<.5	--	--	--	--
AUG. 28...	3	0	0	6	<.5	14	<2	--	3.0

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 30...	1230	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 30...	.00	.00	.00	.00	.00	.0	0	.00	.14	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 30...	1230	.0	0	.0	.0	.0	.0	.0	.0	.0
AUG. 28...	1200	.0	0	.5	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 30...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 28...	.0	.0	.0	.0	.0	.0	.0	0	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 28...	1200	<1.8	3.7	3.0	170	<.4	1.0	.9	7

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, at intake of the New York State and Gas Corporation, Goudey Station, at Johnson City, 100 ft (30 m) upstream from Little Choconut Creek, 0.5 mi (0.8 km) downstream from C.F.J. Memorial Bridge, 3.5 mi (5.6 km) downstream from Chenango River and 4.8 mi (7.7 km) upstream from former gaging station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi^2 (10,078 km^2), below mouth of Chenango River.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1974. Prior to October 1967, published as 01513500, "at Vestal."

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C June 11, July 10, 15, 18 and Aug. 14; minimum, freezing point on many days during December to March.

Period of record:
Water temperatures: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965 and July 18, 1968; minimum freezing point on many days during winter periods.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures which are slightly above actual river temperatures. No record Oct. 7, Nov. 25-30, Jan. 5-6, Apr. 8, Aug. 12, Sept. 23-30.

COOPERATION.--Water temperature records furnished by the New York State Electric and Gas Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	10.0	1.0	0.0	1.0	0.5	1.0	14.5	15.5	18.5	21.5	20.0
2	15.5	9.5	0.0	0.0	0.5	0.5	2.0	12.0	16.0	19.5	21.5	19.5
3	16.5	10.5	0.0	0.5	0.5	1.0	2.0	12.0	16.0	21.0	23.0	20.0
4	18.0	8.5	3.0	0.5	0.0	2.0	4.5	10.5	16.5	20.5	23.0	16.0
5	19.0	6.5	6.5	---	0.5	2.0	6.0	9.0	19.0	21.0	21.0	15.0
6	16.0	6.0	7.0	---	0.0	1.5	5.0	10.0	20.0	20.0	21.5	15.0
7	---	4.5	4.5	0.5	0.0	3.0	3.0	8.5	20.0	20.5	22.0	15.5
8	14.5	4.5	2.0	0.5	0.0	3.5	---	8.0	20.0	21.5	21.5	16.5
9	15.5	5.0	2.0	0.5	0.0	2.0	3.0	10.0	21.0	23.0	22.0	18.5
10	16.0	3.5	1.0	1.0	0.0	1.5	1.5	10.5	23.5	24.0	21.0	19.0
11	16.0	3.5	1.5	1.0	0.0	1.0	2.0	8.5	24.0	22.0	21.0	19.5
12	14.5	4.0	1.5	0.5	0.0	1.5	4.0	11.0	21.0	20.5	---	21.0
13	15.0	5.0	0.5	1.0	0.0	0.5	5.5	10.5	18.5	21.0	23.0	21.5
14	15.0	7.0	0.5	0.5	0.0	0.5	6.5	9.5	19.0	22.0	24.0	21.0
15	14.0	8.5	0.5	0.5	0.5	0.5	9.0	12.0	19.5	24.0	23.0	16.5
16	13.0	9.0	0.5	1.0	0.5	2.0	6.0	14.0	20.0	23.0	22.0	17.0
17	10.5	5.5	1.0	0.5	0.5	1.0	6.0	15.5	18.5	21.5	23.0	16.5
18	9.5	5.0	0.5	0.5	0.5	0.0	7.0	14.5	19.0	24.0	21.5	17.0
19	9.0	6.0	0.5	0.5	1.0	0.5	8.5	15.0	19.5	23.5	21.0	16.0
20	10.5	5.0	0.5	0.5	1.0	0.5	8.5	14.5	20.0	22.0	21.5	18.0
21	10.5	5.0	0.5	0.5	1.0	1.5	8.5	14.5	21.0	20.5	23.0	18.0
22	10.5	6.0	0.5	0.5	2.0	0.5	10.5	16.0	19.5	21.0	23.0	14.0
23	10.5	6.0	1.0	0.0	0.0	0.5	11.0	17.0	21.0	21.5	23.5	---
24	10.0	6.5	1.5	0.0	0.0	1.5	9.5	16.5	19.0	19.5	23.5	---
25	10.5	---	0.5	0.0	0.0	0.5	7.0	15.0	20.0	17.0	21.5	---
26	10.5	---	1.5	0.0	0.0	0.5	8.5	19.5	18.5	19.5	21.0	---
27	11.0	---	1.5	1.0	0.0	1.0	9.0	12.0	18.0	19.0	21.5	---
28	10.0	---	1.0	1.0	0.0	1.5	11.0	13.0	19.0	21.5	22.0	---
29	9.0	---	1.5	1.0	---	1.5	14.0	14.0	18.5	23.5	20.0	---
30	10.0	---	1.5	1.0	---	0.5	15.5	13.5	17.0	23.0	20.0	---
31	9.0	---	4.0	1.0	---	0.5	---	15.0	---	22.0	19.5	---
AVERAGE	13.0	6.5	1.5	0.5	0.5	1.5	7.0	13.0	19.0	21.5	22.0	---

01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, in Lindley, 800 ft (244 m) downstream from gaging station 1,000 ft (305 m) downstream from bridge on County Highway 120, and 6 mi (10 km) upstream from Canisteo River.

DRAINAGE AREA.--771 mi^2 (1,997 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1964 to October 1965 (partial-record station), September 1973 to September 1974.
Water temperatures: August to September 1974.
Sediment records: August to September 1974.

REMARKS.--Daily specific conductance records not available October 1973 through July 1974.

CHEMICAL ANALYSES, SEPTEMBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
SEP., 1973									
05...	1445	178	61	0	49	23	14	.50	.21
OCT.									
09...	1825	182	48	0	39	61	16	.08	.04
NOV.									
06...	1600	405	38	0	31	49	8.5	.34	.16
DEC.									
11...	1550	1630	24	0	20	35	6.8	.66	.04
JAN., 1974									
08...	1450	440	32	0	26	46	15	1.0	.13
FEB.									
14...	1530	E500	35	0	29	31	10	.70	.20
MAR.									
14...	1400	E1160	24	0	19	28	5.4	.77	.09
APR.									
03...	1710	3280	24	0	18	23	4.0	.70	.16
MAY									
02...	1430	604	38	0	31	39	7.4	.20	.08
JUNE									
13...	1430	172	44	0	36	56	10	.36	.13
JULY									
18...	1245	119	36	0	30	73	12	.09	.07
AUG.									
15...	1355	63	42	0	34	92	17	.16	.16
SEP.									
13...	1500	83	44	0	36	84	20	.18	.09

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
SEP., 1973									
05...	.23	.44	.09	.06	256	7.5	27.5	10.0	125
OCT.									
09...	.16	.20	.03	.02	268	6.8	17.0	10.2	105
NOV.									
06...	.25	.41	.05	.02	182	7.0	5.0	11.6	91
DEC.									
11...	.23	.27	.07	.05	148	6.7	2.5	12.7	93
JAN., 1974									
08...	.21	--	.03	.01	200	6.2	.0	13.8	94
FEB.									
14...	.35	.55	.05	.03	153	6.7	.5	14.0	97
MAR.									
14...	.18	.27	.02	.02	143	6.7	2.0	13.4	97
APR.									
03...	.45	.61	.10	.03	118	6.2	6.5	12.2	99
MAY									
02...	.20	.28	.03	.01	172	7.4	14.0	10.7	103
JUNE									
13...	.22	.35	.02	.01	216	7.2	20.0	--	--
JULY									
18...	.15	.22	.01	.00	269	7.2	24.0	9.0	106
AUG.									
15...	.22	.38	.02	.00	328	7.4	25.0	9.2	110
SEP.									
13...	.16	.25	.01	.00	342	7.4	24.0	8.4	99

E Estimated value.

01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974.

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.							
14...	1130	--	1	--	--	--	10
APR.							
22...	1320	--	1	--	--	--	10
MAY							
02...	1430	700	1	0	0	9	20
JUNE							
13...	1430	0	1	0	<10	9	10
JULY							
16...	1245	280	1	1	0	38	20
AUG.							
12...	1425	--	1	--	--	--	10
15...	1355	80	0	0	0	13	0
SEP.							
13...	1500	80	1	0	<10	20	10

DATE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.							
14...	--	5	--	<.5	--	--	--
APR.							
22...	--	0	--	<.5	--	--	--
MAY							
02...	490	14	570	<.5	0	0	130
JUNE							
13...	180	1	890	<.5	<1	0	60
JULY							
18...	0	1	2300	<.5	<1	0	310
AUG.							
12...	--	1	--	<.5	--	--	--
15...	70	0	1200	<.5	0	0	100
SEP.							
13...	150	2	1500	<.5	2	0	200

CONTINUED NEXT PAGE

01520500 TIOGA RIVER AT LINDLEY, N.Y.--Continued

CHEMICAL ANALYSES, SEPTEMBER 1973 TO SEPTEMBER 1974

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C)
AUGUST TO SEPTEMBER 1974

DAY	AUG	SEP
1	277	327
2	---	304
3	323	270
4	310	184
5	319	220
6	287	245
7	293	268
8	280	284
9	298	309
10	294	316
11	305	329
12	328	333
13	309	342
14	330	339
15	318	311
16	335	295
17	---	308
18	366	301
19	389	331
20	375	337
21	381	328
22	392	229
23	379	177
24	383	225
25	361	243
26	379	268
27	378	285
28	391	295
29	405	304
30	378	302
31	357	---
AVERAGE	342	287

TEMPERATURE (°C) OF WATER, AUGUST TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT)

DAY	AUG	SEP
1	22.5	20.5
2	---	21.0
3	22.5	17.5
4	23.5	15.0
5	21.0	15.5
6	21.5	16.5
7	25.0	16.0
8	23.5	20.0
9	22.0	20.0
10	22.5	20.0
11	22.5	21.0
12	22.5	21.5
13	23.5	23.0
14	25.0	20.0
15	24.0	18.0
16	24.0	18.0
17	---	18.0
18	25.0	17.5
19	24.0	17.0
20	23.5	18.5
21	24.5	18.0
22	24.5	13.0
23	24.5	11.0
24	23.5	10.0
25	21.5	---
26	23.0	11.0
27	24.5	13.0
28	23.0	16.0
29	20.0	18.0
30	20.0	14.5
31	22.0	---
AVERAGE	23.0	17.0

SUSPENDED-SEDIMENT DISCHARGE, AUGUST TO SEPTEMBER 1974

	AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	113	9	2.7	113	12	3.7
2	95	10	2.6	154	16	6.7
3	88	11	2.6	440	50	59
4	125	9	3.0	891	95	229
5	165	7	3.1	336	21	19
6	128	9	3.1	214	14	8.1
7	105	7	2.0	165	14	6.2
8	90	5	1.2	137	12	4.4
9	88	6	1.4	119	10	3.2
10	93	4	1.0	103	11	3.1
11	85	3	.69	95	8	2.1
12	77	4	.83	88	11	2.6
13	77	5	1.0	83	10	2.2
14	70	3	.57	144	13	5.1
15	62	6	1.0	134	16	5.8
16	59	5	.80	98	13	3.4
17	61	6	.99	83	6	1.3
18	66	8	1.4	79	3	.64
19	68	6	1.1	90	6	1.5
20	66	10	1.8	90	7	1.7
21	61	12	2.0	137	17	6.3
22	56	11	1.7	703	80	152
23	52	9	1.3	331	24	21
24	49	7	.93	230	13	8.1
25	49	10	1.3	186	10	5.0
26	49	10	1.3	165	7	3.1
27	46	7	.87	147	6	2.4
28	56	12	1.8	125	6	2.0
29	66	30	5.3	116	6	1.9
30	108	8	2.3	151	5	2.0
31	168	13	5.9	--	--	--
TOTAL	2541	--	57.58	5947	--	572.54

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, at gaging station at highway bridge, 1.3 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi^2 (173 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
18...	1130	3.9	.7	40	20	--	45	--	11	--	8.2
NOV.											
20...	1000	9.4	2.2	240	30	--	45	--	11	--	10
DEC.											
19...	1400	30	4.9	370	40	--	35	--	8.4	--	8.0
JAN.											
23...	1400	193	4.1	900	70	--	18	--	5.0	--	4.3
FEB.											
21...	1500	54	3.4	370	40	--	27	--	6.5	--	6.0
MAR.											
18...	1100	44	4.0	320	50	--	25	--	6.2	--	5.0
APR.											
22...	1030	66	2.1	530	40	25	--	5.6	--	4.1	--
MAY											
21...	1100	56	3.5	660	50	22	--	5.8	--	5.0	--
JUNE											
19...	1030	15	3.5	770	70	38	--	8.2	--	9.0	--
JULY											
23...	1030	4.2	--	370	60	41	--	11	--	10	--
AUG.											
23...	1000	4.2	--	210	60	41	--	11	--	9.1	--
SEP.											
18...	1030	5.2	--	1700	70	42	--	10	--	9.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
18...	--	2.0	154	0	126	31	14	--	.4	.22	.00
NOV.											
20...	--	2.2	132	0	108	45	17	--	.2	.42	.00
DEC.											
19...	--	1.9	92	0	75	40	12	--	.3	1.0	.06
JAN.											
23...	--	1.3	45	0	37	27	2.8	--	.1	1.1	.03
FEB.											
21...	--	1.2	78	0	64	28	10	--	.0	.86	.01
MAR.											
18...	--	2.5	67	0	55	27	8.8	--	.0	1.2	.00
APR.											
22...	1.4	--	68	0	56	25	7.5	.2	--	.71	.01
MAY											
21...	1.4	--	70	0	57	24	8.6	.1	--	.37	.01
JUNE											
19...	1.4	--	112	0	92	25	13	.2	--	.65	.02
JULY											
23...	1.5	--	152	0	125	33	16	--	--	.29	.01
AUG.											
23...	1.0	--	149	0	122	--	19	--	--	.12	.01
SEP.											
18...	1.6	--	137	0	112	33	19	--	--	.15	.00

CONTINUED NEXT PAGE

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT.										
18...	.01	.19	.20	.42	.10	--	.01	188	212	182
NOV.										
20...	.05	.14	.19	.61	.02	--	.01	198	220	164
DEC.										
19...	.06	.17	.23	1.3	.05	--	.04	156	181	149
JAN.										
23...	.17	.19	.36	1.5	.06	--	.03	85	146	95
FEB.										
21...	.02	.25	.27	1.1	.06	--	.05	121	149	118
MAR.										
18...	.13	.06	.19	1.4	.06	--	.04	112	140	109
APR.										
22...	.20	.06	.26	.98	.04	.02	--	--	116	104
MAY										
21...	.06	.40	.46	.84	.07	.01	--	--	152	118
JUNE										
19...	.10	.40	.50	1.2	.10	.05	--	--	199	162
JULY										
23...	.36	.00	.21	.51	.06	.03	--	--	234	182
AUG.										
23...	.02	.35	.37	.50	.05	.02	--	--	239	181
SEP.										
18...	.22	.09	.31	.46	.03	.01	--	--	217	189

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.										
18...	0	0	124	0	400	7.9	6.0	--	--	13.0
NOV.										
20...	5	0	158	50	400	7.8	1.0	--	--	14.0
DEC.										
19...	10	9	108	33	310	7.6	.0	--	--	13.6
JAN.										
23...	18	13	63	26	210	7.3	.0	--	--	14.0
FEB.										
21...	10	8	92	28	300	7.4	.0	--	--	13.6
MAR.										
18...	7	6	83	28	260	7.3	.0	--	--	14.3
APR.										
22...	8	7	--	--	280	7.3	5.0	--	--	13.4
MAY										
21...	13	9	--	--	230	7.3	13.0	--	--	9.8
JUNE										
19...	12	10	--	--	305	7.5	16.0	--	--	8.8
JULY										
23...	5	4	--	--	430	7.7	18.0	4	4	8.6
AUG.										
23...	2	0	--	--	390	7.9	21.0	2	5	8.8
SEP.										
18...	3	2	--	--	400	7.3	13.5	4	2	9.8

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
18...	109	9	590	52	--	.0	6	0	0	<.5
NOV.										
20...	99	11	830	36	--	.0	--	--	--	--
DEC.										
19...	93	12	800	--	--	.0	--	--	--	--
JAN.										
23...	115	12	1400	160	--	.0	--	--	--	--
FEB.										
21...	106	9	810	814	--	.0	--	--	--	--
MAR.										
18...	116	8	41	47	--	.0	--	0	6	--
APR.										
22...	106	11	1300	72	--	.0	--	--	--	--
MAY										
21...	93	15	1200	190	--	.0	--	--	--	--
JUNE										
19...	90	16	4700	300	--	.0	--	--	--	--
JULY										
23...	91	13	B32000	380	--	--	--	--	--	--
AUG.										
23...	101	16	--	--	4.3	--	8	0	0	<.5
SEP.										
18...	93	17	--	--	6.3	--	--	--	--	--

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

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.

LOCATION.--Lat 42°01'02", long 76°43'24", Chemung County, at bridge on State Highway 367 in Wellsburg, 0.4 mi (0.6 km) downstream from Bentley Creek and 6.3 mi (10.1 km) upstream from gaging station (01531000) at Chemung.

DRAINAGE AREA.--2,506 mi^2 (6,491 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
10...	0930	--	--	--	--	--	--	--	.54	.05
DEC.										
05...	1000	--	--	--	--	--	--	--	.59	.02
FEB.										
07...	1000	--	--	--	--	--	--	--	1.1	.01
MAY										
02...	0930	--	780	140	--	--	--	--	.50	.02
30...	1000	--	--	--	--	--	--	--	.41	.04
JUNE										
11...	1000	--	--	--	--	--	--	--	.42	.11
AUG.										
28...	0900	2.7	390	130	147	0	121	.3	.65	.17

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT.										
10...	.41	1.0	.16	430	7.7	15.0	6	9.0	91	4.0
DEC.										
05...	.26	.87	.03	310	7.5	5.5	6	12.4	110	1.7
FEB.										
07...	.28	1.4	.06	280	7.2	.0	4	15.2	104	1.5
MAY										
02...	.31	.83	.07	300	7.6	11.5	7	10.0	94	6.9
30...	.61	1.1	.08	320	7.6	15.5	6	9.0	89	1.9
JUNE										
11...	.92	1.5	.17	420	7.6	23.0	6	5.4	64	4.3
AUG.										
28...	.71	1.5	.26	500	7.3	23.0	10	4.4	50	18

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT.										
10...	--	33000	B100	--	3.6	--	--	--	1	--
DEC.										
05...	--	17000	490	--	11	--	--	--	1	--
FEB.										
07...	--	4400	2100	--	3.0	--	--	--	<1	--
MAY										
02...	16	14000	B60	B50	--	.00	--	--	2	0
30...	5.4	6200	B960	B20	2.3	--	--	--	0	--
JUNE										
11...	7.3	B280000	B37000	820	3.3	--	--	--	<1	--
AUG.										
28...	3.0	--	870	--	6.2	.01	.0	2	2	--

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

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 10...	--	--	--	5	<.5	--	--	--	--
DEC. 05...	--	--	--	3	.8	--	--	--	--
FEB. 07...	--	--	--	0	<.5	--	--	--	--
MAY 02...	0	<10	10	2	<.5	--	0	0	--
30...	0	10	10	2	<.5	--	--	--	--
JUNE 11...	0	10	10	1	<.5	--	--	--	--
AUG. 28...	0	<10	0	3	<.5	7	0	--	1.3

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 30...	1000	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 30...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 30...	1000	.0	0	.4	.0	.0	.0	.1	.0	.0
AUG. 28...	0900	.4	0	.0	.0	.0	.0	.4	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 30...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 28...	.0	.0	.0	.0	.0	.0	.0	4	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 28...	0900	<3.4	4.9	3.9	310	<.4	.5	.4	10

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, at gaging station 300 ft (91 m) downstream from bridge on State Highway 394 in Waterboro, 0.2 mi (0.3 km) downstream from Davis Brook, and 1.9 mi (3.1 km) northeast of Kennedy.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
23...	1330	78	6.0	1000	160	--	37	--	7.5	--	6.0
NOV.											
20...	1430	382	4.4	380	50	--	27	--	5.5	--	4.5
DEC.											
17...	1400	300	4.4	380	100	--	35	--	6.5	--	5.0
JAN.											
21...	1200	980	3.9	1200	80	--	24	--	4.6	--	4.4
FEB.											
19...	1300	229	4.2	560	120	--	36	--	6.4	--	4.5
MAR.											
19...	1400	692	3.5	650	60	--	26	--	5.0	--	4.2
APR.											
22...	1500	499	2.3	1100	120	25	--	5.3	--	3.8	--
MAY											
21...	1500	519	3.1	1200	190	27	--	5.4	--	4.0	--
JUNE											
19...	1430	124	4.2	1100	160	37	--	7.0	--	5.1	--
JULY											
23...	1500	55	--	1000	270	45	--	9.0	--	6.2	--
AUG.											
21...	1200	43	--	680	190	46	--	8.8	--	6.8	--
SEP.											
18...	1430	63	--	1000	190	43	--	6.7	--	7.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
23...	--	1.9	133	0	109	21	8.5	--	.2	.55	.00
NOV.											
20...	--	2.0	80	0	66	25	7.4	--	.2	.62	.00
DEC.											
17...	--	1.6	98	0	80	24	7.9	--	.3	.81	.01
JAN.											
21...	--	1.3	63	0	52	22	8.5	--	.1	.97	.03
FEB.											
19...	--	1.2	109	0	89	24	8.5	--	.1	.91	.01
MAR.											
19...	--	1.5	73	0	60	19	8.5	--	.0	.92	.00
APR.											
22...	1.2	--	83	0	68	18	6.9	.2	--	.60	.02
MAY											
21...	1.3	--	96	0	79	17	6.0	.2	--	.43	.01
JUNE											
19...	1.0	--	127	0	104	21	9.2	.2	--	.64	.02
JULY											
23...	1.4	--	149	0	122	29	10	--	--	.46	.01
AUG.											
21...	1.2	--	147	0	121	27	13	--	--	.37	.01
SEP.											
18...	1.6	--	146	0	120	21	12	--	--	.47	.01

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
OCT.										
23...	.01	.27	.28	.84	.05	--	.02	154	190	145
NOV.										
20...	.03	.14	.17	.79	.04	--	.02	116	146	112
DEC.										
17...	.05	.12	.17	.99	.02	--	.02	133	149	110
JAN.										
21...	.11	.26	.37	1.4	.07	--	.03	100	165	108
FEB.										
19...	.04	.04	.08	1.0	.02	--	.01	139	154	123
MAR.										
19...	.10	.11	.21	1.1	.04	--	.02	104	134	104
APR.										
22...	.24	.10	.34	.96	.04	.02	--	--	132	122
MAY										
21...	.07	.48	.55	.99	.06	.01	--	--	165	132
JUNE										
19...	.12	.28	.40	1.1	.05	.02	--	--	199	157
JULY										
23...	.24	.00	.19	.66	.06	.01	--	--	239	185
AUG.										
21...	.11	.24	.35	.73	.04	.01	--	--	224	198
SEP.										
18...	.15	.22	.37	.85	.08	.02	--	--	213	188

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT.										
23...	9	5	120	14	360	7.6	8.0	--	--	9.4
NOV.										
20...	10	10	91	25	260	7.5	3.0	--	--	13.8
DEC.										
17...	9	8	105	25	260	7.6	.0	--	--	15.0
JAN.										
21...	30	22	70	18	235	7.1	.0	--	--	13.4
FEB.										
19...	7	6	108	19	252	7.2	.5	--	--	13.6
MAR.										
19...	13	11	80	20	240	7.2	.0	--	--	13.8
APR.										
22...	24	15	--	--	300	7.1	6.0	--	--	12.0
MAY										
21...	19	12	--	--	260	6.9	17.0	--	--	6.9
JUNE										
19...	17	13	--	--	310	7.2	17.0	--	--	7.4
JULY										
23...	21	18	--	--	370	7.2	20.0	1	10	8.7
AUG.										
21...	8	6	--	--	390	7.7	21.0	2	8	9.3
SEP.										
18...	14	10	--	--	365	7.4	16.0	2	9	9.5

CONTINUED NEXT PAGE

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
23...	94	9	670	120	--	.0	<1	10	1	<.5
NOV.										
20...	103	11	570	210	--	.0	--	--	--	--
DEC.										
17...	103	9	2300	--	--	.0	--	--	--	--
JAN.										
21...	105	12	1100	B1200	--	.0	--	--	--	--
FEB.										
19...	108	4	850	66	--	.0	--	--	--	--
MAR.										
19...	110	4	580	B1600	--	.0	--	--	--	--
APR.										
22...	97	12	1700	B370	--	.0	--	--	--	--
MAY										
21...	71	18	810	190	--	.0	--	--	--	--
JUNE										
19...	74	13	2700	190	--	.0	--	--	--	--
JULY										
23...	96	11	B12000	61	--	--	--	--	--	--
AUG.										
21...	103	13	--	--	2.8	--	1	0	3	<.5
SEP.										
18...	96	13	--	--	--	--	--	--	--	--

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

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, at gaging station in Gardenville, 300 ft (91 m) downstream from bridge on Union Road, and 2 mi (3.2 km) upstream from Cayuga Creek.

DRAINAGE AREA.--144 mi^2 (373 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, July 1966 to September 1974.
Water temperatures: October 1961 to September 1962.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT. 23...	1630	21	1.4	140	20	--	56	--	14	--	12
NOV. 20...	1730	90	3.8	150	10	--	55	--	11	--	14
DEC. 17...	1800	50	2.4	110	20	--	58	--	12	--	15
JAN. 22...	1200	838	3.7	3200	90	--	31	--	5.8	--	9.2
FEB. 19...	1730	160	3.0	170	20	--	59	--	12	--	14
MAR. 20...	1700	171	3.6	290	10	--	45	--	8.7	--	11
APR. 22...	1730	120	.5	250	80	47	--	9.5	--	8.2	--
MAY 22...	0930	116	.4	470	400	52	--	10	--	8.6	--
JUNE 20...	0900	53	.6	240	40	53	--	11	--	9.5	--
JULY 24...	1030	14	--	230	20	43	--	14	--	12	--
AUG. 21...	1600	16	--	140	30	33	--	11	--	11	--
SEP. 19...	1000	21	--	140	30	43	--	12	--	11	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 23...	--	2.8	188	0	154	49	19	--	.2	.10	.00
NOV. 20...	--	3.4	145	0	119	67	23	--	.3	.66	.00
DEC. 17...	--	3.0	166	0	136	67	25	--	.1	.74	.01
JAN. 22...	--	2.2	70	0	57	36	18	--	.1	1.1	.06
FEB. 19...	--	1.8	161	0	132	48	26	--	.1	1.2	.01
MAR. 20...	--	2.1	118	0	97	42	22	--	.0	1.1	.00
APR. 22...	1.8	--	142	1	118	40	16	.1	--	.97	.02
MAY 22...	1.6	--	145	0	119	37	14	.1	--	.23	.01
JUNE 20...	2.2	--	163	0	134	32	17	.2	--	.52	.02
JULY 24...	2.4	--	143	0	117	48	21	--	--	.03	.00
AUG. 21...	2.5	--	100	0	82	44	20	--	--	.02	.00
SEP. 19...	1.9	--	152	0	125	39	20	--	--	.01	.00

CONTINUED NEXT PAGE

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
OCT.										
23...	.01	.23	.24	.35	.02	--	.00	247	238	168
NOV.										
20...	.05	.29	.34	1.0	.01	--	.00	249	288	231
DEC.										
17...	.01	.18	.19	.94	.01	--	.00	264	300	266
JAN.										
22...	.12	.55	.67	1.9	.12	--	.03	141	237	206
FEB.										
19...	.00	.16	.16	1.4	.01	--	.00	243	270	216
MAR.										
20...	.09	.10	.19	1.3	.02	--	.01	193	230	187
APR.										
22...	.15	.06	.21	1.2	.02	.01	--	--	219	194
MAY										
22...	.07	.26	.33	.57	.01	.00	--	--	271	210
JUNE										
20...	.02	.33	.35	.89	.02	.00	--	--	259	212
JULY										
24...	.28	.00	.25	.28	.02	.01	--	--	275	202
AUG.										
21...	.14	.27	.41	.43	.02	.01	--	--	207	174
SEP.										
19...	.14	.08	.22	.23	.02	.01	--	--	240	214

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT.										
23...	0	0	200	43	415	8.1	10.0	--	--	10.6
NOV.										
20...	6	5	180	64	420	8.0	2.0	--	--	14.1
DEC.										
17...	5	4	190	58	500	7.9	.0	--	--	14.0
JAN.										
22...	89	78	100	44	300	7.6	.0	--	--	14.6
FEB.										
19...	5	4	200	65	430	8.2	.0	--	--	14.0
MAR.										
20...	8	7	150	51	339	8.0	.0	--	--	14.4
APR.										
22...	4	2	--	--	560	8.6	6.0	--	--	13.0
MAY										
22...	4	3	--	--	420	7.9	17.5	--	--	9.6
JUNE										
20...	5	0	--	--	420	8.0	18.0	--	--	9.2
JULY										
24...	4	2	--	--	450	7.8	18.0	2	3	8.7
AUG.										
21...	2	0	--	--	350	8.3	31.0	3	4	10.0
SEP.										
19...	4	2	--	--	445	7.7	10.5	2	3	11.2

ST. LAWRENCE RIVER BASIN

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
23...	94	7	4300	3800	--	.0	0	10	1	<.5
NOV.										
20...	105	11	<1	B180	--	.0	--	--	--	--
DEC.										
17...	96	11	B300	--	--	.0	--	--	--	--
JAN.										
22...	105	19	6500	2500	--	.0	--	--	--	--
FEB.										
19...	100	6	B100	B180	--	.0	--	--	--	--
MAR.										
20...	102	7	B30	B20	--	.0	--	--	--	--
APR.										
22...	103	11	3700	530	--	.0	--	--	--	--
MAY										
22...	100	11	7800	B170	--	.0	--	--	--	--
JUNE										
20...	96	14	42000	1100	--	.0	--	--	--	--
JULY										
24...	92	11	23000	1100	--	--	--	--	--	--
AUG.										
21...	133	15	--	--	5.0	--	0	10	4	<.5
SEP.										
19...	100	8	--	--	3.3	--	--	--	--	--

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

04218030 TONAWANDA CREEK AT MILLERSPORT, N.Y.

LOCATION.--Lat 43°05'10", long 78°41'50", at Erie-Niagara County line, at bridge on State Highway 78, in Millersport, 0.5 mi (0.8 km) upstream from Mud Creek.

DRAINAGE AREA.--357 mi^2 (925 km^2).

PERIOD OF RECORD.--October 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 09...	1330	--	--	--	--	--	--	--	1.3	.00
DEC. 04...	1330	--	--	--	--	--	--	--	.98	.01
FEB. 06...	0900	--	--	--	--	--	--	--	1.4	.02
APR. 30...	1530	--	590	50	--	--	--	--	.53	.01
MAY 29...	1100	--	--	--	--	--	--	--	.68	.02
JUNE 21...	0930	--	--	--	--	--	--	--	.94	.06
AUG. 22...	0900	2.8	810	110	219	0	180	.3	.27	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 09...	--	--	.13	--	7.8	13.0	8	9.1	99	--
DEC. 04...	.25	1.2	.03	541	7.9	3.5	15	13.2	117	3.8
FEB. 06...	.54	1.9	.06	591	7.6	.0	9	15.0	102	1.2
APR. 30...	.41	.95	.06	700	8.1	14.0	10	10.6	117	2.1
MAY 29...	.51	1.2	.09	770	7.8	16.0	20	8.7	89	4.4
JUNE 21...	.82	1.8	.19	595	7.6	20.0	60	8.1	88	1.9
AUG. 22...	.40	.67	.09	1100	7.7	23.0	20	7.2	86	6.0

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 09...	--	B8300	B970	--	27	--	--	--	1	--
DEC. 04...	--	5300	B130	--	17	--	--	--	<1	--
FEB. 06...	--	340	290	--	3.0	--	--	--	1	--
APR. 30...	4.7	2500	420	B30	5.8	.00	--	--	<1	0
MAY 29...	10	B2000	1100	92	6.6	--	--	--	2	--
JUNE 21...	10	B172000	B9900	5400	8.8	--	--	--	3	--
AUG. 22...	3.0	--	B130	--	8.3	.00	.0	0	0	--

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

04218030 TONAWANDA CREEK AT MILLERSPORT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 09...	--	--	--	2	<.5	--	--	--	--
DEC. 04...	--	--	--	2	.7	--	--	--	--
FEB. 06...	--	--	--	1	--	--	--	--	--
APR. 30...	0	10	0	0	<.5	--	2	0	--
MAY 29...	0	10	10	1	<.5	--	--	--	--
JUNE 21...	1	20	10	--	--	--	--	--	--
AUG. 22...	0	<10	0	6	<.5	13	<2	--	3.2

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 29...	1100	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.00	.00	.00	.00	.00	.0	0	.00	.03	.00	.02

DATE	TIME	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	1100	0	4.0	3.7	.0	2.2	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	190	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 22...	0900	<7.4	6.1	5.3	660	<.5	1.1	.9	19

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 43°15'40", long 79°03'47", Niagara County, on U.S. Coast Guard wharf at Old Fort Niagara, at mouth of Niagara River, and 1.0 mi (1.6 km) northwest of Youngstown.

DRAINAGE AREA.--265,000 mi^2 (686,350 km^2)

PERIOD OF RECORD.--Chemical analyses: May 1973 to September 1974.

REMARKS.--Discharge is estimated on the basis of records for 04216000 Niagara River at Buffalo.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
APR. 23...	0930	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	1530	.1	38	8.0	13	1.7	102	0	84	26	25	.2
JUNE 27...	0900	.3	38	8.3	11	1.5	111	0	91	30	28	.2
AUG. 13...	1400	.2	38	8.9	12	1.8	109	0	89	27	24	.2
SEP. 24...	1400	.3	38	8.8	13	1.6	111	0	91	21	27	.1

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TUR-BID-ITY (JTU)	TOTAL ORGANIC CARBON (C) (MG/L)
APR. 23...	--	--	--	--	--	--	--	--	--	--	--	2.6
MAY 15...	.32	.96	.03	217	162	17	12600	87	130	44	10	3.5
JUNE 27...	.29	.66	.03	202	172	4	2720	81	130	38	2	2.5
AUG. 13...	.41	.54	.02	201	166	7	4570	77	130	42	2	3.9
SEP. 24...	.34	.45	.02	196	165	--	--	--	130	40	2	--

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 24...	1100	225000	300	8.1	15.0	10.8	105	3700	110	B16
NOV. 21...	0900	222000	320	8.0	7.0	13.2	106	290	280	59
DEC. 18...	1500	224000	370	8.0	1.0	14.4	119	B160	--	--
JAN. 22...	1500	239000	355	7.3	.0	12.2	101	2600	680	B330
FEB. 20...	1730	242000	420	7.2	.0	15.2	104	200	B115	68
MAR. 20...	1230	248000	360	7.5	.0	14.8	101	B220	B200	49
APR. 23...	0930	267000	390	7.2	3.0	--	--	4400	550	160
MAY 15...	1530	274000	300	7.3	9.0	--	--	--	B100	46
JUNE 27...	0900	252000	310	7.5	14.0	--	--	19000	B34	B10
JULY 24...	0800	242000	410	7.4	15.0	--	--	22000	220	39
AUG. 13...	1400	242000	420	8.2	18.0	--	--	--	26	B3
SEP. 24...	1400	228000	380	7.2	16.0	--	--	--	B170	B7

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

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
MAY										
07...	2	--	--	--	--	--	--	--	--	--
15...	2	--	<1	0	0	0	<10	--	10	0
JUNE										
27...	5	5	0	110	74	36	10	10	0	0
AUG.										
13...	0	0	<1	35	14	21	0	--	<10	0

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
MAY										
07...	--	--	10	--	--	--	--	2	--	--
15...	0	0	10	10	0	290	90	0	--	2
JUNE										
27...	0	0	10	10	0	140	40	13	13	0
AUG.										
13...	0	0	10	10	0	90	40	11	7	4

DATE	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY									
07...	--	--	.7	--	--	--	--	--	--
15...	20	10	<.5	0	0	0	20	10	10
JUNE									
27...	10	10	<.5	2	0	2	30	10	20
AUG.									
13...	40	40	<.5	0	0	0	20	0	20

CONTINUED NEXT PAGE

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

May 15, 1974 1300 to 1505 Hours

Distance from left bank	400 ft (122 m)		800 ft (244 m)		1200 ft (366 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	280	8.0	290	11.0	295	11.0
10 3	310	7.0	300	7.0	305	10.0
middepth	310	7.0	310	7.0	300	7.0
60 18	305	7.0	310	7.0	300	7.0

June 27, 1974 0845 to 1042 Hours

Distance from left bank	400 ft (122 m)		800 ft (244 m)		1200 ft (366 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	280	15.0	280	15.0	225	16.0
10 3	290	14.0	300	14.0	310	14.0
middepth	310	14.0	310	14.0	310	14.0
70 21	310	14.0	310	14.0	310	14.0

August 13, 1974 1230 to 1444 Hours

Distance from left bank	400 ft (122 m)		800 ft (244 m)		1200 ft (366 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	420	19.0	420	20.0	392	22.0
10 3	420	19.0	420	19.0	406	19.0
middepth	420	19.0	420	19.0	420	19.0
60 18	420	19.0	420	19.0	420	19.0

September 24, 1974 1330 to 1427 Hours

Distance from left bank	400 ft (122 m)		800 ft (244 m)		1200 ft (366 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	380	15.0	362	15.0	380	14.0
10 3	374	15.0	380	14.0	380	14.0
middepth	380	15.0	380	14.0	374	14.0
60 18	374	15.0	380	14.0	386	14.0

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, N.Y.--Continued

PHYTOPLANKTON ANALYSES, MAY 1973 TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
May 8, 1973	1,300	Fragilaria	38
Aug. 22, 1973	1,700	Anacystis	60
Oct. 24, 1973	980	Oocystis	22
		Fragilaria	17
Dec. 18, 1973	1,100	Oscillatoria	22
Feb. 20, 1974	790	Melosira	21
		Lyngbya	19
		Cyclotella	16
Apr. 23, 1974	550	Tetrastrum	35
		Asterionella	24
		Ankistrodesmus	15
		Tabellaria	12
		Melosira	9
		Cyclotella	6
June 27, 1974	2,100	Cyclotella	54
		Lyngbya	31
		Coelastrum	12
		Tetraedron	2
		Navicula	1
		Uroglenopsis	1
Sep. 24, 1974	1,500	Fragilaria	77
		Oocystis	9
		Pediastrum	8
		Scenedesmus	4
		Cyclotella	2
		Chodatella	1
June 21, 1973	300	Oscillatoria	54
		Chlamydomonadaceae	18
Sep. 11, 1973	2,900	Anacystis	59
Nov. 21, 1973	660	Fragilaria	29
		Tabellaria	24
		Chlamydomonadaceae	15
Jan. 22, 1974	290	Cyclotella	26
		Tabellaria	26
Mar. 20, 1974	1,800	Lyngbya	48
		Tabellaria	15
May 15, 1974	660	Melosira	25
		Scenedesmus	18
		Lyngbya	14
		Cyclotella	11
		Tetrastrum	9
		Ankistrodesmus	9
		Nitzschia	5
		Glenodinium	5
		Tabellaria	2
		Staurastrum	2
Aug. 13, 1974	3,600	Sphaerocystis	25
		Lyngbya	17
		Fragilaria	12
		Oscillatoria	8
		Scenedesmus	8
		Oocystis	7
		Oedogonium	7
		Dictyosphaerium	6
		Cyclotella	4
		Anabaena	2
		Schroederia	2
		Melosira	1
		Surirella	<1
		Rhoicosphenia	<1
		Ceratium	<1
		Chodatella	<1

PERIPHYTON ANALYSES, AUGUST TO SEPTEMBER 1974

DATE	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M
Aug. 13 - Sep. 24	.0	.0

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.

LOCATION.--Lat 43°15'09", long 78°41'52", Niagara County, at bridge on Jacques Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 2.5 mi (4.0 km) south of Newfane.

DRAINAGE AREA.--75.4 mi^2 (195.3 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 09...	1230	--	--	--	--	--	--	--	3.2	.00
DEC. 04...	1230	--	--	--	--	--	--	--	1.2	.23
FEB. 06...	1130	--	--	--	--	--	--	--	1.6	.02
APR. 30...	1330	--	1200	120	--	--	--	--	.63	.06
MAY 29...	1230	--	--	--	--	--	--	--	1.1	.15
JUNE 20...	1400	--	--	--	--	--	--	--	.85	.15
AUG. 22...	1100	2.7	920	100	116	0	95	.8	.36	.10

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 09...	--	--	.00	720	7.4	16.0	8	2.4	39	--
DEC. 04...	1.1	2.5	.39	800	7.6	7.0	15	9.4	85	2.6
FEB. 06...	2.5	4.1	.19	748	6.7	.0	7	14.5	108	3.6
APR. 30...	1.5	2.2	.18	850	7.4	14.0	20	7.8	83	2.3
MAY 29...	1.8	3.0	.25	760	7.3	15.0	20	5.6	55	.3
JUNE 20...	1.4	2.4	.20	790	6.9	19.0	20	4.2	46	.7
AUG. 22...	.47	.93	.21	660	7.0	23.0	7	.8	9	6.0

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 09...	--	B1600	B40	--	10	--	--	--	<1	--
DEC. 04...	--	510	B20	--	25	--	--	--	1	--
FEB. 06...	--	B100	B10	--	8.0	--	--	--	<1	--
APR. 30...	.0	1680	64	B18	8.0	.01	--	--	2	0
MAY 29...	1.1	--	B10000	B3600	8.8	--	--	--	<1	--
JUNE 20...	3.1	B39000	B5000	460	6.3	--	--	--	2	--
AUG. 22...	9.0	--	B970	--	8.4	.01	.0	0	0	--

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

04219765 EIGHTEENMILE CREEK NEAR NEWFANE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 09...	--	--	--	120	<.5	--	--	--	--
DEC. 04...	--	--	--	53	.9	--	--	--	--
FEB. 06...	--	--	--	45	--	--	--	--	--
APR. 30...	0	20	30	42	<.5	--	0	0	--
MAY 29...	0	30	50	67	<.5	--	--	--	--
JUNE 20...	0	20	30	33	<.5	--	--	--	--
AUG. 22...	1	10	20	33	<.5	90	0	--	4.4

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 29...	1230	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.00	.00	.00	.00	.00	.0	0	.00	.24	.00	.01

DATE	TIME	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	1230	0	5.5	1.6	6.2	.0	2.7	.0	.0	.0

DATE	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	450	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 22...	1100	<3.9	14	12	360	.4	.8	.7	14

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.

LOCATION.--Lat 43°21'38", long 78°15'54", Orleans County, at bridge on State Highway 18 (Roosevelt Highway) in Kuckville and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--100 mi^2 (259 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 09...	1030	--	--	--	--	--	--	--	.35	.01
DEC. 05...	1100	--	--	--	--	--	--	--	1.9	.01
FEB. 05...	1630	--	--	--	--	--	--	--	2.0	.02
APR. 29...	1730	--	440	100	--	--	--	--	.65	.03
MAY 29...	1430	--	--	--	--	--	--	--	.97	.02
JUNE 20...	1600	--	--	--	--	--	--	--	1.7	.14
AUG. 22...	1400	.4	70	30	128	0	105	.2	.27	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 09...	.25	.61	.09	430	7.8	14.0	2	8.2	85	4.3
DEC. 05...	1.6	3.5	.09	840	7.9	6.0	5	11.7	108	.0
FEB. 05...	7.0	9.0	.04	582	7.5	.0	4	16.0	109	2.3
APR. 29...	.86	1.5	.05	700	7.9	15.0	5	10.5	105	11
MAY 29...	.73	1.7	.06	600	8.4	15.0	6	7.8	76	.8
JUNE 20...	.84	2.6	.09	620	7.7	20.0	4	7.2	80	.1
AUG. 22...	.24	.51	.09	485	8.5	24.0	2	9.0	106	23

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 09...	--	3900	890	--	4.8	--	--	--	24	--
DEC. 05...	--	25000	1400	--	19	--	--	--	30	--
FEB. 05...	--	2500	2400	--	6.0	--	--	--	8	--
APR. 29...	21	3100	425	79	8.8	.00	--	--	18	0
MAY 29...	1.6	6800	800	280	9.5	--	--	--	24	--
JUNE 20...	2.5	17000	2300	1000	6.8	--	--	--	20	--
AUG. 22...	13	--	63	--	3.6	.00	.0	0	35	--

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

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 09...	--	--	--	2	<.5	--	--	--	--
DEC. 05...	--	--	--	1	.7	--	--	--	--
FEB. 05...	--	--	--	0	<.5	--	--	--	--
APR. 29...	0	<10	10	2	<.5	--	2	0	--
MAY 29...	0	10	10	1	<.5	--	--	--	--
JUNE 20...	0	10	0	1	<.5	--	--	--	--
AUG. 22...	0	0	0	2	<.5	9	<2	--	1.9

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 29...	1430	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.01	.00	.00	.00	.00	.0	0	.00	.08	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	1430	.0	0	7.0	8.7	7.3	.0	1.2	.0	.0
AUG. 22...	1400	.0	0	4.9	9.9	5.6	.0	.7	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 22...	.0	.0	.0	.0	.0	.0	.0	3	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 22...	1400	<2.9	6.2	5.1	260	<.4	<.4	<.4	2

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, at gaging station at east end of Carrol Street in Churchville, 100 ft (30 m) downstream from main-line tracks of Penn-Central Transportation Co., and 0.3 mi (0.5 km) downstream from Black Creek Dam.

DRAINAGE AREA.--123 mi^2 (319 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, August 1966 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
18...	1500	13	2.1	70	20	--	210	--	45	--	27
NOV.											
21...	1300	47	7.1	100	30	--	170	--	37	--	24
DEC.											
19...	1030	47	6.5	110	30	--	140	--	36	--	22
JAN.											
23...	1030	620	4.8	560	50	--	70	--	17	--	15
FEB.											
21...	1200	110	4.7	100	10	--	140	--	35	--	21
MAR.											
21...	1200	249	3.7	120	10	--	100	--	27	--	20
APR.											
23...	1330	149	.9	230	40	110	--	28	--	17	--
MAY											
22...	1230	138	2.9	280	50	100	--	26	--	16	--
JUNE											
21...	1230	120	5.5	170	40	140	--	33	--	19	--
JULY											
24...	1230	30	--	750	30	140	--	36	--	24	--
AUG.											
23...	1330	16	--	40	50	160	--	30	--	24	--
SEP.											
19...	1300	27	--	60	30	160	--	30	--	23	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
18...	--	3.8	191	0	157	460	60	--	.5	.19	.01
NOV.											
21...	--	4.5	216	0	177	320	52	--	.3	1.2	.00
DEC.											
19...	--	2.9	254	0	208	260	47	--	.6	1.9	.01
JAN.											
23...	--	2.5	157	0	129	110	31	--	.2	1.7	.05
FEB.											
21...	--	2.3	272	0	223	230	47	--	.7	2.3	.01
MAR.											
21...	--	2.4	228	0	187	150	42	--	.0	1.8	.00
APR.											
23...	2.4	--	256	0	210	170	40	.2	--	1.6	.03
MAY											
22...	2.0	--	252	0	207	130	30	.3	--	.58	.01
JUNE											
21...	1.7	--	275	0	226	240	38	.3	--	.81	.03
JULY											
24...	2.3	--	177	0	145	300	48	--	--	.41	.08
AUG.											
23...	1.9	--	184	0	151	300	55	--	--	.18	.00
SEP.											
19...	2.0	--	190	0	156	290	53	--	--	.25	.00

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 18...	.03	.32	.35	.55	.04	--	.03	903	1010	946
NOV. 21...	.05	.27	.32	1.5	.02	--	.01	721	876	820
DEC. 19...	.05	.40	.45	2.3	.02	--	.01	640	744	638
JAN. 23...	.10	.44	.54	2.3	.06	--	.03	328	413	272
FEB. 21...	.02	.35	.37	2.7	.03	--	.02	615	695	557
MAR. 21...	.11	.28	.39	2.2	.03	--	.01	457	534	435
APR. 23...	.25	.22	.47	2.1	.02	.01	--	--	1140	986
MAY 22...	.07	.64	.71	1.3	.04	.01	--	--	562	425
JUNE 21...	.07	.60	.67	1.5	.04	.01	--	--	742	570
JULY 24...	.40	.23	.63	1.1	.08	.03	--	--	838	584
AUG. 23...	.47	.00	.35	.53	.03	.01	--	--	856	650
SEP. 19...	.17	.20	.37	.62	.02	.01	--	--	740	626

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 18...	0	0	689	530	1600	8.5	6.0	--	--	11.2
NOV. 21...	5	0	572	400	1300	8.0	5.0	--	--	11.2
DEC. 19...	5	5	473	270	1100	7.7	.0	--	--	14.2
JAN. 23...	10	4	230	100	551	7.8	.0	--	--	13.8
FEB. 21...	0	0	490	270	933	7.7	.0	--	--	13.2
MAR. 21...	4	4	346	160	754	8.0	.0	--	--	13.8
APR. 23...	4	4	--	--	1400	8.0	5.0	--	--	11.8
MAY 22...	7	5	--	--	930	7.7	18.0	--	--	9.2
JUNE 21...	3	1	--	--	1200	8.0	19.0	--	--	8.9
JULY 24...	26	21	--	--	1300	7.6	19.0	4	20	8.6
AUG. 23...	2	0	--	--	1300	8.0	21.0	6	4	8.5
SEP. 19...	2	1	--	--	1200	7.7	17.0	3	2	11.4

CONTINUED NEXT PAGE

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
18...	97	12	2700	520	--	.0	1	10	5	<.5
NOV.										
21...	97	18	3200	530	--	.0	--	--	--	--
DEC.										
19...	100	18	2800	--	--	.0	--	--	--	--
JAN.										
23...	113	15	3000	860	--	.0	--	--	--	--
FEB.										
21...	108	12	B1400	470	--	.0	--	--	--	--
MAR.										
21...	112	13	5900	B90	--	.0	--	0	4	--
APR.										
23...	94	17	5200	220	--	.0	--	--	--	--
MAY										
22...	97	27	5200	860	--	.0	--	--	--	--
JUNE										
21...	97	23	37000	400	--	.0	--	--	--	--
JULY										
24...	91	21	B90000	B20000	--	--	--	--	--	--
AUG.										
23...	89	15	--	--	4.2	--	2	10	0	<.5
SEP.										
19...	124	14	--	--	--	--	--	--	--	--

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

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION .--Lat 43°10'50", long 77°37'40", Monroe County, at gaging station on right bank, 40 ft (12 m) downstream from plant 5 of Rochester Gas and Electric Corporation in Rochester, 100 ft (30 m) upstream from bridge on Driving Park Avenue and 6.1 mi (9.8 km) upstream from mouth.

DRAINAGE AREA.--2,457 mi^2 (6,364 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955.
Water temperatures: October 1954 to September 1974. Prior to October 1967, published as "at Driving Park Avenue".

EXTREMES, 1973-74:
Water temperatures: Maximum, 27.0°C Aug. 24; minimum, freezing point on Mar. 19.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 18, 1965; minimum, (1954-64, 1966-74) freezing point on many days during most years.

REMARKS.--No record Apr. 19-22. Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature records furnished by the Rochester Gas and Electric Corporation.

CHEMICAL ANALYSES

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
DEC.						
10...	--	E2410	0	10	5	<.5
JUNE						
05...	1215	1050	1	10	7	2.6
SEP.						
19...	1330	451	2	10	5	.7

TEMPERATURE (°C) OF WATER, OCTOBER 1973 TO SEPTEMBER 1974

(ONCE DAILY MEASUREMENT AT 1030)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	11.0	7.0	1.0	3.0	1.5	2.0	14.5	17.0	20.0	23.5	23.0
2	18.0	10.5	6.0	0.5	1.5	3.0	3.5	15.5	18.0	20.5	24.0	22.0
3	18.5	9.5	5.5	0.5	1.5	4.0	3.5	15.0	19.0	21.5	24.0	20.0
4	18.5	9.0	5.5	0.5	1.0	4.5	7.0	13.0	19.0	23.0	23.5	19.5
5	18.5	9.0	7.0	0.5	0.5	5.5	9.0	12.0	20.0	23.5	23.0	18.5
6	17.0	7.0	6.5	0.5	0.5	5.5	7.0	12.0	21.0	23.0	22.0	18.5
7	17.0	7.0	5.5	0.5	1.5	6.0	5.5	10.0	21.0	24.0	22.0	18.0
8	17.0	6.5	6.0	0.5	1.0	5.5	6.0	10.0	21.5	24.0	23.5	18.0
9	17.0	6.5	5.5	1.5	1.0	5.0	5.5	10.0	22.0	26.0	24.0	19.0
10	16.5	6.5	6.0	1.0	1.0	5.0	5.5	10.0	23.5	26.5	23.5	19.5
11	16.5	5.5	5.5	1.0	1.0	5.0	6.0	10.0	22.0	25.5	24.0	20.0
12	16.5	5.5	5.0	0.5	1.0	4.5	6.0	11.0	21.5	24.5	24.0	20.5
13	16.5	5.5	3.0	0.5	1.0	4.5	9.0	11.0	20.5	24.5	24.5	20.5
14	16.5	6.0	2.0	1.0	1.0	3.5	6.5	12.0	21.0	25.0	24.5	20.5
15	16.5	7.0	1.5	0.5	0.5	3.5	8.0	13.0	21.5	25.5	24.5	20.0
16	17.0	7.0	1.0	1.0	0.5	4.0	7.0	13.0	20.5	24.5	25.0	20.0
17	15.0	7.0	1.0	0.5	0.5	1.5	8.5	14.5	20.0	24.5	25.5	20.0
18	14.0	6.0	1.0	0.5	0.5	1.0	9.5	15.0	20.0	24.0	25.0	18.5
19	13.5	6.0	0.5	1.0	1.0	0.0	---	16.0	19.0	24.5	24.5	19.0
20	14.5	5.5	1.0	0.5	1.0	1.5	---	16.0	19.5	24.5	25.0	20.0
21	14.0	6.0	1.0	1.0	1.5	0.5	---	16.0	19.5	24.5	24.5	19.0
22	15.5	6.5	1.0	0.5	2.0	1.5	---	16.0	19.5	24.5	25.5	18.5
23	15.0	6.5	0.5	1.0	1.0	3.5	12.0	18.5	19.5	24.5	26.5	18.5
24	15.5	7.0	0.5	0.5	1.0	3.0	11.0	18.5	20.0	24.5	27.0	15.5
25	16.0	7.0	1.0	1.0	1.0	1.5	9.5	17.0	20.0	24.0	26.5	14.5
26	15.5	6.5	1.0	1.0	1.0	3.5	9.5	17.0	20.0	23.5	25.0	13.5
27	14.0	8.0	1.5	2.0	1.0	2.0	9.5	16.0	19.5	23.5	26.5	14.0
28	13.0	8.5	1.0	3.5	1.5	3.0	11.0	16.0	19.5	23.5	25.0	14.5
29	12.0	8.5	1.0	2.0	---	3.5	14.5	16.0	20.0	23.5	24.0	14.5
30	12.0	8.0	1.0	2.0	---	3.5	15.5	15.5	20.0	23.0	23.5	15.0
31	11.5	---	1.0	3.0	---	3.0	---	16.5	---	23.0	23.5	---
AVERAGE	16.0	7.5	3.0	1.0	1.0	3.5	8.0	14.0	20.0	24.0	24.5	18.5

E Estimated value.

04232006 GENESEE RIVER AT CHARLOTTE DOCKS, AT ROCHESTER, N.Y.
(NATIONAL STREAM QUALITY ACCOUNTING NETWORK STATION)

LOCATION.--Lat 43°13'26", long 77°36'59", Monroe County, at Charlotte Docks, at the Rochester Cement Corporation, in Rochester, 0.4 mi (0.6 km) upstream from Rattlesnake Point, 1.6 mi (2.6 km) upstream from Stutson Street Bridge, and 3.9 mi (6.3 km) downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,457 mi^2 (6,364 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: May to September 1974.

REMARKS.--Additional water quality data available from New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
MAY											
16...	1100	E7450	3.1	36	7.6	14	1.9	93	0	76	48
JUNE											
26...	1230	E1690	5.0	77	15	34	3.8	197	0	162	100
AUG.											
14...	1300	E705	1.7	65	13	34	3.5	138	0	113	100
SEP.											
25...	1100	E1370	3.2	90	19	80	3.8	175	0	144	150

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY										
16...	18	7.4	.70	1.2	.13	190	182	388	E7800	93
JUNE										
26...	56	.2	1.2	2.5	.18	427	388	57	E260	98
AUG.										
14...	56	.2	1.6	1.9	.25	388	342	149	E280	64
SEP.										
25...	110	.1	1.3	1.9	.21	618	542	38	E140	94

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY										
16...	120	45	290	7.4	10.5	200	--	680	330	--
JUNE										
26...	250	92	900	7.8	16.0	40	886000	720	830	8.2
AUG.										
14...	220	100	740	7.7	22.0	30	--	210	811	7.6
SEP.										
25...	300	160	1200	7.3	15.0	20	--	8960	8140	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
DEC.											
10...	--	0	--	--	--	--	--	--	--	--	--
MAY											
16...	1100	7	5	2	0	0	1	10	--	<10	2
JUNE											
05...	1147	1	--	--	--	--	--	--	--	--	--
26...	1230	6	1	5	4	1	3	20	20	0	1
AUG.											
14...	1300	2	--	<1	6	0	6	10	10	0	0
SEP.											
19...	1230	2	--	--	--	--	--	--	--	--	--

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

E Estimated value.

04232006 GENESSEE RIVER AT CHARLOTTE DOCKS, AT ROCHESTER, N.Y.--Continued
(NATIONAL STREAM QUALITY ACCOUNTING NETWORK STATION)

CHEMICAL ANALYSES MAY TO SEPTEMBER 1974

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
DEC.											
10...	--	--	10	--	--	--	--	7	--	--	--
MAY											
16...	1	1	10	10	0	6800	200	14	11	3	210
JUNE											
05...	--	--	20	--	--	--	--	7	--	--	--
26...	1	0	30	20	10	2700	80	23	18	5	120
AUG.											
14...	0	0	20	10	10	1700	120	16	11	5	190
SEP.											
19...	--	--	10	--	--	--	--	11	--	--	--

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC.										
10...	--	--	2.4	--	--	--	--	--	--	--
MAY										
16...	190	20	<.5	<.5	0	0	0	50	30	20
JUNE										
05...	--	--	<.5	--	--	--	--	--	--	--
26...	30	90	<.5	<.5	2	0	2	130	100	30
AUG.										
14...	100	90	<.5	<.5	<2	--	<2	70	50	20
SEP.										
19...	--	--	<.5	--	--	--	--	--	--	--

CROSS-SECTION MEASUREMENTS

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

May 16, 1974 0900 to 1010 Hours

Distance from left bank	90 ft (27 m)		180 ft (55 m)		270 ft (82 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	300	11.0	290	10.0	290	11.0
10 3	310	10.0	260	11.0	300	11.0
18 5	310	10.0	310	11.0	300	11.0

June 26, 1974 1200 to 1310 Hours

Distance from left bank	90 ft (27 m)		180 ft (55 m)		270 ft (82 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	580	17.0	600	17.0	550	18.0
10 3	580	18.0	590	17.0	560	18.0
15 4	590	18.0	590	18.0	580	17.0

August 14, 1974 1300 to 1404 Hours

Distance from left bank	90 ft (27 m)		180 ft (55 m)		270 ft (82 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	752	23.0	740	23.0	740	23.0
10 3	740	23.0	740	23.0	726	22.0
16 5	686	23.0	713	21.0	686	21.0

September 25, 1974 1100 to 1224 Hours

Distance from left bank	90 ft (27 m)		180 ft (55 m)		270 ft (82 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
3 1	1200	14.0	1200	14.0	1200	15.0
10 3	1200	14.0	1200	14.0	1260	14.0
13 4	1200	14.0	1200	14.0	1260	14.0

CONTINUED NEXT PAGE

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, N.Y.--Continued

PHYTOPLANKTON ANALYSES, MAY TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
May 16 1974	18,000	Cyclotella	48
		Navicula	10
		Synedra	10
		Cymbella	8
		Anacystis	6
		Gomphonema	5
		Surirella	3
		Gyrosigma	3
		Asterionella	3
		Diatoma	3
		Nitzschia	2
Aug. 14 1974	18,000	Cyclotella	24
		Lyngbya	23
		Dictyosphaerium	17
		Scenedesmus	11
		Agmenellum	10
		Tetrastrum	4
		Synedra	3
		Pediastrum	3
		Phacus	1
		Kirchneriella	1
		Fragilaria	1
		Navicula	1
		Achnanthes	1
		Melosira	1
		Gomphonema	<1
		Diatoma	<1
		Polydriopsis	<1
June 26 1974	5,800	Cyclotella	70
		Scenedesmus	9
		Navicula	6
		Nitzschia	4
		Tetrastrum	4
		Cocconeis	3
		Melosira	2
		Rhoiocosphenia	1
Sept. 25 1974	6,500	Cyclotella	43
		Melosira	29
		Scenedesmus	21
		Nitzschia	3
		Navicula	3
		Rhoiocosphenia	1
		Ankistrodesmus	1

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.

LOCATION.--Lat 42°58'02", long 76°35'58", Cayuga County, at bridge on Division Street Road, 1.0 mi (1.6 km) north of Auburn city line and 2.0 mi (3.2 km) downstream from gaging station (04235500) near Auburn.

DRAINAGE AREA.--206 mi^2 (534 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
15...	1030	92	--	--	--	--	--	--	--	1.6
DEC.										
06...	1030	80	--	--	--	--	--	--	--	1.1
FEB.										
04...	1100	310	--	--	--	--	--	--	--	1.1
MAY										
01...	1200	61	--	--	--	--	--	--	--	1.1
28...	1100	111	--	--	--	--	--	--	--	.93
JUNE										
10...	1130	116	--	--	--	--	--	--	--	1.5
AUG.										
09...	1030	66	2.4	190	50	161	0	132	.2	1.7

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.										
15...	.00	.70	2.3	.30	360	7.9	12.0	2	9.6	94
DEC.										
06...	.27	.73	2.1	.33	420	7.7	6.0	8	13.0	115
FEB.										
04...	.04	.54	1.6	.11	350	7.2	.0	4	20.4	140
MAY										
01...	.20	1.8	3.1	.43	580	7.8	11.0	10	11.8	108
28...	.17	.44	1.5	.05	365	8.2	11.0	2	11.2	101
JUNE										
10...	.39	.81	2.7	.41	420	7.6	23.0	8	7.3	86
AUG.										
09...	.20	.77	2.7	.42	520	7.5	21.0	3	7.4	82

DATE	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)
OCT.									
15...	1.4	--	11000	1200	--	5.1	--	--	--
DEC.									
06...	2.7	--	63000	B160	--	16	--	--	--
FEB.									
04...	.8	--	230	100	--	1.5	--	--	--
MAY									
01...	6.1	10	B25200	B1130	570	6.3	--	--	--
28...	3.6	6.6	--	B1800	300	3.2	--	--	--
JUNE									
10...	5.9	8.0	B12000	B3100	65	--	--	--	--
AUG.									
09...	2.0	6.5	--	720	--	6.4	.00	.1	0

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

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 15...	1	--	--	--	6	--	--	--	--
DEC. 06...	1	--	--	--	9	--	--	--	--
FEB. 04...	<1	--	--	--	0	<.5	--	--	--
MAY 01...	<1	0	0	20	20	<.5	--	--	--
28...	<1	0	<10	10	0	<.5	--	--	--
JUNE 10...	0	0	0	20	5	<.5	--	--	--
AUG. 09...	<1	0	0	10	3	<.5	8	0	.0

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 28...	1100	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 28...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 28...	1100	.0	0	7.9	.3	1.0	.0	1.1	.0	.0
AUG. 09...	1030	.0	0	1.4	.2	.4	.0	1.0	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 28...	.0	.0	.0	.0	.0	.0	.0	4	0	.0
AUG. 09...	.0	.0	.0	.0	.0	.0	.0	0	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 09...	1030	<3.0	6.0	4.8	220	<.4	<.4	<.4	6

04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

LOCATION.--Lat 43°09'26", long 76°19'56", Onondaga County, at Erie (Barge) Canal lock 24 in Baldwinsville, 350 ft (107 m) upstream from gaging station.

DRAINAGE AREA.--3,136 mi^2 (8,122 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958.
Water temperatures: October 1957 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 25.5°C July 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 28.0°C July 24, 1964; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Dec. 26 to Jan. 27, Feb. 2-26. Additional water quality data available from New York State Department of Environmental Conservation.

COOPERATION.--Water temperature record furnished by the New York State Department of Transportation.

CHEMICAL ANALYSES

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE 26...	1015	2040	2	0	3	<.5
SEP. 18...	0940	1700	1	10	5	.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	12.0	---	0.0	2.0	1.0	3.0	12.0	18.0	20.5	23.0	22.0
2	16.0	11.5	---	0.0	0.0	1.5	4.0	13.5	17.0	20.5	23.0	22.0
3	16.5	11.0	5.0	0.0	0.0	2.0	4.5	13.5	18.0	21.5	24.0	20.5
4	17.0	11.0	6.5	0.0	0.0	2.0	6.0	10.0	18.0	22.0	24.0	19.5
5	17.0	10.0	6.5	0.0	0.0	3.0	8.5	11.5	19.5	23.5	22.0	16.5
6	17.0	8.0	7.0	0.0	0.0	3.5	---	13.5	20.5	22.0	22.0	16.5
7	17.0	5.5	6.5	0.0	0.0	5.5	---	12.0	20.5	23.0	22.0	18.0
8	16.5	5.5	---	0.0	0.0	6.0	6.0	12.0	21.0	23.5	23.0	19.5
9	16.0	5.5	---	0.0	0.0	---	6.0	13.5	21.5	24.5	23.0	20.5
10	16.5	5.5	---	0.0	0.0	---	5.5	13.5	21.5	25.5	23.5	20.5
11	16.0	6.0	5.5	0.0	0.0	4.0	6.0	12.0	22.0	24.5	23.5	21.0
12	16.0	5.5	4.5	0.0	0.0	3.5	7.0	13.0	20.5	24.0	24.0	21.5
13	16.5	5.5	4.0	0.0	0.0	2.0	---	13.5	20.0	24.0	24.0	21.5
14	18.0	5.5	5.0	0.0	0.0	3.0	---	12.0	20.5	24.0	24.5	20.5
15	15.5	5.5	3.5	0.0	0.0	3.5	10.0	14.0	21.0	24.5	24.5	20.0
16	15.0	5.5	---	0.0	---	---	10.0	14.0	21.0	24.5	24.0	16.5
17	14.0	4.5	4.0	0.0	0.0	3.0	10.0	15.0	20.0	25.0	25.0	16.5
18	13.5	5.5	3.0	0.0	0.0	3.5	10.0	14.5	20.0	24.5	24.0	16.5
19	13.0	5.5	1.5	0.0	0.0	3.0	10.0	15.5	20.5	25.0	24.0	18.5
20	13.0	5.5	1.5	0.0	0.0	2.0	---	15.0	20.5	24.5	24.0	18.5
21	11.5	5.5	1.0	0.0	0.0	2.0	---	15.0	21.0	24.0	24.0	18.0
22	11.0	6.0	---	0.0	0.0	1.5	11.0	15.5	21.0	24.0	24.5	17.0
23	12.0	6.0	---	0.0	0.0	2.0	11.0	14.5	21.5	24.0	24.5	17.0
24	13.5	7.0	---	0.0	---	3.0	11.0	14.5	20.5	23.5	24.5	17.0
25	13.5	8.5	---	0.0	0.0	1.0	9.0	15.5	20.5	21.5	24.5	16.0
26	13.5	7.0	0.0	0.0	0.0	1.5	9.5	15.5	20.0	23.0	24.5	16.0
27	13.5	6.0	0.0	0.0	1.0	2.0	11.0	15.5	19.0	23.0	25.0	17.0
28	13.0	6.0	0.0	1.0	1.5	3.0	12.0	15.5	20.5	23.5	24.5	18.0
29	13.0	6.5	0.0	2.0	---	2.0	12.0	16.5	21.0	24.0	24.5	16.5
30	11.5	6.0	0.0	3.0	---	---	12.0	16.0	20.0	22.0	24.5	16.0
31	10.0	---	0.0	3.5	---	---	---	16.5	---	23.5	23.5	---
AVERAGE	14.5	7.0	---	0.5	0.0	2.5	8.5	14.0	20.5	23.5	24.0	18.5

04250504 SALMON RIVER BELOW PULASKI, N.Y.

LOCATION.--Lat 43°34'11", long 76°11'15", Oswego County, at bridge on State Highway 3, at Port Ontario, 0.4 mi (0.6 km) upstream from mouth, and 2.1 mi (3.4 km) west of Pulaski.

DRAINAGE AREA.--267 mi^2 (692 km^2) at mouth.

PERIOD OF RECORD.--Chemical analyses: July 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 18...	1200	--	--	--	--	--	--	--	.12	.00
DEC. 19...	1030	--	--	--	--	--	--	--	.64	.01
APR. 23...	1200	--	170	20	--	--	--	--	.72	.00
MAY 21...	1300	--	--	--	--	--	--	--	.44	.01
JUNE 18...	1200	--	--	--	--	--	--	--	.21	.01
AUG. 06...	1330	2.4	120	40	26	0	21	.1	.16	.01

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 18...	.27	.40	.00	138	7.3	8.0	4	10.5	90	1.1
DEC. 19...	.13	.78	.00	62	6.6	0	1	16.4	114	.0
APR. 23...	.18	.90	.01	42	8.1	6.0	1	10.6	86	3.2
MAY 21...	.26	.71	.01	63	7.8	13.5	2	9.6	93	7.3
JUNE 18...	.33	.55	.02	73	7.7	19.0	2	6.7	71	2.4
AUG. 06...	.32	.49	.02	59	8.1	22.0	3	7.8	90	5.0

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 18...	--	B8100	B940	--	16	--	--	--	0	--
DEC. 19...	--	580	--	--	4.5	--	--	--	3	--
APR. 23...	8.8	670	180	--	--	.00	--	--	<1	0
MAY 21...	12	B1300	B40	23	3.7	--	--	--	0	--
JUNE 18...	9.6	6900	140	B1100	--	--	--	--	2	--
AUG. 06...	3.0	--	170	--	6.2	.00	.0	1	1	--

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

04250504 SALMON RIVER BELOW PULASKI, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 18...	--	--	--	3	<.5	--	--	--	--
DEC. 19...	--	--	--	15	<.5	--	--	--	--
APR. 23...	0	20	10	3	<.5	--	0	0	--
MAY 21...	0	10	0	1	<.5	--	--	--	--
JUNE 18...	0	20	0	1	<.5	--	--	--	--
AUG. 06...	0	<10	40	81	<.5	0	<2	--	.5

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 21...	1300	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 21...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 21...	1300	.0	0	1.3	1.0	1.0	.0	.7	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 21...	.0	.0	.0	.0	.0	.0	.0	6	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 06...	1330	<.5	3.1	2.5	47	<.4	.5	.5	5

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.

LOCATION.--Lat 43°26'20", long 75°12'17", Oneida County, at bridge on State Highway 28 and 365, in Forestport, 0.1 mi (0.2 km) upstream from outlet of Alder Pond and 0.4 mi (0.6 km) downstream from Woodhull Creek.

DRAINAGE AREA.--247 mi^2 (640 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 11...	1000	--	--	--	--	--	--	--	.14	.00
DEC. 27...	1230	--	--	--	--	--	--	--	.73	.00
MAR. 28...	1045	--	--	--	--	--	--	--	.74	.01
APR. 24...	1045	--	150	1300	--	--	--	--	.76	.01
MAY 23...	1130	--	--	--	--	--	--	--	.42	.01
JUNE 18...	1800	--	--	--	--	--	--	--	.21	.01
AUG. 08...	1000	4.9	300	50	7	0	6	.3	.15	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 11...	.20	.35	.01	43	6.7	11.0	2	10.1	93	2.5
DEC. 27...	.08	.81	.00	33	7.1	.5	2	15.1	106	.0
MAR. 28...	.07	.82	.01	39	6.6	.5	--	14.8	103	.5
APR. 24...	.15	.92	.01	37	7.2	7.0	1	12.4	105	.0
MAY 23...	.24	.67	.01	39	6.6	16.0	2	9.5	99	.2
JUNE 18...	.26	.48	.01	36	6.7	18.0	2	9.5	99	1.2
AUG. 08...	.26	.41	.02	30	6.7	23.5	2	8.5	100	3.5

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 11...	--	320	24	--	4.7	--	--	--	<1	--
DEC. 27...	--	470	B20	--	4.0	--	--	--	0	--
MAR. 28...	--	B22	82	--	5.0	--	--	--	0	--
APR. 24...	.0	94	4	5	3.6	.00	--	--	1	0
MAY 23...	1.0	B470	13	B6	11	--	--	--	0	--
JUNE 18...	2.0	--	B19	9	12	--	--	--	0	--
AUG. 08...	2.0	--	48	--	6.8	.00	.0	0	5	--

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

04250997 BLACK RIVER (FORESTPORT RESERVOIR) AT FORESTPORT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 11...	--	--	--	7	<.5	--	--	--	--
DEC. 27...	--	--	--	20	<.5	--	--	--	--
MAR. 28...	--	--	--	7	<.5	--	--	--	--
APR. 24...	0	10	10	1	<.5	--	0	0	--
MAY 23...	0	10	0	3	<.5	--	--	--	--
JUNE 18...	0	<10	0	10	<.5	--	--	--	--
AUG. 08...	0	<10	0	0	.7	3	2	--	.0

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 23...	1130	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 23...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 23...	1130	.0	0	.9	.5	.0	.0	.0	.0	.0
AUG. 08...	1000	.0	0	.0	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 23...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 08...	.0	.0	.0	.0	.0	.0	.0	0	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 08...	1000	<.4	3.4	2.8	35	<.4	<.4	<.4	4

04254965 BLACK RIVER AT GRIEG, N.Y.

LOCATION.--Lat 43°40'36", long 75°21'39", Lewis County, at bridge on Burdicks Crossing Road, 0.2 mi (0.3 km) upstream from unnamed tributary, and 1.1 mi (1.8 km) downstream from Fish Creek at Grieg.

DRAINAGE AREA.--921 mi^2 (2,385 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1973 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
29...	1100	6.4	230	10	--	8.2	--	1.2	--	6.0	--	.7
NOV.												
26...	1430	5.4	180	20	--	10	--	1.1	--	2.2	--	.8
APR.												
29...	1300	4.0	360	60	13	--	2.3	--	1.0	--	.3	--
MAY												
20...	0835	4.1	200	40	9.6	--	.8	--	1.5	--	.7	--
JUNE												
17...	1140	4.1	810	40	13	--	1.2	--	1.8	--	.8	--
JULY												
15...	1145	--	540	90	9.5	--	1.2	--	5.3	--	.6	--
AUG.												
13...	1115	--	430	80	9.1	--	1.0	--	3.0	--	.6	--
SEP.												
09...	1455	--	420	30	13	--	1.3	--	3.2	--	.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
29...	23	0	19	15	1.5	--	.3	.05	.01	.06	.23
NOV.											
26...	25	0	21	9.4	1.3	--	.3	.35	.00	.02	.15
APR.											
29...	15	0	12	9.5	.8	.1	--	.55	.01	.10	.10
MAY											
20...	15	0	12	8.1	1.1	.1	--	.34	.05	.04	.53
JUNE											
17...	32	0	26	8.6	1.0	.2	--	.26	.01	.06	.38
JULY											
15...	27	0	22	17	1.2	--	--	.13	.01	.21	.25
AUG.											
13...	22	--	18	13	1.0	--	--	.14	.01	.25	.03
SEP.											
09...	32	--	26	9.1	1.5	--	--	.13	.00	.23	.00

04254965 BLACK RIVER AT GRIEG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 29...	.29	.36	.00	--	.00	51	68	47	0	0	25
NOV. 26...	.17	.53	.01	--	.01	43	46	29	5	2	30
APR. 29...	.20	.76	.01	.00	--	--	45	26	2	1	--
MAY 20...	.57	.96	.01	.00	--	--	53	35	6	3	--
JUNE 17...	.44	.71	.04	.01	--	--	78	49	18	11	--
JULY 15...	.46	.60	.02	.01	--	--	82	42	7	2	--
AUG. 13...	.28	.43	.01	.01	--	--	66	25	7	2	--
SEP. 09...	.23	.36	.01	.01	--	--	68	49	2	0	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 29...	7	85	6.3	--	--	26	.0	--	--	--	--
NOV. 26...	9	73	6.9	--	--	14	.0	--	--	--	--
APR. 29...	--	58	6.7	--	--	19	.0	--	--	--	--
MAY 20...	--	57	7.3	--	--	14	.0	--	--	--	--
JUNE 17...	--	78	6.9	--	--	25	.0	<1	10	9	<.5
JULY 15...	--	88	7.1	30	2	33	--	--	--	--	--
AUG. 13...	--	72	--	10	2	18	--	--	--	--	--
SEP. 09...	--	82	--	20	3	15	--	0	0	2	<.5

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, temperature recorder at gaging station on right bank at downstream side of highway bridge on Donnattsburg Road in Donnattsburg, 1.2 mi (1.9 km) downstream from Chase Lake Outlet, 4.2 mi (6.8 km) northeast of Glenfield, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--91.7 mi^2 (238 km^2).

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1961, October 1963 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 26.0°C July 9; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum (1959-61, 1964-69, 71-74), 26.5°C July 24, 1961; minimum, freezing point on many days during winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.5	8.0	7.0	3.5	1.5	1.0	1.0	0.5	0.5	1.5	1.0
2	13.5	13.0	7.0	7.0	2.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0
3	16.0	13.5	7.0	6.0	1.5	1.0	1.0	0.5	1.5	0.5	1.0	1.0
4	16.0	15.5	6.0	5.0	3.0	1.5	0.5	0.5	1.0	0.5	1.0	0.5
5	16.0	14.5	5.0	4.5	5.0	3.0	0.5	0.5	1.0	0.5	0.5	0.5
6	14.5	12.0	4.5	3.5	5.0	4.0	0.5	0.5	1.0	0.5	1.0	0.5
7	13.5	11.5	3.5	3.0	4.0	3.0	0.5	0.5	0.5	0.5	1.0	0.5
8	14.0	12.0	3.0	3.0	3.0	1.5	1.0	0.5	0.5	0.5	1.0	1.0
9	13.5	11.5	3.5	1.5	1.5	1.5	0.5	0.5	0.5	0.5	1.0	1.0
10	13.5	11.0	1.5	1.0	1.5	1.5	0.5	0.5	0.5	0.5	1.5	1.0
11	13.5	10.5	2.0	1.5	1.5	1.5	0.5	0.5	0.5	0.5	1.5	1.0
12	13.5	11.0	2.0	1.5	1.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0
13	14.5	12.0	3.5	2.0	1.5	1.0	0.5	0.5	0.5	0.0	1.0	1.0
14	14.5	12.0	5.5	3.5	1.0	1.0	0.5	0.5	0.5	0.0	1.0	1.0
15	12.0	11.0	5.0	5.0	1.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0
16	11.0	9.5	5.0	3.5	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
17	9.5	9.0	3.5	2.0	1.5	1.0	0.5	0.5	0.5	0.5	1.0	0.5
18	9.0	8.5	3.0	2.0	2.0	1.0	0.5	0.5	0.5	0.5	1.0	0.5
19	9.0	8.0	3.0	2.0	2.0	1.0	0.5	0.5	0.5	0.0	1.0	0.5
20	8.5	8.5	2.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.5	0.5
21	9.5	8.5	3.0	1.0	1.5	0.5	0.5	0.0	0.5	0.5	1.5	0.5
22	9.0	7.0	4.5	3.0	1.0	1.0	0.0	0.0	0.5	0.5	0.5	0.5
23	9.5	7.0	4.0	3.5	1.0	1.0	0.0	0.0	1.0	0.5	0.5	0.5
24	10.0	8.0	4.5	3.5	1.5	1.0	1.0	0.0	1.5	1.0	1.0	0.5
25	10.5	8.0	5.0	4.5	1.5	1.0	1.5	0.5	1.0	1.0	0.5	0.5
26	11.0	9.0	4.5	3.5	1.0	0.5	1.0	0.0	1.0	1.0	1.0	0.5
27	11.0	8.5	5.0	3.5	0.5	0.5	1.0	0.5	1.5	1.0	1.5	0.5
28	8.5	7.0	6.0	5.0	1.0	0.5	0.5	0.5	1.0	1.0	1.5	1.0
29	8.0	7.0	6.0	4.5	1.0	1.0	1.0	0.5	---	---	1.0	0.5
30	8.5	8.0	4.5	3.5	1.0	1.0	0.5	0.5	---	---	1.5	0.5
31	8.0	6.5	---	---	1.0	1.0	0.5	0.5	---	---	1.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	0.5	13.5	10.5	18.0	14.5	21.0	17.0	20.5	18.5	19.5	16.0
2	1.5	1.0	10.5	7.0	18.0	14.5	21.0	19.0	21.5	18.0	18.0	15.0
3	4.5	1.0	9.5	8.5	17.0	15.0	21.0	20.0	21.5	19.5	17.0	15.0
4	2.0	0.5	8.5	7.0	18.0	14.0	23.0	20.0	21.0	20.0	16.0	14.0
5	0.5	0.5	9.0	6.0	19.5	15.5	22.0	21.0	20.5	19.0	17.0	13.0
6	0.5	0.5	9.0	6.5	20.0	16.5	23.5	19.0	20.5	18.0	16.5	14.0
7	0.5	0.5	6.5	5.0	19.0	16.0	25.0	20.0	20.5	18.5	18.5	14.0
8	1.5	0.5	5.0	4.5	20.0	15.5	25.0	21.0	22.0	18.5	16.5	15.0
9	1.5	0.5	6.0	5.0	21.0	18.0	26.0	21.0	21.5	19.0	18.5	15.0
10	3.0	0.5	6.0	6.0	23.5	19.0	24.5	21.5	22.0	18.5	19.0	16.5
11	4.5	1.0	9.0	6.0	20.5	15.5	21.5	19.5	23.0	19.0	19.5	16.5
12	4.5	3.0	10.0	9.0	15.5	13.5	23.0	18.0	23.0	18.5	19.0	18.0
13	5.0	3.5	10.0	6.0	15.5	12.0	23.0	18.0	24.0	20.0	19.5	18.0
14	5.0	3.0	10.5	6.5	16.5	14.0	25.0	19.0	22.0	19.5	19.0	15.5
15	4.5	1.5	13.5	10.5	18.5	15.0	23.5	20.0	21.5	17.0	16.0	14.5
16	3.0	1.0	13.5	11.0	17.0	16.0	21.5	17.0	21.5	16.5	16.0	14.0
17	5.5	3.0	13.5	12.0	18.0	15.5	22.0	16.5	21.0	18.5	14.0	11.5
18	6.0	5.0	14.0	10.5	17.0	15.0	21.0	19.0	22.0	18.0	14.5	13.0
19	6.0	4.0	14.0	11.5	16.5	16.0	21.0	19.5	22.0	19.0	15.5	11.5
20	6.5	4.0	14.0	10.5	20.5	16.0	21.0	16.5	23.5	18.5	15.0	14.0
21	9.0	5.0	13.5	11.5	19.0	17.0	21.5	16.5	24.0	18.5	15.0	13.0
22	9.0	8.5	16.0	12.0	20.5	16.0	23.0	16.5	24.0	20.0	13.0	11.0
23	9.0	6.0	16.5	15.5	19.5	16.0	21.0	18.5	23.5	20.5	11.0	9.5
24	6.0	5.0	16.0	13.5	19.0	15.5	18.5	16.5	23.0	20.5	10.5	8.5
25	6.0	3.5	13.5	11.0	17.0	16.0	18.5	16.0	21.5	18.0	9.5	9.0
26	8.5	5.5	11.0	10.5	16.5	15.0	19.0	16.5	21.0	17.0	10.5	9.0
27	10.0	6.0	10.5	9.0	19.5	15.0	21.5	18.0	21.0	19.5	13.5	10.0
28	13.0	9.0	13.0	9.5	20.5	16.5	24.0	19.5	20.5	18.5	15.0	12.0
29	13.0	12.0	13.0	11.0	20.0	18.0	22.0	19.0	20.0	18.5	15.5	14.0
30	13.5	11.5	14.0	10.5	18.5	17.0	21.5	19.0	19.5	18.0	14.0	11.0
31	---	---	15.5	13.0	---	---	21.0	19.0	20.0	17.0	---	---

04257150 BEAVER RIVER AT MOSHIER FALLS, N.Y.

LOCATION.--Lat 43°52'20", long 75°08'10", Herkimer County, at the Niagara-Mohawk Moshier Falls Power Station, at mouth of Sunday Creek and 2.2 mi (3.5 km) east of Number Four.

DRAINAGE AREA.--184 mi^2 (477 km^2).

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 21.0°C on several days during August; minimum, 1.0°C on many days during December to February.

Period of record:
Water temperatures: Maximum, 23.5°C Sept. 10, 1959; minimum, freezing point on Jan. 1, 2, 1969.

REMARKS.--No record available June 1, 3-29.

COOPERATION.--Water temperature record furnished by the Niagara Mohawk Power Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1500)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	8.5	3.5	1.0	1.0	1.5	2.0	6.0	---	18.0	19.5	20.5
2	14.5	8.5	3.0	1.0	1.0	1.5	2.0	7.0	13.0	18.0	19.5	20.0
3	14.5	8.0	2.0	1.0	1.0	2.0	2.0	8.0	---	18.5	20.5	20.0
4	14.5	6.5	2.0	1.0	1.0	2.0	2.0	7.0	---	18.0	20.5	20.0
5	14.5	6.0	2.0	1.0	1.0	2.0	3.0	8.0	---	18.5	19.0	19.5
6	14.0	6.0	3.0	1.0	1.0	2.0	2.0	8.0	---	18.5	19.5	19.0
7	14.0	5.5	3.0	1.0	1.5	3.0	2.0	8.0	---	19.0	20.0	19.0
8	14.0	5.5	2.0	1.0	1.0	2.0	2.0	7.0	---	19.0	20.0	19.0
9	13.5	5.0	2.0	1.0	1.0	1.5	1.5	7.0	---	19.5	20.5	19.0
10	14.0	5.0	3.5	1.0	1.0	1.5	2.0	7.0	---	19.5	20.5	19.0
11	14.0	4.0	3.0	1.0	1.0	1.5	2.0	7.0	---	19.5	20.5	19.0
12	13.5	4.5	2.0	1.0	1.0	1.5	2.0	8.0	---	20.0	20.0	19.0
13	13.5	4.0	2.0	1.0	1.5	1.5	2.0	8.0	---	19.5	20.5	19.0
14	13.5	4.5	3.0	1.0	1.0	1.5	2.0	8.0	---	20.0	20.5	18.5
15	13.5	4.5	1.5	1.0	1.0	2.0	3.0	8.5	---	20.0	20.0	18.5
16	13.0	4.0	1.5	1.0	1.5	2.0	3.5	8.5	---	20.0	20.5	18.0
17	12.0	3.5	1.5	1.0	1.5	1.5	2.0	9.0	---	20.0	19.5	18.0
18	12.0	3.5	1.5	1.0	1.5	2.0	3.0	9.5	---	20.0	19.5	18.0
19	11.0	3.5	1.5	1.0	1.5	1.5	3.0	9.0	---	20.0	20.5	16.5
20	11.0	3.0	1.5	1.0	1.5	1.5	3.0	10.0	---	20.0	20.5	17.0
21	11.0	3.0	1.5	1.0	1.5	1.5	3.5	10.5	---	20.0	21.0	16.5
22	10.5	3.0	1.5	1.0	1.0	2.0	3.5	11.0	---	20.0	21.0	15.5
23	10.5	3.0	1.5	1.5	1.5	2.0	4.5	11.0	---	20.0	21.0	14.5
24	10.0	3.0	1.0	1.0	1.5	2.0	4.0	11.5	---	20.0	21.0	14.5
25	11.0	3.0	1.5	1.0	1.5	1.5	4.0	11.0	---	20.0	21.0	14.5
26	10.5	3.0	1.5	1.0	1.0	2.0	4.5	11.5	---	20.0	21.0	14.5
27	10.5	3.0	1.0	1.5	1.5	2.0	5.0	11.5	---	19.5	21.0	14.5
28	10.5	3.5	1.5	1.5	1.5	2.0	5.0	11.0	---	19.5	21.0	14.5
29	10.0	3.5	1.0	1.0	---	2.0	7.0	11.0	---	20.0	21.0	14.5
30	10.0	3.5	1.0	1.5	---	2.0	7.0	11.5	17.0	20.0	20.5	14.0
31	9.5	---	1.0	1.5	---	2.0	---	12.0	---	19.5	20.5	---
AVERAGE	12.5	4.5	2.0	1.0	1.5	2.0	3.0	9.0	---	19.5	20.5	17.5

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.

LOCATION.--Lat 43°56'58", long 75°33'49", Lewis County, 100 feet off State Highway 26A, 1.1 mi (1.8 km) downstream from Deer River, and 1.8 mi (2.9 km) southeast of Carthage.

DRAINAGE AREA.--1,780 mi^2 (4,610 km^2) at mouth of Deer River.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
11...	1315	--	--	--	--	--	--	--	.08	.00
DEC.										
20...	1230	--	--	--	--	--	--	--	.51	.00
MAR.										
05...	1000	--	--	--	--	--	--	--	.57	.02
APR.										
24...	1030	--	420	50	--	--	--	--	.53	.01
MAY										
22...	1030	--	--	--	--	--	--	--	.33	.01
JUNE										
19...	0830	--	--	--	--	--	--	--	.24	.01
AUG.										
07...	1000	5.0	420	60	16	0	13	.2	.13	.01

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT.										
11...	.18	.27	.02	70	7.2	12.0	1	8.1	76	.0
DEC.										
20...	.17	.69	.01	61	6.7	.0	2	15.0	104	.0
MAR.										
05...	.16	.75	.09	75	7.8	1.0	13	11.8	84	4.4
APR.										
24...	.21	.75	.02	56	7.8	7.0	3	--	--	.6
MAY										
22...	.41	.75	.03	56	7.8	12.0	2	8.0	75	7.0
JUNE										
19...	.36	.61	.02	66	7.3	16.5	3	7.0	73	.5
AUG.										
07...	.45	.59	.02	52	7.8	20.5	5	6.5	72	--

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT.										
11...	--	680	B85	--	8.7	--	--	--	0	--
DEC.										
20...	--	440	--	--	4.5	--	--	--	<1	--
MAR.										
05...	--	4200	1200	--	7.0	--	--	--	1	--
APR.										
24...	5.9	350	110	--	--	.00	--	--	<1	0
MAY										
22...	34	300	B70	B11	--	--	--	--	1	--
JUNE										
19...	5.9	6500	700	270	19	--	--	--	<1	--
AUG.										
07...	--	--	270	--	9.5	.00	.0	0	<1	--

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

04258710 BLACK RIVER ABOVE CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 11...	--	--	--	3	<.5	--	--	--	--
DEC. 20...	--	--	--	7	<.5	--	--	--	--
MAR. 05...	--	--	--	2	<.5	--	--	--	--
APR. 24...	0	0	0	0	<.5	--	0	0	--
MAY 22...	0	<10	0	0	<.5	--	--	--	--
JUNE 19...	0	0	10	3	<.5	--	--	--	--
AUG. 07...	0	<10	10	0	<.5	6	0	--	2.5

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
JUNE 19...	0830	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE 19...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 19...	0830	.0	0	.3	.0	.3	.0	.0	.0	.0
AUG. 07...	1000	.0	0	2.1	1.3	1.4	.0	1.2	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 19...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 07...	.0	.0	.0	.0	.0	.0	.0	15	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90/Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 07...	1000	.5	2.6	2.1	46	<.4	.7	.7	7

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.

LOCATION.--Lat 43°59'53", long 75°38'17", Jefferson County, at railroad bridge of Penn-Central Transportation Company, 800 ft (244 m) west of State Highway 3, 0.8 mi (1.3 km) northwest of Carthage, and 2.1 mi (3.4 km) downstream from bridge on State Highway 26.

DRAINAGE AREA.--1,809 mi^2 (4,685 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 11...	1530	--	--	--	--	--	--	--	.07	.01
DEC. 20...	0900	--	--	--	--	--	--	--	.56	.00
MAR. 05...	0830	--	890	90	--	--	--	--	.58	.02
APR. 24...	1130	--	440	50	--	--	--	--	.58	.01
MAY 22...	1130	--	--	--	--	--	--	--	.29	.01
JUNE 19...	1100	--	--	--	--	--	--	--	.25	.01
AUG. 07...	1130	4.8	380	500	17	0	14	.2	.12	.01

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT. 11...	.24	.32	.03	68	7.2	13.5	2	10.4	101	2.7
DEC. 20...	.20	.77	.02	75	6.8	.0	4	15.1	105	.0
MAR. 05...	.17	.77	.08	80	6.8	1.0	14	12.6	89	4.9
APR. 24...	.27	.86	.02	62	7.9	7.0	3	--	--	4.7
MAY 22...	.38	.68	.03	62	8.1	12.0	2	9.0	84	4.0
JUNE 19...	.41	.67	.03	74	7.1	18.0	4	7.9	84	4.3
AUG. 07...	.19	.32	.03	55	7.6	21.0	4	7.5	84	--

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT. 11...	--	3200	14	--	8.1	--	--	--	0	--
DEC. 20...	--	2200	--	--	6.0	--	--	--	10	--
MAR. 05...	--	800	1400	--	5.5	--	--	--	1	--
APR. 24...	5.5	B900	1033	--	--	.00	--	--	<1	0
MAY 22...	3.6	6200	830	71	--	--	--	--	2	--
JUNE 19...	11	7000	970	230	50	--	--	--	1	--
AUG. 07...	--	--	300	--	8.3	.00	.0	0	0	--

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

04258750 BLACK RIVER BELOW CARTHAGE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 11...	--	--	--	6	<.5	--	--	--	--
DEC. 20...	--	--	--	14	<.5	--	--	--	--
MAR. 05...	--	--	--	2	.8	--	--	--	--
APR. 24...	0	10	10	2	<.5	--	0	0	--
MAY 22...	1	0	10	1	<.5	--	--	--	--
JUNE 19...	0	<10	0	2	<.5	--	--	--	--
AUG. 07...	0	<10	10	2	<.5	0	<2	--	.0

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
JUNE 19...	1100	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE 19...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 19...	1100	.0	0	.0	.0	.0	.0	.0	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 19...	.0	.0	.0	.0	.0	.0	.0	9	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 07...	1130	<.4	3.2	2.6	49	<.4	1.1	1.0	7

04259980 BLACK RIVER AT HUNTINGTONVILLE, N.Y.

LOCATION.--Lat 43°59'01", long 75°51'43", Jefferson County, at Watertown water department dosing station at middle of right channel at Huntington Island, 0.5 mi (0.8 km) north of Huntingtonville, and 3.8 mi (6.1 km) upstream of gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 mi^2 (4,859 km^2) at gaging station.

PERIOD OF RECORD.--Water temperatures: April 1969 to September 1974.

EXTREMES.--1973-74:
Water temperatures: Maximum, 24.0°C Aug. 23; minimum, freezing point on Jan. 1-3.

Period of record:
Water temperatures: Maximum, 26.0°C Sept. 3-5, 1973; minimum, freezing point on many days during winter periods 1972-74.

REMARKS.--No record on most Sundays.

COOPERATION.--Water temperature record furnished by the City of Watertown.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	9.5	4.5	0.0	0.5	0.5	1.0	13.0	16.5	19.0	21.0	20.0
2	15.0	8.5	---	0.0	0.5	0.5	1.0	12.0	---	19.5	21.0	20.0
3	15.5	8.5	4.5	0.0	---	---	0.5	13.0	18.0	20.0	21.0	19.0
4	15.5	---	4.5	0.5	0.5	0.5	2.0	10.5	18.5	21.0	22.0	16.5
5	16.0	6.0	4.0	0.0	0.5	1.0	4.5	---	19.0	23.0	20.5	17.0
6	14.5	5.0	4.5	0.5	0.5	1.0	4.5	11.0	20.5	21.5	20.5	17.0
7	---	4.0	4.0	0.5	0.5	1.0	---	9.0	21.0	---	21.0	17.0
8	14.5	4.0	3.5	0.5	0.5	1.0	3.0	8.0	20.0	23.0	21.5	17.0
9	14.0	3.5	---	0.5	0.5	0.5	2.0	9.5	21.0	23.5	21.0	18.0
10	13.5	3.0	2.0	0.5	---	---	2.0	9.0	23.0	23.5	21.0	18.5
11	14.0	---	1.5	0.5	0.5	1.5	3.5	9.0	20.5	23.0	---	18.5
12	14.0	3.0	1.5	0.5	0.5	1.5	5.0	---	18.5	22.0	21.5	19.5
13	14.5	3.5	1.5	---	0.5	1.5	6.5	10.0	18.5	23.0	23.0	20.0
14	14.0	3.5	1.0	0.5	0.5	1.5	---	10.0	18.5	---	23.0	20.0
15	12.0	3.0	1.0	0.5	0.5	2.0	8.5	12.0	20.0	23.5	22.0	18.0
16	12.0	2.0	---	0.5	0.5	1.5	6.5	13.0	---	22.0	22.0	17.0
17	10.5	1.0	1.0	0.5	---	---	6.5	13.5	19.0	22.0	22.0	17.0
18	10.0	---	1.0	0.5	0.5	0.5	8.5	14.0	19.0	22.0	22.0	16.5
19	9.0	3.5	0.5	0.5	1.0	0.5	8.5	---	19.0	23.0	23.0	16.5
20	9.0	1.5	0.5	---	0.5	1.0	8.0	14.5	18.5	21.5	23.0	16.0
21	9.5	2.0	0.5	1.0	0.5	1.5	---	15.0	19.5	21.5	23.0	15.5
22	9.0	3.5	0.5	1.0	0.5	1.0	10.0	15.5	19.5	21.5	23.5	15.0
23	9.5	4.0	---	0.5	0.5	1.0	10.0	16.5	---	22.0	24.0	13.5
24	10.0	4.0	0.5	0.5	---	---	9.5	16.0	19.5	20.5	23.0	13.0
25	10.0	---	0.5	0.5	0.5	1.5	9.0	15.0	19.5	20.0	22.0	12.0
26	10.5	4.0	0.5	1.0	0.5	1.0	9.0	---	19.0	20.5	22.0	11.5
27	10.0	4.5	0.5	---	0.5	1.0	9.5	14.5	18.5	21.0	23.0	13.0
28	9.0	5.5	0.5	1.0	0.5	1.0	---	15.0	20.0	---	22.0	13.5
29	8.5	6.0	0.5	1.0	---	1.5	13.0	15.0	20.0	23.0	22.0	14.5
30	9.0	5.5	---	1.0	---	1.5	13.5	14.0	19.0	21.0	21.5	13.0
31	8.5	---	0.5	1.0	---	---	---	15.5	---	21.0	22.0	---
AVERAGE	12.0	4.0	2.0	0.5	0.5	1.0	6.5	12.5	19.5	21.5	22.0	16.5

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, at gaging station at Vanduzee Street Bridge in Watertown, and 3.5 mi (5.6 km) upstream from Philomel Creek.

DRAINAGE AREA.--1,876 mi^2 (4,859 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, August 1965 to September 1974.
Water temperatures: October 1955 to September 1959, July 1962 to March 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
18...	1730	1800	5.5	390	60	--	11	--	1.4	--	3.8
NOV.											
15...	0900	2660	5.9	100	0	--	11	--	1.4	--	4.0
DEC.											
19...	1800	3640	5.2	360	40	--	15	--	1.5	--	2.5
JAN.											
22...	1400	3040	5.9	430	130	--	14	--	1.5	--	2.9
FEB.											
20...	0840	2820	6.2	340	70	--	11	--	1.0	--	3.0
MAR.											
04...	1530	5990	4.7	--	--	--	12	--	1.2	--	3.0
APR.											
18...	1500	13580	--	--	--	--	--	--	--	--	--
24...	0800	8580	2.7	480	50	9.0	--	1.0	--	1.6	--
MAY											
22...	0800	6710	3.5	420	60	10	--	1.1	--	2.0	--
JUNE											
18...	1500	4000	4.8	510	70	12	--	1.1	--	2.3	--
JULY											
16...	0830	2020	--	430	70	12	--	1.0	--	2.9	--
AUG.											
07...	0800	5730	--	490	80	16	--	1.5	--	1.8	--
SEP.											
16...	1545	1970	--	410	40	14	--	1.4	--	4.2	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
18...	--	1.1	31	0	25	12	1.5	--	.3	.05	.00
NOV.											
15...	--	.8	28	0	23	13	1.5	--	.2	.22	.00
DEC.											
19...	--	1.2	36	0	30	12	2.3	--	.4	.60	.01
JAN.											
22...	--	.7	42	0	34	11	2.9	--	.1	.58	.01
FEB.											
20...	--	.7	27	0	22	12	2.7	--	.2	.54	.01
MAR.											
04...	--	.9	31	0	25	11	3.4	--	.1	.59	.01
APR.											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	.8	--	24	0	20	7.3	1.3	.1	--	.56	.01
MAY											
22...	.8	--	27	0	22	8.9	1.5	.2	--	.31	.01
JUNE											
18...	.6	--	27	0	22	8.8	1.8	.2	--	.26	.01
JULY											
16...	.7	--	43	0	35	11	2.1	--	--	.22	.01
AUG.											
07...	.8	--	34	0	28	11	1.6	--	--	.19	.01
SEP.											
16...	1.0	--	35	0	29	11	2.8	--	--	.16	.02

CONTINUED NEXT PAGE

04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT. 18...	.03	.23	.26	.32	.00	--	.01	52	72	56	2
NOV. 15...	.00	.15	.15	.38	.17	--	.00	52	80	47	8
DEC. 19...	.06	.12	.18	.80	.02	--	.01	58	83	64	8
JAN. 22...	.10	.22	.32	.91	.02	--	.01	60	60	54	1
FEB. 20...	.07	.17	.24	.79	.01	--	.00	50	66	43	5
MAR. 04...	.12	.08	.20	.80	.02	--	.00	52	68	53	15
APR. 18...	--	--	--	--	--	--	--	--	--	--	--
24...	.14	.10	.24	.81	.02	.00	--	--	60	35	10
MAY 22...	.06	.30	.36	.68	.02	.00	--	--	75	54	8
JUNE 18...	.03	.33	.36	.63	.03	.01	--	--	50	42	3
JULY 16...	.29	.06	.35	.58	.02	.01	--	--	60	34	4
AUG. 07...	.28	.13	.41	.61	.03	.01	--	--	85	38	12
SEP. 16...	.37	.08	.45	.63	.02	.01	--	--	61	28	1

DATE	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT. 18...	1	33	8	68	7.4	9.0	--	--	11.2	97
NOV. 15...	1	37	14	85	7.2	4.5	--	--	13.6	106
DEC. 19...	6	40	10	101	7.3	.0	--	--	14.6	101
JAN. 22...	0	40	6	107	6.7	1.0	--	--	15.2	108
FEB. 20...	3	37	15	97	8.1	.0	--	--	13.8	95
MAR. 04...	9	33	8	80	7.8	1.5	--	--	13.2	95
APR. 18...	--	--	--	--	--	--	--	--	--	--
24...	7	--	--	80	7.8	6.0	--	--	11.3	92
MAY 22...	4	--	--	76	8.0	13.0	--	--	9.6	92
JUNE 18...	3	--	--	60	7.9	18.0	--	--	9.4	100
JULY 16...	2	--	--	90	8.1	20.0	20	3	8.9	98
AUG. 07...	1	--	--	85	8.0	20.0	20	6	8.9	98
SEP. 16...	0	--	--	108	7.9	9.0	20	3	8.6	93

04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
18...	14	1400	290	--	--	.0	--	--	--	--
NOV.										
15...	15	B87000	B4200	--	--	.0	--	--	--	--
DEC.										
19...	15	3900	--	--	--	.0	--	--	--	--
JAN.										
22...	13	B1700	B380	--	--	.0	--	--	--	--
FEB.										
20...	14	B1500	3600	--	--	.0	--	--	--	--
MAR.										
04...	15	2000	800	--	--	.0	--	--	--	--
APR.										
18...	--	9600	570	--	--	--	--	--	--	--
24...	15	B960	480	--	--	.0	--	--	--	--
MAY										
22...	18	4400	1500	--	--	.0	--	--	--	--
JUNE										
18...	18	9600	570	--	--	.0	--	--	--	--
JULY										
16...	17	2400	1000	--	--	--	--	--	--	--
AUG.										
07...	21	13000	4000	--	--	--	--	--	--	--
SEP.										
16...	18	--	B160	260	4.8	--	1	10	1	<.5

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

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.

LOCATION.--Lat 43°59'44", long 75°56'01", Jefferson County, at bridge on Interstate Highway 81 in Watertown, 0.9 mi (1.4 km) downstream from gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 mi^2 (4,859 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1971 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.										
18...	1530	E2010	--	--	--	--	--	--	--	.06
DEC.										
19...	1515	E3390	--	--	--	--	--	--	--	.62
MAR.										
04...	1330	E6260	--	--	--	--	--	--	--	.80
APR.										
23...	1500	E8530	--	550	60	--	--	--	--	1.1
MAY										
21...	1530	E7520	--	--	--	--	--	--	--	.31
JUNE										
18...	1400	E4110	--	--	--	--	--	--	--	.25
AUG.										
06...	1630	E5730	5.5	500	60	33	0	27	.3	.18

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.										
18...	.00	.32	.39	.01	90	7.4	9.0	7	12.0	104
DEC.										
19...	.01	.22	.85	.02	112	6.9	.0	2	15.0	104
MAR.										
04...	.04	.32	1.2	.02	93	8.1	1.5	7	13.2	95
APR.										
23...	.02	.27	1.4	.04	80	7.9	7.0	3	11.6	97
MAY										
21...	.01	.32	.64	.03	70	8.1	12.0	2	10.2	95
JUNE										
18...	.01	.35	.61	.03	63	7.6	18.0	3	9.2	98
AUG.										
06...	.01	.35	.54	.03	82	8.1	23.0	3	8.3	98

DATE	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT.										
18...	1.4	--	1500	B380	--	--	--	--	--	<1
DEC.										
19...	.0	--	2300	--	--	6.0	--	--	--	1
MAR.										
04...	1.5	--	2900	970	--	8.0	--	--	--	1
APR.										
23...	.7	3.4	9800	160	--	--	.00	--	--	<1
MAY										
21...	4.7	5.7	3400	B160	24	5.4	--	--	--	1
JUNE										
18...	1.6	4.0	7600	220	53	5.9	--	--	--	<1
AUG.										
06...	6.0	6.0	--	1800	--	6.8	.00	.0	0	1

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

E Estimated value.

04260505 BLACK RIVER BELOW WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 18...	--	--	--	--	9	<.5	--	--	--	--
DEC. 19...	--	--	--	--	9	<.5	--	--	--	--
MAR. 04...	--	--	--	--	2	<.5	--	--	--	--
APR. 23...	0	0	10	0	3	<.5	--	0	0	--
MAY 21...	--	0	20	60	59	<.5	--	--	--	--
JUNE 18...	--	0	<10	0	1	<.5	--	--	--	--
AUG. 06...	--	0	<10	10	1	<.5	7	0	--	2.0

PESTICIDE ANALYSIS

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
JUNE 18...	1400	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE 18...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 18...	1400	.0	0	.8	.0	1.5	.0	.7	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
JUNE 18...	.0	.0	.0	.0	.0	.0	.0	0	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 06...	1630	<.7	3.3	2.6	66	<.4	.5	.5	9

04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.

LOCATION.--Lat 44°07'48", long 76°20'10", Jefferson County, at end of U.S. Coast Guard Station dock in Cape Vincent and approximately 1,500 ft (457 m) downstream from village water intake.

DRAINAGE AREA.--292,000 mi^2 (756,000 km^2) approximately.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 30...	1155	.4	390	20	--	34	--	8.3	--	13	--	1.6
NOV. 26...	0950	.4	10	10	--	40	--	8.2	--	14	--	1.6
APR. 23...	1050	.0	90	10	--	40	--	8.6	--	13	--	1.6
MAY 20...	1600	.0	80	0	38	--	7.7	--	13	--	1.6	--
JUNE 17...	1445	.1	30	10	37	--	7.6	--	13	--	1.2	--
JULY 15...	0930	--	10	30	35	--	8.3	--	13	--	1.4	--
AUG. 13...	1420	--	0	50	34	--	8.0	--	12	--	1.5	--
SEP. 09...	1240	--	100	10	45	--	7.2	--	12	--	1.2	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT. 30...	110	0	90	25	27	--	.4	.18	.00	.00	.28
NOV. 26...	112	0	92	30	28	--	.3	.22	.01	.13	--
APR. 23...	113	0	93	26	27	--	.7	.15	.01	.04	.23
MAY 20...	107	0	88	26	28	.2	--	.19	.01	.09	.20
JUNE 17...	111	0	91	27	28	.2	--	.13	.01	.05	.24
JULY 15...	108	0	89	29	28	--	--	.04	.01	.15	.28
AUG. 13...	109	--	89	29	28	--	--	.06	.01	.14	.24
SEP. 09...	107	--	88	26	29	--	--	.03	.00	.07	.22

04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.											
30...	.28	.47	.02	--	.01	164	197	141	16	5	120
NOV.											
26...	.05	.28	.02	--	.01	178	195	154	43	43	130
APR.											
23...	.27	.43	.03	--	.01	173	216	192	3	2	140
MAY											
20...	.29	.49	.02	.00	--	--	230	171	4	3	--
JUNE											
17...	.29	.43	.02	.00	--	--	215	146	0	0	--
JULY											
15...	.43	.48	.03	.01	--	--	221	157	2	0	--
AUG.											
13...	.38	.45	.02	.01	--	--	203	144	0	0	--
SEP.											
09...	.29	.32	.01	.01	--	--	213	159	0	0	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
30...	29	323	7.8	--	--	11	.0	--	--	--	--
NOV.											
26...	42	326	8.0	--	--	6	.0	--	--	--	--
APR.											
23...	43	317	7.9	--	--	6	.0	--	--	--	--
MAY											
20...	--	320	8.1	--	--	8	.0	--	--	--	--
JUNE											
17...	--	318	8.3	--	--	7	.0	1	10	6	<.5
JULY											
15...	--	321	8.5	1	2	8	--	--	--	--	--
AUG.											
13...	--	305	--	1	1	7	--	--	--	--	--
SEP.											
09...	--	319	--	0	2	8	--	1	0	1	<.5

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.

LOCATION.--Lat 44°20'05", long 75°28'17", St. Lawrence County, at bridge on U.S. Highway 11, 50 ft (15 m) upstream from dam in Gouverneur.

DRAINAGE AREA.--720 mi^2 (1,865 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
16...	0900	--	--	--	--	--	--	--	.18	.00
DEC.										
04...	0930	--	--	--	--	--	--	--	.29	.00
MAR.										
04...	0915	--	--	--	--	--	--	--	.51	.02
APR.										
23...	0900	--	380	80	--	--	--	--	.47	.02
MAY										
21...	0930	--	--	--	--	--	--	--	.32	.01
JUNE										
18...	0900	--	--	--	--	--	--	--	.26	.01
AUG.										
06...	1000	5.3	500	60	31	0	25	.3	.24	.02

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHLORO-PHYLL A (UG/L)
OCT.										
16...	.35	.54	.02	110	8.6	10.0	3	8.2	73	1.9
DEC.										
04...	.10	.40	--	62	7.8	3.0	3	9.8	74	.0
MAR.										
04...	.42	.95	.03	75	8.0	1.0	10	11.2	79	.6
APR.										
23...	.27	.76	.02	78	7.9	10.0	2	10.0	89	3.7
MAY										
21...	.68	1.0	.01	63	7.8	1.0	1	11.2	79	3.3
JUNE										
18...	.41	.68	.02	95	7.7	18.0	3	6.2	66	1.2
AUG.										
06...	.42	.68	.03	105	7.8	20.0	4	7.6	94	5.0

DATE	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)
OCT.										
16...	--	3900	1200	--	6.9	--	--	--	<1	--
DEC.										
04...	--	81300	1000	--	13	--	--	--	0	--
MAR.										
04...	--	2000	470	--	4.5	--	--	--	1	--
APR.										
23...	5.3	2700	770	--	--	.00	--	--	<1	0
MAY										
21...	9.5	3700	730	87	5.3	--	--	--	<1	--
JUNE										
18...	.0	4200	340	77	10	--	--	--	4	--
AUG.										
06...	9.0	--	1400	--	11	.00	.0	0	<1	--

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

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL VANADIUM (V) (UG/L)
OCT. 16...	--	--	--	190	<.5	--	--	--	--
DEC. 04...	--	--	--	180	.8	--	--	--	--
MAR. 04...	--	--	--	86	<.5	--	--	--	--
APR. 23...	0	0	10	3	<.5	--	0	0	--
MAY 21...	0	10	10	1	<.5	--	--	--	--
JUNE 18...	0	0	0	1	<.5	--	--	--	--
AUG. 06...	0	0	90	210	<.5	5	0	--	2.5

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 21...	0930	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 21...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 21...	0930	.0	--	--	--	--	.0	.3	.0	.0
AUG. 06...	1000	.0	0	.0	.0	5.4	.0	.3	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 21...	--	.0	--	.0	.0	.0	.0	700	--	.0
AUG. 06...	.0	.0	.0	.0	.0	.0	.0	78	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 06...	1000	1.2	3.3	2.7	77	<.4	.6	.5	5

04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.

LOCATION.--Lat 44°41'03", long 75°29'20", St. Lawrence County, at bridge on State Highway 37 in Ogdensburg and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--1,602 mi^2 (4,149 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	0840	4.3	290	30	--	14	--	3.9	--	3.0	--	1.1
NOV.												
27...	1400	3.9	240	10	--	16	--	4.2	--	3.0	--	1.2
APR.												
24...	--	3.2	500	70	22	--	3.4	--	1.2	--	.9	--
MAY												
20...	1430	2.2	230	40	12	--	3.1	--	1.6	--	.9	--
JUNE												
19...	1235	3.1	270	50	16	--	4.3	--	2.5	--	1.1	--
JULY												
16...	1330	--	240	30	14	--	3.2	--	2.5	--	.8	--
AUG.												
12...	1000	--	300	40	14	--	3.5	--	2.6	--	1.1	--
SEP.												
10...	1000	--	320	30	14	--	3.0	--	3.0	--	.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	44	0	36	18	3.0	--	.3	.24	.00	.00	.27
NOV.											
27...	43	0	35	20	2.4	--	.4	.31	.00	.00	.21
APR.											
24...	33	0	27	12	2.2	.2	--	.33	.06	.13	.19
MAY											
20...	40	0	33	11	1.9	.2	--	.16	.01	.07	.49
JUNE											
19...	49	0	40	14	2.2	.2	--	.19	.01	.13	.40
JULY											
16...	44	0	36	15	1.9	--	--	.16	.01	.21	.22
AUG.											
12...	37	--	30	19	3.0	--	--	.20	.01	.24	.11
SEP.											
10...	40	--	33	13	2.5	--	--	.08	.00	.21	.17

04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 31...	.27	.52	.01	--	.01	69	157	124	4	2	51
NOV. 27...	.21	.52	.02	--	.01	72	77	49	4	1	57
APR. 24...	.32	.71	.03	.01	--	--	62	39	6	5	--
MAY 20...	.56	.73	.02	.01	--	--	69	45	4	4	--
JUNE 19...	.53	.73	.03	.01	--	--	96	80	3	0	--
JULY 16...	.43	.60	.03	.01	--	--	84	50	3	0	--
AUG. 12...	.35	.56	.02	.01	--	--	98	63	6	3	--
SEP. 10...	.38	.46	.02	.01	--	--	136	106	2	1	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 31...	15	128	7.1	--	--	2	.0	--	--	--	--
NOV. 27...	22	123	7.1	--	--	18	.0	--	--	--	--
APR. 24...	--	89	7.1	--	--	13	.0	--	--	--	--
MAY 20...	--	101	7.8	--	--	18	.0	--	--	--	--
JUNE 19...	--	128	7.4	--	--	18	.0	<1	0	3	<.5
JULY 16...	--	126	7.5	20	2	17	--	--	--	--	--
AUG. 12...	--	120	--	20	2	14	--	--	--	--	--
SEP. 10...	--	108	--	4	4	13	--	0	0	1	<.5

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.
(NATIONAL STREAM-QUALITY ACCOUNTING NETWORK AND INTERNATIONAL HYDROLOGICAL DECADE RIVER STATION)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario - St. Lawrence County, New York, at Robert Moses - Robert H. Saunders Power Dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi (4.7 km) upstream from Grass River, 6.2 mi (10.0 km) upstream from Raquette River, and 5.9 mi (9.5 km) northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 mi^2 (774,410 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1974. Water temperatures: October 1955 to October 1958, January 1966 to September 1973. Prior to October 1970, published as "near Massena, N.Y."

EXTREMES.--1973-74:
Water temperatures: Maximum, 22.0°C on many days during August; minimum, 0.5°C on many days winter period.

Period of record: Maximum, 24.5°C on several days during August and September 1973; minimum, freezing point on many days during winter periods most years.

REMARKS.--Measurements made approximately 68 ft (21 m) below normal forebay level. Records for period October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power Station and are unpublished.

COOPERATION.--Water temperature record furnished by the Power Authority of the State of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JAN.											
22...	1115	250000	.6	38	8.5	13	1.5	108	0	89	27
FEB.											
20...	1500	280000	.4	39	8.0	12	1.5	114	0	94	26
MAR.											
06...	1545	300000	.4	38	7.5	13	1.8	110	0	90	24
APR.											
25...	1000	310000	.0	40	8.0	12	1.4	112	0	92	26
MAY											
23...	1000	300000	.2	38	7.4	13	1.5	107	0	88	25
JUNE											
20...	1000	330000	.1	41	7.8	13	1.5	111	0	91	29
JULY											
17...	1000	337000	.3	36	7.3	13	2.4	111	0	91	26
AUG.											
08...	1425	341000	.4	36	7.8	13	1.5	108	0	89	26
SEP.											
24...	1145	311000	.4	36	8.6	13	1.6	101	0	83	24

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JAN.											
22...	26	.2	.24	.00	.31	.55	2.0	190	168	--	--
FEB.											
20...	27	.2	.25	.00	.27	.52	.02	205	170	--	--
MAR.											
06...	27	.2	.27	.00	.11	.38	.02	219	166	--	--
APR.											
25...	27	.2	--	--	.32	.82	.02	186	170	--	--
MAY											
23...	28	.2	--	--	--	--	.02	231	166	--	--
JUNE											
20...	26	.2	--	--	.36	.48	.02	208	173	--	--
JULY											
17...	24	.1	--	--	.43	.53	.03	191	164	--	--
AUG.											
08...	27	.2	--	--	.36	.47	.03	201	165	--	--
SEP.											
24...	28	.1	--	--	.25	.33	.03	199	162	4	3350

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.											
22...	130	41	340	7.7	.5	5	11.0	78	82	--	--
FEB.											
20...	130	37	310	8.4	6.0	8	11.0	78	83	81	--
MAR.											
06...	130	36	260	8.5	2.0	1	12.8	93	89	29	--
APR.											
25...	130	41	388	8.2	5.5	3	--	--	84	81	--
MAY											
23...	130	38	250	8.0	10.0	2	10.8	96	83	82	--
JUNE											
20...	130	43	379	8.5	16.0	2	8.0	82	88	82	3.2
JULY											
17...	120	29	313	8.5	20.0	3	7.7	85	82	85	--
AUG.											
08...	120	33	360	8.3	21.5	4	--	--	--	--	--
SEP.											
24...	130	42	330	8.0	17.5	1	--	--	<1	<1	2.8

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
MAR.											
06...	1545	1	--	2	0	--	0	--	--	--	0
APR.											
25...	1000	3	--	--	--	--	1	--	--	0	--
JUNE											
20...	1000	1	--	<1	0	0	1	0	0	0	0
AUG.											
27...	1200	1	1	0	0	0	1	0	0	0	0
SEP.											
24...	1145	1	0	1	0	0	1	<10	--	0	2

DATE	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
MAR.											
06...	--	0	10	0	10	--	--	3	--	0	--
APR.											
25...	--	0	--	--	10	--	20	--	--	2	--
JUNE											
20...	0	0	10	10	0	100	40	0	0	1	10
AUG.											
27...	0	0	10	10	0	540	10	4	4	0	20
SEP.											
24...	2	0	0	0	0	140	20	4	4	0	30

DATE	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR.										
06...	--	--	<.5	<.5	1	--	<1	70	--	70
APR.										
25...	--	0	--	<.5	--	--	--	--	--	20
JUNE										
20...	0	20	<.5	<.5	0	0	1	30	10	20
AUG.										
27...	20	0	<.5	<.5	0	0	0	10	0	20
SEP.										
24...	30	0	<.5	<.5	3	--	<2	10	0	10

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

CONTINUED NEXT PAGE

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

RADIOCHEMICAL ANALYSES

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
FEB. 20...	1500	3.3	5.2	4.2	200	<.4	<.4	<.4	1	.03	.22
AUG. 27...	1200	<2.2	4.8	3.9	200	<.4	.5	.5	4	.05	.27

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	12.0	6.0	1.0	0.5	1.0	1.0	7.0	12.0	16.0	21.0	21.5
2	18.0	12.0	6.0	1.0	0.5	1.0	1.0	7.0	12.5	16.0	21.0	21.5
3	18.0	11.5	5.5	1.0	0.5	1.0	1.5	7.0	13.0	17.0	21.0	21.0
4	18.0	11.0	6.0	1.0	0.5	1.0	2.0	7.0	13.5	17.0	21.0	20.5
5	18.0	10.5	6.0	1.0	0.5	1.0	2.0	7.0	13.5	17.0	21.0	20.5
6	17.5	10.0	6.0	1.0	0.5	1.0	2.0	7.0	14.0	17.0	21.0	20.5
7	17.0	10.0	5.5	1.0	0.5	1.0	2.0	7.0	14.5	17.5	21.0	20.5
8	17.0	9.5	5.5	---	0.5	1.0	2.0	7.0	15.0	18.0	21.0	20.5
9	17.0	9.0	5.5	0.5	0.5	1.0	2.0	7.0	15.0	19.0	21.0	20.5
10	17.0	8.5	5.5	0.5	0.5	1.0	2.0	7.0	15.5	19.0	21.0	20.0
11	16.5	8.0	5.5	0.5	0.5	1.0	2.0	7.0	16.0	19.0	21.5	19.5
12	16.5	8.0	5.0	0.5	0.5	1.0	2.0	7.0	15.5	19.5	22.0	19.5
13	16.0	8.0	4.5	0.5	0.5	1.0	2.5	7.5	15.5	20.0	22.0	19.5
14	16.0	8.0	4.5	0.5	0.5	1.0	3.0	7.5	16.0	20.0	22.0	19.0
15	16.0	8.0	4.5	0.5	0.5	1.0	3.0	8.0	16.0	20.5	22.0	19.0
16	15.5	8.0	4.0	0.5	0.5	1.0	3.5	9.0	16.0	20.0	22.0	19.0
17	15.0	7.5	3.5	0.5	0.5	1.0	3.5	9.0	16.0	20.0	22.0	19.0
18	15.0	7.0	2.5	0.5	0.5	1.0	4.0	9.0	16.0	20.0	22.0	19.0
19	15.0	7.0	2.5	0.5	0.5	1.0	4.0	9.5	16.0	20.0	22.0	19.0
20	14.5	7.0	1.5	0.5	0.5	1.0	4.5	9.5	16.5	20.0	22.0	19.0
21	14.0	6.5	1.0	0.5	1.0	1.0	5.0	10.0	16.5	20.0	22.0	18.5
22	14.0	6.5	1.0	0.5	1.0	1.0	5.0	10.0	16.5	20.0	21.5	18.0
23	14.0	6.5	1.0	0.5	1.0	1.0	5.5	10.0	17.0	20.5	22.0	18.0
24	14.0	6.5	1.0	0.5	1.0	1.0	5.5	10.5	17.0	20.5	22.0	17.5
25	13.5	6.5	1.0	0.5	1.0	1.0	5.0	10.5	17.0	20.0	22.0	17.0
26	13.5	6.5	1.0	0.5	1.0	1.0	5.5	11.0	17.0	20.0	22.0	17.0
27	13.0	6.5	1.0	0.5	1.0	1.0	6.0	11.0	16.5	20.5	22.0	17.0
28	13.0	6.5	1.0	1.0	1.0	1.0	6.0	11.0	17.0	20.5	22.0	16.5
29	12.5	6.5	1.0	1.0	---	1.0	7.0	11.0	17.0	20.5	22.0	16.5
30	12.0	6.5	1.0	1.0	---	1.0	7.0	11.5	16.5	20.5	22.0	16.5
31	12.0	---	1.0	0.5	---	1.0	---	12.0	---	20.5	22.0	---
AVERAGE	15.5	8.0	3.5	0.5	0.5	1.0	3.5	8.5	15.5	19.0	21.5	19.0

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT.-NEAR MASSENA, N.Y.--Continued

PHYTOPLANKTON ANALYSES, JANUARY TO SEPTEMBER 1974

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION	DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
Aug. 27 1974	5,500	Melosira	44	Sept. 24 1974	3,800	Oscillatoria	63
		Lyngbya	30			Coelastrum	15
		Anacystis	8			Scenedesmus	8
		Chlorococcum	5			Anacystis	6
		Anabaena	3			Agmenellum	2
		Crucigenia	3			Kirchneriella	2
		Asterionella	2			Ankistrodesmus	2
		Cyclotella	2			Navicula	1
		Scenedesmus	2			Cyclotella	1
						Asterionella	<1
						Tetraedron	<1

PERIPHYTON ANALYSES, AUGUST TO OCTOBER 1974

DATE	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M
Aug. 29 - Sep. 24	7.3	1.8	14
Sep. 24 - Oct. 23	--	--	.80

04265437 GRASS RIVER ABOVE MASSENA, N.Y.

LOCATION.--Lat 44°55'20", long 74°55'36", St. Lawrence County, at bridge on State Highway 37, 0.4 mi (0.6 km) west of State Highway 56, 0.7 mi (1.1 km) west of Massena, and 3.0 mi (4.8 km) upstream from Massena Power Canal.

DRAINAGE AREA.--628 mi^2 (1,627 km^2).

PERIOD OF RECORD.--Chemical analyses: May to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 31...	1015	5.1	310	20	--	11	--	4.3	--	3.0	--	.8
NOV. 27...	1230	5.6	250	10	--	13	--	4.7	--	2.5	--	1.1
APR. 24...	1300	4.6	260	20	9.2	--	3.4	--	1.3	--	.7	--
MAY 20...	1315	3.3	340	10	12	--	3.9	--	1.6	--	2.6	--
JUNE 19...	1145	4.7	470	40	14	--	4.2	--	2.0	--	.6	--
JULY 16...	1215	--	440	40	12	--	3.6	--	2.5	--	.6	--
AUG. 12...	1115	--	430	50	11	--	4.2	--	1.4	--	1.5	--
SEP. 10...	1100	--	570	10	16	--	4.4	--	2.4	--	.6	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT. 31...	41	0	34	12	2.5	--	.3	.09	.00	.00	.24
NOV. 27...	36	0	30	20	2.6	--	.3	.29	.00	.00	.16
APR. 24...	33	0	27	13	1.9	.3	--	.40	.03	.10	.16
MAY 20...	41	0	34	12	3.2	.2	--	.12	.03	.08	.19
JUNE 19...	43	0	35	11	1.7	.3	--	.13	.01	.12	.39
JULY 16...	43	0	35	13	1.8	--	--	.03	.01	.26	.21
AUG. 12...	40	--	33	13	2.0	--	--	.10	.01	.33	.18
SEP. 10...	51	--	42	10	2.6	--	--	.03	.00	.17	.14

04265437 GRASS RIVER ABOVE MASSENA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.											
31...	.24	.34	.00	--	.01	59	70	43	8	5	45
NOV.											
27...	.16	.45	.02	--	.02	68	81	58	4	2	52
APR.											
24...	.26	.69	.02	.01	--	--	64	34	7	3	--
MAY											
20...	.27	.42	.02	.01	--	--	98	63	5	4	--
JUNE											
19...	.51	.65	.04	.02	--	--	84	52	2	1	--
JULY											
16...	.47	.51	.04	.02	--	--	81	40	3	3	--
AUG.											
12...	.51	.62	.05	.03	--	--	99	69	1	1	--
SEP.											
10...	.31	.34	.02	.01	--	--	81	61	2	0	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
31...	12	105	7.2	--	--	16	.0	--	--	--	--
NOV.											
27...	22	115	7.2	--	--	14	.0	--	--	--	--
APR.											
24...	--	93	7.3	--	--	14	.0	--	--	--	--
MAY											
20...	--	109	7.6	--	--	19	.0	--	--	--	--
JUNE											
19...	--	107	7.5	--	--	23	.0	1	10	3	<.5
JULY											
16...	--	100	7.7	60	2	24	--	--	--	--	--
AUG.											
12...	--	105	--	40	4	27	--	--	--	--	--
SEP.											
10...	--	116	--	20	2	18	--	0	0	4	<.5

04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.

LOCATION.--Lat 44°57'52", long 74°47'53", St. Lawrence County, off south bank at end of road off South Grass River Road, 0.5 mi (0.8 km) west of Haverstock Road, 1.7 mi (2.7 km) east of Massena Center, 2.4 mi (3.9 km) downstream from bridge on State Highway 131, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--641 mi^2 (1,660 km^2).

PERIOD OF RECORD.--Chemical analyses: April to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT. 31...	1205	5.1	710	50	--	20	--	6.7	--	8.0	--	1.2
NOV. 27...	1100	5.3	310	10	--	17	--	6.0	--	4.0	--	1.2
APR. 24...	1300	4.4	280	20	9.7	--	3.5	--	1.9	--	.9	--
MAY 20...	1200	3.2	500	50	13	--	4.3	--	2.5	--	.9	--
JUNE 19...	1000	4.0	560	20	24	--	4.9	--	4.0	--	1.0	--
JULY 16...	1000	--	330	50	20	--	4.6	--	6.0	--	.9	--
AUG. 12...	1245	--	470	40	--	--	4.2	--	2.2	--	1.6	--
SEP. 10...	1300	--	410	10	17	--	4.1	--	4.5	--	1.0	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT. 31...	30	0	25	27	10	--	1.2	.28	.00	.00	.26
NOV. 27...	51	0	42	23	4.9	--	.9	.37	.00	.01	.22
APR. 24...	34	0	28	13	2.4	.3	--	.38	.04	.10	.21
MAY 20...	46	0	38	13	3.0	.4	--	.13	.02	.09	.30
JUNE 19...	58	0	48	16	4.6	.7	--	.15	.17	.02	.49
JULY 16...	64	0	53	18	9.0	--	--	.11	.01	.34	.26
AUG. 12...	42	--	34	14	3.7	--	--	.13	.02	.40	.20
SEP. 10...	49	--	40	12	5.8	--	--	.14	.00	.30	.25

04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT. 31...	.26	.55	.05	--	.03	105	132	93	8	2	78
NOV. 27...	.23	.60	.02	--	.02	87	94	66	4	3	67
APR. 24...	.31	.73	.03	.01	--	--	73	43	5	2	--
MAY 20...	.39	.54	.03	.02	--	--	105	71	--	--	--
JUNE 19...	.51	.83	.06	.02	--	--	107	78	6	4	--
JULY 16...	.60	.72	.05	.02	--	--	118	73	4	2	--
AUG. 12...	.60	.75	.06	.04	--	--	104	70	2	1	--
SEP. 10...	.55	.69	.05	.02	--	--	97	69	1	0	--

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 31...	53	204	6.6	--	--	17	.0	--	--	--	--
NOV. 27...	25	153	7.2	--	--	14	.0	--	--	--	--
APR. 24...	--	100	7.3	--	--	14	.0	--	--	--	--
MAY 20...	--	122	8.1	--	--	19	.0	--	--	--	--
JUNE 19...	--	150	7.2	--	--	20	.0	1	10	2	<.5
JULY 16...	--	170	7.4	40	3	21	--	--	--	--	--
AUG. 12...	--	101	--	50	5	27	--	--	--	--	--
SEP. 10...	--	91	--	30	3	16	--	0	10	2	<.5

04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.

LOCATION.--Lat 44°54'59", long 74°53'19", St. Lawrence County, at bridge on State Highway 420 (S. Main Street) in Massena Springs, 740 ft (226 m) downstream from staff gage and 0.4 mi (0.6 km) downstream from Hutchins Creek.

DRAINAGE AREA.--1,197 mi^2 (3,100 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970, July 1972 to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
31...	1115	4.9	290	20	--	5.7	--	1.9	--	2.0	--	.4
NOV.												
27...	1130	4.4	640	20	--	11	--	4.2	--	2.2	--	.9
APR.												
24...	1220	4.5	280	40	6.7	--	2.1	--	.8	--	.4	--
MAY												
20...	1245	4.1	180	20	5.0	--	1.5	--	1.0	--	.5	--
JUNE												
19...	1045	4.0	180	60	13	--	2.4	--	1.2	--	.4	--
JULY												
16...	1045	--	250	50	5.7	--	1.5	--	1.5	--	.5	--
AUG.												
12...	1125	--	200	100	6.4	--	2.2	--	1.2	--	.6	--
SEP.												
10...	1100	--	290	10	5.8	--	1.5	--	1.1	--	.6	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
31...	17	0	14	6.9	1.0	--	.3	.21	.00	.00	.23
NOV.											
27...	30	0	25	14	9.1	--	.3	.25	.00	.01	.14
APR.											
24...	18	0	15	8.7	1.3	.2	--	.51	.02	.08	.31
MAY											
20...	13	0	11	7.4	1.2	.1	--	.36	.01	.04	.16
JUNE											
19...	25	0	21	7.3	1.0	.1	--	.29	.01	.09	.20
JULY											
16...	15	0	12	9.1	1.1	--	--	.24	.01	.15	.11
AUG.											
12...	20	--	16	8.4	1.4	--	--	.18	.01	.20	.07
SEP.											
10...	15	--	12	5.9	1.0	--	--	.20	.00	.16	.04

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 31...	.23	.45	.00	--	.00	31	41	--	5	1	22
NOV. 27...	.15	.40	.01	--	.01	61	60	43	2	1	45
APR. 24...	.39	.92	.02	.00	--	--	41	20	3	2	--
MAY 20...	.20	.57	.01	.00	--	--	52	24	3	0	--
JUNE 19...	.29	.59	.02	.00	--	--	51	29	2	0	--
JULY 16...	.26	.51	.02	.01	--	--	46	24	4	2	--
AUG. 12...	.27	.46	.01	.00	--	--	65	39	13	7	--
SEP. 10...	.20	.40	.02	.01	--	--	35	20	1	1	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 31...	8	56	6.7	--	--	15	.0	--	--	--	--
NOV. 27...	20	98	7.3	--	--	16	.0	--	--	--	--
APR. 24...	--	57	7.1	--	--	12	.0	--	--	--	--
MAY 20...	--	47	7.2	--	--	15	.0	--	--	--	--
JUNE 19...	--	69	7.3	--	--	14	.0	1	0	1	<.5
JULY 16...	--	51	7.1	20	2	13	--	--	--	--	--
AUG. 12...	--	58	--	10	2	18	--	--	--	--	--
SEP. 10...	--	50	--	2	3	14	--	<1	0	2	<.5

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.

LOCATION.--Lat 44°53'32", long 74°41'28", St. Lawrence County, at highway bridge, 400 ft (122 m) downstream from former gaging station at Brasher Iron Works, 3.6 mi (5.8 km) upstream from mouth, and 3.8 mi (6.1 km) downstream from Lawrence Brook.

DRAINAGE AREA.--189 mi^2 (490 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
16...	1300	93	6.0	460	30	--	17	--	6.6	--	2.7
NOV.											
13...	1100	91	6.5	290	0	--	17	--	6.5	--	4.0
DEC.											
04...	1330	214	6.4	280	20	--	16	--	5.9	--	2.5
JAN.											
22...	0830	145	7.6	290	20	--	16	--	6.3	--	2.7
FEB.											
20...	1345	60	9.3	220	30	--	16	--	6.2	--	2.5
MAR.											
06...	1400	1700	2.9	1200	80	--	8.0	--	2.9	--	.7
APR.											
25...	1145	607	4.0	190	50	11	--	3.6	--	1.1	--
MAY											
23...	1200	263	3.4	380	20	11	--	5.0	--	2.4	--
JUNE											
20...	1200	200	5.3	550	50	13	--	5.0	--	--	--
JULY											
17...	1230	46	--	530	70	15	--	4.9	--	4.4	--
AUG.											
08...	1030	112	--	510	70	17	--	5.5	--	2.0	--
SEP.											
18...	0745	57	--	390	20	17	--	4.4	--	2.5	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.											
16...	--	1.2	72	0	59	15	3.0	--	.4	.15	.00
NOV.											
13...	--	1.1	67	0	55	15	3.0	--	.3	.31	.00
DEC.											
04...	--	.9	57	0	47	19	2.8	--	.2	.29	.00
JAN.											
22...	--	.9	64	0	52	15	3.2	--	.3	.39	.01
FEB.											
20...	--	1.0	62	0	51	13	2.8	--	.2	.51	.01
MAR.											
06...	--	1.8	27	0	22	9.6	1.3	--	.2	.37	.04
APR.											
25...	.5	--	41	0	34	11	1.7	.2	--	.21	.01
MAY											
23...	1.1	--	57	0	47	11	1.8	.1	--	.11	.01
JUNE											
20...	1.4	--	53	0	43	9.4	1.7	.2	--	.18	.01
JULY											
17...	1.5	--	66	0	54	12	2.8	--	--	.03	.01
AUG.											
08...	1.0	--	64	0	53	13	3.2	--	--	.07	.01
SEP.											
18...	.8	--	52	0	43	9.5	2.7	--	--	.04	.00

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)
OCT. 16...	.12	.22	.34	.49	.10	--	.07	88	135	100
NOV. 13...	.00	.25	.25	.56	.15	--	.12	87	105	71
DEC. 04...	.05	.15	.20	.50	.06	--	.06	82	103	82
JAN. 22...	.08	.14	.22	.62	.14	--	.12	84	79	62
FEB. 20...	.14	.18	.32	.84	.17	--	.16	82	103	73
MAR. 06...	.25	.42	.67	1.1	.07	--	.02	41	79	53
APR. 25...	.13	.20	.33	.55	.02	.01	--	--	66	36
MAY 23...	.04	.37	.41	.53	.07	.05	--	--	117	50
JUNE 20...	.12	.35	.47	.66	.07	.04	--	--	93	55
JULY 17...	.35	.06	.41	.45	.12	.09	--	--	95	62
AUG. 08...	.36	.18	.54	.62	.09	.08	--	--	124	58
SEP. 18...	.28	.02	.30	.34	.13	.13	--	--	82	53

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 16...	0	0	68	9	158	8.3	10.0	--	--	8.4
NOV. 13...	7	2	42	0	160	8.1	3.0	--	--	12.0
DEC. 04...	5	4	60	13	142	7.4	3.0	--	--	10.2
JAN. 22...	0	0	62	9	145	8.3	.0	--	--	10.6
FEB. 20...	4	2	65	14	147	7.7	1.0	--	--	13.0
MAR. 06...	35	25	34	12	84	7.8	1.0	--	--	13.6
APR. 25...	5	3	--	--	88	7.9	6.0	--	--	--
MAY 23...	4	2	--	--	120	7.9	14.0	--	--	9.2
JUNE 20...	7	0	--	--	110	8.2	19.0	--	--	8.8
JULY 17...	7	3	--	--	132	8.1	20.5	30	4	7.7
AUG. 08...	8	0	--	--	130	7.9	21.0	40	3	7.9
SEP. 18...	3	4	--	--	125	7.8	12.0	20	3	9.6

CONTINUED NEXT PAGE

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
16...	75	22	8920	823	--	.0	0	10	2	1.0
NOV.										
13...	90	18	260	31	--	.0	--	--	--	--
DEC.										
04...	77	18	140	58	--	.0	--	--	--	--
JAN.										
22...	73	14	160	72	--	.0	--	--	--	--
FEB.										
20...	92	9	B14	81	--	.0	--	--	--	--
MAR.										
06...	96	49	840	190	--	.0	--	--	--	--
APR.										
25...	--	21	240	B260	--	.0	--	--	--	--
MAY										
23...	90	24	6400	B130	--	.0	--	--	--	--
JUNE										
20...	96	27	3300	96	--	.0	--	--	--	--
JULY										
17...	86	21	5200	B40	--	--	--	--	--	--
AUG.										
08...	89	32	--	--	--	--	--	--	--	--
SEP.										
18...	82	20	--	--	6.9	--	1	10	3	<.5

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

04273400 SARANAC RIVER ABOVE PLATTSBURGH, N.Y.

LOCATION.--Lat 44°40'10", long 73°30'28", Clinton County, at power plant at Old Military Turnpike, 1.4 mi (2.3 km) west of Plattsburgh and 2.7 mi (4.3 km) upstream from gaging station (04273500).

DRAINAGE AREA.--608 mi^2 (1,575 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to June 1972, June to September 1974.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, JUNE 1974 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JUNE												
13...	1130	4.4	380	50	10	2.4	2.2	.7	29	0	24	7.4
AUG.												
16...	1145	--	480	110	9.1	2.1	2.0	1.0	28	--	23	8.2
SEP.												
06...	1100	--	460	40	9.0	2.6	1.9	.8	35	--	29	6.3
30...	1145	--	420	50	9.3	2.6	2.0	.5	28	--	23	6.4

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
JUNE												
13...	2.6	.2	.16	.01	.10	.32	.42	.59	.02	.01	--	--
AUG.												
16...	2.2	--	.05	.00	.34	.13	.47	.52	.03	.01	79	54
SEP.												
06...	2.3	--	.12	.00	.28	.04	.32	.44	.02	.01	60	39
30...	2.0	--	.09	.00	.24	.14	.38	.47	.02	.00	60	31

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JUNE											
13...	--	--	73	7.1	--	--	--	1	10	4	<.5
AUG.											
16...	6	0	74	--	30	3	21	--	--	--	--
SEP.											
06...	0	0	80	--	20	3	17	--	--	--	--
30...	8	4	77	--	30	2	16	<1	0	5	<.5

04279015 LA CHUTE AT STATE HIGHWAY 22 AT TICONDEROGA, N.Y.

LOCATION.--Lat 43°51'00", long 73°25'20", Essex County, at bridge on State Highway 22 in Ticonderoga, and 0.8 mi (1.3 km) downstream from gaging station (04279000 La Chute at Ticonderoga) which is 250 ft (76 m) upstream from Trout Brook.

DRAINAGE AREA.--234 mi^2 (606 km^2) at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1974. Prior to October 1972, published as Ticonderoga Creek at Ticonderoga.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
OCT.												
18...	--	2.0	190	10	--	14	--	3.6	--	5.2	--	.9
NOV.												
14...	1450	2.1	150	0	--	14	--	3.5	--	6.2	--	1.2
JAN.												
24...	1150	2.0	370	50	--	12	--	2.8	--	3.8	--	.6
FEB.												
21...	1230	2.2	170	10	--	15	--	3.2	--	4.6	--	.8
MAR.												
21...	1100	1.3	640	10	--	12	--	2.7	--	2.9	--	.7
APR.												
25...	1115	1.5	300	40	12	--	2.5	--	3.0	--	.5	--
JUNE												
13...	1515	1.1	240	20	12	--	2.6	--	3.1	--	.6	--
AUG.												
16...	1500	--	220	60	15	--	3.7	--	9.4	--	1.1	--
SEP.												
06...	1415	--	330	20	16	--	3.9	--	7.0	--	1.1	--
30...	1500	--	820	50	15	--	3.7	--	3.8	--	.8	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
18...	52	0	43	11	5.5	--	.3	.20	.00	.04	.06
NOV.											
14...	53	0	43	13	6.0	--	.3	.38	.00	.10	.06
JAN.											
24...	35	0	29	13	5.5	--	.1	.06	.00	.04	.13
FEB.											
21...	48	0	39	14	6.4	--	.2	.07	.00	.09	.29
MAR.											
21...	35	0	29	13	4.7	--	.2	.03	.00	.11	.17
APR.											
25...	34	0	28	12	9.0	.1	--	.07	.01	.05	.18
JUNE											
13...	34	0	28	11	4.6	.1	--	.00	.01	.07	.22
AUG.											
16...	62	--	51	17	7.4	--	--	.05	.01	.41	.17
SEP.											
06...	69	--	57	10	7.6	--	--	.06	.01	.36	.33
30...	49	--	40	13	4.7	--	--	.03	.00	.12	.24

04279015 LA CHUTE AT STATE HIGHWAY 22 AT TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.											
18...	.10	.31	.07	--	.02	68	83	78	0	0	50
NOV.											
14...	.16	.55	.05	--	.04	73	89	60	4	0	49
JAN.											
24...	.17	.23	.02	--	.00	57	56	50	3	1	41
FEB.											
21...	.38	.45	.02	--	.02	70	89	63	4	3	51
MAR.											
21...	.28	.31	.01	--	.00	55	74	71	4	2	41
APR.											
25...	.23	.31	.02	.00	--	--	55	38	5	3	--
JUNE											
13...	.29	.30	.01	.01	--	--	--	--	--	--	--
AUG.											
16...	.58	.64	.06	.04	--	--	113	76	4	0	--
SEP.											
06...	.69	.76	.06	.05	--	--	100	85	7	4	--
30...	.36	.39	.03	.01	--	--	102	81	30	24	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.											
18...	7	133	7.2	--	--	7	.0	--	--	--	--
NOV.											
14...	6	140	7.1	--	--	9	.0	--	--	--	--
JAN.											
24...	13	109	7.3	--	--	8	.0	--	--	--	--
FEB.											
21...	11	128	7.5	--	--	8	.0	--	--	--	--
MAR.											
21...	12	96	7.2	--	--	8	.0	--	--	--	--
APR.											
25...	--	100	7.3	--	--	6	.0	--	--	--	--
JUNE											
13...	--	102	7.3	--	--	--	--	1	10	11	6.6
AUG.											
16...	--	154	--	50	3	19	--	--	--	--	--
SEP.											
06...	--	164	--	8	5	12	--	--	--	--	--
30...	--	136	--	2	20	11	--	1	0	7	<.5

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.

LOCATION.--Lat 43°34'55", long 73°25'19", Washington County, N.Y.-Rutland County, Vt., at midchannel directly south of navigation light, 0.2 mi (0.4 km) upstream from South Bay and 2.0 mi (3.2 km) northwest of Whitehall.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT. 16...	1500	--	--	--	--	--	--	--	.24	.01
MAY 29...	1830	--	--	--	--	--	--	--	.31	.01
JUNE 12...	0945	--	--	--	--	--	--	--	.00	.02
JULY 11...	1510	--	--	--	--	--	--	--	.54	.03
AUG. 06...	1600	4.2	1200	80	85	0	70	.2	.36	.03
SEP. 05...	0940	--	--	--	--	--	--	--	.25	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 16...	.36	.61	.08	240	7.6	11.5	15	10.0	92
MAY 29...	.32	.64	.04	225	7.7	13.0	10	9.2	87
JUNE 12...	.33	.33	.03	250	7.6	22.0	10	7.6	86
JULY 11...	.62	1.2	.11	215	7.6	25.0	40	5.8	69
AUG. 06...	.49	.88	.09	189	7.5	24.0	30	7.2	85
SEP. 05...	.55	.80	.08	196	7.7	15.0	30	8.4	82

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
OCT. 16...	8.6	--	B270	120	--	4.1	--	--	--
MAY 29...	.0	.0	1500	530	74	--	--	--	--
JUNE 12...	.4	.5	B190	B80	85	3.1	--	--	--
JULY 11...	.5	2.5	--	330	--	5.0	--	--	--
AUG. 06...	4.0	4.5	--	B1300	--	5.9	.00	.0	0
SEP. 05...	14	9.7	--	B1100	--	6.1	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
OCT. 16...	0	--	--	--	3	<.5	--	--	--
MAY 29...	<1	0	0	20	5	<.5	--	--	--
JUNE 12...	0	0	10	10	8	<.5	--	--	--
JULY 11...	4	0	<10	20	12	<.5	--	--	--
AUG. 06...	1	0	0	20	11	<.5	1	0	4.2
SEP. 05...	2	0	<10	10	7	.6	--	--	--

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

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 29...	1830	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.00	.00	.00	.00	.00	.0	0	.00	.07	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	1830	.0	0	.0	.2	.0	.0	.0	.0	.0
AUG. 06...	1600	.0	0	1.8	.9	.0	.0	.2	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	.0	0	0	.0
AUG. 06...	.0	.0	.0	.0	.0	.0	.0	37	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 06...	1600	<1.0	3.2	2.6	120	2.0	2.8	2.4	40

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.

LOCATION (Revised).--Lat 43°50'60", long 73°23'16", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line opposite mouth of La Chute, 0.5 mi (0.8 km) south of Fort Ticonderoga and 2.0 mi (3.2 km) southeast of Ticonderoga.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
16...	1130	--	--	--	--	--	--	--	.00	.00
MAY										
29...	1550	--	--	--	--	--	--	--	.11	.01
JUNE										
12...	1100	--	--	--	--	--	--	--	.15	.01
JULY										
11...	1210	--	--	--	--	--	--	--	.00	.01
AUG.										
06...	1215	.5	420	10	69	0	57	.2	.03	.01
SEP.										
05...	1055	--	--	--	--	--	--	--	.07	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.									
16...	.25	.26	.03	220	7.9	11.5	10	9.8	90
MAY									
29...	.32	.44	.02	177	7.6	14.0	8	10.0	96
JUNE									
12...	.41	.57	.04	205	8.1	20.0	6	9.5	103
JULY									
11...	.41	.42	.04	176	7.8	23.0	20	6.9	79
AUG.									
06...	.34	.38	.04	171	8.0	23.5	10	7.7	91
SEP.									
05...	.45	.52	.05	198	8.1	19.5	20	7.2	78

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
OCT.									
16...	5.6	--	1400	B80	--	5.8	--	--	--
MAY									
29...	1.2	1.6	310	B28	B9	4.0	--	--	--
JUNE									
12...	3.0	6.8	B40	B11	B2	2.9	--	--	--
JULY									
11...	1.5	7.5	--	B180	--	2.8	--	--	--
AUG.									
06...	5.7	6.3	--	250	--	3.2	.00	.0	0
SEP.									
05...	16	10	--	B96	--	4.0	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
OCT.									
16...	1	--	--	--	3	<.5	--	--	--
MAY									
29...	2	0	0	30	3	<.5	--	--	--
JUNE									
12...	0	0	0	130	44	<.5	--	--	--
JULY									
11...	0	0	<10	20	22	<.5	--	--	--
AUG.									
06...	1	0	0	10	72	<.5	0	0	2.2
SEP.									
05...	1	0	<10	10	8	.6	--	--	--

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

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)
MAY 29...	1550	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	TOX-APHENE (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	ETHION IN BOTTOM DE-POSITS (UG/KG)
MAY 29...	1550	.0	0	5.1	.0	.0	.0	.7	.0	.0
AUG. 06...	1215	.0	0	8.3	2.6	.0	.0	.4	.0	.0

DATE	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL TRI-THION IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PCB IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	TRI-THION IN BOTTOM DE-POSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	.0	40	0	.0
AUG. 06...	.0	.0	.0	.0	.0	.0	.0	200	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
AUG. 06...	1215	1.1	3.5	2.7	110	.6	.8	.7	13

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.

LOCATION.--Lat 43°55'25", long 73°24'20", Essex County, N.Y.-Addison County, Vt., at midlake at New York-Vermont state line, approximately 1.5 mi (2.4 km) north of Fivemile Point and 2.3 mi (3.7 km) southeast of Crown Point.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1974.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT.										
16...	1030	--	--	--	--	--	--	--	.07	.02
MAY										
29...	1430	--	--	--	--	--	--	--	.05	.01
JUNE										
12...	1130	--	--	--	--	--	--	--	.01	.02
JULY										
11...	1105	--	--	--	--	--	--	--	.03	.01
AUG.										
06...	1130	.4	420	10	77	0	63	.2	.03	.01
SEP.										
05...	1130	--	--	--	--	--	--	--	.03	.00

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.									
16...	.26	.35	.06	250	7.5	12.0	15	9.5	88
MAY									
29...	.45	.51	.04	195	7.2	15.0	8	9.2	90
JUNE									
12...	.30	.33	.03	170	8.2	20.0	10	9.7	104
JULY									
11...	.44	.48	.05	193	7.7	22.0	10	7.4	84
AUG.									
06...	.37	.41	.04	192	8.0	22.5	20	7.6	87
SEP.									
05...	.40	.43	.05	196	8.1	19.0	30	7.9	85

DATE	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	OIL AND GREASE (MG/L)
OCT.									
16...	1.0	--	B60	B2	--	26	--	--	--
MAY									
29...	57	9.5	B10	<1	<1	3.6	--	--	--
JUNE									
12...	.5	.0	B11	B2	<1	3.5	--	--	--
JULY									
11...	2.0	4.0	--	B4	--	3.1	--	--	--
AUG.									
06...	5.5	8.0	--	B6	--	3.6	.01	.0	0
SEP.									
05...	26	12	--	B7	--	7.4	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)
OCT.									
16...	<1	--	--	--	5	<.5	--	--	--
MAY									
29...	1	0	<10	10	4	<.5	--	--	--
JUNE									
12...	0	0	10	30	8	<.5	--	--	--
JULY									
11...	4	0	<10	20	28	<.5	--	--	--
AUG.									
06...	1	0	0	10	9	<.5	0	2	1.9
SEP.									
05...	1	0	<10	10	7	<.5	--	--	--

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

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PESTICIDE ANALYSES

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)
MAY 29...	1430	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MAY 29...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	1430	.0	0	2.5	--	.0	.0	.2	.0	.0
AUG. 06...	1130	.0	0	7.6	1.6	1.1	.0	.3	.0	.0

DATE	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL TRITHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	TOXAPHENE IN BOTTOM DEPOSITS (UG/KG)	TRITHION IN BOTTOM DEPOSITS (UG/KG)
MAY 29...	.0	.0	.0	.0	.0	.0	.0	7	0	.0
AUG. 06...	.0	.0	.0	.0	.0	.0	.0	70	0	.0

RADIOCHEMICAL ANALYSIS

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
AUG. 06...	1130	1.8	3.5	2.8	110	<.4	.9	.8	14

04294412 LAKE CHAMPLAIN NEAR PORT HENRY, N.Y.

LOCATION.--Lat 44°01'48", long 73°25'20", Essex County, at boat dock approximately 300 ft (91 m) south of Lake Champlain Toll Bridge on Crown Point and 2.0 mi (3.2 km) southeast of Port Henry.

PERIOD OF RECORD.--Chemical analyses: October 1973 to October 1974 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER 1973 TO OCTOBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT., 1973												
18...	1145	--	--	--	--	--	--	--	--	--	--	--
JUNE, 1974												
13...	1420	.4	1000	80	22	5.4	5.5	1.3	72	0	59	17
AUG.												
16...	1430	--	260	40	18	4.6	6.0	1.3	62	--	51	17
SEP.												
06...	1330	--	330	20	17	4.6	7.0	1.4	67	--	55	18
30...	1400	--	650	40	24	6.2	10	1.4	81	--	66	21
OCT.												
28...	1400	--	430	20	22	6.5	8.0	1.0	80	--	66	18

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)
OCT., 1973												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE, 1974												
13...	7.2	.2	.10	.01	.11	.36	.47	.58	.04	.02	--	--
AUG.												
16...	8.5	--	.04	.00	.14	.21	.35	.39	.01	.01	124	77
SEP.												
06...	10	--	.09	.00	.16	.26	.42	.51	.02	.01	107	93
30...	12	--	.11	.00	.18	.27	.45	.56	.04	.02	154	124
OCT.												
28...	9.1	--	.15	.00	.19	.20	.39	.54	.04	.02	138	112

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT., 1973											
18...	--	--	--	--	--	--	--	4	10	0	<.5
JUNE, 1974											
13...	--	--	178	7.6	--	--	--	1	10	6	<.5
AUG.											
16...	2	0	171	--	2	5	11	--	--	--	--
SEP.											
06...	0	0	184	--	4	9	11	--	--	--	--
30...	11	8	217	--	4	20	14	<1	0	6	<.5
OCT.											
28...	9	7	216	--	20	10	12	--	--	--	--

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.
(National Stream-Quality Accounting Network Station)

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, at gaging station at outlet of Lake Champlain at old railroad bridge in Rouses Point and 1.0 mi (1.6 km) south of Fort Montgomery ruins.

DRAINAGE AREA.--8,277 mi^2 (21,437 km^2).

PERIOD OF RECORD.--Chemical analyses: April 1969 to June 1972, October 1973 to September 1974.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL CAL-CIUM (CA) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	TOTAL PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
JUNE											
13...	1015	.5	16	--	3.7	--	4.4	--	1.0	--	49
AUG.											
16...	1045	--	14	--	3.8	--	4.3	--	1.4	--	50
SEP.											
06...	1000	--	15	--	3.7	--	4.0	--	1.0	--	54
26...	1000	.9	--	16	--	4.6	--	5.0	--	1.3	51
30...	1030	--	--	--	--	--	--	--	--	--	54

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
JUNE											
13...	0	40	12	6.7	.2	--	.11	.01	.23	.39	.62
AUG.											
16...	--	41	14	6.6	--	--	.04	.00	.34	.37	.71
SEP.											
06...	--	44	13	6.1	--	--	.06	.00	.12	.12	.24
26...	0	42	11	7.7	--	.2	--	--	--	--	.16
30...	--	44	12	6.5	--	--	.05	.00	.07	.19	.26

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	FIXED NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA+MG) (MG/L)
JUNE										
13...	.74	.02	.01	--	--	--	--	--	--	--
AUG.										
16...	.75	.02	.01	--	--	101	57	1	0	--
SEP.										
06...	.30	.01	.01	--	--	107	66	1	0	--
26...	.24	.02	--	81	72	107	66	--	<0	59
30...	.31	.01	.00	--	--	91	60	4	1	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
JUNE										
13...	--	134	7.5	--	--	--	--	--	--	--
AUG.										
16...	--	142	--	--	3	2	14	--	--	--
SEP.										
06...	--	141	--	--	1	2	12	--	--	--
26...	17	134	7.7	13.5	--	2	--	B1	B3	3.8
30...	--	144	--	--	2	1	11	--	--	--

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

CONTINUED NEXT PAGE

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.--Continued
(National Stream Quality Accounting Network Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
OCT.											
18...	0815	0	--	--	--	--	--	--	--	--	--
JUNE											
13...	1015	2	--	--	--	--	--	--	--	--	--
SEP.											
26...	1000	3	2	1	2	1	1	<10	0	12	11
30...	1030	0	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
OCT.										
18...	--	0	--	--	--	--	5	--	--	--
JUNE										
13...	--	10	--	--	110	--	5	--	--	20
SEP.										
26...	1	10	10	0	350	30	16	15	1	40
30...	--	0	--	--	50	--	4	--	--	10

DATE	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
18...	--	--	<.5	--	--	--	--	--	--	--
JUNE										
13...	--	--	9.4	--	--	--	--	--	--	--
SEP.										
26...	40	0	<.5	<.5	2	0	3	0	0	20
30...	--	--	<.5	--	--	--	--	--	--	--

CROSS-SECTION MEASUREMENT

Cond. - Specific conductance (micromhos/cm at 25°C).
Temp. - Water temperatures (°C).

September 26, 1974 1001 to 1009 Hours

Distance from left bank	320 ft (98 m)		950 ft (290 m)		1600 ft (488 m)	
depth ft m	Cond.	Temp.	Cond.	Temp.	Cond.	Temp.
2 0.6	135	--	132	--	130	--
7 2	133	--	131	--	130	--
13 4	134	--	132	--	131	--

PHYTOPLANKTON ANALYSES

DATE	TOTAL COUNT Cells/ml	ORGANISMS IDENTIFIED	PERCENT COMPO-SITION
Sept. 26 1974	730	Eudorina	31
		Navicula	23
		Cyclotella	15
		Cocconeis	10
		Pediastrum	8
		Achnanthes	6
		Gomphonema	4
		Synedra	4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
STREAMS ON LONG ISLAND												
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)												
JAN., 1974												
02...	1130	5.3	11	3900	210	--	18	--	6.1	--	12	--
MAR.												
26...	1400	5.3	11	1100	150	--	19	--	5.8	--	16	--
JUNE												
28...	0915	5.3	14	730	150	--	34	--	6.3	--	16	--
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)												
JAN., 1974												
02...	1245	4.1	5.6	730	40	--	3.7	--	1.7	--	5.7	--
MAR.												
27...	1430	3.4	5.1	740	40	--	3.8	--	1.6	--	5.7	--
JUNE												
27...	1300	3.7	4.4	490	30	--	4.5	--	1.7	--	6.3	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)												
JAN., 1974												
03...	1100	49	6.8	190	60	--	5.3	--	2.2	--	9.2	--
APR.												
03...	0830	54	6.3	130	60	--	6.0	--	2.2	--	12	--
JUNE												
18...	1300	41	6.5	270	50	--	5.5	--	2.2	--	9.2	--
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)												
DEC., 1973												
28...	1130	70	4.9	470	70	--	5.0	--	1.9	--	5.1	--
MAR., 1974												
28...	1030	67	3.4	420	60	--	4.8	--	1.8	--	5.4	--
JUNE												
25...	1000	43	5.8	1700	110	--	7.0	--	2.4	--	6.7	--
SEP.												
27...	1030	23	5.0	530	70	--	7.0	--	2.2	--	6.5	--
01304580 - COLD SPRING POND TRIBUTARY AT SHINECOCK HILL NY (LAT 40 54 05 LONG 072 27 08)												
APR., 1974												
18...	1410	.12	6.0	1900	100	12	--	30	--	290	--	12
01304590 - SEBONAL CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)												
APR., 1974												
18...	1345	.35	6.9	420	80	6.2	--	1.9	--	8.4	--	1.0
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)												
APR., 1974												
18...	1315	2.1	2.3	250	210	6.5	--	1.8	--	11	--	1.3
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)												
APR., 1974												
18...	1245	1.8	2.9	500	410	5.5	--	2.0	--	12	--	1.3
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)												
APR., 1974												
18...	1215	1.2	7.9	70	10	3.0	--	1.5	--	6.5	--	.6
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)												
APR., 1974												
18...	1145	.61	1.8	500	50	4.3	--	1.6	--	8.0	--	1.0

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
STREAMS ON LONG ISLAND												
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)												
JAN., 1974												
02...	2.7	43	29	19	--	.2	3.3	.02	.31	.05	.36	3.7
MAR.												
26...	3.4	46	24	26	--	.1	3.4	.01	.33	.16	.49	3.9
JUNE												
28...	2.7	30	26	59	--	.2	--	--	--	--	--	--
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)												
JAN., 1974												
02...	1.0	12	4.8	9.6	--	.1	.71	.00	.08	.21	.29	1.0
MAR.												
27...	1.2	13	5.1	9.2	--	.1	.71	.01	.18	.11	.29	1.0
JUNE												
27...	.9	15	5.8	9.5	--	.1	.33	.01	.07	.31	.38	.72
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)												
JAN., 1974												
03...	1.4	15	8.4	15	--	.2	1.4	.01	.16	.02	.18	1.6
APR.												
03...	1.3	14	10	18	--	.1	1.4	.01	.17	.07	.24	1.6
JUNE												
18...	1.8	15	7.7	12	--	.1	.83	.01	.04	.20	.24	1.1
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)												
DEC., 1973												
28...	1.4	5	11	9.2	--	.3	.34	.00	.21	.57	.78	1.1
MAR., 1974												
28...	1.4	10	12	8.7	--	.1	.23	.00	.22	.07	.29	.52
JUNE												
25...	1.2	15	14	10	--	.2	.24	.02	.22	.43	.65	.90
SEP.												
27...	1.4	19	18	9.6	--	.1	.13	.00	.32	.13	.45	.58
01304580 - COLD SPRING POND TRIBUTARY AT SHINECOOK HILL NY (LAT 40 54 05 LONG 072 27 08)												
APR., 1974												
18...	--	17	78	500	.3	--	.10	.01	.11	.63	.74	.85
01304590 - SEBONAL CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)												
APR., 1974												
18...	--	3	13	13	.1	--	.08	.01	.09	.09	.18	.27
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)												
APR., 1974												
18...	--	6	11	17	.1	--	.17	.01	.14	.06	.20	.38
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)												
APR., 1974												
18...	--	5	11	31	.1	--	.21	.01	.17	.37	.54	.76
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)												
APR., 1974												
18...	--	8	6.5	10	.1	--	.09	.01	.09	.06	.15	.25
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)												
APR., 1974												
18...	--	6	8.5	12	.1	--	.02	.01	.13	.14	.27	.30

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01302500 - GLEN COVE CREEK AT GLEN COVE NY (LAT 40 51 48 LONG 073 38 05)											
JAN., 1974											
02...	.07	--	119	290	6.5	2.0	.0	--	--	--	--
MAR.											
26...	.05	--	128	260	6.7	10.0	.1	<1	40	3	<.5
JUNE											
28...	--	--	188	275	6.7	16.0	--	--	--	--	--
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR NY (LAT 40 51 25 LONG 073 27 50)											
JAN., 1974											
02...	.02	--	38	80	7.0	4.0	.0	--	--	--	--
MAR.											
27...	.05	--	38	90	7.3	6.0	.0	1	20	5	<.5
JUNE											
27...	.02	.00	42	67	6.9	19.5	.0	--	--	--	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN NY (LAT 40 50 58 LONG 073 13 29)											
JAN., 1974											
03...	.01	--	56	140	7.4	5.0	.0	--	--	--	--
APR.											
03...	.02	--	63	125	7.1	8.0	.0	1	20	1	<.5
JUNE											
18...	.03	.01	56	100	6.6	20.5	.0	--	--	--	--
01304500 - PECONIC RIVER AT RIVERHEAD NY (LAT 40 59 49 LONG 072 41 14)											
DEC., 1973											
28...	.08	--	41	85	7.3	7.0	.0	--	--	--	--
MAR., 1974											
28...	.06	--	43	90	6.3	6.0	.0	0	10	0	<.5
JUNE											
25...	.17	.03	56	95	6.5	20.0	.0	--	--	--	--
SEP.											
27...	.08	.02	60	100	6.5	16.0	.0	--	--	--	--
01304580 - COLD SPRING POND TRIBUTARY AT SHINECOCK HILL NY (LAT 40 54 05 LONG 072 27 08)											
APR., 1974											
18...	.05	--	--	1830	6.4	--	.1	--	--	--	--
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)											
APR., 1974											
18...	.01	--	--	96	5.8	17.0	.0	--	--	--	--
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)											
APR., 1974											
18...	.02	--	--	100	6.3	14.5	.0	--	--	--	--
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)											
APR., 1974											
18...	.04	--	--	110	6.2	16.0	.0	--	--	--	--
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)											
APR., 1974											
18...	.01	--	--	50	6.9	14.5	.0	--	--	--	--
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)											
APR., 1974											
18...	.01	--	--	75	6.5	17.0	.0	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)												
APR., 1974 19...	1350	.55	9.9	240	50	3.1	--	1.6	--	24	--	1.2
01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)												
APR., 1974 29...	1030	.48	8.7	220	90	4.6	--	1.3	--	9.2	--	.8
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)												
APR., 1974 29...	1135	.12	8.2	770	190	11	--	1.7	--	11	--	.9
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)												
APR., 1974 08...	1250	.26	4.8	710	150	5.0	--	3.7	--	14	--	2.5
01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43)												
APR., 1974 08...	1210	.24	.6	580	60	16	--	5.1	--	38	--	1.9
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)												
APR., 1974 08...	1325	.96	2.6	260	150000	15	--	2.4	--	150	--	1.4
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)												
APR., 1974 08...	1350	.39	8.4	420	130	4.0	--	3.6	--	20	--	1.9
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)												
APR., 1974 19...	1300	.70	9.4	590	190	13	--	3.9	--	20	--	3.7
01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)												
APR., 1974 29...	0925	.24	7.6	90	40	7.6	--	1.4	--	42	--	.7
01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)												
APR., 1974 19...	1215	.46	8.9	110	30	3.6	--	1.6	--	8.4	--	.7
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)												
APR., 1974 18...	1055	3.2	8.4	420	50	20	--	5.0	--	12	--	3.3
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)												
APR., 1974 18...	1025	.46	6.5	30	50	27	--	6.5	--	11	--	4.1
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)												
APR., 1974 18...	0950	.87	6.3	70	80	17	--	5.0	--	9.0	--	4.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)												
APR., 1974 19...	--	8	11	56	.1	--	.11	.01	.08	.39	.47	.59
01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)												
APR., 1974 29...	--	6	6.0	15	.1	--	.12	.01	.13	.08	.21	.34
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)												
APR., 1974 29...	--	5	12	20	.1	--	.00	.01	.06	.18	.24	.24
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)												
APR., 1974 08...	--	3	22	24	.2	--	.25	.02	.64	.34	.98	1.3
01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43)												
APR., 1974 08...	--	3	20	75	.1	--	.02	.01	.35	.17	.52	.55
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)												
APR., 1974 08...	--	23	13	26	.1	--	.00	.02	.03	.28	.31	.32
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)												
APR., 1974 08...	--	3	20	30	.2	--	.19	.01	.34	.02	.36	.56
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)												
APR., 1974 19...	--	23	19	29	.1	--	3.4	.06	.21	.36	.57	4.1
01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)												
APR., 1974 29...	--	7	7.0	69	.1	--	.00	.01	.07	.00	.03	.03
01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)												
APR., 1974 19...	--	7	4.0	13	.2	--	.41	.01	.07	.19	.26	.68
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)												
APR., 1974 18...	--	13	40	22	.1	--	3.6	.01	.11	.13	.24	3.8
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)												
APR., 1974 18...	--	11	64	23	.1	--	5.5	.01	.08	.00	.08	5.6
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)												
APR., 1974 18...	--	12	39	18	.0	--	4.9	.01	.12	.12	.24	5.1

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)											
APR., 1974 19...	.01	--	--	252	6.3	9.5	.0	--	--	--	--
01304672 - TAMBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)											
APR., 1974 29...	.01	--	--	80	6.5	--	.0	--	--	--	--
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)											
APR., 1974 29...	.01	--	--	108	4.8	--	.0	--	--	--	--
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)											
APR., 1974 08...	.07	--	--	148	5.4	--	.1	--	--	--	--
01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43)											
APR., 1974 08...	.02	--	--	299	5.5	--	.1	--	--	--	--
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)											
APR., 1974 08...	.02	--	--	124	4.9	--	.0	--	--	--	--
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)											
APR., 1974 08...	.02	--	--	160	5.7	--	.0	--	--	--	--
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)											
APR., 1974 19...	.03	--	--	200	6.4	10.0	.0	--	--	--	--
01304697 - GEORGIA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)											
APR., 1974 29...	.00	--	--	258	6.1	--	.0	--	--	--	--
01304700 - GEORGIA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)											
APR., 1974 19...	.01	--	--	75	6.1	9.0	.0	--	--	--	--
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)											
APR., 1974 18...	.02	--	--	230	6.4	14.0	.0	--	--	--	--
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)											
APR., 1974 18...	.01	--	--	300	6.1	11.0	.0	--	--	--	--
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)											
APR., 1974 18...	.10	--	--	210	6.2	12.0	.0	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)												
APR., 1974												
18...	0915	4.0	.1	110	50	24	--	5.4	--	8.8	--	2.7
01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)												
JAN., 1974												
07...	1045	13	9.5	140	40	--	5.4	--	1.9	--	7.0	--
MAR.												
28...	1345	14	8.0	130	20	--	5.0	--	1.8	--	6.3	--
JUNE												
20...	0915	13	9.4	250	90	--	6.0	--	1.9	--	7.1	--
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)												
JAN., 1974												
07...	1030	21	8.6	300	150	--	6.0	--	2.3	--	9.2	--
MAR.												
28...	1500	25	9.4	440	120	--	6.0	--	2.3	--	8.6	--
JUNE												
26...	1015	19	8.6	720	350	--	7.5	--	2.4	--	9.4	--
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34)												
JAN., 1974												
03...	1300	--	5.6	930	170	--	7.3	--	2.6	--	12	--
APR.												
03...	0930	--	2.7	900	150	--	8.5	--	3.2	--	12	--
JUNE												
18...	1030	--	7.3	1600	250	--	8.1	--	2.7	--	14	--
SEP.												
08...	0915	--	11	--	--	--	--	--	--	--	--	--
01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)												
JAN., 1974												
07...	1215	16	9.6	190	40	--	4.1	--	2.3	--	5.6	--
APR.												
03...	1030	18	9.7	100	40	--	4.2	--	2.2	--	5.4	--
JUNE												
26...	1230	14	10	150	40	--	4.6	--	2.4	--	5.5	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)												
JAN., 1974												
07...	1300	28	9.6	210	30	--	4.2	--	2.3	--	5.6	--
APR.												
03...	1000	30	9.5	550	50	--	4.3	--	2.4	--	7.1	--
JUNE												
26...	1200	24	10	300	50	--	5.0	--	3.5	--	15	--
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)												
JAN., 1974												
07...	1430	--	10	410	460	--	8.5	--	2.8	--	13	--
APR.												
03...	1200	--	10	250	450	--	8.6	--	2.6	--	13	--
JUNE												
27...	0845	--	11	380	460	--	8.7	--	2.8	--	13	--
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)												
JAN., 1974												
07...	1330	7.3	8.9	850	210	--	21	--	3.6	--	66	--
APR.												
03...	1230	6.8	9.7	410	660	--	15	--	3.4	--	36	--
JUNE												
27...	0945	4.8	9.8	250	470	--	15	--	3.8	--	35	--

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)												
APR., 1974												
18...	--	9	56	18	.0	--	1.6	.03	.16	.43	.59	2.2
01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)												
JAN., 1974												
07...	1.1	16	7.4	9.5	--	.3	1.5	.01	.08	.05	.13	1.6
MAR.												
28...	1.3	13	7.2	8.6	--	.1	1.4	.02	.09	.11	.20	1.6
JUNE												
20...	1.3	16	8.1	8.6	--	.1	1.6	.03	.14	.09	.23	1.8
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)												
JAN., 1974												
07...	1.2	18	10	12	--	.2	1.4	.02	.09	.07	.16	1.6
MAR.												
28...	1.6	15	11	12	--	.1	1.4	.00	.12	.12	.24	1.6
JUNE												
26...	1.6	22	11	12	--	.0	1.1	.02	.27	.08	.35	1.5
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34)												
JAN., 1974												
03...	2.3	17	15	17	--	.1	.50	.01	.14	.40	.54	1.0
APR.												
03...	2.2	23	16	18	--	.1	.75	.01	.53	.21	.74	1.5
JUNE												
18...	2.1	20	17	22	--	.1	.10	.02	.23	.57	.80	.92
SEP.												
08...	--	21	12	20	--	.1	.60	.01	.62	.09	.71	1.3
01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)												
JAN., 1974												
07...	.7	18	5.7	7.4	--	.3	.99	.01	.02	.10	.12	1.1
APR.												
03...	6.9	14	7.3	13	--	.2	1.0	.00	.12	.03	.15	1.1
JUNE												
26...	.8	17	6.3	6.9	--	.1	1.1	.01	.03	.14	.17	1.3
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)												
JAN., 1974												
07...	.7	17	5.8	7.6	--	.3	.98	.01	.03	.17	.20	1.2
APR.												
03...	.9	14	6.8	11	--	.0	.97	.01	.01	.13	.14	1.1
JUNE												
26...	1.3	17	8.8	24	--	.1	1.1	.02	.07	.12	.19	1.3
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)												
JAN., 1974												
07...	1.7	22	17	17	--	.2	1.8	.01	.75	.21	.96	2.8
APR.												
03...	2.2	18	19	17	--	.0	2.5	.01	.01	.69	.70	3.2
JUNE												
27...	2.0	19	19	16	--	.1	2.1	.04	.63	.30	.93	3.0
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)												
JAN., 1974												
07...	3.3	24	21	120	--	.3	3.2	.04	.79	.21	1.0	4.2
APR.												
03...	3.0	23	22	61	--	.1	3.2	.03	.91	.00	.91	4.1
JUNE												
27...	2.9	19	21	58	--	.1	3.4	.08	.41	.11	.52	4.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)											
APR., 1974											
18...	.02	--	--	225	6.6	11.5	.0	--	--	--	--
01305500 - SWAN RIVER AT PATCHOGUE NY (LAT 40 46 01 LONG 072 59 39)											
JAN., 1974											
07...	.02	--	50	100	6.7	.5	.0	--	--	--	--
MAR.											
28...	.02	--	45	90	6.6	10.0	.0	--	--	--	--
JUNE											
20...	.03	.01	57	90	6.8	14.0	.0	--	--	--	--
01306000 - PATCHOGUE RIVER AT PATCHOGUE NY (LAT 40 45 56 LONG 073 01 16)											
JAN., 1974											
07...	.02	--	58	122	7.6	4.0	.0	--	--	--	--
MAR.											
28...	.03	--	58	120	6.5	7.0	.0	1	10	3	<.5
JUNE											
26...	.03	.00	67	110	6.7	18.0	.1	--	--	--	--
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA NY (LAT 40 49 57 LONG 073 07 34)											
JAN., 1974											
03...	.01	--	70	135	7.3	3.0	.0	--	--	--	--
APR.											
03...	.05	--	74	130	6.4	8.0	.1	3	20	24	<.5
JUNE											
18...	.03	.01	84	135	6.0	21.0	.1	--	--	--	--
SEP.											
08...	.02	.01	--	150	5.7	11.0	.1	--	--	--	--
01306495 - CONNETQUOT RIVER NEAR OAKDALE NY (LAT 40 45 00 LONG 073 08 52)											
JAN., 1974											
07...	.02	--	45	88	7.6	5.0	.0	--	--	--	--
APR.											
03...	.01	--	56	80	6.6	10.5	.0	0	0	0	<.5
JUNE											
26...	.02	.01	49	80	6.8	14.5	.1	--	--	--	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER NY (LAT 40 44 51 LONG 073 09 03)											
JAN., 1974											
07...	.04	--	44	82	7.7	6.0	.0	--	--	--	--
APR.											
03...	.02	--	49	100	7.2	10.5	.0	1	20	28	<.5
JUNE											
26...	.03	.00	80	150	6.8	15.0	.0	--	--	--	--
01307000 - CHAMPLIN CREEK AT ISLIP NY (LAT 40 44 13 LONG 073 12 08)											
JAN., 1974											
07...	.04	--	81	165	7.1	10.0	.0	--	--	--	--
APR.											
03...	.02	--	81	160	6.6	13.0	.1	0	0	4	<.5
JUNE											
27...	.04	.01	90	150	6.1	13.0	--	--	--	--	--
01307500 - PENATAQUIT CREEK AT BAYSHORE NY (LAT 40 43 34 LONG 073 14 41)											
JAN., 1974											
07...	.03	--	256	500	7.2	9.5	.0	--	--	--	--
APR.											
03...	.02	--	162	330	6.7	15.0	.0	1	20	5	<.5
JUNE											
27...	.04	.00	170	315	6.4	14.0	.1	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)												
JAN., 1974												
08...	0930	11	7.8	890	1300	--	10	--	3.0	--	20	--
APR.												
03...	1300	16	8.0	4500	1600	--	14	--	3.2	--	20	--
JUNE												
27...	1030	7.0	7.8	2700	1000	--	12	--	3.0	--	18	--
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31, LONG 073 19 44)												
JAN., 1974												
08...	1300	34	7.6	570	880	--	11	--	3.2	--	21	--
APR.												
03...	1345	34	6.9	430	720	--	11	--	3.1	--	23	--
JUNE												
27...	1230	23	7.5	400	420	--	11	--	3.1	--	18	--
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)												
JAN., 1974												
08...	1030	--	7.5	71000	17000	--	22	--	5.3	--	25	--
APR.												
03...	1415	--	7.2	530	1300	--	15	--	4.5	--	29	--
JUNE												
25...	1345	--	9.0	880	2200	--	15	--	4.5	--	25	--
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)												
JAN., 1974												
16...	1410	8.4	9.1	380	1100	--	20	--	3.5	--	30	--
APR.												
02...	1000	9.5	9.2	360	1200	--	20	--	3.3	--	31	--
JUNE												
27...	1350	4.1	8.6	620	640	--	24	--	3.4	--	31	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)												
JAN., 1974												
08...	1400	3.1	8.5	540	1100	--	23	--	4.0	--	33	--
APR.												
02...	1030	4.6	9.1	320	1200	--	22	--	3.8	--	31	--
JUNE												
27...	0810	5.5	9.4	550	1000	--	25	--	3.8	--	31	--
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)												
JAN., 1974												
15...	1130	.59	8.0	660	1000	--	28	--	7.5	--	19	--
APR.												
02...	0900	2.2	8.5	520	1100	--	28	--	7.5	--	25	--
JUNE												
25...	1000	.31	7.1	450	720	--	34	--	8.6	--	30	--
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)												
JAN., 1974												
16...	1430	.00	1.9	450	70	--	6.5	--	2.6	--	44	--
MAR.												
27...	1100	.00	.9	270	30	--	5.2	--	1.2	--	7.6	--
JUNE												
25...	0829	.00	8.1	490	200	--	18	--	3.0	--	54	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL FLUO-RIDE (F) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
STREAMS ON LONG ISLAND--Continued												
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)												
JAN., 1974												
08...	3.0	30	24	26	--	.3	2.6	.02	2.0	--	1.9	4.5
APR.												
03...	3.8	34	30	24	--	.2	6.0	.24	.45	2.9	3.4	9.6
JUNE												
27...	3.3	33	26	21	--	.4	2.5	.03	2.1	.10	2.2	4.7
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)												
JAN., 1974												
08...	3.2	31	25	28	--	.1	3.0	.02	1.7	.20	1.9	4.9
APR.												
03...	3.0	25	24	30	--	.1	4.3	.01	.00	1.5	1.5	5.8
JUNE												
27...	3.0	21	26	22	--	.1	2.8	.07	1.0	.10	1.1	4.0
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)												
JAN., 1974												
08...	4.4	28	53	34	--	.2	1.3	.01	.71	13	14	15
APR.												
03...	5.0	40	38	38	--	.1	3.3	.01	.00	1.9	1.9	5.2
JUNE												
25...	4.3	38	35	33	--	.1	1.2	.06	1.6	.10	1.7	3.0
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)												
JAN., 1974												
15...	5.6	38	44	33	--	.0	6.8	.18	--	--	2.1	9.1
APR.												
02...	5.0	37	44	34	--	.0	8.6	1.4	.44	2.1	2.5	12
JUNE												
27...	5.8	18	45	35	--	.1	--	--	--	--	--	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)												
JAN., 1974												
08...	7.4	50	46	34	--	.1	8.2	.02	2.7	--	2.3	10
APR.												
02...	6.6	44	46	33	--	.0	8.2	.58	2.0	.60	2.6	11
JUNE												
27...	7.1	38	55	32	--	.1	--	--	--	--	--	--
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)												
JAN., 1974												
15...	3.7	45	51	30	--	.0	3.6	.03	.64	--	.58	4.2
APR.												
02...	4.5	54	54	40	--	.0	4.6	.01	.01	.85	.86	5.5
JUNE												
25...	4.8	65	54	48	--	.1	1.9	.11	.45	1.1	1.5	3.5
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)												
JAN., 1974												
16...	1.0	24	9.5	68	--	.0	.07	.01	.11	.33	.44	.52
MAR.												
27...	1.2	21	4.5	11	--	.0	.37	.00	.08	.31	.39	.76
JUNE												
25...	2.2	59	24	78	--	.2	.31	.05	.06	1.1	1.2	1.6

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)											
JAN., 1974											
08...	.02	--	109	238	6.4	.5	.1	--	--	--	--
APR.											
03...	.02	--	120	250	6.4	13.0	.2	1	20	75	.9
JUNE											
27...	.07	.01	118	210	6.0	16.0	.1	--	--	--	--
01308500 - CARLLS RIVER AT BABYLON NY (LAT 40 42 31 LONG 073 19 44)											
JAN., 1974											
08...	.02	--	114	251	7.9	3.0	.0	--	--	--	--
APR.											
03...	.02	--	113	230	6.8	12.0	.1	1	20	11	<.5
JUNE											
27...	.02	.00	113	200	6.4	17.5	.1	--	--	--	--
01309000 - SANTAPOGUE CREEK AT LINDENHURST NY (LAT 40 41 30 LONG 073 21 20)											
JAN., 1974											
08...	1.3	--	165	310	6.2	4.0	.0	--	--	--	--
APR.											
03...	.02	--	156	300	6.6	15.0	.1	<1	20	10	.8
JUNE											
25...	.02	.00	150	275	5.8	14.0	.2	--	--	--	--
01309950 - BELLMORE CREEK NEAR BELLMORE NY (LAT 40 40 43 LONG 073 30 58)											
JAN., 1974											
15...	.01	--	164	355	6.2	8.0	.0	--	--	--	--
APR.											
02...	.01	--	165	350	6.5	10.0	.1	1	10	5	<.5
JUNE											
27...	--	--	187	360	6.0	18.0	--	--	--	--	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE NY (LAT 40 40 47 LONG 073 30 46)											
JAN., 1974											
08...	.05	--	181	380	6.8	8.0	.0	--	--	--	--
APR.											
02...	.01	--	173	360	6.6	11.0	.1	0	10	9	<.5
JUNE											
27...	--	--	216	390	6.1	16.0	--	--	--	--	--
01311000 - PINES BROOK AT MALVERNE NY (LAT 40 39 59 LONG 073 39 35)											
JAN., 1974											
15...	.01	--	169	340	6.0	3.0	.0	--	--	--	--
APR.											
02...	.02	--	194	390	6.4	8.0	.1	2	10	24	<.5
JUNE											
25...	.06	.01	223	445	6.9	18.0	.1	--	--	--	--
01311500 - VALLEY STREAM AT VALLEY STREAM NY (LAT 40 39 49 LONG 073 42 18)											
JAN., 1974											
16...	.04	--	145	375	7.8	.0	.0	--	--	--	--
MAR.											
27...	.07	--	42	87	7.3	4.0	.1	1	0	37	<.5
JUNE											
25...	.09	.05	218	440	6.3	17.0	.2	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
HUDSON RIVER BASIN											
01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16)											
APR., 1974											
06...	1145	28400	3.8	3200	110	--	24	--	3.4	--	3.8
01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37)											
JAN., 1974											
22...	1115	E6090	4.3	450	40	--	28	--	4.9	--	12
MAR.											
11...		--E11100	3.7	880	50	--	25	--	4.2	--	5.2
MAY											
20...	1300	E7350	3.6	710	70	24	--	4.0	--	5.3	--

DATE	TOTAL POTASSIUM (K) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16)											
APR., 1974											
06...	--	1.3	69	0	57	16	6.6	--	.1	.86	.01
01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37)											
JAN., 1974											
22...	--	1.1	82	0	67	25	17	--	.1	.72	.03
MAR.											
11...	--	1.3	74	0	61	19	8.4	--	.1	.74	.07
MAY											
20...	1.2	--	74	0	61	17	8.6	.1	--	.46	.06

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)
01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16)											
APR., 1974											
06...	--	--	--	--	--	--	93	--	--	--	--
01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37)											
JAN., 1974											
22...	.44	.21	.65	.07	--	.04	133	171	94	3	2
MAR.											
11...	.19	.18	.37	.04	--	.06	103	149	124	38	29
MAY											
20...	.12	.36	.48	.07	.03	--	--	154	125	32	27

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01355475 - MOHAWK RIVER AT REXFORD NY (LAT 42 41 04 LONG 073 53 16)											
APR., 1974											
06...	74	17	165	7.7	5.0	--	--	--	--	--	--
01356400 - MOHAWK RIVER AT LATHAM WTP, NY (LAT 42 47 26 LONG 073 46 37)											
JAN., 1974											
22...	90	23	250	7.4	--	9	.0	3	20	7	<.5
MAR.											
11...	80	19	197	7.5	--	9	.0	3	10	2	<.5
MAY											
20...	--	--	216	7.8	--	13	.0	1	10	3	<.5

E Estimated value.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
SUSQUEHANNA RIVER BASIN												
01501006 - N BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 33 LONG 075 20 20)												
APR., 1974 30...	1130	3.0	3.6	150	30	30	2.6	2.3	1.0	88	0	72
01501009 - S BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 20 22)												
APR., 1974 30...	1130	2.4	2.8	80	30	28	2.8	3.0	.9	92	0	75
01501012 - MILLBROOK WEST OF NEW BERLIN NY (LAT 42 37 28 LONG 075 20 15)												
APR., 1974 30...	1200	4.9	3.2	430	30	27	2.6	2.5	.9	90	0	74
01501015 - MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 19 42)												
APR., 1974 30...	1200	5.4	3.4	280	10	28	2.7	3.1	.9	92	0	75
01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41)												
JUNE, 1974 13...	1545	11	2.0	190	10	42	10	4.6	1.0	146	0	120

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
01501006 - N BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 33 LONG 075 20 20)											
APR., 1974 30...	12	2.2	.1	.84	.01	220	8.0	11.5	--	--	--
01501009 - S BR MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 20 22)											
APR., 1974 30...	12	6.2	.1	.99	.01	252	7.9	12.0	--	--	--
01501012 - MILLBROOK WEST OF NEW BERLIN NY (LAT 42 37 28 LONG 075 20 15)											
APR., 1974 30...	12	3.8	.1	.93	.01	227	7.9	12.0	--	--	--
01501015 - MILLBROOK AT NEW BERLIN NY (LAT 42 37 32 LONG 075 19 42)											
APR., 1974 30...	13	4.4	.1	.96	.01	229	7.8	13.0	--	--	--
01508802 - FACTORY BROOK AT HOMER NY (LAT 42 38 36 LONG 076 10 41)											
JUNE, 1974 13...	15	7.5	.1	3.1	.01	345	8.1	18.0	8100	430	19

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
SUSQUEHANNA RIVER BASIN--Continued												
01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30)												
JUNE, 1974 13...	1515	E.12	3.1	970	70	34	5.4	3.8	1.0	106	0	87
01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53)												
JUNE, 1974 13...	1050	.81	2.1	160	20	28	5.2	4.3	1.0	95	0	78
01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56)												
JUNE, 1974 13...	1430	1.8	1.7	60	0	30	5.2	3.6	1.0	100	0	82
01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50)												
JUNE, 1974 13...	1500	2.7	2.1	220	0	34	5.4	4.0	1.1	101	0	83
01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 14)												
JUNE, 1974 13...	1600	3.2	1.4	100	0	36	5.4	4.1	1.1	101	0	83
01508925 - DRY CREEK AT HAMLIN ST AT CORTLAND NY (LAT 42 36 17 LONG 076 11 31)												
JUNE, 1974 13...	1600	1.4	.8	50	0	32	5.4	4.0	1.0	102	0	84

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
01508905 - DRY CREEK AT CORTLAND NY (LAT 42 36 30 LONG 076 13 30)												
JUNE, 1974 13...	14	6.9	.2	1.7	.01	1.7	275	7.6	10.0	B9900	B1200	380
01508910 - BLUE CREEK NEAR CORTLAND NY (LAT 42 37 25 LONG 076 12 53)												
JUNE, 1974 13...	12	7.7	.2	.26	.01	.27	230	7.2	12.0	2800	140	110
01508913 - BLUE CREEK AT CORTLAND NY (LAT 42 36 15 LONG 076 12 56)												
JUNE, 1974 13...	13	6.1	.1	.60	.01	.61	250	7.2	20.0	B1700	B1300	280
01508915 - DRY CREEK BELOW BLUE CREEK AT CORTLAND NY (LAT 42 36 06 LONG 076 12 50)												
JUNE, 1974 13...	14	8.8	.1	1.2	.01	1.2	270	6.9	18.0	1900	B300	250
01508918 - DRY CREEK ABOVE CORTLAND NY (LAT 42 35 58 LONG 076 12 14)												
JUNE, 1974 13...	14	7.6	.1	1.5	.01	1.5	260	7.8	18.5	5200	440	64
01508925 - DRY CREEK AT HAMLIN ST AT CORTLAND NY (LAT 42 36 17 LONG 076 11 31)												
JUNE, 1974 13...	14	7.8	.2	1.5	.01	1.5	255	7.8	20.0	4200	600	290

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

E Estimated value.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER												
04272540 - TWO BRIDGE BROOK NEAR SARANAC LAKE NY (LAT 44 22 15 LONG 074 09 33)												
OCT., 1973 11...	0920	15	7.9	1500	40	5.5	1.8	2.7	.5	17	0	14
04272550 - TWOBRIDGE BROOK AT BLOOMINGDALE NY (LAT 44 24 44 LONG 074 06 40)												
OCT., 1973 11...	0950	7.7	9.1	1100	90	5.6	2.0	4.0	.6	22	0	18
04272560 - NEGRO BROOK AT BLOOMINGDALE NY (LAT 44 25 14 LONG 074 07 08)												
OCT., 1973 11...	1215	16	12	470	20	6.0	2.0	1.5	.6	22	0	18
04272570 - RICKERSON BROOK NEAR BLOOMINGDALE NY (LAT 44 24 56 LONG 074 08 16)												
OCT., 1973 11...	1145	7.3	11	860	40	11	4.0	2.7	.6	26	0	21
04272580 - LYON BROOK AT BLOOMINGDALE NY (LAT 44 25 19 LONG 074 05 35)												
OCT., 1973 11...	1120	9.8	11	550	40	7.2	2.5	2.7	.7	30	0	25
04272600 - SUMMER BROOK AT BLOOMINGDALE, N.Y. (LAT 44 24 30 LONG 074 05 03)												
OCT., 1973 11...	0935	60	10	1100	40	6.5	2.3	2.2	.5	23	0	19

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
04272540 - TWO BRIDGE BROOK NEAR SARANAC LAKE NY (LAT 44 22 15 LONG 074 09 33)											
OCT., 1973 11...	5.5	3.5	.5	.08	.00	36	21	7	55	6.6	5.5
04272550 - TWOBRIDGE BROOK AT BLOOMINGDALE NY (LAT 44 24 44 LONG 074 06 40)											
OCT., 1973 11...	4.9	5.2	.5	.07	.00	43	22	4	64	6.8	5.5
04272560 - NEGRO BROOK AT BLOOMINGDALE NY (LAT 44 25 14 LONG 074 07 08)											
OCT., 1973 11...	5.9	.9	.4	.14	.00	40	23	5	54	6.9	7.5
04272570 - RICKERSON BROOK NEAR BLOOMINGDALE NY (LAT 44 24 56 LONG 074 08 16)											
OCT., 1973 11...	17	4.6	.5	1.1	.00	64	44	23	102	6.9	7.0
04272580 - LYON BROOK AT BLOOMINGDALE NY (LAT 44 25 19 LONG 074 05 35)											
OCT., 1973 11...	6.5	3.0	.4	.14	.00	49	28	4	70	7.0	6.5
04272600 - SUMMER BROOK AT BLOOMINGDALE, N.Y. (LAT 44 24 30 LONG 074 05 03)											
OCT., 1973 11...	8.0	2.5	.4	.21	.00	44	26	7	62	6.8	8.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued										
432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15)										
SEP.. 1974 23...	1530	50	30	11	2.6	2.6	.5	29	24	10
433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30)										
SEP.. 1974 23...	1400	70	30	13	2.8	2.5	.7	27	22	19
434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53)										
SEP.. 1974 23...	1120	180	60	13	3.0	2.5	.6	23	19	12

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL RESIDUE (MG/L)
432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15)										
SEP.. 1974 23...	5.7	.02	.00	.05	.16	.21	.23	.00	.00	65
433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30)										
SEP.. 1974 23...	4.3	.01	.00	.06	.89	.95	.96	.01	.01	59
434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53)										
SEP.. 1974 23...	13	.01	.00	.09	.15	.24	.25	.01	.01	66

DATE	RESIDUE ON IGNITION (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	FIXED NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
432506073421500 - LAKE GEORGE AT LAKE GEORGE NY (LAT 43 25 06 LONG 073 42 15)										
SEP.. 1974 23...	61	4	2	99	7	3.9	<1	0	4	<.5
433425073363000 - LAKE GEORGE AT THE NARROWS NY (LAT 43 34 25 LONG 073 36 30)										
SEP.. 1974 23...	56	1	0	95	8	3.2	<1	10	9	<.5
434915073255300 - LAKE GEORGE AT MOSSY POINT NY (LAT 43 49 15 LONG 073 25 53)										
SEP.. 1974 23...	47	4	1	104	8	4.1	1	0	4	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01336600 - MOHAWK RIVER (CANAL SECT) AT ROME NY (LAT 43 11 58 LONG 075 23 24)					
JUNE, 1974					
12...	1100	<1	240	7	<.5
01337450 - ORISKANY CREEK AT WALESVILLE NY (LAT 43 06 56 LONG 073 21 59)					
JULY, 1974					
10...	0935	0	10	5	2.7
01338600 - MOHAWK RIVER ABOVE WHITESBORO NY (LAT 43 08 23 LONG 075 18 12)					
OCT., 1973					
17...	1700	<1	110	4	<.5
JUNE, 1974					
12...	1200	1	70	1	8.7
01342755 - MOHAWK RIVER AT HERKIMER NY (LAT 43 01 01 LONG 074 59 48)					
OCT., 1973					
17...	1200	1	30	7	<.5
JUNE, 1974					
12...	1000	1	20	6	2.0
01346000 - WEST CANADA CREEK AT KAST BRIDGE NY (LAT 43 04 25 LONG 074 59 24)					
JUNE, 1974					
12...	1300	<1	0	4	<.5
01357995 - HUDSON RIVER AT TROY NY (LAT 42 45 05 LONG 073 41 10)					
JUNE, 1974					
06...	0900	<1	10	0	<.5
SEP.					
05...	1000	1	10	4	5.5
01502632 - SUSQUEHANNA RIVER AT BAINBRIDGE NY (LAT 42 17 29 LONG 075 28 36)					
OCT., 1973					
29...	0700	1	10	3	<.5
JUNE, 1974					
11...	0900	1	10	2	<.5
01505000 - CHENANGO RIVER AT SHERBURNE NY (LAT 42 40 43 LONG 075 30 39)					
MAY , 1974					
14...	1200	2	10	10	.9
SEP.					
04...	1200	1	10	5	.8
01505580 - CHENANGO RIVER AT NORWICH NY (LAT 42 28 21 LONG 075 32 44)					
MAY , 1974					
14...	1100	0	10	7	.5
SEP.					
04...	1100	1	10	7	20
01509030 - TIOUGHNIOGA RIVER AT BLODGETT MILLS NY (LAT 42 34 05 LONG 076 07 18)					
MAY , 1974					
14...	1300	<1	10	6	.5
SEP.					
04...	1300	1	0	7	<.5
01513500 - SUSQUEHANNA R AT JOHNSON CITY NY (LAT 42 05 30 LONG 076 03 25)					
OCT., 1973					
29...	0900	2	10	3	<.5
JUNE, 1974					
10...	0900	1	10	10	<.5
01513831 - SUSQUEHANNA RIVER AT OWEGO NY (LAT 42 06 01 LONG 076 15 39)					
OCT., 1973					
29...	1000	2	20	7	<.5
JUNE, 1974					
10...	1000	0	10	4	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
01514937 - SUSQUEHANNA RIVER AT SMITHBORO NY (LAT 42 01 41 LONG 076 23 07)					
OCT., 1973					
29...	1100	1	10	5	<.5
JUNE, 1974					
10...	1100	<1	10	0	<.5
01524525 - CANISTEO RIVER BELOW HORNELL NY (LAT 42 17 58 LONG 077 39 03)					
OCT., 1973					
14...	--	1	10	19	<.5
APR., 1974					
22...	1425	1	0	2	<.5
AUG.					
12...	1535	1	10	2	<.5
01529552 - COHOCTON RIVER AT CAMPBELL NY (LAT 42 13 37 LONG 077 11 56)					
OCT., 1973					
14...	1015	2	0	2	<.5
APR., 1974					
22...	1200	1	0	2	<.5
AUG.					
12...	1315	2	10	1	<.5
01529950 - CHEMUNG AT CORNING NY (LAT 42 08 52 LONG 077 03 40)					
OCT., 1973					
14...	1040	2	10	18	<.5
APR., 1974					
22...	1225	1	0	2	<.5
MAY					
20...	1035	1	10	2	<.5
JULY					
15...	0900	0	10	0	<.5
01530310 - CHEMUNG RIVER AT FITCH BRIDGE NY (LAT 42 04 57 LONG 076 52 01)					
JUNE, 1974					
10...	1300	2	10	4	<.5
01531000 - CHEMUNG RIVER AT CHEMUNG NY (LAT 42 00 08 LONG 076 38 06)					
OCT., 1973					
29...	1200	1	10	6	<.5
JUNE, 1974					
10...	1200	1	10	6	<.5
03010844 - ALLEGHENY RIVER AT ALLEGANY NY (LAT 42 05 26 LONG 078 30 09)					
JULY, 1974					
29...	1610	1	10	47	.6
SEP.					
25...	1520	0	0	6	2.7
03010870 - ALLEGHENY RIVER AT VANDALIA NY (LAT 42 05 38 LONG 078 34 27)					
JULY, 1974					
29...	1550	2	10	86	<.5
SEP.					
25...	1455	1	0	4	<.5
03010958 - TUNUNGWANT CREEK AT TUNA CREEK NY (LAT 41 58 37 LONG 078 37 30)					
OCT., 1973					
15...	1230	1	20	6	<.5
JULY, 1974					
01...	1335	6	30	22	<.5
AUG.					
28...	1235	2	0	2	6.0

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
03011020 - ALLEGHENY RIVER AT SALAMANCA NY (LAT 42 09 23 LONG 078 42 56)					
SEP., 1974					
25...	1325	1	10	6	<.5
03014500 - CHADAKOIN RIVER AT FALCONER NY (LAT 42 06 45 LONG 079 14 15)					
JULY, 1974					
01...	1020	10	10	10	<.5
AUG.					
28...	1015	6	50	33	1.9
03014590 - CASSADAGA CREEK NEAR JAMESTOWN NY (LAT 42 05 48 LONG 079 09 25)					
JULY, 1974					
01...	1050	7	40	31	<.5
AUG.					
28...	1035	8	60	21	2.4
03014600 - CONEWANGO CREEK AT FREWSBURG NY (LAT 42 04 11 LONG 079 09 30)					
OCT., 1973					
15...	1050	4	40	12	.5
JULY, 1974					
29...	1110	6	20	31	<.5
SEP.					
25...	1145	3	20	67	<.5
03014670 - CONEWANGO CREEK AT FENTONVILLE NY (LAT 42 01 23 LONG 079 09 36)					
OCT., 1973					
15...	1120	3	20	7	<.5
JULY, 1974					
29...	1150	5	20	10	.8
SEP.					
25...	1205	2	20	19	<.5
04213378 - CANADAWAY CREEK AT DUNKIRK NY (LAT 42 28 32 LONG 079 21 56)					
DEC., 1973					
10...	1150	1	10	3	<.5
JULY, 1974					
02...	1105	4	0	6	<.5
04213450 - BUTTERMILK CREEK NEAR SPRINGVILLE NY (LAT 42 28 50 LONG 078 40 32)					
NOV., 1973					
12...	1410	<1	10	8	<.5
JULY, 1974					
02...	1305	0	0	3	9.3
04213500 - CATTARAUGUS CREEK AT GOWANDA NY (LAT 42 28 05 LONG 078 56 30)					
NOV., 1973					
12...	1300	1	10	13	.5
JULY, 1974					
02...	1215	3	0	7	<.5
04214020 - CATTARAUGUS CREEK AT IRVING NY (LAT 42 34 12 LONG 079 06 45)					
DEC., 1973					
10...	1110	1	10	7	<.5
JUNE, 1974					
04...	1045	<1	0	4	<.5
04214240 - EIGHTEENMILE C AT HIGHLAND-ON-THE-LAKE NY (LAT 42 42 44 LONG 078 58 00)					
DEC., 1973					
10...	1010	<1	10	12	<.5
JUNE, 1974					
04...	0930	1	10	3	.9

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04215790 - BUFFALO RIVER AT OHIO STREET AT BUFFALO NY (LAT 42 51 42 LONG 078 52 04)					
OCT., 1973					
16...	1500	3	0	0	<.5
JUNE, 1974					
03...	1055	2	10	6	1.2
04216060 - NIAGARA RIVER AT BIRD ISLAND AT BUFFALO NY (LAT 42 54 53 LONG 078 54 12)					
MAY , 1974					
07...	1345	6	10	6	<.5
AUG.					
26...	1820	1	0	1	<.5
04216080 - BLACK ROCK CANAL AT BUFFALO NY (LAT 42 54 54 LONG 078 54 10)					
OCT., 1973					
16...	1400	1	10	2	2.3
JUNE, 1974					
03...	1330	0	10	5	<.5
04216225 - NIAGARA RIVER AT WATER INTAKE TONAWANDA NY (LAT 42 57 02 LONG 078 55 15)					
MAY , 1974					
07...	1150	<1	30	3	6.8
AUG.					
26...	1115	2	20	1	<.5
04216230 - NIAGARA RIVER AT WATER PLANT TONAWANDA NY (LAT 42 57 50 LONG 078 55 30)					
MAY , 1974					
07...	1205	2	20	5	<.5
AUG.					
26...	1155	1	10	1	<.5
04218595 - ERIE(BARGE)CANAL NEAR PENDLETON NY (LAT 43 06 57 LONG 078 44 13)					
OCT., 1973					
16...	0935	1	10	0	<.5
JUNE, 1974					
03...	0955	1	10	5	<.5
04218705 - ERIE(BARGE)CANAL AT ST HWY 383 AT ROCHESTER NY (LAT 43 07 23 LONG 077 38 45)					
JUNE, 1974					
26...	1128	2	10	7	4.4
04218760 - ERIE(BARGE)CANAL AT WEST BRIGHTON NY (LAT 43 06 38 LONG 077 36 58)					
JUNE, 1974					
26...	1340	2	10	5	2.1
04219355 - NIAGARA R(TONAWANDA CHANNEL) AT NIAGARA FALLS NY (LAT 43 04 28 LONG 079 00 19)					
MAY , 1974					
07...	1120	3	10	5	<.5
AUG.					
26...	1045	<1	10	3	<.5
04220284 - L ONTARIO AT MONROE CO WA PLANT AT ROCHESTER NY (LAT 43 16 45 LONG 077 37 01)					
DEC., 1973					
10...	--	0	30	3	<.5
JUNE, 1974					
05...	1125	2	40	1	<.5
SEP.					
19...	1300	2	190	6	4.9
04227000 - CANASERAGA CREEK AT SHAKERS CROSSING NY (LAT 42 44 15 LONG 077 50 30)					
MAY , 1974					
20...	1415	2	20	3	<.5
JULY					
15...	0900	3	10	2	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04227510 - GENESEE RIVER AT GENESEO NY (LAT 42 46 37 LONG 077 50 31)					
MAY , 1974					
20...	1435	8	20	6	<.5
JULY					
15...	0915	0	10	2	<.5
04228500 - GENESEE RIVER AT AVON NY (LAT 42 55 04 LONG 077 45 27)					
MAY , 1974					
20...	1505	9	30	9	<.5
JULY					
15...	1030	0	10	2	<.5
04230055 - HONEOYE CREEK AT WEST RUSH NY (LAT 42 58 40 LONG 077 41 52)					
JUNE, 1974					
24...	1424	2	10	1300	2.0
04230650 - GENESEE R AT BALLANTYNE BRIDGE NEAR MORTIMER NY (LAT 43 05 31 LONG 077 40 52)					
DEC., 1973					
10...	--	0	10	6	<.5
JUNE, 1974					
26...	1358	2	10	3	<.5
04231500 - GENESEE RIVER(STATE HIGHWAY 47)AT ROCHESTER NY (LAT 43 07 28 LONG 077 37 56)					
DEC., 1973					
10...	--	2	10	7	<.5
JUNE, 1974					
05...	1323	0	10	1	<.5
SEP.					
19...	1200	2	0	5	4.5
04232158 - LAKE ONTARIO NEAR OSWEGO NY (LAT 43 28 17 LONG 076 32 59)					
SEP., 1974					
18...	1225	1	0	2	<.5
0423249907-SENECA LAKE AT SALT POINT NY (LAT 42 24 25 LONG 076 53 10)					
OCT., 1973					
29...	1400	2	40	1	<.5
JUNE, 1974					
10...	1400	1	10	1	<.5
0423249988-SENECA L(GENEVA WTR PLT)NR GENEVA NY (LAT 42 48 52 LONG 076 57 24)					
OCT., 1973					
25...	1100	1	10	6	<.5
JUNE, 1974					
19...	0940	2	10	1	<.5
04232651 - SENECA RIVER AT WATERLOO NY (LAT 42 54 05 LONG 076 51 46)					
JULY, 1974					
17...	0745	1	10	3	<.5
SEP.					
12...	0925	1	0	4	<.5
04232707 - SENECA RIVER AT SENECA FALLS NY (LAT 42 54 18 LONG 076 49 34)					
JULY, 1974					
17...	0820	2	20	2	<.5
SEP.					
12...	0950	1	10	2	.8
04232723 - SENECA RIVER(VAN CLEEF LAKE) AT SENECA FALLS NY (LAT 42 54 54 LONG 076 47 14)					
JULY, 1974					
17...	0850	<1	10	3	<.5
SEP.					
12...	1035	1	10	2	<.5

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04232730 - SENECA RIVER NEAR SENECA FALLS NY (LAT 42 56 20 LONG 076 45 42)					
JULY, 1974					
17...	0920	0	10	3	2.5
SEP.					
12...	1110	1	10	2	<.5
0423406011-CAYUGA LAKE AT MYERS NY (LAT 42 32 05 LONG 076 32 56)					
MAY , 1974					
13...	1400	2	10	5	<.5
SEP.					
03...	1400	1	10	4	<.5
0423406084-CAYUGA LAKE NEAR CAROGA NY (LAT 42 50 49 LONG 076 43 43)					
OCT., 1973					
25...	1200	3	10	4	<.5
JUNE, 1974					
19...	1100	1	0	1	<.5
042340613-SENECA RIVER AT FREE BRIDGE CORNERS NY (LAT 42 57 46 LONG 076 44 17)					
JULY, 1974					
17...	0950	<1	10	2	<.5
SEP.					
12...	1220	1	10	2	1.3
0423454444-CANANDAIGUA LAKE NEAR CANANDAIGUA NY (LAT 42 50 32 LONG 077 16 42)					
OCT., 1973					
14...	--	<1	--	--	--
JUNE, 1974					
17...	1530	1	20	5	<.5
AUG.					
12...	1145	1	10	2	<.5
04235396 - OWASCO LAKE NEAR AUBURN NY (LAT 42 53 56 LONG 076 32 17)					
OCT., 1973					
25...	1400	1	10	5	<.5
JUNE, 1974					
19...	1240	1	10	0	<.5
04235730 - SENECA RIVER NEAR WEEDSPORT NY (LAT 43 04 14 LONG 076 33 25)					
JULY, 1974					
17...	1045	0	10	4	1.6
SEP.					
12...	1345	3	10	5	<.5
04240300 - NINEMILE CREEK AT LAKELAND NY (LAT 43 04 50 LONG 076 13 36)					
MAY , 1974					
29...	1500	2	20	5	.5
04240500 - ONONDAGA LAKE OUTLET AT LONG BRANCH NY (LAT 43 07 01 LONG 076 14 44)					
MAY , 1974					
29...	1500	4	10	2	<.5
04240540 - SENECA RIVER AT BELGIUM NY (LAT 43 10 15 LONG 076 16 08)					
JUNE, 1974					
26...	1035	2	0	1	<.5
SEP.					
18...	1010	<1	10	4	<.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
04242730 - FISH CREEK AT FISH CREEK LANDING NY (LAT 43 13 16 LONG 075 42 06)					
OCT., 1973					
10...	1100	0	10	1	<.5
JUNE, 1974					
12...	1600	1	10	1	<.5
04243535 - ONEIDA CREEK AT SOUTH BAY NY (LAT 43 09 51 LONG 075 44 14)					
OCT., 1973					
10...	1200	1	10	2	<.5
JUNE, 1974					
12...	1400	2	20	4	<.5
04245500 - CHITTENANGO CREEK AT BRIDGEPORT NY (LAT 43 09 18 LONG 075 58 18)					
MAY , 1974					
29...	0900	0	10	4	<.5
04246000 - ONEIDA LAKE AT BREWERTON NY (LAT 43 14 24 LONG 076 08 30)					
JUNE, 1974					
26...	1445	6	0	0	<.5
SEP.					
18...	1420	<1	0	3	<.5
04247080 - OSWEGO RIVER AT HINMANSVILLE NY (LAT 43 14 54 LONG 076 21 06)					
JUNE, 1974					
26...	1100	2	10	2	<.5
SEP.					
18...	1035	2	10	2	.6

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER	DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
			LONG ISLAND						
			NASSAU COUNTY						
404437073402301	N 17	74-06-03	13	60	10	14	8.5	17	2.0
404735073424201	N 24	74-06-06	9.3	50	10	7.8	4.4	4.3	1.1
404901073443001	N 30	74-05-17	18	90	60	120	70	230	5.0
405132073414101	N 38	74-07-10	14	170	80	15	4.2	19	2.1
404448073381201	N 97	74-05-30	11	10	20	3.5	1.9	6.0	.9
404557073382801	N 104	74-06-11	14	50	10	6.1	3.0	6.0	.9
404622073342001	N 152	74-05-30	12	140	20	2.4	.9	4.3	.6
404743073444401	N 687	74-05-31	11	40	20	10	5.3	5.2	1.3
404902073353901	N 1175	74-09-18	15	2900	70	18	7.2	8.0	1.0
404137073340701	N 1183	74-09-19	14	210	800	26	4.2	34	6.5
404713073410501	N 1328	74-06-05	7.7	40	90	2.3	1.3	5.0	.7
404631073421501	N 1618	74-06-06	7.9	140	20	2.6	1.3	3.3	.7
404532073420901	N 1802	74-06-06	16	20	10	7.4	4.9	6.9	1.2
404810073391201	N 1875	74-06-12	9.7	290	10	2.1	1.0	4.2	.7
404938073385001	N 2001	74-06-18	7.2	1300	210	16	9.5	39	1.0
404731073400701	N 2028	74-06-14	20	40	0	16	8.8	7.0	1.4
404907073410901	N 2030	74-05-28	22	70	70	23	8.7	17	5.2
404829073395301	N 2052	74-05-28	12	80	30	13	4.8	7.3	1.1
404648073421507	N 2169	74-07-15	19	0	0	11	5.0	13	1.5
404826073450401	N 2214	74-08-16	22	20	40	41	19	75	3.6
404708073383601	N 2400	74-06-12	8.8	20	20	4.1	1.4	9.1	.7

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
74-06-03	24	20	32	20	1.3	7.4	4.9	.00	.01	.00	.01	.01
74-06-06	43	35	3.5	4.5	.1	.66	.59	.00	--	.00	.00	.00
74-05-17	50	41	74	740	.1	.16	.09	.01	.01	.09	.23	.32
74-07-10	102	84	4.2	3.8	.3	.00	.02	.00	.00	.08	.01	.09
74-05-30	8	7	5.2	6.3	.3	2.3	2.3	.00	.01	.00	.00	.00
74-06-11	11	9	12	6.9	.1	1.4	1.5	.01	.01	.01	--	.00
74-05-30	11	9	.6	5.2	.1	1.0	1.1	.00	--	.00	.02	.02
74-05-31	57	47	3.7	5.6	.1	.42	.39	.00	--	.00	.02	.02
74-09-18	11	9	34	11	.2	10	8.6	.01	.00	.03	.03	.06
74-09-19	24	20	45	36	.2	14	14	.01	.00	1.1	.90	2.0
74-06-05	14	11	2.0	3.6	.0	.09	.08	.01	.01	.00	.00	.00
74-06-06	11	9	4.0	3.5	.0	.03	.06	.00	.00	.00	.00	.00
74-06-06	40	33	5.7	9.3	.1	2.9	2.1	.01	.01	.00	.00	.00
74-06-12	9	7	.0	4.2	.1	.78	1.1	.00	--	.01	.00	.00
74-06-18	19	16	11	88	.1	.07	--	.00	--	--	--	.00
74-06-14	66	54	10	9.5	.2	2.9	2.6	.01	.01	.01	.01	.02
74-05-28	48	39	61	14	.2	4.0	4.0	.00	.00	.01	.16	.17
74-05-28	39	32	8.0	9.9	.1	4.2	4.2	.00	.00	.00	.03	.03
74-07-15	45	37	7.8	8.1	.2	1.2	1.2	.01	.01	.00	.02	.02
74-08-16	104	85	47	160	.1	3.2	2.8	.00	.00	.03	.09	.12
74-06-12	6	5	2.0	6.0	.1	2.8	2.8	.01	.01	.01	.19	.20

DATE OF SAMPLE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-06-03	7.4	--	141	70	50	270	6.3	15.0	.1
74-06-06	.66	--	59	38	2	110	6.6	17.0	.0
74-05-17	.49	.01	1280	590	550	1650	6.5	12.0	--
74-07-10	.09	.11	113	55	0	190	6.9	15.0	.0
74-05-30	2.3	--	49	17	10	80	6.5	13.0	.0
74-06-11	1.4	--	61	28	19	105	6.2	15.0	.0
74-05-30	1.0	--	36	10	1	57	6.3	12.0	.0
74-05-31	.44	--	72	47	0	130	6.4	13.0	.0
74-09-18	10	.01	494	75	66	205	6.1	12.0	.1
74-09-19	16	.00	240	82	62	100	5.2	18.0	.2
74-06-05	.10	--	30	11	0	48	6.5	15.0	.0
74-06-06	.03	--	29	12	3	48	5.9	16.0	.0
74-06-06	2.9	--	81	39	6	130	6.2	15.0	.1
74-06-12	.78	--	31	9	2	50	6.5	13.0	.0
74-06-18	.07	.03	182	79	63	370	6.5	15.0	.0
74-06-14	2.9	--	117	76	22	210	6.9	13.0	.0
74-05-28	4.2	--	192	93	54	315	5.5	12.0	.1
74-05-28	4.2	--	94	52	20	140	6.1	12.0	.1
74-07-15	1.2	.01	93	48	11	140	6.8	14.0	.0
74-08-16	3.3	.03	431	180	95	875	6.3	14.0	.1
74-06-12	3.0	--	48	16	11	70	5.9	13.0	.0

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER	DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued									
NASSAU COUNTY--Continued									
404446073365001	N 2747	74-05-29	10	30	20	24	11	14	1.6
404804073411301	N 3523	74-06-05	19	0	0	13	8.2	8.7	1.6
404502073402401	N 3673	74-06-03	12	80	10	20	12	16	1.7
403751073440201	N 3861	74-07-25	.1	25000	510	210	630	9000	320
404544073415101	N 3905	74-06-06	21	70	0	13	8.6	8.8	1.8
405044073405501	N 3912	74-07-01	12	80	10	23	10	9.9	1.6
403751073440202	N 3932	74-07-25	11	3400	90	2.2	1.0	6.9	1.3
404525073373201	N 4082	74-05-30	9.1	0	20	2.2	1.2	4.8	1.1
404855073404701	N 4223	74-05-28	20	170	30	13	6.5	8.5	1.3
405010073414201	N 4859	74-05-28	20	600	370	9.8	4.6	13	1.8
404647073423501	N 5099	74-06-05	16	50	10	8.3	5.5	5.5	1.2
404451073352601	N 5654	74-05-31	8.9	70	30	7.7	3.2	12	2.2
404824073380601	N 5708	74-07-30	17	50	40	25	8.0	13	1.6
404559073414901	N 5710	74-06-05	19	130	10	14	8.7	6.8	1.5
404645073390501	N 5947	74-05-30	13	0	20	8.9	5.4	9.6	1.1
404711073445502	N 6003	74-07-22	16	80	0	18	10	7.9	2.1
404511073412801	N 6073	74-07-19	15	370	10	15	7.4	7.4	1.0
404900073375401	N 6333	74-06-18	16	190	40	22	11	19	1.7
405006073450401	N 6717	74-07-01	18	720	370	35	23	110	5.3
404802073434201	N 7007	74-07-22	23	700	0	17	9.8	10	1.6
404625073405701	N 7053	74-07-31	18	40	20	13	6.8	8.0	1.6

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
74-05-29	3	2	60	20	.1	13	10	.00	.01	.00	.04	.04
74-06-05	44	36	16	10	.2	6.0	4.4	.00	--	.00	.00	.00
74-06-03	23	19	43	18	.1	13	11	.00	.01	.00	.00	.00
74-07-25	12	10	530	16000	.3	.01	.01	.01	.01	.09	.24	.33
74-06-06	48	39	18	15	.0	2.6	1.2	.00	.01	.00	.00	.00
74-07-01	16	13	36	18	.1	10	10	.00	.01	.02	.30	.32
74-07-25	9	7	4.0	13	.1	.00	.00	.01	.01	.01	.05	.06
74-05-30	7	6	.9	5.3	.1	1.6	1.5	.00	.01	.00	.00	.00
74-05-28	37	30	17	9.5	.2	3.8	3.7	.00	.00	.00	.08	.08
74-05-28	75	62	5.1	4.8	.2	.00	--	.00	.00	.01	.13	.14
74-06-05	42	34	6.5	6.1	.1	1.9	1.7	.01	.00	.00	.00	.00
74-05-31	5	4	4.1	16	.1	8.2	8.1	.00	.01	.06	.00	.06
74-07-30	36	30	30	17	.1	7.1	6.6	.01	.01	--	--	.01
74-06-05	72	59	16	8.0	.2	2.5	1.8	.00	.01	.00	.00	.00
74-05-30	22	18	12	12	.4	5.4	4.8	.00	--	.00	.00	.00
74-07-22	51	42	27	9.9	.3	4.7	5.1	.01	.01	--	--	.00
74-07-19	40	33	19	16	.0	2.7	2.8	.01	.01	.07	.00	.03
74-06-18	29	24	45	32	.1	7.1	6.3	.01	.01	.13	.00	.08
74-07-01	121	99	33	200	.2	.00	--	.00	--	.05	.03	.08
74-07-22	33	27	46	11	.2	4.0	3.3	.01	.01	--	--	.00
74-07-31	40	33	26	8.6	.2	1.4	1.5	.01	.01	.00	.07	.07

DATE OF SAMPLE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-05-29	13	--	186	110	100	350	5.7	13.0	.0
74-06-05	6.0	--	118	66	30	200	6.9	13.0	.1
74-06-03	13	--	183	99	80	340	6.1	14.0	.2
74-07-25	.35	.05	26700	3100	3100	40400	8.2	14.0	.1
74-06-06	2.6	--	115	68	29	205	6.3	14.0	.0
74-07-01	10	.01	163	99	85	270	5.7	14.0	.0
74-07-25	.06	.04	44	10	2	250	6.1	14.0	.0
74-05-30	1.6	--	35	10	5	55	6.7	13.0	.0
74-05-28	3.9	--	111	59	29	175	6.4	12.0	.0
74-05-28	.14	--	96	43	0	155	6.4	13.0	.0
74-06-05	1.9	--	77	43	9	130	6.8	13.0	.1
74-05-31	8.3	--	93	32	28	160	5.3	13.0	.1
74-07-30	7.1	.01	159	95	66	310	6.0	15.0	.1
74-06-05	2.5	--	118	71	12	190	6.9	14.0	.0
74-05-30	5.4	--	95	44	26	150	6.0	14.0	.1
74-07-22	4.7	.01	139	86	44	225	6.2	13.0	.1
74-07-19	2.7	.02	113	68	35	380	6.0	16.0	.0
74-06-18	7.2	.01	189	100	76	350	5.9	16.0	.0
74-07-01	.08	.11	484	180	83	950	6.9	13.0	.0
74-07-22	4.0	.01	149	83	56	210	6.3	16.0	.0
74-07-31	1.5	.00	109	60	28	195	6.3	14.0	.0

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER	DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued									
NASSAU COUNTY--Continued									
404607073434201	N 7087	74-07-19	23	570	30	27	14	22	3.7
405018073395301	N 7244	74-07-24	13	270	40	4.6	2.7	4.2	1.0
404615073364601	N 7386	74-06-26	16	190	10	13	5.0	6.9	1.2
404814073451801	N 7613	74-08-01	9.8	320	80	9.4	4.0	4.9	1.6
404611073401001	N 7651	74-06-06	15	0	10	5.5	4.0	6.0	.9
405059073384101	N 7857	74-08-14	7.8	60	20	3.6	1.5	4.0	.9
404815073363901	N 7873	74-06-12	7.4	0	0	1.0	.5	3.5	.4
404651073400601	N 7892	74-06-14	11	120	20	3.7	2.2	4.8	.8
404851073432301	N 7977	74-07-16	21	230	0	26	14	25	2.1
404717073371001	N 7980	74-07-17	11	0	0	13	5.2	9.5	2.2
404739073392101	N 8010	74-06-12	12	50	0	5.5	3.2	6.2	.8
404545073425501	N 8038	74-07-12	18	0	0	17	11	8.5	1.5
404914073392401	N 8095	74-07-24	11	1200	80	4.9	3.5	4.2	.9
404610073392901	N 8163	74-07-02	25	6000	20	10	6.8	9.5	1.5
405127073410201	N 8164	74-07-11	20	0	20	17	6.9	9.0	1.7
404616073354501	N 8181	74-06-20	18	590	120	7.7	3.8	8.1	1.0
404922073450001	N 8221	74-07-15	13	210	940	110	66	400	6.4
404420073393901	N 8409	74-06-03	15	120	10	22	9.4	14	2.4
405041073415801	N 8478	74-07-17	14	0	380	15	3.4	17	1.8
404539073374101	N 8799	74-07-10	15	240	20	9.0	4.6	9.0	1.1
405112073423601	N 8890	74-07-12	16	190	60	21	8.0	10	3.0
404941073384501	N 8937	74-06-18	13	230	40	7.1	3.3	6.5	.8

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
74-07-19	41	34	42	52	.2	6.3	5.6	.01	.01	.19	--	.12
74-07-24	26	21	3.2	4.2	.1	--	.20	--	.01	--	--	--
74-06-26	25	21	20	14	.1	1.5	1.2	.00	--	.01	.02	.03
74-08-01	51	42	3.8	6.2	.1	.04	.06	.00	.00	.00	.00	.00
74-06-06	18	15	5.6	6.8	.1	2.9	2.2	.01	.01	.00	.05	.05
74-08-14	20	16	2.1	3.6	.1	.04	--	.00	.00	.02	--	.00
74-06-12	5	4	.0	3.9	.1	.98	.89	.01	.01	.01	.01	.02
74-06-14	17	14	1.7	5.9	.1	1.6	1.6	.01	.01	.00	.00	.00
74-07-16	97	80	54	20	.0	7.0	5.6	.02	.02	.11	.10	.21
74-07-17	14	11	20	21	.1	3.3	3.3	.01	.01	.00	.03	.03
74-06-12	12	10	3.6	7.3	.1	4.2	3.9	.01	.01	.01	.00	.01
74-07-12	54	44	28	12	.1	4.3	2.9	.00	.01	.00	.05	.05
74-07-24	29	24	2.4	3.8	.1	--	.06	.00	--	--	--	--
74-07-02	35	29	16	13	.1	2.7	2.6	.01	.00	.00	.08	.08
74-07-11	37	30	25	12	.3	3.3	3.2	.00	.01	.00	.03	.03
74-06-20	34	28	10	6.2	.1	1.7	1.4	.01	.01	.03	.06	.09
74-07-15	111	91	100	870	.2	.02	.01	.00	--	--	--	--
74-06-03	24	20	29	16	.2	15	13	.01	.01	.00	.01	.01
74-07-17	94	77	2.9	4.0	.2	.00	.00	.01	.01	--	--	--
74-07-10	19	16	21	8.9	.2	4.4	4.4	.00	.01	.00	.05	.05
74-07-12	55	45	40	11	.1	1.7	1.8	.01	.01	.00	.07	.07
74-06-18	16	13	6.6	7.3	.2	3.9	2.9	.00	--	.08	--	.07

DATE OF SAMPLE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-07-19	6.4	.02	229	130	91	210	5.9	14.0	.1
74-07-24	--	--	47	23	1	90	6.1	17.0	--
74-06-26	1.5	.01	94	53	33	160	6.9	11.0	.0
74-08-01	.04	.01	65	40	0	140	6.3	14.5	.0
74-06-06	3.0	--	63	30	15	110	6.2	15.0	.0
74-08-14	--	.41	34	15	0	50	6.5	15.0	.0
74-06-12	1.0	--	23	5	0	50	4.7	13.0	.0
74-06-14	1.6	--	46	18	4	70	6.7	15.0	.0
74-07-16	7.2	.01	235	120	43	390	6.3	17.0	.3
74-07-17	3.3	.01	104	54	42	190	5.5	14.0	.0
74-06-12	4.2	--	62	27	17	100	6.3	13.0	.0
74-07-12	4.4	.01	136	88	43	230	6.6	14.0	.0
74-07-24	--	--	45	27	3	80	6.0	17.0	--
74-07-02	2.8	.01	111	53	24	170	6.2	16.0	.0
74-07-11	3.3	.02	124	71	41	195	6.1	14.0	.0
74-06-20	1.8	.01	78	35	7	120	6.3	14.0	.0
74-07-15	--	.24	1620	550	460	3400	7.2	15.0	.1
74-06-03	15	--	177	94	74	340	6.1	13.0	.2
74-07-17	--	.10	105	51	0	190	6.5	17.0	.0
74-07-10	4.5	.01	98	41	26	190	6.5	14.0	.0
74-07-12	1.8	.48	144	85	40	230	6.2	15.0	.0
74-06-18	4.0	.01	66	31	18	100	6.8	14.0	.1

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY										
404319073184601	S 1807	A	73-11-30	4.5	6400	370	35	8.6	8.0	10
410412071513001	S 3599		74-04-08	14	20	10	7.5	8.0	44	3.8
405938072195801	S 8288		74-04-10	11	3200	20	4.7	2.5	11	.8
405507072244401	S 8831		74-04-09	4.9	130	250	3.0	1.4	4.5	.8
405756072173501	S 8833		74-04-09	.5	2500	40	.5	.5	5.6	.6
405309072233101	S 8836		74-04-09	5.9	11000	30	15	3.4	11	2.2
405756072104901	S 8837		74-04-10	7.0	280	4300	19	3.1	40	9.0
405628072164701	S 8838		74-04-09	8.4	430	40	19	3.2	8.5	8.4
405948072172101	S 8844		74-04-09	17	160	10	3.7	1.3	7.0	.8
404412073185701	S 9645	A	73-10-16	7.5	310	1500	17	3.4	23	5.6
404448073183001	S 10222	A	73-10-16	7.6	1200	450	7.7	2.3	12	3.5
404721073102001	S 10230		73-11-20	8.5	870	10	5.0	3.5	14	1.2
404322073165501	S 10373	A	73-11-06	5.6	4600	1300	10	2.8	23	4.4
404315073164801	S 10377		73-11-06	7.8	2200	780	12	2.3	25	6.0
410034072094701	S 15048		74-04-10	8.3	2600	40	1.2	1.5	9.0	.8
405438072181601	S 15332		74-04-10	7.6	1900	900	48	8.0	11	6.0
410416071514601	S 15812		74-04-08	13	320	20	4.8	4.1	27	1.8
410033072075501	S 16121		74-04-10	10	420	30	3.5	3.0	13	3.0
410015072040401	S 17174		74-04-10	2.3	18000	280	270	800	7000	260
404512073103601	S 17464	A	73-11-20	9.2	18000	130	15	3.2	12	3.8

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
73-11-30	156	128	18	7.9	.3	.00	.00	1.4	.20	1.6	1.6	.02
74-04-08	23	19	16	82	.2	.94	.01	.00	.07	.07	1.0	.02
74-04-10	12	10	4.5	14	.1	3.7	.01	--	--	--	--	.02
74-04-09	2	2	10	7.7	.1	.01	.01	.00	.02	.02	.04	.01
74-04-09	2	2	6.0	8.3	.1	--	.01	.28	.03	.31	.31	.01
74-04-09	26	21	23	16	.1	3.1	.01	.20	.03	.23	3.3	.01
74-04-10	49	40	27	64	.2	2.3	.01	2.8	.30	3.1	5.4	.01
74-04-09	6	5	35	14	.2	8.0	.01	.05	--	.00	8.0	.01
74-04-09	16	13	3.2	8.9	.0	.03	.01	.00	.00	.00	.04	.01
73-10-16	32	26	36	26	.2	8.8	.01	3.6	--	3.0	12	.00
73-10-16	8	7	18	17	.3	2.9	.00	.14	--	.07	3.0	.00
73-11-20	8	7	3.5	27	.2	2.6	.00	.11	--	.07	2.7	.00
73-11-06	11	9	30	25	.2	7.9	.02	3.1	--	.08	8.0	.01
73-11-06	23	19	41	29	.2	5.1	.02	4.6	--	3.8	8.9	.01
74-04-10	8	7	7.6	12	.0	.44	.01	.00	.00	.00	.45	.01
74-04-10	11	9	100	25	.0	7.5	.02	.32	.10	.42	7.9	.01
74-04-08	20	16	9.5	42	.0	.10	.01	.00	.01	.01	.12	.01
74-04-10	14	11	14	20	.1	.68	.01	.01	.03	.04	.73	.00
74-04-10	169	139	1800	13000	.6	.00	.01	.25	.26	.51	.52	.11
73-11-20	7	6	30	17	.3	4.6	.00	.18	--	.09	4.7	.00

DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
73-11-30	169	120	0	299	6.9	15.0	.1
74-04-08	187	52	33	360	6.5	11.0	.0
74-04-10	55	22	12	110	5.9	10.0	.0
74-04-09	33	13	12	66	4.9	10.0	.0
74-04-09	23	3	2	59	5.4	7.0	.0
74-04-09	89	51	30	182	5.3	12.0	.1
74-04-10	193	60	20	387	6.1	10.0	.2
74-04-09	100	61	56	220	5.5	11.0	.1
74-04-09	50	15	1	70	5.6	10.0	.0
73-10-16	135	56	30	295	6.2	--	.1
73-10-16	72	29	22	145	5.8	13.0	.1
73-11-20	67	27	20	137	6.3	11.0	.0
73-11-06	107	37	27	251	5.6	13.0	.0
73-11-06	135	39	21	281	5.9	13.0	.1
74-04-10	44	9	3	75	5.9	11.0	.0
74-04-10	211	150	140	400	5.2	10.0	.1
74-04-08	112	29	12	210	6.4	11.0	.0
74-04-10	73	21	10	130	6.0	10.5	.0
74-04-10	24000	4000	3800	34200	6.6	12.0	.1
73-11-20	94	51	45	188	5.3	12.0	.0

A - Additional analyses in Minor Element analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
404457073194001	S 17807		73-10-16	4.4	800	130	15	3.0	31	7.3
404401073194801	S 21900		73-12-04	4.2	740	3300	20	3.3	21	6.5
405315072263201	S 22499		74-04-10	16	320	40	3.7	2.8	8.9	.7
405716072505701	S 26780		73-10-17	8.6	--	190	5.7	4.7	10	.8
404603073214803	S 27739		74-09-13	5.4	230	50	.7	.4	2.4	.7
404603073214804	S 27740		74-09-13	5.7	380	50	.3	.2	3.0	.6
404703073264201	S 29776		74-09-25	6.1	550	0	--	.5	3.7	.6
404703073264203	S 29777		74-09-24	5.8	1000	60	1.0	.4	5.0	1.0
404703073264205	S 29778		74-09-20	7.0	100	80	6.5	7.4	8.5	1.2
405221072255401	S 36401		74-04-11	7.6	3900	40	1.5	2.0	9.0	.6
404455073215001	S 43814		74-09-16	7.9	300	420	11	3.1	21	5.2
404237073220601	S 43815	A	73-11-21	8.4	290	1200	18	4.2	23	5.5
404237073220602	S 43816	A	73-11-21	9.4	3800	510	13	8.5	24	3.2
404618073205001	S 43817	A	73-12-04	8.8	1800	260	5.5	4.2	9.5	1.2
404257073202401	S 43818	A	73-12-04	6.8	2200	1500	14	3.3	22	6.0
404250073202302	S 43819	A	73-12-03	9.7	3000	70	9.2	7.1	22	1.5
404302073185502	S 43822	A	73-12-10	14	--	--	16	3.5	11	3.5
404920073150901	S 45594		73-12-10	9.2	--	--	9.5	4.3	5.0	1.0
405906072153501	S 46524		74-04-10	4.5	10	70	.9	.5	4.7	.1
410156072133601	S 47236		74-04-18	12	870	20	--	--	--	--

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
73-10-16	21	17	55	31	.2	7.0	--	.00	--	3.0	--	2.4
73-12-04	52	43	36	25	.2	7.6	--	.01	--	6.5	--	5.8
74-04-10	16	13	7.2	13	.1	.25	--	.01	--	.00	.03	.03
73-10-17	12	10	14	17	.2	2.2	--	.00	--	.08	--	--
74-09-13	11	9	1.5	2.9	.1	1.0	.03	.00	.00	.07	.00	.00
74-09-13	8	7	.9	3.7	.1	.09	.08	.00	.00	.00	.00	.00
74-09-25	12	11	2.7	22	.0	.01	--	.00	.00	.00	.01	.01
74-09-24	10	9	.7	4.2	.1	3.0	.88	.00	.00	.05	.01	.06
74-09-20	16	14	.0	19	.1	5.2	6.7	.00	.01	.05	.04	.09
74-04-11	6	5	5.9	14	.1	.09	--	.01	--	.02	2.0	2.0
74-09-16	6	6	30	29	.2	2.9	--	.00	.00	.49	1.5	2.0
73-11-21	26	21	36	27	.3	8.7	--	.00	--	2.5	.00	2.5
73-11-21	12	10	34	29	.2	11	--	.00	--	.45	.02	.47
73-12-04	11	9	1.6	11	.1	7.8	--	.00	--	.05	.01	.06
73-12-04	25	21	35	25	.2	7.7	--	.00	--	3.2	.10	3.3
73-12-03	14	11	16	26	.3	11	--	.01	--	.04	.01	.05
73-12-10	40	33	19	15	.2	1.9	--	.00	--	.02	.21	.23
73-12-10	8	7	23	10	.2	2.2	--	.01	--	.05	--	.01
74-04-10	2	2	4.2	7.9	.1	.02	--	.01	--	.01	.03	.04
74-04-18	7	6	8.0	16	--	--	--	.01	--	--	--	.00

DATE OF SAMPLE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
73-10-16	9.4	.00	158	50	33	330	5.8	14.0	.1
73-12-04	13	.00	142	64	21	321	6.1	--	.3
74-04-10	.29	.02	60	21	8	92	6.1	10.5	.0
73-10-17	--	.00	67	34	24	127	6.6	12.0	.0
74-09-13	1.0	.00	20	3	0	30	6.1	10.5	.0
74-09-13	.09	.01	19	2	0	29	5.4	10.0	.0
74-09-25	.02	.06	345	7	0	46	6.2	11.0	.0
74-09-24	3.1	.03	358	4	0	37	5.6	11.0	.0
74-09-20	5.3	.00	88	47	33	155	5.2	13.0	.1
74-04-11	2.1	.01	44	12	7	85	6.1	11.0	.0
74-09-16	4.9	.00	128	40	34	240	5.2	14.0	.1
73-11-21	11	.00	135	62	41	295	5.9	14.0	.0
73-11-21	11	.00	128	67	58	283	5.8	11.0	.1
73-12-04	7.9	.00	47	31	22	119	6.2	--	.0
73-12-04	11	.00	125	49	28	274	5.8	13.0	.0
73-12-03	11	.00	99	52	41	236	6.0	12.0	.2
73-12-10	2.1	.01	102	54	22	181	6.0	12.0	.3
73-12-10	2.2	.00	66	41	35	85	6.4	10.0	.0
74-04-10	.07	.01	24	4	3	50	5.3	9.0	.0
74-04-18	.01	.00	--	--	--	100	6.0	13.0	.0

A - Additional analyses in Minor Element analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
404904072570002	S 48424T		73-12-06	14	--	--	6.1	1.8	4.2	.8
405606072202701	S 48425		74-04-18	8.0	120	40	--	--	--	--
405740072190001	S 48426	A	74-05-20	15	690	30	--	--	--	--
405618072180501	S 48427	A	74-05-20	9.7	340	20	--	--	--	--
405704072165901	S 48428		74-04-09	7.6	250	20	1.0	1.7	6.4	.7
405807072121001	S 48429		74-04-10	6.8	710	40	47	5.5	7.7	.8
405501072215501	S 48430		74-04-18	7.3	30	20	--	--	--	--
405606072235701	S 48432	A	74-05-15	8.5	210	20	--	--	--	--
405644072220101	S 48433	A	74-05-15	8.5	420	20	--	--	--	--
405227072352301	S 48434	AB	73-10-14	7.1	90	10	4.3	2.5	10	.7
405051072353101	S 48435	AB	73-10-02	7.2	0	130	10	2.4	28	5.1
405229072415601	S 48436	AB	73-10-15	6.1	60	30	1.5	1.7	4.0	.3
405831072171201	S 48437		74-04-09	11	540	30	2.0	1.4	5.7	.5
405844072191601	S 48438		74-04-10	11	230	230	3.5	1.8	8.5	1.0
405325072262702	S 48439		74-04-09	7.5	880	30	7.1	3.0	12	1.2
405325072262701	S 48440		74-04-09	14	210	30	3.1	1.9	6.8	.7
405349072234801	S 48441	AB	73-10-01	9.1	0	20	31	6.0	13	1.3
404941072414801	S 48442	AB	73-10-10	5.4	60	80	2.2	1.3	14	1.0
405838072154001	S 48517	A	74-05-15	7.2	340	0	--	--	--	--
405650072145201	S 48518	A	74-05-15	12	750	30	--	--	--	--

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
73-12-06	24	20	4.5	4.7	.2	.01	.00	.01	--	.00	.01	.02
74-04-18	6	5	120	31	--	11	.01	.08	.00	.08	11	.00
74-05-20	20	16	79	19	--	2.5	.01	.01	.05	.06	2.6	.01
74-05-20	7	6	46	29	--	4.3	.01	.01	.10	.11	4.4	.01
74-04-09	3	2	5.8	11	.1	.04	.01	.00	.01	.01	.06	.01
74-04-10	18	15	100	14	.2	5.0	.01	.07	--	.04	5.0	.01
74-04-18	18	15	6.9	12	--	.06	.01	--	--	.00	.07	.00
74-05-15	7	6	6.2	11	--	.03	.01	.01	.05	.06	.10	.01
74-05-15	8	7	6.8	8.5	--	.01	.01	.01	--	.00	.02	.01
73-10-14	13	11	5.5	18	.5	.36	.00	.01	.04	.05	.41	--
73-10-02	3	2	20	50	.4	3.5	.00	.00	.04	.04	3.5	--
73-10-15	4	3	4.9	7.0	.5	.01	.00	.01	.00	.01	.02	--
74-04-09	8	7	5.5	8.1	.1	.00	.01	.03	.00	.03	.04	.01
74-04-10	8	7	10	11	.1	1.2	.01	.03	.07	.10	1.3	.00
74-04-09	12	10	8.7	27	.1	.73	.01	.04	.01	.05	.79	.01
74-04-09	12	10	6.4	9.6	.2	.31	.01	.00	.02	.02	.34	.02
73-10-01	7	6	74	25	.3	6.1	.00	.00	.05	.05	6.1	--
73-10-10	4	3	5.5	23	.2	.12	.00	.00	.01	.01	.13	--
74-05-15	3	2	8.4	12	--	.16	.01	.01	.03	.04	.21	.01
74-05-15	11	9	5.4	7.7	--	.01	.01	.00	.05	.05	.07	.01

DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
73-12-06	48	23	3	67	6.7	13.0	.0
74-04-18	--	--	--	370	5.6	11.0	.0
74-05-20	--	--	--	320	6.4	11.0	.0
74-05-20	--	--	--	280	5.5	12.0	.1
74-04-09	36	9	7	65	5.1	9.0	.0
74-04-10	191	140	125	350	6.1	10.0	.1
74-04-18	--	--	--	68	5.5	12.0	.0
74-05-15	--	--	--	78	6.1	12.0	.0
74-05-15	--	--	--	64	5.9	12.0	.0
73-10-14	55	21	10	100	6.7	10.0	.0
73-10-02	125	35	32	260	5.2	12.0	.0
73-10-15	28	11	7	43	6.2	10.0	.0
74-04-09	38	11	4	60	6.0	10.0	.0
74-04-10	51	16	10	93	5.6	9.0	.0
74-04-09	73	30	20	140	5.9	11.0	.0
74-04-09	49	16	6	75	5.8	11.0	.0
73-10-01	163	100	96	316	6.0	12.0	.0
73-10-10	55	11	8	100	5.8	11.0	.0
74-05-15	--	--	--	72	5.7	12.0	.0
74-05-15	--	--	--	63	5.9	12.0	.0

A - Additional analyses in Minor Element analyses of ground waters in New York.

B - Additional analyses in Radiochemical analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENT-I-FIER		DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
410243071560101	S 48519		74-04-10	.3	160	80	8.0	5.4	20	4.0
405818072132101	S 48520		74-04-10	10	3300	660	4.5	2.3	12	6.7
40594007216470l	S 48521	A	74-05-15	12	360	20	--	--	--	--
40585807206240l	S 48522		74-04-10	9.3	1600	--	5.0	4.0	18	1.3
410149071583201	S 48577		74-04-10	14	880	80	4.5	2.9	13	1.6
405928072110401	S 48578		74-04-18	12	560	50	--	--	--	--
410316071535501	S 48579	AB	73-10-11	14	150	110	7.5	5.5	23	2.7
410024072103201	S 48580	AB	74-04-18	11	230	50	--	--	--	--
405308072322201	S 48581		73-10-01	8.1	0	10	2.0	1.3	4.3	.5
405225072371001	S 48582	ABC	73-10-02	7.8	80	40	2.0	1.8	4.2	.6
405139072385001	S 48583		73-10-03	7.1	150	50	1.5	.9	4.0	.2
405139072385002	S 48584		73-10-03	6.4	100	80	1.2	1.3	4.3	.7
404502073232401	S 49385		73-10-18	5.5	1200	140	1.0	.4	3.3	.4
405353073182201	S 49439T		73-10-04	13	1700	210	7.2	3.4	8.0	1.0
405006072490001	S 49477T		73-10-10	22	1700	210	21	1.6	5.8	1.3
405846072093001	S 49898		73-10-10	7.1	90	50	1.7	1.9	8.0	1.1
			74-04-10	4.4	350	100	2.2	1.1	12	1.2
405723072375403	S 50399T		73-11-28	15	2100	350	6.6	3.3	8.2	.9
			73-12-03	14	--	10	12	6.2	12	1.2
			73-12-06	11	--	--	16	12	15	2.5

DATE OF SAMPLE	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
74-04-10	39	32	11	27	--	2.3	.01	.05	.02	.07	2.4	.02
74-04-10	9	7	12	19	.1	.70	.01	.15	--	.04	.75	.01
74-05-15	10	8	5.9	8.1	--	.62	.01	.03	.00	.02	.65	.01
74-04-10	11	9	9.5	35	.2	.17	.01	.00	.01	.01	.19	.01
74-04-10	20	16	4.8	20	.2	.65	.01	.04	.02	.06	.72	.03
74-04-18	8	7	11	27	--	11	.05	1.7	.00	1.6	13	.00
73-10-11	24	20	10	44	.2	1.2	.00	.04	--	.03	1.2	--
74-04-18	5	4	12	15	--	.74	.01	.05	--	.00	.75	.00
73-10-01	5	4	5.0	10	.4	.09	.00	.00	.02	.02	.11	--
73-10-02	6	5	5.2	11	.3	.05	.00	.00	.01	.01	.06	--
73-10-03	5	4	3.6	6.4	.2	.01	.00	.00	.11	.11	.12	--
73-10-03	3	2	4.4	8.5	.0	.06	.00	.04	--	.01	.07	--
73-10-18	2	2	.8	4.9	.3	.92	.00	.00	.04	.04	.96	.00
73-10-04	12	10	6.2	12	.3	4.6	.00	.00	1.0	1.0	5.6	.01
73-10-10	66	54	6.5	7.0	.5	.00	.00	.24	.00	.24	.24	.06
73-10-10	8	7	5.3	13	.1	.11	.00	--	--	.05	.16	--
74-04-10	6	5	4.0	21	.1	.22	.01	.02	.05	.07	.30	.00
73-11-28	18	15	6.0	12	.3	3.0	.00	.00	.03	.03	3.0	.01
73-12-03	17	14	28	17	.4	4.2	.00	.10	.05	.15	4.3	.01
73-12-06	12	10	59	16	.2	8.9	.00	.14	.05	.19	9.1	.02

DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
74-04-10	115	42	10	220	6.0	11.0	.0
74-04-10	71	21	13	137	5.7	10.0	.0
74-05-15	--	--	--	67	6.2	11.0	.0
74-04-10	88	29	20	175	6.0	10.0	.0
74-04-10	71	23	7	128	6.9	10.0	.0
74-04-18	--	--	--	260	5.9	13.0	.1
73-10-11	119	41	22	221	6.3	12.0	.0
74-04-18	--	--	--	100	5.7	12.0	.0
73-10-01	34	10	6	58	6.2	11.0	.0
73-10-02	36	12	7	62	6.2	10.0	.0
73-10-03	26	7	3	38	6.4	10.0	.0
73-10-03	28	8	6	47	6.3	10.5	.0
73-10-18	18	4	3	29	5.5	10.6	.0
73-10-04	57	32	22	111	6.8	11.5	.0
73-10-10	98	59	5	143	7.8	11.5	.0
73-10-10	42	12	6	74	6.0	11.5	.0
74-04-10	49	10	5	96	5.5	10.0	.0
73-11-28	61	30	15	106	6.5	10.5	.0
73-12-03	99	55	42	183	6.3	11.5	.0
73-12-06	138	89	80	274	5.9	11.5	.0

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
410349072222201	S 51169		74-03-07	13	60	40	12	7.0	8.0	.9
410311072215501	S 51170		74-02-28	11	70	20	3.0	2.0	11	.7
410410072214701	S 51171	A	74-03-08	14	160	30	12	5.2	12	4.4
410350072210601	S 51172		74-03-04	11	90	120	16	3.7	15	7.8
410510072212301	S 51173	AC	74-04-23	11	170	150	8.5	4.8	15	4.4
410437072205601	S 51174	A	74-03-08	12	120	40	10	4.5	15	1.2
410416072205101	S 51175	A	74-03-06	14	90	0	9.0	4.2	13	1.3
410430072202301	S 51176	A	74-03-05	11	150	20	5.5	3.7	9.5	1.9
410316072192901	S 51177	A	74-02-28	11	120	60	5.6	2.0	9.0	1.0
410344072193201	S 51178	A	74-06-12	20	310	40	--	--	--	--
410424072192801	S 51179	AC	74-04-23	14	290	70	16	11	11	1.4
410452072200201	S 51180	A	74-03-04	15	160	10	7.0	4.3	11	1.2
410534072194601	S 51181	A	74-03-01	10	100	10	23	13	11	.4
410602072195801	S 51182	A	74-02-28	11	70	30	1.7	2.3	7.0	.7
410334072172701	S 51183	AB	74-03-12	12	50	30	5.5	3.0	8.5	.8
410147072184101	S 51184	B	74-03-01	9.1	300	260	11	17	170	4.2
410132072184601	S 51185	A	74-03-01	9.1	40	30	2.4	2.7	9.0	.7
		B	74-05-20	9.8	120	180	--	--	--	--
410047072184701	S 51186		74-03-04	9.4	70	20	8.0	4.5	16	1.0
410253071570801	S 51274		74-04-10	15	130	20	3.3	2.3	13	1.2

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
74-03-07	18	15	33	10	.3	1.9	.10	.01	.11	.12	2.0	--
74-02-28	8	7	5.0	22	.1	.28	.02	--	--	1.5	1.8	--
74-03-08	14	11	21	22	.2	5.7	.01	.01	.12	.13	5.9	--
74-03-04	13	11	30	25	.2	5.8	.02	.00	.00	.00	5.8	--
74-04-23	23	19	18	22	.2	1.7	.01	--	--	--	--	--
74-03-08	19	16	21	23	.2	2.4	.01	.01	.05	.06	2.5	--
74-03-06	18	15	17	19	.1	3.1	.01	.00	.07	.07	3.2	--
74-03-05	18	15	15	13	.2	1.2	.01	.00	.00	.00	1.2	--
74-02-28	21	17	8.0	13	.0	.53	.00	.02	.00	.02	.55	--
74-06-12	23	19	24	14	--	--	--	--	--	--	--	--
74-04-23	16	13	65	11	.1	.29	.01	.08	--	.00	.30	--
74-03-04	32	26	7.7	16	.1	1.4	.01	.00	.09	.09	1.5	--
74-03-01	12	10	58	22	.2	11	1.0	--	--	.04	11	--
74-02-28	10	8	8.5	10	.1	.29	.02	--	--	.02	.33	--
74-03-12	18	15	5.9	13	2.0	1.2	.00	.00	.03	.03	1.2	--
74-03-01	11	9	49	300	.0	2.0	.00	.01	.05	.06	2.1	--
74-03-01	9	7	10	15	.1	.18	.00	.03	.00	.03	.21	--
74-05-20	11	9	59	260	--	.81	.04	.01	.07	.08	.93	.01
74-03-04	9	7	17	28	.1	3.7	.01	.00	.45	.45	4.1	--
74-04-10	13	11	7.5	21	.1	1.6	.01	.01	.05	.06	1.7	.01

DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-03-07	93	59	44	161	6.0	11.0	--	.0
74-02-28	59	16	9	108	5.9	12.5	--	.0
74-03-08	98	51	40	197	5.9	11.5	--	.0
74-03-04	115	55	45	233	5.7	11.5	2.5	.0
74-04-23	95	41	22	171	6.7	13.5	--	.0
74-03-08	96	44	28	185	6.0	12.5	--	.0
74-03-06	86	40	25	171	6.0	11.0	.0	.0
74-03-05	69	29	14	125	5.9	11.0	1.0	.0
74-02-28	60	22	5	111	5.7	11.5	--	.0
74-06-12	--	--	--	200	6.4	12.0	.2	.0
74-04-23	137	85	72	217	6.7	12.5	--	.0
74-03-04	78	35	9	146	6.0	11.0	.5	.0
74-03-01	144	111	101	325	6.0	11.0	--	.0
74-02-28	46	14	6	80	6.0	10.5	--	.0
74-03-12	60	26	11	101	6.1	10.5	--	.0
74-03-01	566	97	88	1130	5.5	12.0	--	.0
74-03-01	53	17	10	100	5.6	11.5	--	.0
74-05-20	--	--	--	760	5.8	12.0	--	.0
74-03-04	88	39	31	191	5.6	11.0	.0	.0
74-04-10	70	18	7	111	6.7	12.0	--	.0

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
410212071574601	S 51275		74-04-11	16	520	20	7.0	4.5	20	1.3
404119072593501	S 51461		74-09-19	9.3	500	50	1.7	1.0	11	2.8
405716072413301	S 51566	ABC	74-07-23	9.7	90	90	100	18	8.2	4.5
405653072422501	S 51567	A	74-06-10	9.4	70	70	80	11	10	3.0
405808072385401	S 51568	ABC	74-08-11	8.3	150	20	47	6.1	20	5.1
405805072403701	S 51571	ABC	74-06-28	9.3	20	20	55	12	14	2.5
405512072395201	S 51573	ABC	74-07-09	40	70	60	19	2.4	6.4	.8
405544072411801	S 51575	ABC	74-08-07	5.6	2100	90	3.0	1.6	6.1	1.1
405559072425201	S 51576	ABC	74-07-12	7.7	10	100	23	6.3	8.0	2.9
405630072442001	S 51577		74-07-09	8.1	50	230	62	11	10	7.2
405721072453701	S 51578		74-06-24	8.6	20	20	30	9.8	8.2	2.8
405542072463001	S 51579	ABC	74-06-25	8.7	0	0	8.4	3.6	5.9	1.4
405714072470901	S 51580		74-06-20	7.2	20	20	16	4.6	6.7	2.8
405722072342001	S 51581	AC	74-07-30	7.5	60	40	85	14	15	3.6
405853072353901	S 51582		74-07-25	9.5	0	0	82	12	14	5.5
405500072495201	S 51583	ABC	74-08-04	6.4	0	0	2.1	2.4	7.4	.9
405757072491801	S 51584	ABC	74-09-10	15	140	50	8.4	3.4	8.5	.9
405513072505401	S 51585	ABC	74-09-12	9.5	70	50	17	3.8	8.5	.8
405642072491901	S 51586	ABC	74-08-05	7.5	120	60	15	11	6.0	1.3
405809072370901	S 51587	ABC	74-07-26	8.5	40	40	28	5.4	9.2	9.6

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
74-04-11	18	15	14	29	.2	--	--	.01	--	.00	--	.00
74-09-19	21	17	3.8	3.5	.2	--	.03	--	.00	--	--	--
74-07-23	5	4	240	43	.0	--	18	--	.01	--	.04	--
74-06-10	7	6	180	35	.1	10	9.4	.01	.01	.01	--	--
74-08-11	9	7	100	40	.1	--	9.4	--	.00	--	.00	--
74-06-28	7	6	140	29	.0	--	.00	--	.01	--	.00	--
74-07-09	78	64	.5	5.8	.2	--	.00	--	.01	--	--	--
74-08-07	15	12	8.7	7.0	.1	--	.02	--	.01	--	.37	--
74-07-12	4	3	54	16	.2	--	9.8	--	.01	--	.00	--
74-07-09	12	10	160	23	.3	--	10	--	.01	--	.03	--
74-06-24	7	6	76	18	.1	7.2	6.8	.00	.00	.01	--	--
74-06-25	5	4	30	7.6	.1	--	1.2	--	.00	--	.00	--
74-06-20	4	3	36	13	.1	4.8	4.7	.00	--	.00	--	--
74-07-30	4	3	180	38	.1	--	13	--	.01	--	.02	--
74-07-25	5	4	170	25	.2	--	16	--	.00	--	.01	--
74-08-04	2	2	7.7	13	.2	--	.19	--	.00	--	.00	--
74-09-10	17	14	15	11	.1	--	1.3	--	.00	--	.01	--
74-09-12	9	7	33	16	.1	--	4.0	--	.00	--	.04	--
74-08-05	2	2	45	19	.1	--	6.1	--	.00	--	.05	--
74-07-26	6	5	55	20	.1	--	10	--	.01	--	.01	--

DATE OF SAMPLE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-04-11	.00	.02	101	36	21	183	6.2	11.0	--	.0
74-09-19	--	--	44	8	0	70	6.9	15.0	--	.0
74-07-23	--	--	441	320	320	>1000	5.6	11.0	1.8	.1
74-06-10	--	.01	374	250	240	615	5.3	11.0	.2	.1
74-08-11	--	--	273	140	140	525	5.9	12.0	3.0	.1
74-06-28	--	--	265	190	180	670	5.9	11.0	3.3	--
74-07-09	--	--	114	57	0	180	7.8	13.5	1.6	.0
74-08-07	--	--	41	14	2	90	6.5	13.0	--	.0
74-07-12	--	--	163	83	80	320	5.3	11.0	.3	.0
74-07-09	--	--	332	200	190	620	5.3	11.0	.4	.0
74-06-24	--	.01	187	120	110	310	5.4	10.0	--	.1
74-06-25	--	--	74	36	32	155	5.8	11.0	1.2	.0
74-06-20	--	.01	109	59	56	250	5.8	10.0	.3	.1
74-07-30	--	--	403	270	270	900	5.6	11.0	.5	.1
74-07-25	--	--	321	250	250	1000	5.8	11.0	.5	.1
74-08-04	--	--	41	15	13	85	5.8	10.5	2.1	.0
74-09-10	--	--	71	35	21	120	6.2	10.5	4.0	.0
74-09-12	--	--	93	58	51	195	6.0	11.5	4.5	.0
74-08-05	--	--	106	83	81	250	5.4	10.5	2.6	.1
74-07-26	--	--	139	92	87	315	5.6	11.0	.5	.1

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

STATION NUMBER	LOCAL IDENTIFIER		DATE OF SAMPLE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
LONG ISLAND--Continued										
SUFFOLK COUNTY--Continued										
405634072380501	S 51588	AC	74-07-31	7.2	50	0	78	11	9.8	3.4
405418072470601	S 51591		74-05-30	5.0	1400	90	--	--	--	--
405349072494101	S 51592	ABC	74-07-18	6.5	130	10	4.5	1.6	9.5	1.0
405745072455701	S 51828		74-06-17	9.8	70	0	28	9.8	9.4	2.0
410400072202001	S 52050	ABC	74-06-13	11	380	130	--	--	--	--
410516072200901	S 52084	ABC	74-06-11	15	140	50	--	--	--	--
404357072515701	S 52162		74-07-22	7.9	570	0	.2	.1	14	1.6
404357072515702	S 52163		74-07-25	8.6	870	10	.5	.2	25	4.5
404357072515703	S 52164		74-07-25	8.4	920	30	.4	.6	12	4.7
405542072445301	S 52383		74-06-28	4.5	0	170	11	1.7	5.5	5.7
405512072395202	S 52449	ABC	74-07-10	12	20	0	14	3.8	34	1.8
405912072220701	S 52657		74-04-10	10	38000	90	3.5	2.0	9.5	.7
405411072261901	S 52658		74-04-10	9.5	12000	20	3.0	2.7	7.0	.6
405434072204001	S 52666		74-04-11	3.0	1400	30	5.5	1.0	3.0	2.0
405554072200101	S 52669		74-04-11	8.3	1400	600	37	9.0	12	10
405503072165001	S 52679		74-04-10	5.8	420	20	25	4.7	15	4.6
405600072150001	S 52683		74-04-10	7.1	460	40	26	6.6	10	11
405632072115601	S 52686		74-04-10	7.7	950	110	16	5.0	14	2.7

DATE OF SAMPLE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
74-07-31	7	6	160	32	.1	--	11	--	.00	--	.01	--
74-05-30	17	14	13	5.6	--	.19	--	.01	--	.33	--	.09
74-07-18	1	1	13	14	.0	--	.45	--	.01	--	.01	--
74-06-17	14	11	77	17	.1	1.8	--	.00	.00	.02	--	--
74-06-13	29	24	17	20	--	--	--	--	--	--	--	--
74-06-11	19	16	17	14	--	--	--	--	--	--	--	--
74-07-22	26	21	5.4	13	.2	.01	.00	.00	.01	.11	--	.00
74-07-25	47	51	9.6	7.1	.1	.01	.01	.02	.01	.05	--	--
74-07-25	25	27	7.3	5.3	.1	.00	.00	.01	.01	.04	--	--
74-06-28	0	0	20	7.5	.5	--	4.7	--	.00	--	.02	--
74-07-10	24	20	31	18	.1	--	2.8	--	.01	--	--	--
74-04-10	18	15	6.5	12	.0	.38	--	.01	--	.00	--	.00
74-04-10	16	13	8.2	10	.2	.54	--	.01	--	.01	--	.02
74-04-11	8	7	9.7	4.1	.1	1.1	--	.01	--	.02	--	.06
74-04-11	11	9	78	27	.1	14	--	.01	--	.04	--	.09
74-04-10	27	22	41	29	.0	5.3	--	.01	--	.09	--	.17
74-04-10	9	7	47	26	.1	10	--	.01	--	.01	--	--
74-04-10	12	10	27	22	.1	6.0	--	.01	--	.00	--	.00

DATE OF SAMPLE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
74-07-31	--	--	--	354	240	230	850	5.7	11.0	14	.1
74-05-30	.42	.62	.01	--	--	--	100	5.8	10.5	--	.0
74-07-18	--	--	--	51	18	17	135	5.6	11.0	.3	.0
74-06-17	--	--	.02	188	110	99	315	6.3	11.0	.5	.1
74-06-13	--	--	--	--	--	--	320	5.7	13.0	1.2	.1
74-06-11	--	--	--	--	--	--	160	6.1	11.5	.3	.0
74-07-22	.06	.07	.05	55	1	0	90	7.2	22.0	--	.0
74-07-25	.04	.07	.08	79	2	0	110	6.7	18.0	--	.0
74-07-25	.02	.03	.03	51	3	0	110	6.4	16.0	--	.0
74-06-28	--	--	--	77	34	34	185	4.8	10.5	1.0	.1
74-07-10	--	--	--	139	51	31	245	6.2	13.5	2.2	.0
74-04-10	.00	.39	.02	55	17	2	95	4.4	11.0	--	.0
74-04-10	.03	.58	.01	49	19	5	85	5.8	11.0	--	.0
74-04-11	.08	1.2	.01	32	18	11	75	6.0	10.0	--	.0
74-04-11	.13	14	.01	187	130	120	393	5.5	11.0	--	.1
74-04-10	.26	5.6	.01	138	82	60	285	5.5	11.0	--	.1
74-04-10	.00	10	.01	138	92	85	325	5.2	10.0	--	.1
74-04-10	.00	6.0	.01	100	61	51	208	5.6	11.0	--	.1

A Additional analyses in Minor Element analyses of ground waters in New York.

B Additional analyses in Radiochemical analyses of ground waters in New York.

C Additional analyses in Pesticide analyses of ground waters in New York.

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
SUSQUEHANNA RIVER BASIN											
CORTLAND COUNTY											
423835076112301	74-06-13	.2	6400	90	32	0	26	21	8.8	152	8.7
	74-08-27	4.7	5200	280	144	0	118	18	9.3	245	7.8
424109076100201	74-08-27	5.0	530	20	118	0	97	14	3.7	260	7.7
424112076092101	74-08-27	4.4	3100	90	128	0	105	18	56	730	7.4
424114076101001	74-08-27	4.6	1900	60	101	0	83	14	11	310	7.3
424306076082201	74-08-27	5.2	1100	B400	228	0	187	22	21	680	7.4

DATE OF SAMPLE	TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
74-06-13	1.1	75	B20	7
74-08-27	20.0	B4500	B7	110
74-08-27	16.0	100	B3	B9
74-08-27	15.0	210	B1	B12
74-08-27	16.0	450	B2	B11
74-08-27	15.0	320	B1	28

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

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Note: See table of Chemical Analyses of Ground Water in New York for additional analyses on each sample reported below.

LOCAL IDENTIFIER	DATE OF SAMPLE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COBALT (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
LONG ISLAND										
SUFFOLK COUNTY										
S 1807	73-11-30	2	0	10	0	50	3	<.5	0	360
S 9645	73-10-16	0	1	0	1	10	4	1.8	--	200
S 10222	73-10-16	0	0	<10	0	860	5	5.9	--	150
S 10373	73-11-06	1	0	<10	0	120	0	1.0	--	50
S 17464	73-11-20	<1	0	0	0	20	0	--	--	50
S 17807	73-10-16	<1	0	<10	0	10	1	.6	--	50
S 21900	73-12-04	<1	0	<10	0	10	2	<.5	1	0
S 43815	73-11-21	<1	0	0	--	10	1	--	--	20
S 43816	73-11-21	<1	0	0	0	0	5	--	--	50
S 43817	73-12-04	1	0	0	0	0	8	<.5	<1	30
S 43818	73-12-04	<1	0	0	0	0	4	1.0	<1	10
S 43819	73-12-03	0	0	10	0	10	4	1.9	<1	0
S 43822	73-12-10	<1	0	0	0	10	0	1.6	2	10
S 45594	73-12-10	0	0	0	0	0	11	.7	1	10
S 48426	74-05-20	0	0	10	0	10	0	--	1	60
S 48427	74-05-20	0	1	20	0	10	4	--	0	260
S 48432	74-05-15	0	0	0	0	0	2	--	1	460
S 48433	74-05-15	0	1	0	0	10	2	--	1	30
S 48434	B 73-10-14	<1	0	0	0	0	0	--	--	10
S 48435	B 73-10-02	0	0	<10	1	10	0	--	--	10
S 48436	B 73-10-15	<1	1	0	0	0	0	--	--	10
S 48441	B 73-10-01	0	0	10	0	10	0	--	--	30
S 48442	B 73-10-10	0	1	<10	1	10	1	--	--	10
S 48517	74-05-15	0	0	10	0	0	5	--	<1	70
S 48518	74-05-15	0	0	20	0	0	2	--	1	100
S 48521	74-05-15	0	0	0	0	10	1	--	0	50
S 48579	B 73-10-11	<1	0	0	3	10	0	--	--	10
S 48581	B 73-10-01	<1	0	<10	0	10	0	--	--	20
S 48582	BC 73-10-02	0	0	10	0	0	1	--	--	10
S 48583	BC 73-10-03	1	0	0	10	0	0	--	--	10
S 48584	B 73-10-03	<1	0	0	1	10	0	--	--	10
S 49898	B 73-10-10	<1	0	0	1	10	1	--	--	20
S 51170	74-02-28	<1	0	0	0	10	0	--	1	40
S 51171	74-03-08	1	0	<10	1	0	2	--	2	100
S 51173	C 74-04-23	1	0	10	1	0	2	--	0	120
S 51174	74-03-08	1	0	0	1	0	4	--	3	230
S 51175	74-03-06	1	0	--	0	0	0	--	1	150
S 51176	74-03-05	1	0	0	0	0	2	--	1	480
S 51177	74-02-28	<1	0	0	0	0	0	--	1	20
S 51178	74-06-12	<1	0	<10	3	10	1	--	<1	160
S 51180	74-03-04	<1	0	--	0	0	3	--	3	40
S 51181	74-03-01	1	0	0	0	10	0	--	<1	90
S 51182	74-02-28	<1	0	0	0	0	0	--	3	17
S 51183	B 74-03-12	0	0	0	1	0	0	--	3	50
S 51184	74-03-01	1	1	0	0	0	0	--	<1	70
S 51185	74-03-01	<1	0	0	0	0	0	--	1	10
	74-05-20	0	0	20	0	0	0	--	1	230
S 51566	BC 74-07-23	0	1	0	0	10	0	--	<1	170
S 51567	74-06-10	1	0	0	0	10	3	--	0	370
S 51568	BC 74-08-11	2	0	0	0	0	4	--	3	10
S 51571	BC 74-06-28	2	0	10	0	0	1	--	2	10
S 51573	BC 74-07-09	2	0	0	1	10	0	--	0	0
S 51575	BC 74-08-07	1	0	0	0	10	0	--	0	0
S 51576	BC 74-07-12	1	0	0	0	0	5	--	1	10
S 51579	BC 74-06-25	1	0	<10	0	0	3	--	1	20
S 51581	C 74-07-30	0	0	0	0	0	6	--	3	150
S 51582	C 74-07-25	0	0	10	0	0	2	--	2	30
S 51583	BC 74-08-04	0	0	0	0	0	0	--	0	20
S 51584	BC 74-09-10	0	0	0	0	0	2	--	2	20
S 51585	BC 74-09-12	0	0	<10	0	10	1	--	3	0
S 51586	BC 74-08-05	1	0	0	0	0	0	--	0	40
S 51587	BC 74-07-26	0	0	0	0	0	4	--	2	80
S 51588	C 74-07-31	0	0	0	0	0	3	--	0	30
S 51592	BC 74-07-18	0	0	0	0	10	1	--	<1	790
S 52050	BC 74-06-13	0	0	0	2	10	1	--	2	440
S 52084	BC 74-06-11	1	0	0	1	10	0	--	1	150
S 52449	BC 74-07-10	2	0	10	0	10	4	--	<1	40

B - Additional analyses in Radiochemical analyses of ground waters in New York.

C - Additional analyses in Pesticide analyses of ground waters in New York.

Note: See tables of Chemical Analyses and Minor Element Analyses of Ground Water in New York for additional analyses on each sample reported below.

LOCAL IDENTIFIER	DATE OF SAMPLE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)
					LONG ISLAND						
					SUFFOLK COUNTY						
S 48582	B 73-10-02	.00	.0	.00	.00	.00	.00	.00	.00	--	.00
S 48583	B 73-10-03	.00	.0	.00	.00	.00	.00	.00	.00	--	.00
S 51173	74-04-23	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51179	74-04-23	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51566	B 74-07-23	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51568	B 74-08-11	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 52449	B 74-07-10	--	--	--	--	--	--	--	--	--	--
S 51571	B 74-06-28	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51573	B 74-07-09	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51575	B 74-08-07	.00	.0	8.1	.00	.00	.00	.00	.00	.00	.00
S 51576	B 74-07-12	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51579	B 74-06-25	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51581	74-07-30	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51582	74-07-25	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51583	B 74-08-04	.00	.0	.00	.00	.00	.00	.01	.00	.00	.00
S 51584	B 74-09-10	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51585	B 74-09-12	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51586	B 74-08-05	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51587	B 74-07-26	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51588	74-07-31	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 51592	B 74-07-18	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 52050	B 74-06-13	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
S 52084	B 74-06-11	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE OF SAMPLE	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	TOXAPHENE (UG/L)	TRITHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
73-10-02	.00	.00	.00	.00	--	.00	.0	--	--	--	--	--
73-10-03	.00	.00	.00	.00	--	.00	.0	--	--	--	--	--
74-04-23	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-04-23	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-23	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-08-11	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-10	--	--	--	--	--	--	--	--	--	.00	.00	.00
74-06-28	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-09	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-08-07	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-12	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-06-25	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-30	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-25	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-08-04	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-09-10	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-09-12	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-08-05	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-26	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-31	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-07-18	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-06-13	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
74-06-11	.00	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

B - Additional analyses in Radiochemical analyses of ground waters in New York.

WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Note: See tables of Chemical Analyses and Minor Element Analyses of Ground Water in New York for additional analyses on each sample reported below.

LOCAL IDENT-I-FIER		DATE OF SAMPLE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)
LONG ISLAND							
SUFFOLK COUNTY							
S 48434		73-10-14	1.7	1.8	1.5	70	--
S 48435		73-10-02	6.9	8.9	7.0	150	--
S 48436		73-10-15	1.2	.6	.5	35	--
S 48441		73-10-01	5.8	3.7	3.0	230	56
S 48442		73-10-10	3.3	12	9.6	150	--
S 48579		73-10-11	1.6	3.2	2.6	150	--
S 48581		73-10-01	2.7	2.3	1.9	40	--
S 48582	C	73-10-02	<.7	1.0	.8	45	--
S 48583	C	73-10-03	1.4	1.0	.8	30	--
S 48584		73-10-03	1.0	1.3	1.1	34	--
S 49898		73-10-10	1.8	2.8	2.4	50	--
S 51183		74-03-12	2.9	2.1	1.7	73	--
S 51566	C	74-07-23	<10	7.3	6.4	690	--
S 51568	C	74-08-11	<1.1	5.5	4.4	110	--
S 52449	C	74-07-10	<1.9	2.6	2.1	140	--
S 51571	C	74-06-28	<3.4	3.3	2.7	420	--
S 51573	C	74-07-09	<1.3	1.0	.8	120	--
S 51575	C	74-08-07	10	3.6	2.9	45	--
S 51576	C	74-07-12	3.1	6.5	5.2	190	--
S 51579	C	74-06-25	<1.3	1.4	1.1	96	--
S 51583	C	74-08-04	<.4	.9	.7	48	--
S 51584	C	74-09-10	<1.1	.9	.7	81	--
S 51585	C	74-09-12	<1.5	1.3	1.0	140	--
S 51586	C	74-08-05	1.3	1.9	1.5	160	--
S 51587	C	74-07-26	<4.1	17	14	250	--
S 51592	C	74-07-18	2.9	3.5	2.8	61	--
S 52050	C	74-06-13	<2.3	1.2	1.0	280	--
S 52084	C	74-06-11	<2.0	1.6	1.3	150	--

C - Additional analyses in Pesticide analyses of ground waters in New York.

LONG ISLAND

AT MINEOLA, N.Y.

LOCATION.--Lat 40°44'17", long 73°38'17", Nassau County, at National Weather Service Station Mineola 1W on roof of U.S. Geological Survey office, at 1505 Kellum Place, in Mineola.

RECORDS AVAILABLE.--Chemical analyses; October 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 5.0 in (127 mm) in diameter which drains into a 4-litre glass receiving bottle. A glass wool filter is used to prevent large particles of debris from entering the receiving bottle. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 25 ft (8 m) above ground level.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Specific Conductance, Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:
72-01-03 to 72-02-01 Specific Conductance 36 micromhos.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/l)
71-10-01 TO 71-11-01	0.22	0.40	72-04-03 TO 72-05-01	0.42	0.73
71-11-01 TO 71-12-01	.38	.30	72-05-01 TO 72-06-01	.42	.60
71-12-01 TO 72-01-03	.44	.88	72-06-01 TO 72-07-03	.42	.70
72-01-03 TO 72-02-01	.70	.72	72-07-03 TO 72-08-01	3.4	.80
72-02-01 TO 72-03-01	.27	.70	72-08-01 TO 72-09-01	--	1.4
72-03-01 TO 72-04-03	.47	.82	72-09-01 TO 72-10-02	--	.80

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-01-73 TO 11-01-73	1.97	1.6	.8	2.7	.2	2	2.3
11-01-73 TO 12-01-73	1.70	2.0	.9	.4	.2	1	4.6
12-01-73 TO 01-02-74	8.38	.6	.5	1.5	.2	1	2.6
01-02-74 TO 02-01-74	3.40	2.0	1.0	1.2	.1	2	5.7
02-01-74 TO 03-01-74	1.73	7.0	2.0	4.2	.2	5	8.4
03-01-74 TO 04-01-74	4.88	1.8	.7	1.0	.2	5	4.1
04-01-74 TO 05-01-74	2.94	2.1	.8	.1	.0	9	5.2
05-01-74 TO 06-01-74	3.84	1.5	.3	.7	.0	7	6.5
06-01-74 TO 07-01-74	1.83	2.0	.6	.7	.0	0	8.9
07-01-74 TO 08-01-74	.82	4.1	1.3	.7	.0	0	8.7
08-01-74 TO 09-01-74	5.05	1.0	.4	.2	.0	1	3.4
09-01-74 TO 10-01-74	5.72	.6	.2	.1	.0	1	1.8

PERIOD OF COLLECTION	CHLO-RIDE (CL) (MG/L)	FLUO-RIDE (F) (MG/L)	NIT-RITE+ NIT-RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS-PHO-ROUS (P) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
10-01-73 TO 11-01-73	4.6	.3	.50	.27	--	26	6.3
11-01-73 TO 12-01-73	1.4	.3	1.10	.78	--	34	5.8
12-01-73 TO 01-02-74	3.6	.2	.31	.58	--	27	5.8
01-02-74 TO 02-01-74	3.1	.1	.74	---	--	38	6.3
02-01-74 TO 03-01-74	8.8	--	1.50	---	--	76	6.7
03-01-74 TO 04-01-74	1.8	--	.57	---	--	26	6.2
04-01-74 TO 05-01-74	1.8	.1	.58	---	--	32	5.5
05-01-74 TO 06-01-74	2.0	.0	.86	---	--	49	3.7
06-01-74 TO 07-01-74	1.5	.1	.99	---	--	63	3.4
07-01-74 TO 08-01-74	1.2	.2	---	---	.06	44	-
08-01-74 TO 09-01-74	.7	.1	.54	.21	.03	22	4.3
09-01-74 TO 10-01-74	1.5	.1	.31	.12	.01	17	4.6

LONG ISLAND

AT UPTON, N.Y.

LOCATION.--Lat 40°52'16", long 72°53'20", Suffolk County, at National Weather Service Station at Brookhaven National Laboratory weather tower about 2 mi (3.2 km) east of main entrance, at Upton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1973 (monthly composite) (discontinued).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-09-30 TO 71-11-02	0.04	0.25	72-03-31 TO 72-04-28	0.23	0.67
71-11-02 TO 71-11-30	.11	.28	72-04-28 TO 72-05-31	.03	.15
71-11-30 TO 72-01-03	.16	.49	72-05-31 TO 72-06-30	.18	.28
72-01-03 TO 72-02-02	.17	.50	72-06-30 TO 72-07-31	.11	.18
72-02-02 TO 72-02-29	.09	.38	72-07-31 TO 72-08-31	.05	.20
72-02-29 TO 72-03-31	.25	.45	72-08-31 TO 72-09-29	.00	.16

HUDSON RIVER BASIN

AT ROCK HILL, N.Y.

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mi (1.4 km) east of Rock Hill, and 3.5 mi (5.6 km) northwest of National Weather Service Station Rock Hill 3SW and 6.5 mi (10.5 km) southeast of Monticello.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-11-03 TO 71-12-05	0.14	0.42	72-05-02 TO 72-06-02	0.05	0.01
71-12-05 TO 71-12-31	.15	.54	72-06-02 TO 72-07-02	.07	.27
71-12-31 TO 72-02-08	.08	.74	72-07-02 TO 72-08-01	.05	.14
72-02-08 TO 72-03-02	.08	.52	72-08-01 TO 72-09-02	.05	.66
72-03-02 TO 72-04-03	.26	.60	72-09-02 TO 72-10-04	.12	.45
72-04-03 TO 72-05-02	.16	.61			

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-01-73 TO 11-01-73	3.46	.5	.1	.5	3.7	0	5.5
11-01-73 TO 12-03-73	2.80	1.7	.8	2.0	3.1	5	9.3
12-03-73 TO 01-02-74	10.33	.4	.2	.4	.6	0	2.2
02-03-74 TO 03-04-74	2.78	1.0	.3	.1	.2	0	4.5
03-04-74 TO 04-05-74	5.64	1.0	.2	.5	.2	0	2.3
04-05-74 TO 05-01-74	2.46	1.8	.5	.4	.4	0	5.7
05-01-74 TO 06-01-74	4.76	2.0	.8	.4	.8	1	5.7
06-01-74 TO 07-01-74	4.29	.6	.1	.0	.5	0	5.8
07-01-74 TO 08-01-74	5.05	.1	.0	.0	.4	0	7.4
08-01-74 TO 09-04-74	6.98	.3	.1	.0	.0	0	2.9
09-04-74 TO 10-01-74	4.09	3.4	1.7	.0	.0	0	2.8

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-73 TO 11-01-73	2.0	--	.01	.13	--	20	5.3
11-01-73 TO 12-03-73	3.1	--	.02	.54	--	48	5.7
12-03-73 TO 01-02-74	.9	--	.21	.04	.01	12	5.0
02-03-74 TO 03-04-74	.4	--	.41	.14	--	24	4.4
03-04-74 TO 04-05-74	.5	--	.37	.11	--	20	4.4
04-05-74 TO 05-01-74	1.5	.2	.81	.15	.09	34	4.5
05-01-74 TO 06-01-74	2.2	.1	.04	.02	.03	24	5.5
06-01-74 TO 07-01-74	.3	.0	.29	.07	.02	34	4.2
07-01-74 TO 08-01-74	.3	.1	.72	.34	.02	59	3.8
08-01-74 TO 09-04-74	.4	.4	.45	.12	.00	32	4.8
09-04-74 TO 10-01-74	7.4	.1	.43	.04	.01	32	4.2

HUDSON RIVER BASIN

NEAR ALBANY, N.Y.

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service Station at Albany Municipal Airport, 0.5 mi (0.8 km) north of new State Highway 155.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-09-30 TO 71-11-01	0.01	0.10	72-04-01 TO 72-04-30	0.57	0.83
71-11-01 TO 71-12-01	.32	.62	72-04-30 TO 72-06-30	.07	.37
71-12-01 TO 71-12-31	.06	.71	72-06-30 TO 72-08-01	.02	.24
71-12-31 TO 72-01-31	.22	.80	72-08-01 TO 72-09-03	.02	.60
72-01-31 TO 72-02-29	.07	.76	72-09-03 TO 72-10-03	.02	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
09-04-73 TO 11-15-73	3.57	3.0	.3	.5	.1	2	6.6
11-15-73 TO 12-12-73	2.58	2.5	.2	.5	.2	0	5.0
12-12-73 TO 01-03-74	5.15	.8	.1	.2	.1	0	2.2
01-03-74 TO 02-06-74	2.25	8.0	.8	3.2	1.0	16	22
02-06-74 TO 03-01-74	1.85	4.0	.3	1.6	.1	5	8.0
03-01-74 TO 03-31-74	3.10	5.5	.6	1.3	.2	4	8.8
03-31-74 TO 05-14-74	5.54	2.2	.1	.2	.0	5	4.1
05-14-74 TO 06-06-74	1.26	4.2	.6	.5	.5	4	8.7
06-06-74 TO 07-02-74	3.08	2.3	.3	.0	.1	2	6.8
07-02-74 TO 08-05-74	5.29	1.0	.3	1.0	1.0	2	6.7
08-05-74 TO 09-04-74	4.70	.8	.1	.0	2.0	0	3.7
09-04-74 TO 10-01-74	3.75	1.8	.2	1.5	1.2	1	8.1

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
09-04-73 TO 11-15-73	1.0	--	.01	.05	--	26	5.8
11-15-73 TO 12-12-73	1.1	--	.29	.11	--	22	5.9
12-12-73 TO 01-03-74	.5	--	.11	.03	.02	11	5.1
01-03-74 TO 02-06-74	6.0	--	.89	.34	--	109	6.5
02-06-74 TO 03-01-74	2.7	--	.64	.08	--	38	6.0
03-01-74 TO 03-31-74	5.2	--	.66	.24	--	46	6.2
03-31-74 TO 05-14-74	.2	.1	.03	.04	.02	19	6.4
05-14-74 TO 06-06-74	1.0	.1	.42	.03	.01	43	6.7
06-06-74 TO 07-02-74	.2	.1	.07	.04	.02	25	5.8
07-02-74 TO 08-05-74	1.1	.1	.01	.62	.22	23	5.4
08-05-74 TO 09-04-74	1.3	.3	.40	.11	.00	33	4.3
09-04-74 TO 10-01-74	2.3	.0	.35	.36	.09	38	6.2

HUDSON RIVER BASIN

AT HINCKLEY, N.Y.

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service Station at Hinckley Dam on West Canada Creek on Cody Road in Hinckley.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-09-30 TO 71-10-31	0.12	0.25	72-03-31 TO 72-04-30	0.05	0.55
71-10-31 TO 71-11-30	.29	.64	72-04-30 TO 72-06-01	.10	.37
71-11-30 TO 71-12-31	.62	1.14	72-06-01 TO 72-07-01	.11	.15
71-12-31 TO 72-01-31	.34	.58	72-07-01 TO 72-08-01	.04	.15
72-01-31 TO 72-02-29	.41	1.10	72-08-01 TO 72-09-01	.00	.01
72-02-29 TO 72-03-31	.23	.83	72-09-01 TO 72-09-30	.01	.06

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
09-30-73 TO 11-01-73	3.75	.7	.1	.3	.1	0	3.9
11-01-73 TO 12-01-73	6.44	.5	.1	.7	.1	0	2.4
12-01-73 TO 12-31-73	7.77	.4	.1	.1	.2	0	.6
12-31-73 TO 02-01-74	3.86	.3	.1	.0	.1	0	3.3
02-01-74 TO 02-28-74	3.10	1.0	.2	.1	.2	0	3.0
02-28-74 TO 04-01-74	4.39	.8	.1	.2	.1	0	3.3
04-01-74 TO 04-30-74	2.96	--	--	--	--	0	5.6
04-30-74 TO 05-31-74	7.33	.6	.1	.0	.1	0	3.9
05-31-74 TO 07-01-74	4.00	.5	.0	.1	.2	0	5.2
07-01-74 TO 07-31-74	5.27	.5	.0	.3	.0	0	6.3
07-31-74 TO 08-31-74	4.06	2.9	.5	.0	.0	0	5.0
08-31-74 TO 10-01-74	6.30	.5	.1	.0	.0	0	2.0

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
09-30-73 TO 11-01-73	.5	--	.08	.13	--	15	4.7
11-01-73 TO 12-01-73	.3	--	.48	.10	--	29	4.1
12-01-73 TO 12-31-73	.2	--	.09	---	.01	6	5.3
12-31-73 TO 02-01-74	.9	--	.86	.35	--	44	4.0
02-01-74 TO 02-28-74	.7	--	.91	.30	--	31	4.1
02-28-74 TO 04-01-74	3.4	--	.64	.25	--	34	4.2
04-01-74 TO 04-30-74	.6	.1	.68	---	.01	39	4.0
04-30-74 TO 05-31-74	.2	--	.57	.02	--	42	4.0
05-31-74 TO 07-01-74	.3	--	.20	.01	.01	36	4.1
07-01-74 TO 07-31-74	.9	--	.11	.03	.01	40	3.9
07-31-74 TO 08-31-74	.4	--	.33	.11	.01	33	4.2
08-31-74 TO 10-01-74	.2	--	.08	.05	.01	34	4.2

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA.

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service Station Milan 1N, 300 feet west of U.S. Highways 220 and 309, 0.6 mi (1.0 km) west of the mouth of the Chemung River, 2.0 mi (3.2 km) south of Athens, and 5.1 mi (8.2 km) south of the New York-Pennsylvania state line.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-10-02 TO 71-11-02	0.06	0.00	72-05-04 TO 72-05-31	0.03	0.20
71-11-02 TO 71-12-01	.84	.88	72-05-31 TO 72-06-30	.11	.10
71-12-01 TO 71-12-31	.84	.37	72-06-30 TO 72-08-01	.20	.60
71-12-31 TO 72-02-02	3.02	1.30	72-08-01 TO 72-09-02	.17	.87
72-02-02 TO 72-03-03	1.53	1.00	72-09-02 TO 72-10-01	.03	.00
72-04-01 TO 72-05-04	.40	1.05			

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-01-73 TO 11-02-73	--	1.0	.1	.2	.1	0	5.0
11-02-73 TO 12-01-73	1.34	.7	.1	.7	.2	0	5.0
12-01-73 TO 01-01-74	4.52	.6	.1	.4	.2	0	3.3
01-01-74 TO 02-04-74	--	1.2	.2	.9	.8	0	9.5
02-04-74 TO 03-02-74	1.35	2.0	.3	1.1	1.2	0	16
03-02-74 TO 04-03-74	--	1.7	.2	.5	.7	0	7.1
04-03-74 TO 05-02-74	--	1.5	.2	.3	.2	0	6.1
05-02-74 TO 06-01-74	--	2.2	.4	.4	.4	0	12
06-01-74 TO 07-01-74	--	.7	.1	.5	.4	0	8.0
07-01-74 TO 07-31-74	--	3.5	.6	.3	.0	3	12
07-31-74 TO 08-31-74	2.24	1.0	.2	.1	.1	0	8.6
08-31-74 TO 09-30-74	--	1.0	.1	.0	.0	0	7.9

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-73 TO 11-02-73	.5	--	.49	.13	--	33	4.3
11-02-73 TO 12-01-73	.5	--	.78	1.10	--	38	4.2
12-01-73 TO 01-01-74	.6	--	.45	.80	.01	23	4.6
01-01-74 TO 02-04-74	1.7	--	.88	2.00	--	42	4.7
02-04-74 TO 03-02-74	1.2	--	1.00	2.10	--	75	4.1
03-02-74 TO 04-03-74	1.3	--	.79	1.80	--	36	5.0
04-03-74 TO 05-02-74	.6	.1	.53	.24	.04	40	4.2
05-02-74 TO 06-01-74	1.2	.2	1.50	.75	.03	95	3.9
06-01-74 TO 07-01-74	1.8	.0	.61	1.10	.06	43	4.2
07-01-74 TO 07-31-74	2.8	.1	.80	.83	.02	56	4.7
07-31-74 TO 08-31-74	1.5	.3	.83	.66	.00	64	4.0
08-31-74 TO 09-30-74	.5	.1	.73	.63	.02	57	4.1

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, N.Y.

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service Station in Allegany State Park, 100 feet west of Park Administration Building, 300 feet west of Park Highway 1 and 6.0 mi (9.7 km) south of Salamanca.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-10-01 TO 71-11-01	0.16	0.43	72-04-01 TO 72-05-01	6.20	7.17
71-11-01 TO 71-12-01	.51	.85	72-05-01 TO 72-06-01	.40	.95
71-12-01 TO 72-01-01	.70	.70	72-06-01 TO 72-07-01	.06	.14
72-02-01 TO 72-02-29	.80	2.07	72-07-01 TO 72-08-01	.04	.80
72-03-01 TO 72-04-01	1.58	3.76	72-08-01 TO 72-09-01	3.80	.63

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-01-73 TO 11-01-73	5.06	.5	.1	.2	.1	0	4.5
11-01-73 TO 12-01-73	3.12	1.0	.2	.7	.3	0	4.8
12-01-73 TO 01-01-74	3.98	.3	.1	.1	.1	0	2.8
01-01-74 TO 02-01-74	2.03	.5	.2	.0	.1	0	5.2
02-01-74 TO 03-01-74	2.19	1.2	.2	.2	.1	0	8.3
03-01-74 TO 04-01-74	5.32	.8	.1	.1	.1	0	4.7
04-01-74 TO 05-01-74	4.12	1.0	.3	.2	.2	0	5.0
05-01-74 TO 05-31-74	5.19	.7	.2	.1	.5	0	7.0
05-31-74 TO 07-01-74	5.01	.3	.0	.0	.2	0	5.6
07-01-74 TO 08-01-74	3.25	.5	.1	.0	.0	0	7.4
08-01-74 TO 09-30-74	11.38	6.5	2.1	.0	.0	0	3.4

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-73 TO 11-01-73	.0	--	.55	.22	--	42	4.1
11-01-73 TO 12-01-73	.6	--	.75	.67	--	39	4.2
12-01-73 TO 01-01-74	.1	--	.47	.16	.00	13	4.2
01-01-74 TO 02-01-74	.3	--	.61	.19	--	41	4.1
02-01-74 TO 03-01-74	1.5	--	.76	.09	--	77	3.7
03-01-74 TO 04-01-74	.2	--	.59	.11	--	38	4.1
04-01-74 TO 05-01-74	.4	.1	.60	.14	.02	39	6.5
05-01-74 TO 05-31-74	.4	.1	.51	.09	.04	54	4.0
05-31-74 TO 07-01-74	.3	.1	.39	.09	.02	35	4.1
07-01-74 TO 08-01-74	.2	--	.00	.26	.01	71	-
08-01-74 TO 09-30-74	1.2	.1	.36	.04	.01	45	4.0

LAKE ONTARIO BASIN

AT MAYS POINT, N.Y.

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service Station Mays Point Lock 25, at Erie (Barge) Canal and State Highway 89 and 6.2 mi (10.0 km) south of Savannah.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)	Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-10-01 TO 71-11-01	0.14	0.00	72-03-31 TO 72-05-01	0.24	1.00
71-11-01 TO 71-11-30	.26	.62	72-05-01 TO 72-05-31	.12	.60
71-11-30 TO 71-12-31	.32	.64	72-05-31 TO 72-07-02	.03	.15
71-12-31 TO 72-01-31	2.25	.99	72-07-02 TO 72-07-31	.06	.36
72-01-31 TO 72-02-29	.25	1.16	72-07-31 TO 72-08-31	.01	.65
72-02-29 TO 72-03-31	.25	1.23	72-08-31 TO 72-09-30	.25	.52

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-01-73 TO 10-31-73	2.57	3.7	1.0	.5	.9	9	8.0
10-31-73 TO 11-30-73	2.94	.7	.1	.7	.2	0	4.1
11-30-73 TO 01-02-74	4.06	.5	.1	.1	.1	0	2.0
01-02-74 TO 02-01-74	2.02	2.4	.2	.5	.2	0	7.2
02-01-74 TO 02-28-74	1.72	1.5	.2	.7	.2	0	4.0
02-28-74 TO 04-01-74	2.92	1.6	.2	.2	.2	0	3.3
04-01-74 TO 04-30-74	2.44	--	--	--	--	0	9.8
04-30-74 TO 05-31-74	4.00	1.5	.4	12	2.1	0	6.6
05-31-74 TO 07-01-74	4.95	2.0	.2	.5	.3	0	9.0
07-01-74 TO 07-31-74	4.13	2.4	.2	.0	.4	0	5.5
07-31-74 TO 09-03-74	4.52	2.2	.3	.2	.4	0	7.7
09-03-74 TO 09-30-74	2.68	6.5	1.8	.0	.0	0	4.8

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-01-73 TO 10-31-73	1.5	--	.28	.14	--	35	6.1
10-31-73 TO 11-30-73	.8	--	.78	.21	--	45	4.0
11-30-73 TO 01-02-74	.4	--	.53	.10	--	23	4.2
01-02-74 TO 02-01-74	1.2	--	1.30	.41	--	52	4.1
02-01-74 TO 02-28-74	1.4	--	.95	.12	--	35	4.2
02-28-74 TO 04-01-74	3.7	--	1.00	.16	--	32	4.4
04-01-74 TO 04-30-74	6.6	.2	.43	---	.04	53	4.1
04-30-74 TO 05-31-74	21.0	--	.67	.02	--	132	4.0
05-31-74 TO 07-01-74	.8	--	.72	.17	.02	56	3.9
07-01-74 TO 07-31-74	.8	--	.71	.42	.02	54	4.1
07-31-74 TO 09-03-74	1.5	--	.73	.35	.02	52	4.2
09-03-74 TO 09-30-74	1.5	--	.52	.13	.02	33	4.4

ST. LAWRENCE RIVER BASIN

NEAR CANTON, N.Y.

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service Station, Canton 4SE, on the Canton State University Farm on State Highway 68, 2.5 mi (4.0 km) southeast of U.S. Highway 11 and Canton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1974 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

REVISIONS.--Revised figures for Ammonia as N and Nitrate as N for water year 1972 superseding those previously published are given herewith:

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Period of Collection	Ammonia as N (MG/L)	Nitrate as N (MG/L)
71-10-02 TO 71-12-02	0.83	0.95
71-12-02 TO 72-02-10	1.12	1.60
72-02-10 TO 72-06-05	.11	.92
72-06-05 TO 72-07-05	.12	.01
72-07-05 TO 72-08-10	.03	.02

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
10-07-73 TO 11-12-73	1.33	2.5	.5	2.5	.5	2	8.1
11-12-73 TO 12-07-73	2.72	.9	.2	.1	.1	0	3.1
12-07-73 TO 01-08-74	3.07	.0	.1	.5	.3	0	1.3
01-08-74 TO 02-06-74	2.21	.4	.2	.0	.2	0	6.6
02-06-74 TO 03-06-74	2.31	1.0	.2	.1	.2	0	6.1
03-06-74 TO 04-10-74	3.31	1.0	.4	.2	.2	0	3.8
04-10-74 TO 05-09-74	2.08	1.4	.4	.2	12	0	7.2
05-09-74 TO 07-01-74	6.80	2.5	.2	.1	.0	3	7.4
07-01-74 TO 10-03-74	12.27	1.0	.3	.1	.0	0	4.8

PERIOD OF COLLECTION	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRITE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHOROUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
10-07-73 TO 11-12-73	.9	--	.69	.27	--	39	6.0
11-12-73 TO 12-07-73	.7	--	1.10	.50	--	36	4.3
12-07-73 TO 01-08-74	.7	--	.42	.34	--	17	4.7
01-08-74 TO 02-06-74	.5	--	.88	.00	--	34	4.2
02-06-74 TO 03-06-74	.4	--	.88	.57	--	46	4.0
03-06-74 TO 04-10-74	.3	--	.81	.45	--	24	4.6
04-10-74 TO 05-09-74	9.7	.1	1.20	.75	.01	83	4.6
05-09-74 TO 07-01-74	.9	.0	.08	.05	.03	25	6.3
07-01-74 TO 10-03-74	.0	.0	.11	.07	.01	21	4.4

Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1974 WATER YEAR

USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
WQS - New York State Water Quality Surveillance
EPA - Environmental Protection Agency

Identification Number USGS OWDC	WQS EPA	Station	Latitude Longitude
01336600 68068	12 0550	Mohawk River (Canal Section) at Rome	43°11'58" 75°23'24"
01337450	12 1223	Oriskany Creek at Walesville	43°06'56" 73°21'59"
01338600 68085	12 0452	Mohawk River above Whitesboro	43°08'23" 75°18'12"
01341150	12 0515	Mohawk River at Lealand Avenue at Utica	43°06'28" 75°12'41"
01342602 61406	12 0500	Mohawk River near Utica	43°05'26" 75°09'28"
01342755 68083	12 0450	Mohawk River at Herkimer	43°01'01" 74°59'48"
01346000 68094	12 1411	West Canada Creek at Kast Bridge	43°04'25" 74°59'24"
01357995 67597	13 0007	Hudson River at Troy	42°45'05" 73°41'10"
01496380 68109	06 P069	Canadarago Lake near Richfield Springs	42°49'16" 75°00'41"
01502632 68108	06 0045	Susquehanna River at Bainbridge	42°17'28" 75°28'36"
01505000 68106	06 1022	Chenango River at Sherburne	42°40'43" 75°30'39"
01505580 68107	06 1021	Chenango River near Oxford	42°28'21" 75°32'44"
01509030 68105	06 2041	Tioughnioga River at Blodgett Mills	42°34'05" 76°07'18"
01513500 61438	06 0006	Susquehanna River at Vestal	42°05'31" 76°03'21"
01513831 73154	06 0020	Susquehanna River at Owego	42°06'01" 76°15'39"
01514937 61440	06 0015	Susquehanna River at Smithboro	42°01'41" 76°23'07"
01520500 61424	05 1120 A	Tioga Creek at Lindley	42°01'43" 77°07'55"
01524525 68110	05 2004	Canisteo River below Hornell	42°17'58" 77°39'03"
01529552 61386	05 1080	Cohocton River at Campbell	42°13'37" 77°11'56"
01529950 68111	05 0005	Chemung River at Corning	42°08'51" 77°03'42"
01530310 61415	05 0003	Chemung River at Fitch Bridge	42°04'57" 76°52'01"
01531000 61439	05 0001	Chemung River at Chemung	42°00'10" 76°38'06"
03010844 77390	02 0005	Allegheny River at Allegany	42°05'26" 78°30'09"
03010870 68790	02 0003	Allegheny River at Vandalia	42°05'38" 78°34'27"
03010958 61411	02 1036	Tunungwant Creek at Tuna Creek, Pa.	41°59'47" 78°37'21"
03011020 68119	02 0002	Allegheny River at Salamanca	42°09'24" 78°42'57"
03014500 68095	02 3061	Chadakoin River at Falconer	42°06'44" 79°14'19"
03014590	02 2013	Cassadaga Creek near Jamestown	42°05'48" 79°09'25"
03014600 68788	02 1011	Conewango Creek at Frewsburg	42°04'11" 79°09'25"
03014670 61410	02 1010	Conewango Creek at Frewsburg	42°01'23" 79°09'35"
04213378 77387	01 1040	Canadaway Creek at Dunkirk	42°28'32" 79°21'56"
04213450 68120	01 2002	Buttermilk Creek near Springville	42°28'50" 78°40'32"
04213500 61409	01 1070	Cattaraugus Creek at Gowanda	42°28'05" 78°56'30"
04214020 77388	01 1030	Cattaraugus Creek at Irving	42°34'12" 79°06'45"
04214240 77389	01 1020	Eighteenmile Creek at Highland-on-the-Lake	42°42'44" 78°58'00"
04215790 68121	01 1006	Buffalo River at Ohio Street at Buffalo	42°51'42" 78°52'04"
04216060 68122	01 0004	Niagara River at Bird Island at Buffalo	42°54'53" 78°54'12"
04216080 68125	01 C005	Black Rock Canal at Buffalo	42°54'54" 78°54'10"
04216225 73650	01 0007	Niagara River at Tonawanda Water Intake	42°57'02" 78°55'15"
04216230	01 0008	Niagara River at Tonawanda Water Treatment Plant	42°57'50" 78°55'30"
04218595 68124	01 C900	Erie (Barge) Canal near Pendleton	43°06'57" 78°44'13"
04218705 68113	04 C901	Erie (Barge) Canal at State Highway 383 at Rochester	43°07'23" 77°38'45"
04218760 68112	04 C902	Erie (Barge) Canal at West Brighton	43°06'38" 77°37'58"
04219355 68123	01 0002	Niagara River (Tonawanda Channel) at Niagara Falls	43°04'28" 79°00'19"
04219640 61408	01 0001 A	Niagara River (Lake Ontario) at Fort Niagara	43°18'10" 79°03'52"
04220284 61431	03 L002	Lake Ontario at MCWA Intake at Rochester	43°16'45" 77°37'01"
04220437	04 0076	Genesee River above Dyke Creek at Wellsville	42°06'25" 77°56'07"
04220438 61414	04 0075	Genesee River above Wellsville	42°06'40" 77°56'30"
04227000 68114	04 1008	Canaseraga Creek at Shakers Crossing	42°44'12" 77°50'28"
04227510 61418	04 0065	Genesee River at Geneseo	42°46'37" 77°50'31"
04228500 68115	04 0006	Genesee River at Avon	42°55'04" 77°45'27"
04230055 61419	04 1050	Honeoye Creek at West Rush	42°58'40" 77°41'52"
04230650 61413	04 0020	Genesee River at Ballantyne Bridge near Mortimer	43°05'31" 77°40'52"
04231500 68116	04 0004	Genesee River at State Highway 47 at Rochester	43°07'28" 77°37'56"
04232000 68117	04 0003 A	Genesee River at Rochester	43°10'50" 77°37'40"
04232006 68118	04 0001 A	Genesee River at Charlotte Docks, at Rochester	43°13'26" 77°36'59"

A Additional water-quality data in this report.

Table 5.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYZED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1974 WATER YEAR - Continued

Identification Number USGS OWDC	Identification Number WQS EPA	Station	Latitude Longitude
04232158 61429	03 L840	Lake Ontario near Oswego	43°28'17" 76°32'59"
0423249907 68103	07 P108	Seneca Lake at Salt Point	42°24'25" 76°53'10"
0423249988 61430	07 P106	Seneca Lake at Geneva Water Plant near Geneva	42°48'52" 76°57'24"
04232651 73653	07 1040	Seneca River at Waterloo	42°54'05" 76°51'46"
04232707 73654	07 1060 354301	Seneca River (Cayuga and Seneca Canal) at Seneca Falls	42°54'18" 76°49'34"
04232723 73655	07 P080	Seneca River (Van Cleef Lake) at Seneca Falls	42°54'54" 76°47'14"
04232730 61385	07 1090	Seneca River (Cayuga and Seneca Canal) near Seneca Falls	42°56'20" 76°45'42"
0423406011 68104	07 P113	Cayuga Lake at Myers	42°32'05" 76°32'56"
0423406084 61433	07 P111	Cayuga Lake near Canoga	42°50'49" 76°43'43"
042340613 61448	07 1130	Seneca River (Cayuga and Seneca Canal) at Free Bridge Corners	42°57'46" 76°44'17"
0423454444 61383	07 P120	Canandaigua Lake near Canadaigua	42°50'32" 77°16'42"
04235396 61382	07 P115	Owasco Lake near Auburn	42°53'56" 76°32'17"
04235730 73652	07 1150	Seneca River near Weedsport	43°04'14" 76°33'25"
04237500 54102	07 1020 A	Seneca River at Baldwinsville	43°09'24" 76°19'58"
04240300 68096	07 4401	Ninemile Creek at Syracuse	43°04'50" 76°13'36"
04240500 68100	07 2400	Onondaga Lake Outlet at Long Branch	43°07'01" 76°14'44"
04240540 68101	07 1361	Seneca River at Belgium	43°10'15" 76°16'06"
04242730 68097	07 3405	Fish Creek at Fish Creek Landing	43°13'16" 75°42'06"
04243535 68098	07 3404	Oneida Creek at South Bay	43°09'51" 75°44'14"
04245500 68099	07 3403	Chittenango Creek at Bridgeport	43°09'18" 75°58'18"
04246000 68102	07 1231	Oneida Lake (Oneida River) at Brewerton	43°14'25" 76°08'28"
04247080 61446	07 0200	Oswego River at Hinmansville	43°14'54" 76°21'06"
04249000 61447	07 0180	Oswego River at Oswego	43°27'26" 76°31'06"

A Additional water-quality data in this report.

☆U.S. GOVERNMENT PRINTING OFFICE: 1975-617-402/87-76 (2-11)

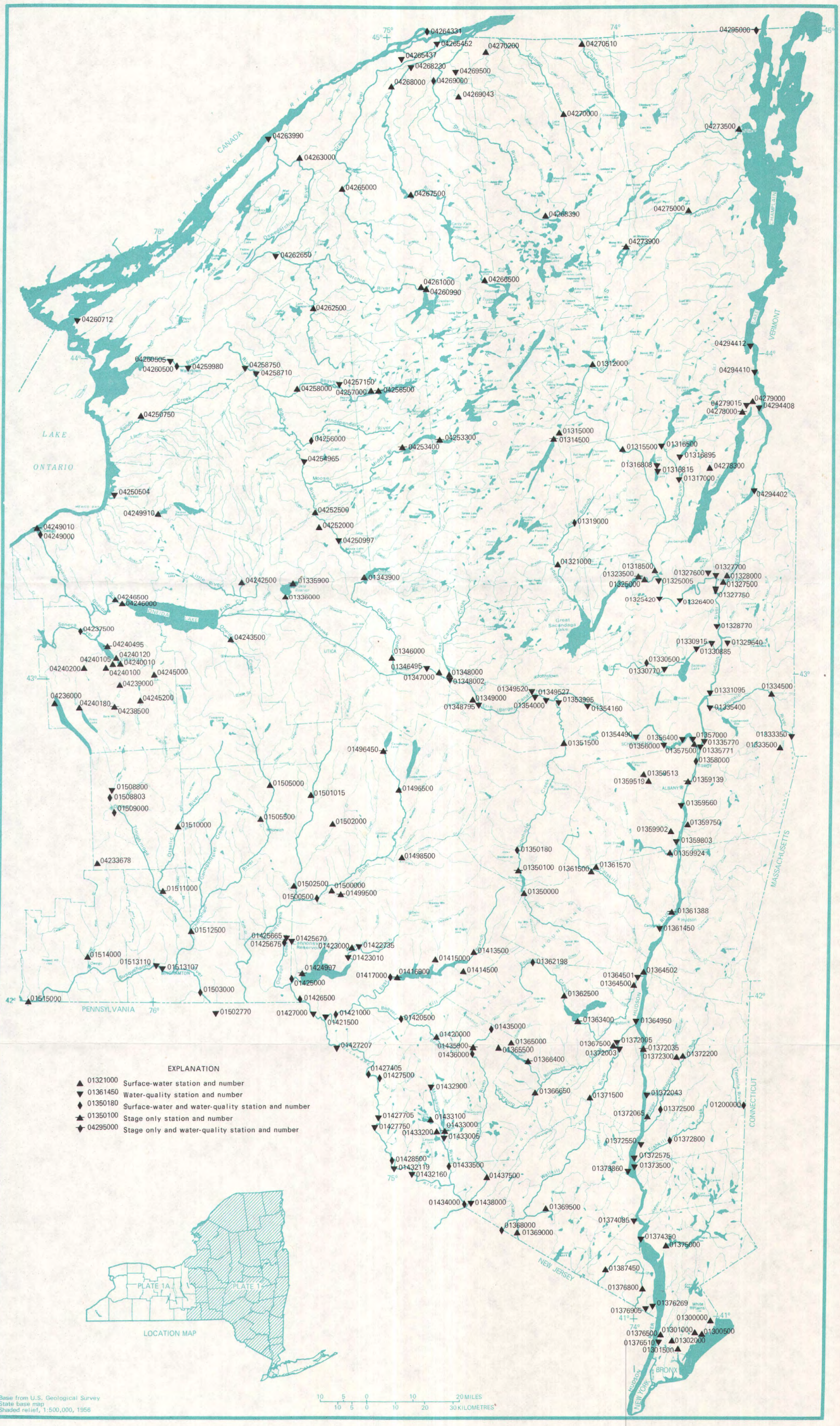

PLATE 1.--LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS

PLATE 1A.--LOCATION OF SURFACE-WATER STATIONS AND WATER-QUALITY STATIONS

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
343 U.S. Post Office and Courthouse
P. O. Box 1350
Albany, New York 12201