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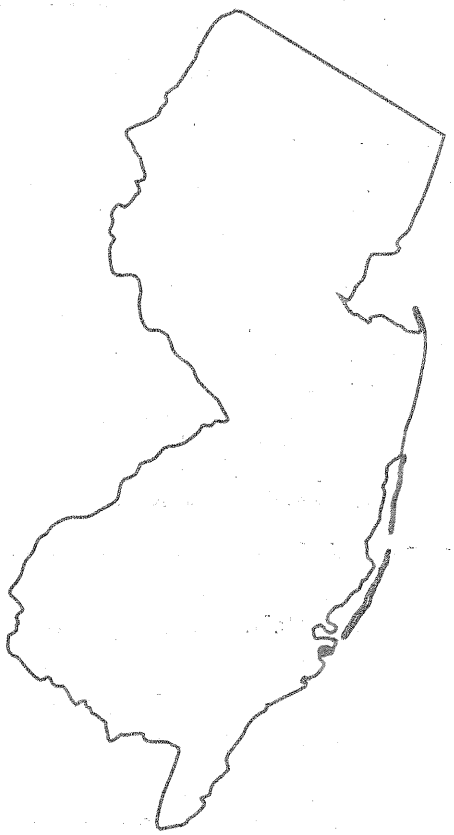
Water Resources Data New Jersey Water Year 2000

Volume 3. Water-Quality Data

Water-Data Report NJ-00-3



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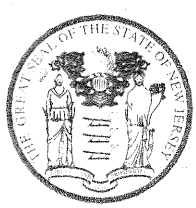

Prepared in cooperation with the
New Jersey Department of Environmental
Protection and with other agencies

CALENDAR FOR WATER YEAR 2000

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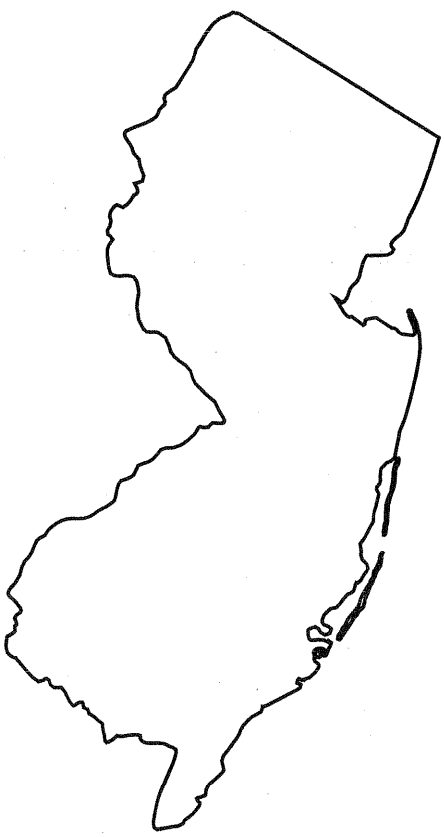
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data New Jersey Water Year 2000

Volume 3. Water-Quality Data

By M.J. DeLuca, G.L. Mattes, H.L. Burns, A.M. Thomas, B.J. Gray, H.A. Doyle.

Water-Data Report NJ-00-3



Prepared in cooperation with the New Jersey Department of Environmental Protection and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, *Secretary*

GEOLOGICAL SURVEY

Charles G. Groat, *Director*

For information on the water program in New Jersey write to

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Mountain View Office Park
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West Trenton, New Jersey 08628-1099

2000

United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Water Resources Division
Mountain View Office Park
810 Bear Tavern Road, Suite 206
West Trenton, New Jersey 08628

I am pleased to announce the release of our Annual report "Water Resources Data for New Jersey, Water Year 2000". This report was prepared by the U.S. Geological Survey, in cooperation with the State of New Jersey as well as many local and federal government agencies.

This report is again being published in three volumes:

Volume 1.--Surface-water streamflow data.

Volume 2.--Ground-water level data.

Volume 3 --Water-quality data.

This volume contains surface and ground water-quality data from the cooperative U.S. Geological Survey/ New Jersey Department of Environmental Protection Ambient Stream Monitoring Network (ASMN) and the Ambient Ground Water Quality Network (AGWQN), the Long Island-New Jersey Coastal Plain and Delaware River Basin National Water Quality Assessments (NAWQA) and New Jersey sites in the Landscape Indicators for Pesticides Mid-Atlantic Coastal Streams NAWQA study.

New to the Report this year are 2-5 day surveys of Temperature, Dissolved Oxygen, pH, and Specific Conductance from 15 ASMN stations and 2-3 month surveys of temperature from 23 Delaware River Basin NAWQA sites.

The New Jersey District of the U.S. Geological Survey has made a home page available on the world wide web. Real-time data for more than 30 stream-gaging stations around the State, peak-flow files for many gaging stations, ground-water level data, water-quality data, monthly hydrologic conditions and links to other sites of interest may be accessed.This information is available at:

http://nj.usgs.gov/

Copies of this report in paper or microfiche are for sale through the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. Data can also be provided by file transfer (ftp), or on floppy disk. When ordering, refer to U.S. Geological Survey Water-Data Report NJ-00-1 (for Volume 1), NJ-00-2 (for Volume 2), or NJ-00-3 (for Volume 3). For further information on this report, or to change or remove your address from our mailing list, please contact me at the above address, telephone (609) 771-3980, or send e-mail to wbauers@usgs.gov.

Sincerely,

William R. Bauersfeld

William R. Bauersfeld, Chief
Hydrologic Data Assessment Program

PREFACE

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

Hydrologic data for New Jersey are contained in 3 volumes:

Volume 1. Surface-Water Data
Volume 2. Ground-Water Data
Volume 3. Water-Quality Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines. The following individuals contributed significantly to the completion of the report.

Jacob Gibs Robert D. Schopp

Word processing of the report was done by H.L.Burns and A.M.Thomas, with technical support from M.D. Morgan. W.H. Ellis, J.P. Nawyn, G.L. Simpson, and D.K. Sun drafted the illustrations.

The data were collected, computed, and processed by the following personnel:

M.A. Ayers	V. Corcino, Jr.	G. Holzer	K. Murray	E.A. Pustay	G. Steckroat
M. Bilger	J.F. Dudek	J. Irvin	T. Oden	J. Rauth	
B. Boehlert	P. Dunne	W.D. Jones	K. Orlick	T.J. Reed	
R. Brightbill	J. Fischer	J. Klotz	R. Owre	R.G. Reiser	
G.A. Brown	K.L. Hibbs	P.J. Lacombe	E. Pritchett	K.M.Romanok	
G.L. Centinaro	R. Hickman	G.R. Long	A. Protz	A. Spehar	

Some data were collected by the following N.J. Department of Environmental Protection personnel:

A.A. Altieri	R.F. Fenton	C. Kunz	J.R. Specht
P. Burt	J. Janda	R. Maruska	

This report was prepared in cooperation with the State of New Jersey and with other agencies under the general supervision of William R. Bauersfeld, Chief of the Hydrologic Data Assessment Program; under the general supervision of David A. Stedfast, Associate District Chief; Eric Evenson, District Chief, New Jersey; and William J. Carswell, Jr., Regional Hydrologist, Northeastern Region.

REPORT DOCUMENTATION PAGE

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12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2000 water year for New Jersey are presented in three volumes, and consists of records of stage, discharge, and quality of streams; stage and contents of lakes and reservoirs; and levels and quality of ground water. Volume 3 contains a summary of surface and ground water hydrologic conditions for the 2000 water year, a listing of current water-resource projects in New Jersey, a bibliography of water-related reports, articles, and facts sheets for New Jersey completed by the Geological Survey in recent years, water-quality records of chemical analyses from 125 continuing-record surface-water stations, 62 miscellaneous surface-water sites, 73 ground-water sites, and records of daily statistics of temperature and other physical measurements from 45 continuous-recording stations. Locations of water-quality stations are shown in figures 18-20. Locations of miscellaneous water-quality sites are shown in figures 11 and 42-49. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating Federal, State, and local agencies in New Jersey.

14. SUBJECT TERMS
New Jersey, hydrologic conditions, hydrologic data, surface-water analysis, ground-water analysis, streambed-material analysis, suspended-sediment concentration, continuing-record station, continuous-recording station, miscellaneous sampling site.

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ILLUSTRATIONS--Continued

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TABLES

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

Note.--Data for miscellaneous sites for surface-water quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letter after station name designates type of data: (c) general chemical, (m) microbiological, (s) suspended sediment, (t) water temperature, (w) whole-water-recoverable metals, (v) volatile organic compounds, (p) pesticide, (b) biota, (h) bed material, (WMA #) NJDEP watershed management area.]

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME -- Continued

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME -- Continued

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME -- Continued

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS

The following stations have been discontinued as continuous water-quality stations. Daily records of temperature, specific conductance, pH, dissolved oxygen, turbidity or sediment were collected and published for the period of record shown for each station.

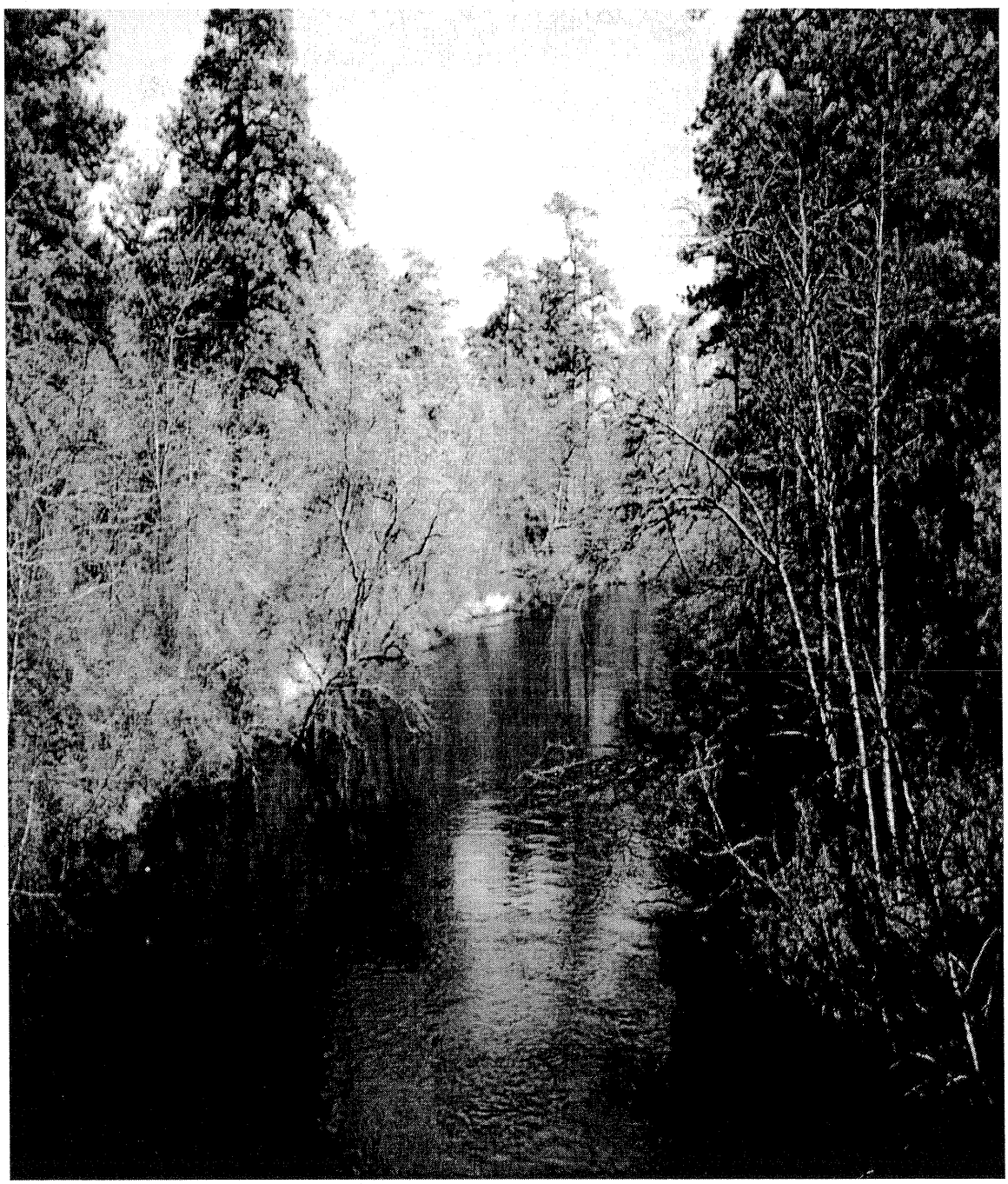
Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Passaic River near Chatham, NJ	01379500	100	Sed.	1964-68
			Temp.	1967-68
Green Pond Brook at Picatinny Arsenal, NJ	01379773	7.65	Temp., S.C., pH, D.O.	1984-86
Green Pond Brook at Wharton, NJ	01379790*	12.6	Temp., S.C., pH, D.O.	1984-85
Passaic River at Two Bridges, NJ	01382000	361	Temp.,	1963-74
			S.C., pH, D.O.	1969-74
Wanaque River at Wanaque, NJ	01387000	90.4	Temp.	1964-80
Ramapo River near Mahwah, NJ	01387500	118	Sed.	1964-65
Pompton River near Two Bridges, NJ	01389000	372	Temp., S.C., pH, D.O.	1969-74
Passaic River at Little Falls, NJ	01389500	762	Sed.	1964-65
			Temp., S.C.	1981-86
South Branch Raritan River near High Bridge, NJ	01396500	65.3	Temp.	1961-79
			S.C.	1969-79
Spruce Run at Clinton, NJ	01396800	41.3	Temp.	1969, 1971-80
South Branch Raritan River at Stanton, NJ	01397000	147	Temp., S.C.	1969-79
			Sed.	1960-63
South Branch Rockaway Creek at Whitehouse, NJ	01399690	13.2	Temp., S.C.	1977-78
			Sed.	1977
Rockaway Creek at Whitehouse, NJ	01399700	37.1	Temp., S.C.	1977-78
Raritan River near Manville, NJ	01400510	497	Temp., S.C., pH, D.O.	1968-74
Baldwins Creek at Baldwin Lake, near Pennington, NJ	01400932	2.52	Temp.	1963-66
			Sed.	1963-69
Stony Brook at Princeton, NJ	01401000	44.5	Temp.	1957-70
			Sed.	1960-70
Millstone River near Manville, NJ	01402900	287	Temp., S.C., pH, D.O.	1968-74
Raritan River near South Bound Brook, NJ	01404100	862	Temp., S.C., pH, D.O.	1969-77
Manasquan River at Squankum, NJ	01408000	44	Temp., S.C., pH, D.O.	1969-74
Toms River near Toms River, NJ	01408500	123	Temp.,	1964-66, 1975-81
			S.C.	1975-81
Oyster Creek near Brookville, NJ	01409095	7.43	Temp., D.O.	1975-76
			S.C., pH	1975-77
West Branch Wading River near Jenkins, NJ	01409810	84.1	Temp., S.C.	1978-81
Great Egg Harbor River trib. at Sicklerville, NJ	01410787	1.64	Sed.	1974-78
Fourmile Branch at New Brooklyn, NJ	01410810	7.74	Sed.	1974-78
Great Egg Harbor River at Folsom, NJ	01411000	57.1	Temp.	1961-75, 1977-80
			S.C.	1969-75, 1977-80
			Sed.	1966-70, 1979
Delaware Bay at Ship John Shoal Lighthouse, NJ	01412350	---	Temp.	1970-86
Maurice River at Norma, NJ	01411500	112.0	Temp.	1967-68, 1980-87, 1993-94
			S.C.	1980-87, 1993-94
			pH	1993-94
			Sed.	1965-68
Delaware River near Delaware Water Gap, Pa.	01440200	3850	Sed.	1964-65, 1972
Delaware River at Dunnfield, NJ	01442750	4150	Temp.	1967-76
			Sed.	1966-76
Delaware and Raritan Canal Feeder at Raven Rock, NJ	01460300		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Lower Ferry Road at Trenton, NJ	01460400		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Port Mercer, NJ	01460440		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Griggstown, NJ	01460530		Temp., S.C., Turb.	1998-99

* Unpublished records are available in the files of the District office.

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Delaware and Raritan Canal Feeder at Ten Mile Lock near Manville, NJ	01460565		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at New Brunswick, NJ	01460530		Temp., S.C., Turb.	1998-99
Delaware River at Trenton, NJ	01463500	6780	Sed.	1949-82
Delaware River at Marine Terminal, at Trenton, NJ	01464040	6870	Temp., S.C.	1973-76
Crosswicks Creek near Extonville, NJ	01464500	81.5	Temp.	1967-70
			Sed.	1965-70
McDonalds Branch in Lebanon State Forest, NJ	01466500	2.35	Temp.	1960-92
			S.C.	1968-92
			pH, D.O.	1984-92
Rancocas Creek at Willingboro, NJ	01467016	315	Temp., S.C.,	1969-74
			D.O.	1970-72
			pH	1970-74
Cooper River at Haddonfield, NJ	01467150	17.0	Temp., Sed.	1968-69
Raccoon Creek near Swedesboro, NJ	01477120	26.9	Temp.	1966-73
			Sed.	1966-69

Type of record: Temp. (temperature), S.C. (specific conductance), pH (pH), D.O. (dissolved oxygen), Sed. (sediment), Turb. (turbidity)



01408500 Toms River near Toms River
Watershed Integrator Station
Ambient Stream Monitoring Network

(File photograph, U.S. Geological Survey, West Trenton, New Jersey)

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with Federal, State, and local agencies, collects a large amount of data pertaining to the water resources of New Jersey each water year. These data, accumulated over many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series, titled "Water Resources Data-New Jersey."

This report series includes records of stage, discharge, and quality of streams; stage, contents, and quality of lakes and reservoirs; and levels and quality of ground water. This volume contains water-quality records of chemical analyses from 125 continuing-record surface-water stations (figs. 18-20), and 3 continuous-recording surface-water stations. Additional water-quality data were collected at various sites that are not part of the systematic data collection program. Data were collected at 62 miscellaneous surface-water sites, 73 ground-water sites, and 42 continuous-recording sites (figs. 11 and 42-49). The data in this report represent that part of the National Water Information System (NWIS) data collected by the USGS and cooperating Federal, State, and local agencies in New Jersey.

This series of annual reports for New Jersey began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. For water years 1975 through 1989, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels. Beginning with the 1977 water year, these data were published in two volumes based on drainage basins. Beginning with the 1990 water year, the format was changed to include all surface-water discharge and surface-water quality records in Volume 1 and all ground-water level and ground-water quality records in Volume 2.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for New Jersey were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Part 1B." For water years 1961 through 1970, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for water years 1941 through 1970 were published annually under the title "Quality of Surface Waters of the United States," and water levels for water years 1935 through 1974 were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers can be consulted in the libraries of the principal cities of the United States and can be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, CO 80225-0286, (303) 202-4610.

Publications similar to this report are produced annually by the USGS for all States. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NJ-99-3." For archiving and general distribution purposes, the reports for water years 1971 through 1974 also are identified as water-data reports. Water-data reports are available for purchase in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports can be obtained from the District Chief, USGS, New Jersey District, at the address given on the back of the title page of this report or by telephone ((609) 771-3900).

COOPERATION

The U.S. Geological Survey and agencies of the State of New Jersey have had joint-funding agreements for the collection of water-resource records since 1921. Organizations that assisted in collecting the data in this report through joint-funding agreements with the USGS are--

New Jersey Department of Environmental Protection, Robert C. Shinn, Jr., Commissioner

North Jersey District Water Supply Commission, Jerry Notte, General Manager

Passaic Valley Water Commission, Joseph A. Bella, Executive Director

Pinelands Commission, Annette M. Barbaccia, Executive Director

Delaware River Basin Commission, Carol R. Collier, Executive Director

New Jersey Water Supply Authority, Thomas Baxter, Executive Director

Funding assistance was provided by the U.S. Army Corps of Engineers (Philadelphia District)

The New Jersey Department of Environmental Protection aided in collecting records.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water Quality

Water year 2000 was marked by generally normal amounts of rainfall and stream discharge with noticeable increases in the late summer months. Monthly total precipitation was greater than long-term (1961-90) mean monthly precipitation during June through September at the Newark and Atlantic City National Weather Service stations and during August and September at the Trenton station (fig. 1). All monthly mean discharges at the three stream-discharge index stations, South Branch Raritan River at High Bridge, Great Egg Harbor River at Folsom, and Delaware River at Trenton, were within the range of historical (period of record prior to 2000 water year) maximum and minimum monthly mean values (fig. 2). Monthly mean discharge was greater than long-term (1960-90) median monthly values during June to August at the High Bridge station, August and September at Folsom, and March to September at Trenton.

Specific conductance (SC) is often used as an indicator of the concentration of dissolved solids. It is generally inversely related to stream discharge. The maximum monthly mean SC value for water year 2000 at the continuous monitoring station on the Delaware River at Trenton was recorded for September (fig. 3). The lowest monthly mean stream discharge for the year also was in September. The minimum monthly mean SC and the maximum monthly mean discharge were in March. Monthly mean SC values were lower than long-term (1968-99) mean monthly SC values during March to August when stream discharges were greater than long-term (1961-90) median monthly discharges. Monthly mean SC values were greater than long-term mean monthly SC values during November, January, and February when stream discharges were less than long-term median monthly discharges. All monthly mean SC values were within the range of historical (1968-99) maximum and minimum monthly mean SC values.

The monthly mean water-temperature values for the continuous monitoring station on the Delaware River at Trenton for water year 2000 were within the range of historical (1968-99) maximum and minimum monthly mean values (fig. 4). Monthly mean values recorded in November, December, January, and March were greater than long-term (1968-99) mean monthly values and were a result of unseasonably warm air temperatures during the winter season. According to the Northeast Regional Climate Center of Cornell University in Climate Impacts, the Northeast region continued a trend of warmer-than-normal months from December to March. The exception occurred during late January to early February when temperatures changed abruptly, averaging about 8 to 10 degrees below normal. Monthly mean values recorded in June through September were less than long-term mean monthly values and were caused by unseasonably cool spring and summer seasons. According to Climate Impacts-July 2000, in New Jersey, July 2000 was the second coolest July of record (1895-1999), with a statewide monthly average air temperature of 70.9°F (21.6°C).

Dissolved oxygen (DO) concentration generally exhibits an inverse relation to water temperature. As water temperature decreases, oxygen concentration increases; as water temperature increases, oxygen concentration decreases. DO, therefore, varies seasonally; yearly maximums occur in winter and yearly minimums occur in summer. Occasionally water clarity, sunlight variations, and algal photosynthesis and respiration rates affect the temperature-DO relation; extremes of DO concentration can occur irrespective of temperature extremes. The monthly medians of daily maximum and minimum DO concentrations at the continuous monitoring station on the Delaware River at Trenton for the 2000 water year were within the range of historical (1968-99) extreme monthly median values (fig. 5). The highest monthly median of the daily maximum DO concentrations, 15.2 milligrams per liter (mg/L), and the year's lowest monthly mean water temperature of 1.6°C, were recorded in February. The lowest monthly median of the daily minimum DO concentrations, 8.0 mg/L, was recorded in July and September; the year's highest monthly mean water temperature of 24.1°C was recorded in July.

Water-Column Nutrients and Common Ions in, and Physical Characteristics of, New Jersey Streams

Analyses for water-phase concentrations of total and filtered nutrients, filtered common ions, and biochemical oxygen demand (BOD) were performed on surface-water samples from 107 sites in the U.S. Geological Survey (USGS)/New Jersey Department of Environmental Protection (NJDEP) Cooperative Ambient Stream Monitoring Network (ASMN). Samples were collected at each site four times a year -- November to December, February to March, May to June, and August to September. Sites were classified in five categories. Six Background sites were located in undisturbed areas. Twenty-two Watershed Integrator sites were located at the farthest downstream point, not affected by tide, in one of the large drainage basins in each of the twenty watershed management areas, except areas 9 and 16. These sites reflected the cumulative effects of various land uses and point-source discharges. Each Land Use Indicator site monitored the effects of one of four designated land uses (undeveloped, agriculture, mixed, and urban) that occurred in each watershed management area. Ten of the Land Use Indicator sites were designated agriculture, 5 mixed, 13 undeveloped, and 13 urban. Statewide Status sites represented a randomly selected population of New Jersey streams; two sites were selected in each of the 20 watershed management areas. Seven of the Statewide Status sites were located at existing Watershed Integrator or Land Use Indicator sites. The Delaware River Main Stem category consisted of five sites. Water-column samples were collected at each site to assess water-quality constituents that might have been used as environmental indicators statewide. In addition to the regularly scheduled sampling, a Watershed Reconnaissance study is conducted annually to meet specific project needs. The purpose of the Watershed Reconnaissance study in water year 2000 was to assess 2-to-5-day diurnal dissolved oxygen levels at a subset of the network sites. This is discussed further in the section Ambient Stream Monitoring Network Reconnaissance Study.

Distributions of water temperature and concentrations of constituents measured in water-column samples collected during water year 2000 are presented in figures 6a and 6b as a function of site category, excluding the Delaware River Main Stem site category. Plots are presented for dissolved oxygen in percent of saturation during the growing season (April through October), water temperature, silica in filtered water, total ammonia, nitrite plus nitrate in filtered water, total nitrogen, total phosphorus, BOD, total dissolved solids (parameter code 70300), and filtered organic carbon. The analyzing laboratory used two different methods and reporting conventions for establishing the minimum concentration above which a quantitative measurement can be made. These reporting conventions were minimum reporting level (MRL) and laboratory reporting level (LRL). LRL was computed as twice the long term method detection level (LT-MDL). Values reported by the analyzing laboratory as less than the MRL or LRL were included in each distribution but were reported as a value equal to one-half the MRL or LT-MDL.

The lowest medians for water temperature, BOD, and concentrations of silica and total dissolved solids (TDS) were recorded at Background sites. The median values of silica in filtered water for all site types ranged from 5 to 9.2 milligrams per liter (mg/L). Samples from Statewide Status sites, which represent a random population of New Jersey streams, had a median silica concentration of 8.1 mg/L. Streams affected by wastewater and road salt runoff are likely to have high levels of TDS; samples from urban and Watershed Integrator sites had the highest median concentrations. In contrast, samples from Background sites had the lowest median TDS concentrations.

Box plots for the nutrient species (filtered ammonia, filtered nitrite plus nitrate, total nitrogen, and total phosphorus) seem to indicate that human activities are the greatest contributors to measurable nutrient levels in streams (fig. 6b). The highest median concentrations of ammonia and phosphorus were measured in samples from agricultural land use, urban land use, and Watershed Integrator site types, and most likely resulted from private, industrial, and municipal sewage; animal waste; and chemical fertilizers. As expected, samples from Background sites had the smallest range of concentrations and the lowest median concentrations.

The range of median concentrations of filtered organic carbon in samples from New Jersey streams historically has been from 4.0 to 5.0 mg/L. Median values measured in samples during water year 2000 ranged from 2.6 to 4.9 mg/L at all seven site types. Some undeveloped sites were located on streams that drained swamps and wetlands. Therefore, samples from undeveloped sites had the largest range of filtered organic carbon concentration, 1.25 to 30.41 mg/L, and the highest median concentration and highest value of all site types.

Trace Elements, Volatile Organic Compounds, and Organic Pesticides in New Jersey Streams

The presence of trace elements, volatile organic compounds (VOCs), and pesticides in New Jersey streams continued to be of great interest to water-resource managers and the public in general. The USGS/NJDEP ASMN has demonstrated that many of these trace elements and organic compounds were present under ambient conditions in many New Jersey streams but at low concentrations.

Concentrations and frequencies of detection of selected whole-water recoverable trace elements, VOCs, and pesticides in samples from Background and Statewide Status sites are presented in figures 7a, 8, and 9, and tables 1, 2a, and 2b. Selected whole-water-recoverable and filtered trace elements with a high percentage of detections in samples (greater than 75 percent) are presented in box plots (fig. 7b). Constituents with a lower percentage of detections in samples are presented in scatter plots (fig. 7a). A detected compound is one whose value is reported to be greater than or equal to the laboratory's MRL. Estimated values, which were determined to be greater than the LT-MDL but less than the LRL, were included in the data for the scatter plots. They were marked with an "E" in the water-quality tables. Refer to "Laboratory Measurements" in the Introduction for additional information about estimated concentrations. Values reported by the analyzing laboratory as less than the MRL or LRL were included in the box plot distributions but were reported as a value equal to one-half the MRL or LT-MDL. The six Background sites were located in relatively pristine areas of New Jersey, such as state forests or national parks. Water-quality data from these sites constitute a baseline with which to compare the water quality of other sites. The 40 randomly chosen Statewide Status sites provide a general overview of the water quality in the state and the aerial distribution of those compounds. Samples analyzed for trace elements, VOCs, and pesticides were collected when the compounds were most likely to have been detected, during August and September, February and March, and May and June, respectively. Boron in filtered water was analyzed for in samples collected throughout the 2000 water year from all 107 sites in the ASMN. Data from the five Delaware River Main Stem sites were excluded from the distribution of boron in filtered water in figure 7b.

Concentrations and frequencies of detection of selected whole-water-recoverable trace elements in samples from New Jersey streams are shown in figure 7a. Beryllium, cadmium, mercury, selenium, and silver were not detected in any sample and so were not included in the figure. Data from the Background sites indicated infrequent detection and, when detected, low concentrations of trace elements. Of the six trace elements presented, chromium was detected twice; arsenic, boron, copper, and nickel were detected once; and lead was not detected in samples from Background sites. In contrast, these trace elements were detected in greater concentrations and frequencies in samples from Statewide Status sites.

Distributions of selected whole-water-recoverable and filtered trace elements in samples from selected sites in the ASMN are shown in figure 7b. Barium and manganese were detected in concentrations greater than the reporting limits in all 46 samples. Iron was detected in concentrations greater than the LRL in all but 2 of the 46 samples. Zinc was detected at greater than the MRL in all but 4 of the 46 samples, and filtered boron was detected at greater than the LRL in all but 32 of the 433 samples. Concentrations of boron in filtered water could result from human activities; samples from urban land-use sites had the highest median concentra-

tion and the highest single value. The median concentrations of boron in filtered water, whole-water-recoverable barium, iron, manganese, and zinc were lower in samples from Background sites than in samples from Statewide Status sites.

Concentrations and frequencies of detection of VOCs detected in samples from New Jersey streams are shown in figure 8 (those detected more than once) and are listed in table 1 (those detected only once). Samples were analyzed for the presence of 34 VOCs in each of 45 samples. Refer to individual station records to view concentrations from all 34 compounds in table form. Of the 14 compounds detected, only 2, chloroform and methyl tert-butyl ether (MTBE), were detected at low concentrations in samples from Background sites. The most frequently detected VOC, MTBE, was detected in 60 percent of all samples. The next most frequently detected VOC, Chloroform, was detected in 20 percent of all samples. VOCs are synthetic chlorinated compounds that are used as industrial solvents and degreasers; household and dry-cleaning agents; additives in paint, varnish, and adhesives; and components of, and additives to, gasoline.

Concentrations and frequencies of detection of organic pesticides in samples of filtered water from New Jersey streams are shown in figure 9 (those detected more than once) and listed in tables 2a (those with estimated concentrations) and 2b (those detected only once). Forty-seven compounds were analyzed for using USGS National Water Quality Laboratory schedule 2001; refer to "Laboratory Measurements" in the Introduction for the complete list. Twenty-four pesticides were detected in samples from Statewide Status sites and four in samples from Statewide Status and Background sites. Five of the detected compounds were insecticides-- Diazinon, Carbaryl, Carbofuran, Dieldrin, and Malathion. The remaining compounds were herbicides. The pesticides most frequently detected in the 45 samples collected were Metolachlor and Atrazine, which were detected in 87 percent of the samples; Deethylatrazine, in 80 percent; Prometon, in 60 percent; Simazine, in 51 percent; and Carbaryl, in 44 percent. Four widely used herbicides (Metolachlor, Atrazine, Deethylatrazine, and Prometon) were detected in samples from one or more Background sites; no insecticides were detected in samples from Background sites. One or more pesticides were detected in 36 of 39 samples (92 percent) from Statewide Status sites. One or more pesticides were detected in three of six samples (50 percent) from Background sites. The pesticides that were frequently detected in samples from throughout the State were present in low concentrations.

Ambient Stream Monitoring Network Reconnaissance Study

Field characteristics and concentrations of constituents in surface water monitored continuously at 18 selected stations during August or September 2000 are presented in figures 10a and 10b. The 18 stations included 12 stations in the Ambient Stream Monitoring Network, 3 continuous water-quality monitoring stations, and 3 miscellaneous sites. The monitors at the continuous water-quality monitoring stations are permanent installations. The other 15 stations had temporary installations in place for 2 to 5 days. Monitoring took place during the late summer months. The study was intended to observe incidents of base-flow extremes of water temperature and percent of oxygen saturation and to document the occurrence and magnitude of diurnal dissolved oxygen fluctuations that cannot be observed during normal site visits between 8a.m. and noon. Of the 12 ASMN sites, 6 were Background sites, 3 were Land Use Indicator sites, and 3 were Watershed Integrator sites. Data from Background sites were needed to understand fluctuations of diurnal dissolved oxygen (DO) in pristine watersheds and to compare with data from other sites. The Land Use Indicator, Watershed Integrator, and miscellaneous sites were chosen on the basis of historical DO super-saturation (greater than 120 percent of saturation) or low DO (less than 60 percent of saturation).

Temperatures at the Background sites typically were lower than at other sites because of their locations in forested watersheds. The DO concentrations at the Background sites were greater than 6 mg/L, except at site 01466500, McDonald's Branch in Lebanon State Forest. This site is recharged by ground water that typically has low concentrations of DO. The minimum DO values at the other sites ranged from 4.0 to 8.6 mg/L. The maximum values ranged from 4.5 to 11.3 mg/L. Three sites exhibited minimum percent of DO saturation values less than 60 percent-- Background site 0146500, McDonald's Branch in Lebanon State Forest; Miscellaneous site 01379000, Passaic River near Millington; and agriculture Land Use Indicator site 01464515, Doctors Creek at Allentown. They historically have had low DO values during routine sampling visits. Three sites exhibited maximum percent of DO saturation values greater than 110 percent-- Watershed Integrator site 01398102, South Branch Raritan River at South Branch; undeveloped Land Use Indicator site 01440000, Flat brook at Flatbrookville; and Delaware River Main Stem site 01463500, Delaware River at Trenton. They historically have had high DO values.

Four sites-- 01378560, 01381800, 01391100, and 01391500-- had wide variation of minimum, mean, and maximum specific conductance (SC) measured during respective periods of record. These sites are different from those with extreme values (<60 percent and >110 percent) of percent of DO saturation. The lowest continuously monitored pH occurred at two Background sites, 01411955 and 01466500.

In addition to the summary of statistics in figures 10a and 10b, plots of field characteristics measured every half-hour for the period of record by the monitors at the 12 network sites are available in this volume. Refer to the individual station records for plots of DO concentration, percent of DO saturation, pH, specific conductance, and water temperature.

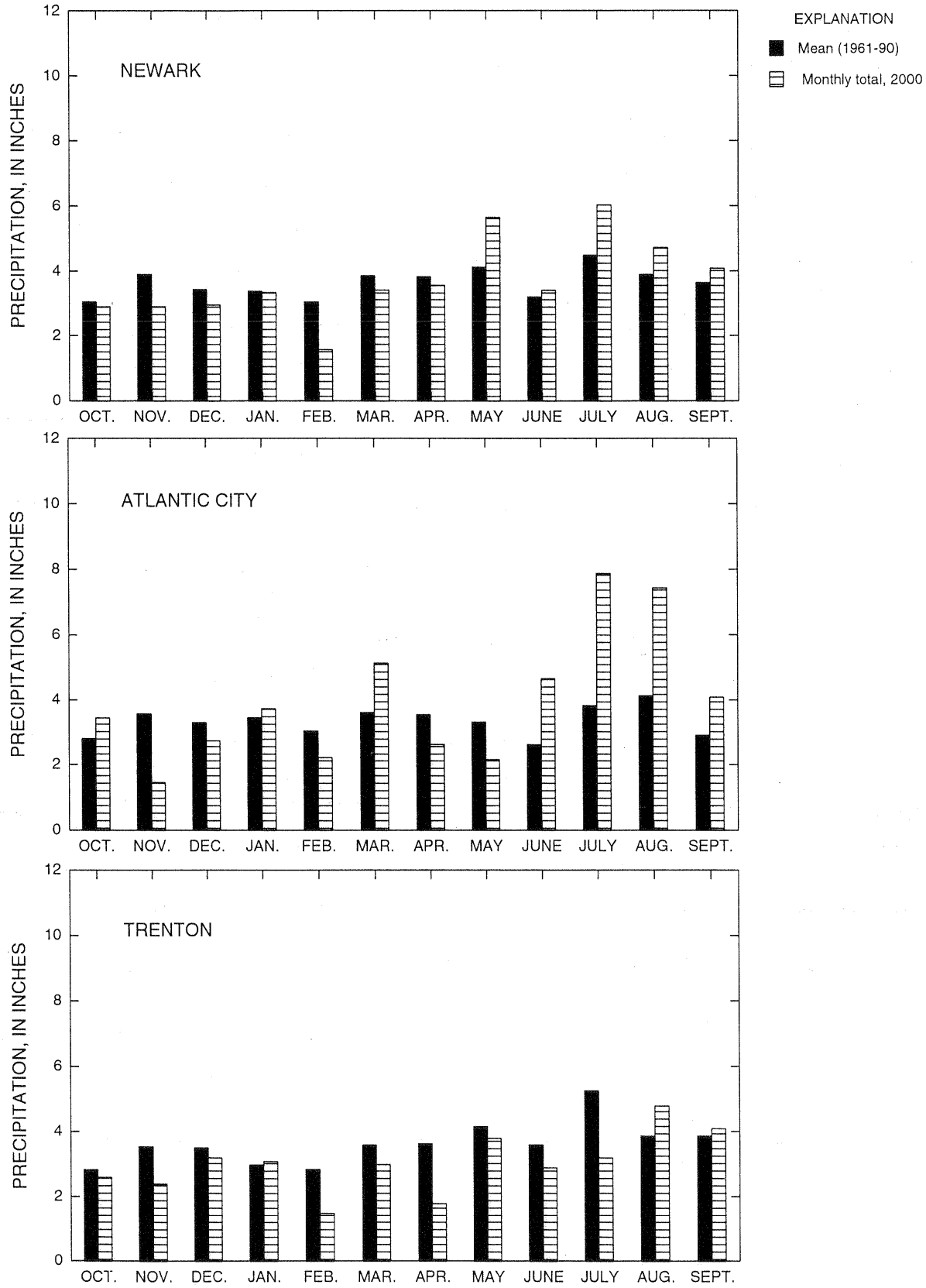
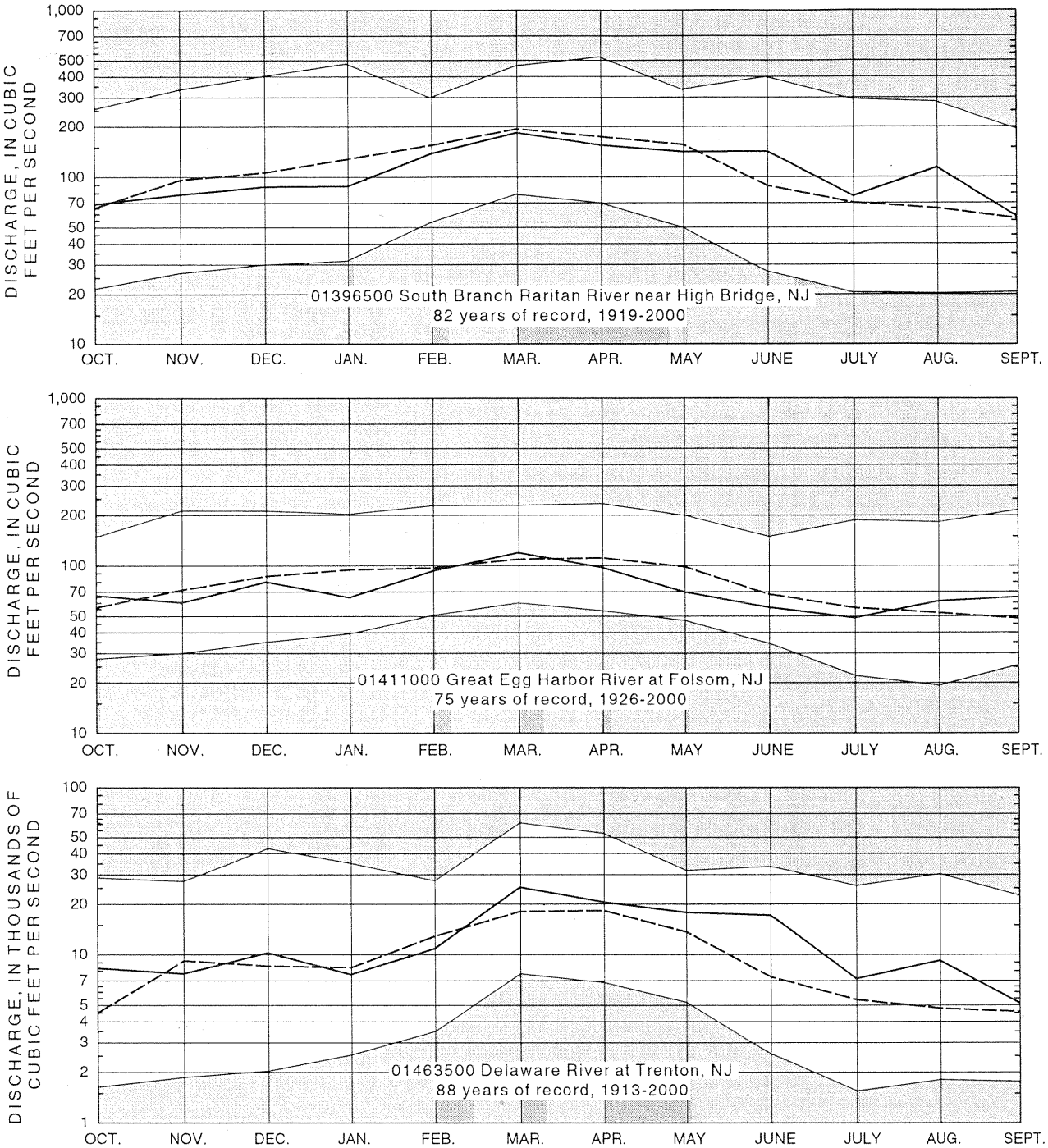


Figure 1. Monthly precipitation at three National Weather Service stations.



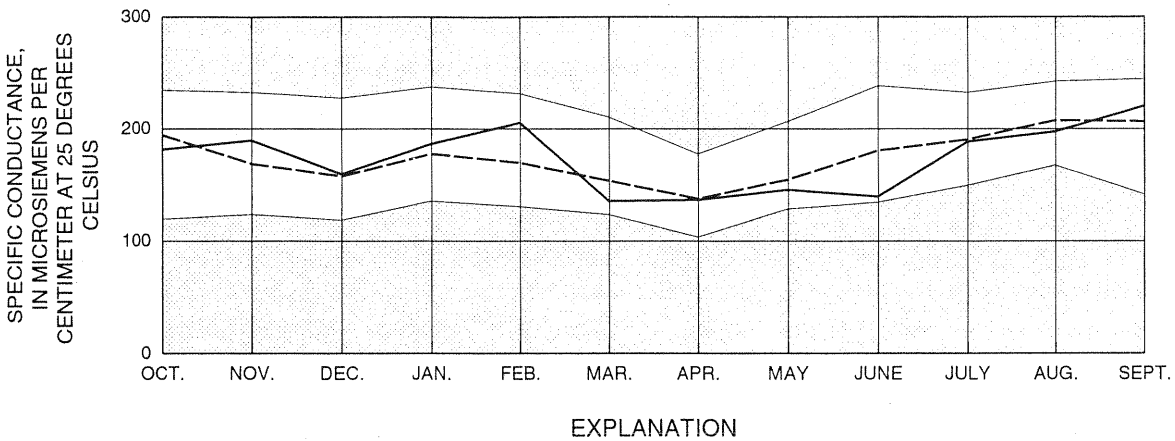
EXPLANATION

UNSHADED AREA--Indicates range between highest and lowest mean discharge recorded for the month, prior to 2000 water year

BROKEN LINE--Indicates normal discharge (median of the monthly means) for the standard reference period, 1961-90

SOLID LINE--Indicates observed monthly mean discharge for the 2000 water year

Figure 2. Monthly mean discharge at index gaging stations.



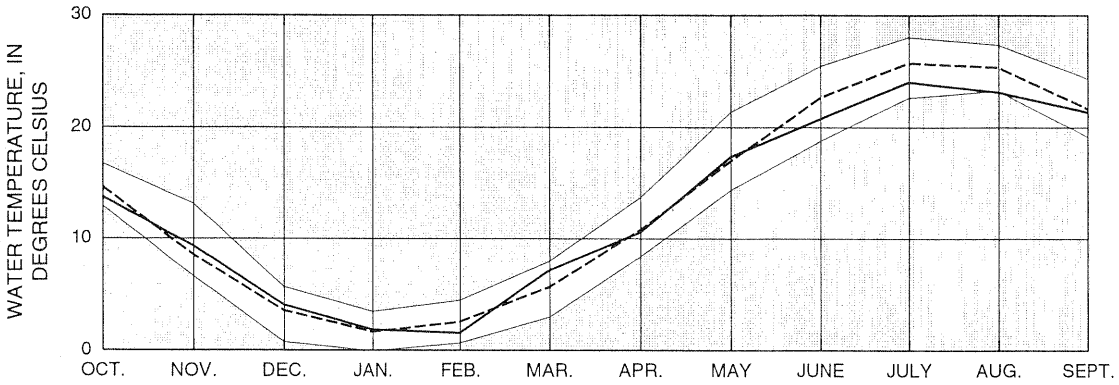
EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-99.

SOLID LINE--Indicates the monthly mean values for water year 2000.

BROKEN LINE--Indicates the mean monthly values for water years 1968-99.

Figure 3. Monthly mean specific conductance at Delaware River at Trenton, New Jersey.



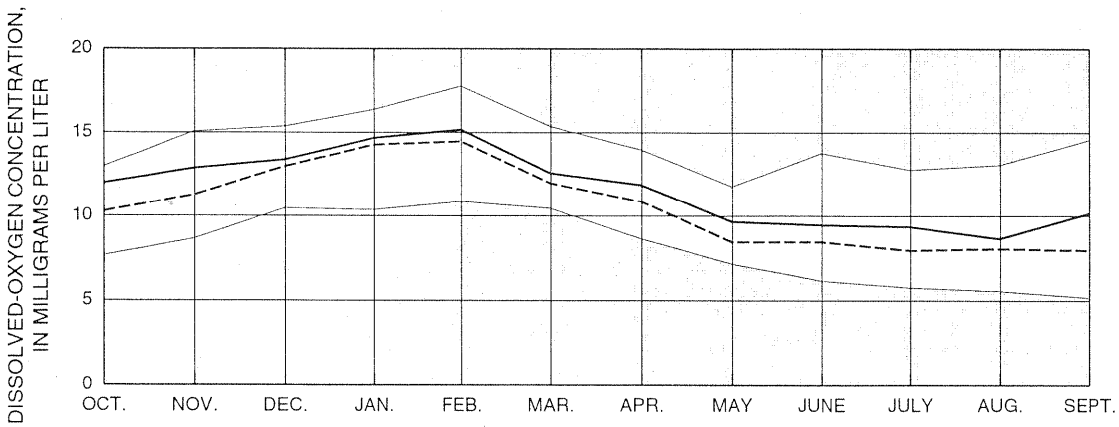
EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-99.

SOLID LINE--Indicates the monthly mean values for water year 2000.

BROKEN LINE--Indicates the mean monthly values for water years 1968-99.

Figure 4. Monthly mean water temperature at Delaware River at Trenton, New Jersey.



EXPLANATION

UNSHADED AREA--Indicates the range between the highest monthly median of daily maximum values and the lowest monthly median of daily minimum values, water years 1968-99.

SOLID LINE--Indicates the monthly median of daily maximum values for water year 2000.

BROKEN LINE--Indicates the monthly median of daily minimum values for water year 2000.

Figure 5. Monthly medians of daily maximum and minimum dissolved-oxygen concentrations at Delaware River at Trenton, New Jersey.

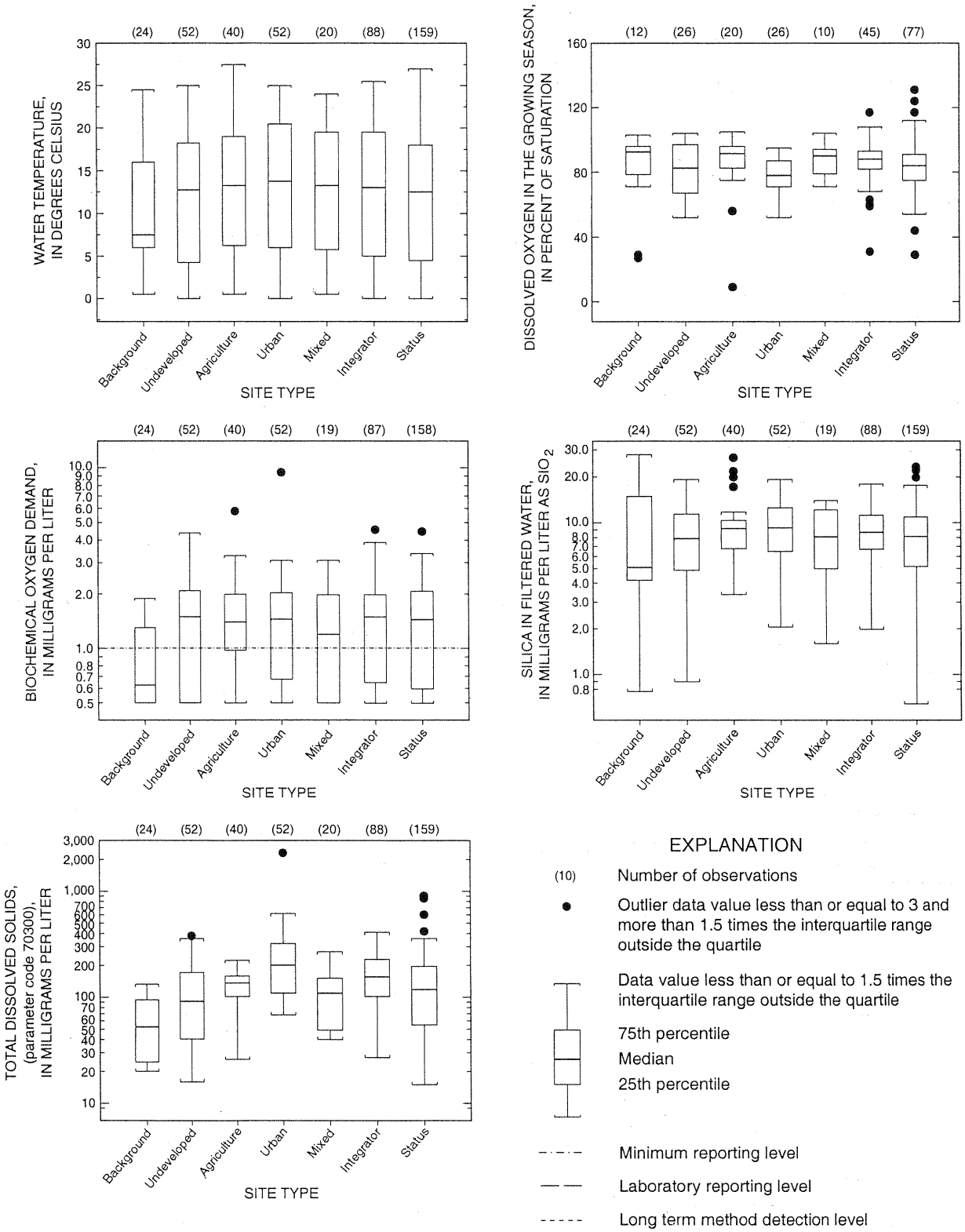


Figure 6a. Distribution of selected constituents in filtered and unfiltered surface water, and physical characteristics of surface water from 102 sites in the Ambient Stream Monitoring Network, water year 2000. ["Less-than" values are reported as equal to one-half the minimum reporting level or long term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

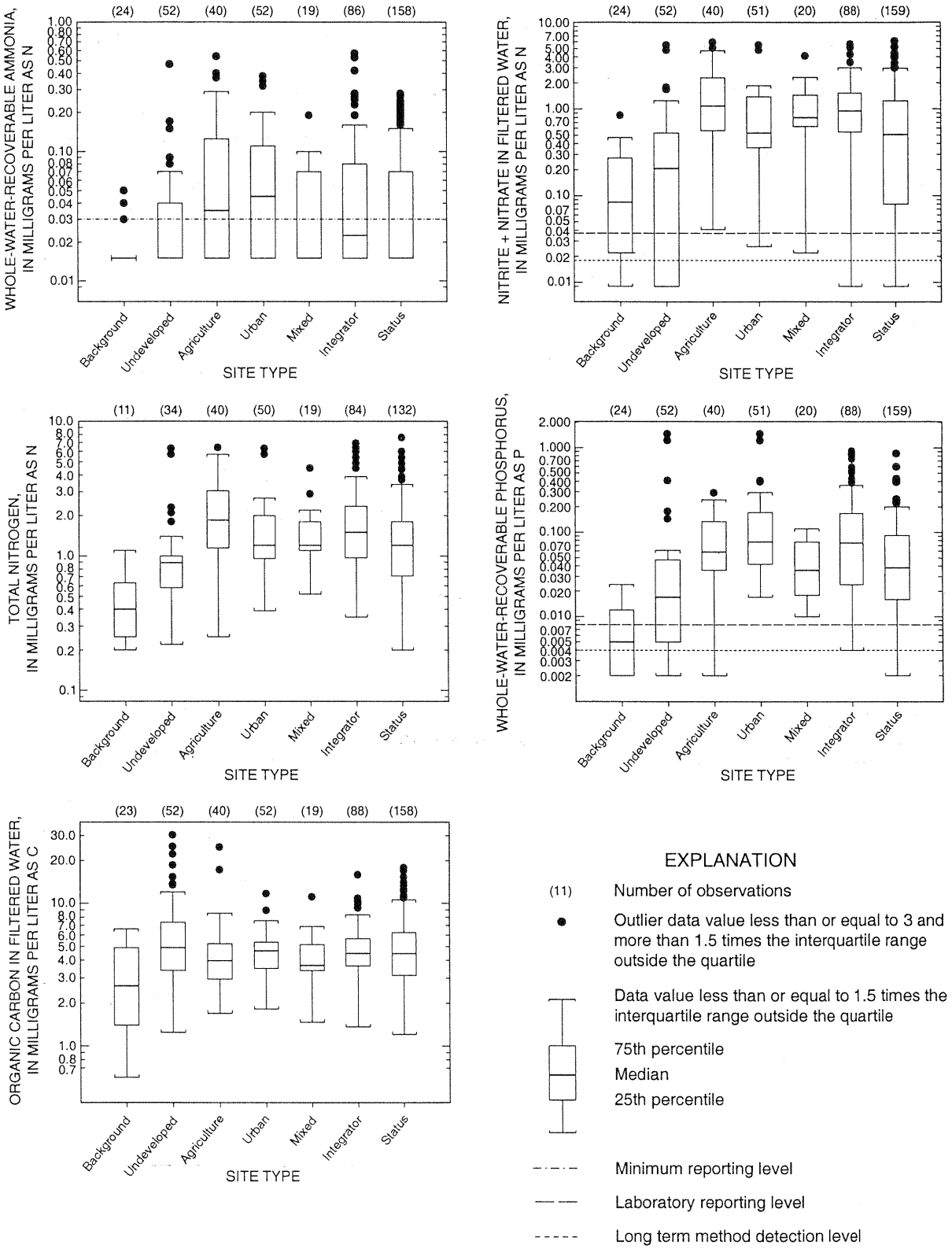


Figure 6b. Distribution of selected constituents in filtered and unfiltered surface water, and physical characteristics of surface water from 102 sites in the Ambient Stream Monitoring Network, water year 2000. ["Less-than" values are reported as equal to one-half the minimum reporting level or long term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

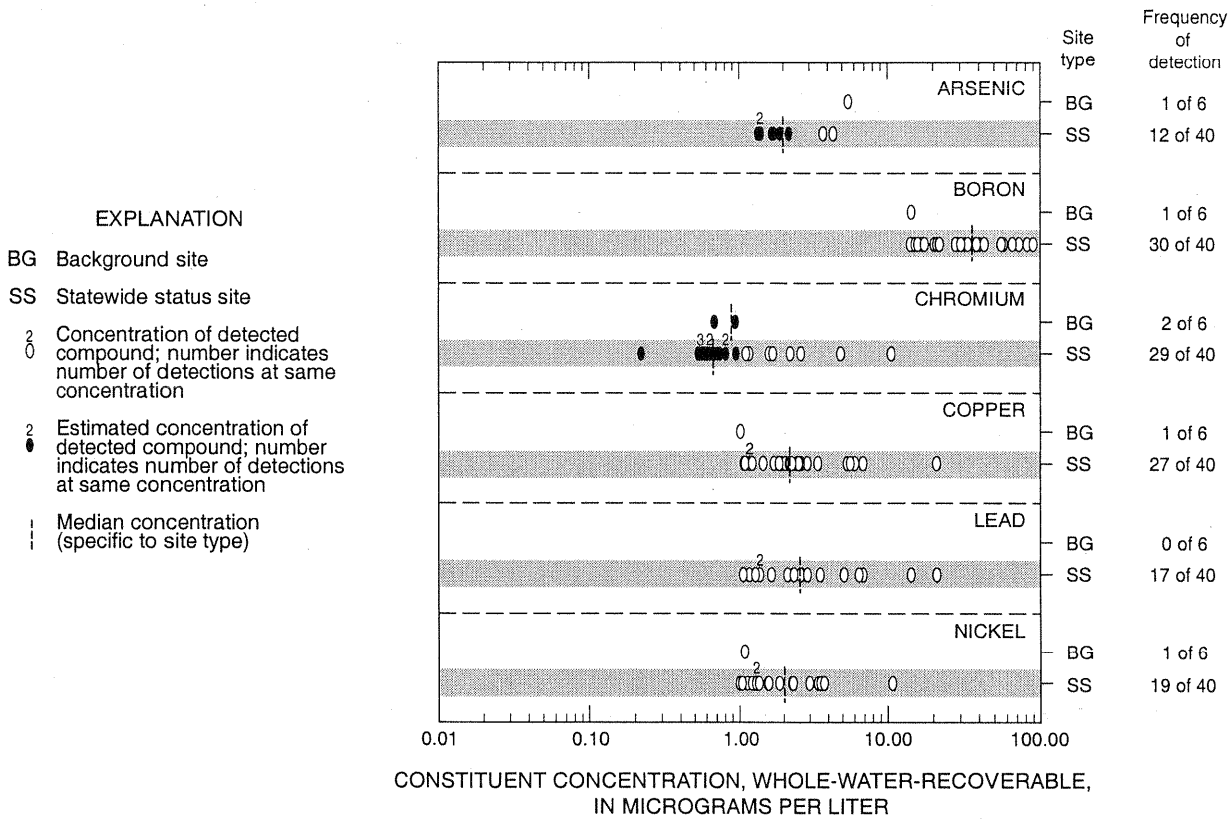


Figure 7a. Concentration and frequency of detection of selected whole-water-recoverable trace elements in samples from selected sites in the Ambient Stream Monitoring Network, water year 2000.

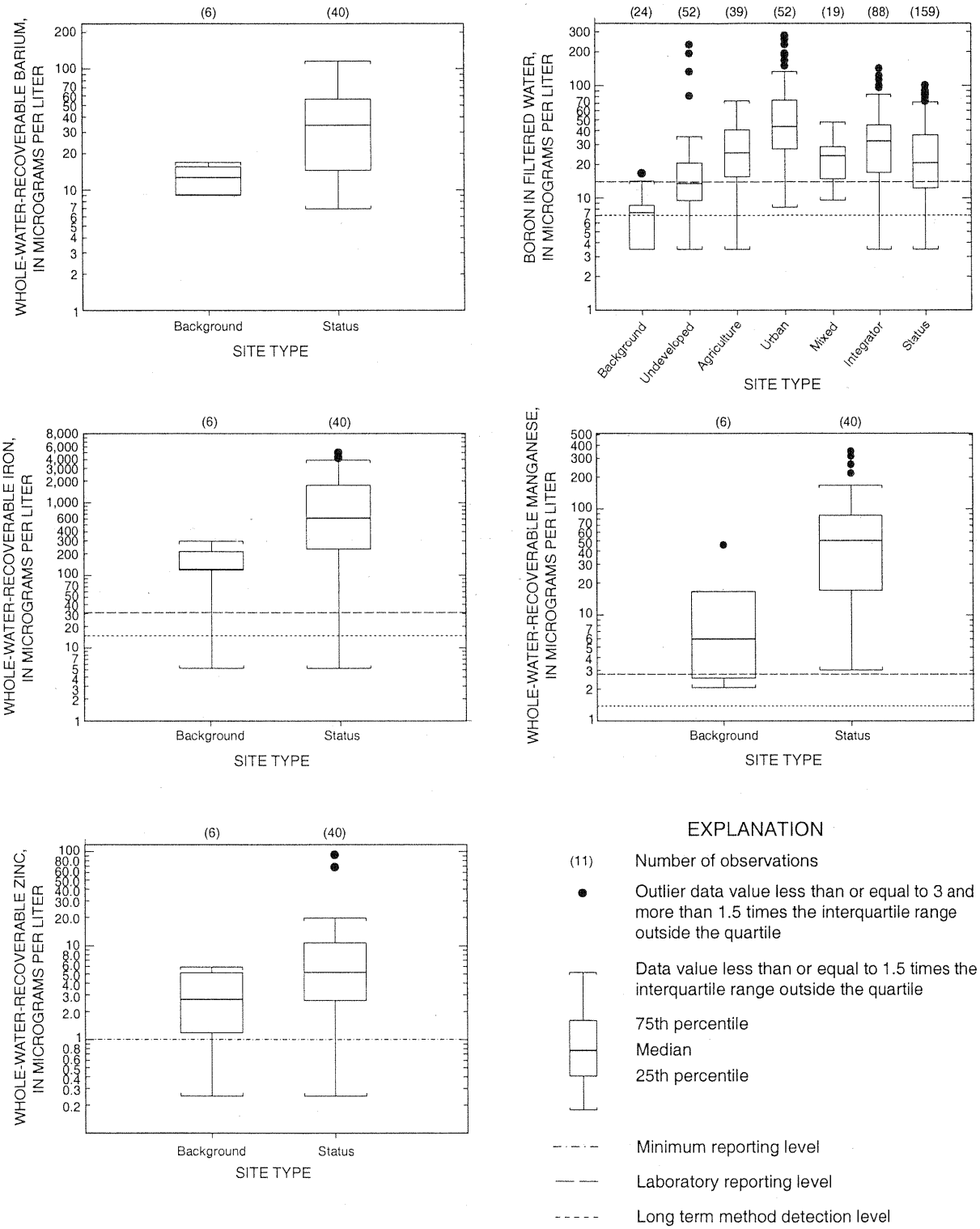
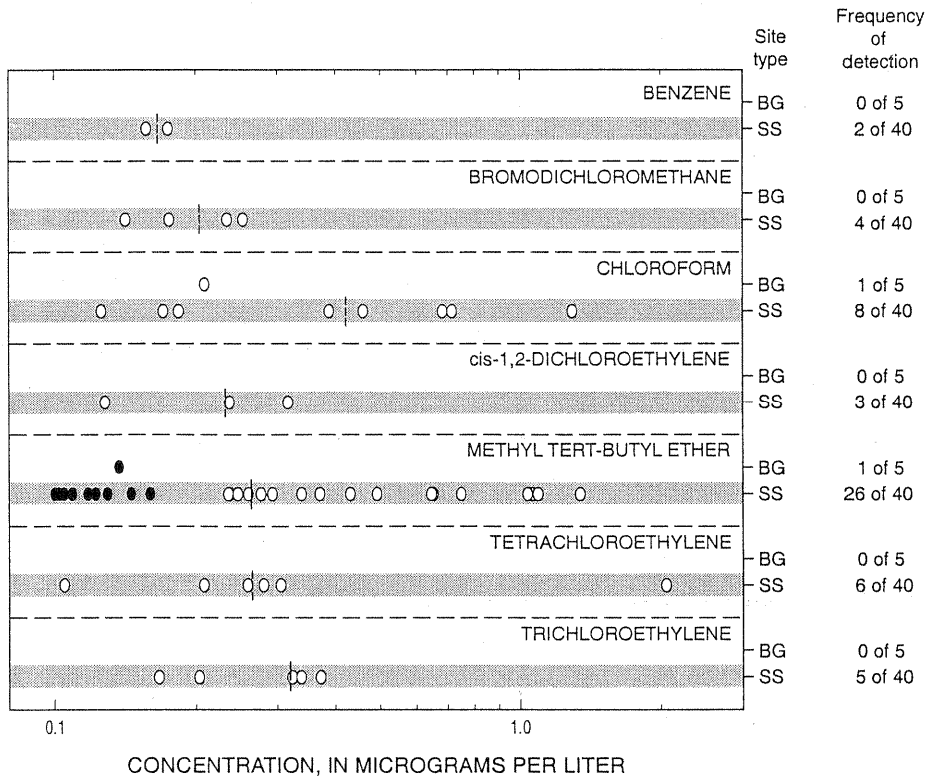


Figure 7b. Distribution of selected whole-water-recoverable and filtered trace elements in samples from selected sites in the Ambient Stream Monitoring Network, water year 2000. ["Less-than" values are reported as equal to one-half the minimum reporting level or long term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]



EXPLANATION

BG Background site

SS Statewide status site

o Concentration of detected compound

● Estimated concentration of detected compound

| Median concentration (specific to site type)

Figure 8. Concentration and frequency of detection of volatile organic compounds detected at selected sites in the Ambient Stream Monitoring Network, water year 2000.

Table 1. Volatile organic compounds, detected only once, at selected sites in the Ambient Stream Monitoring Network, water year 2000. [SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
CHLORODIBROMOMETHANE	E.1176	SS
DICHLOROETHANE	0.1378	SS
ETHER ETHYL	E.1356	SS
METAPARAXYLENE	E.1070	SS
TOULENE	0.1485	SS
TRICHLOROETHANE	0.4137	SS
TRICHLOROFLUOROMETHANE	0.2614	SS

EXPLANATION

BG Background site

SS Statewide status site

2 Concentration of detected compound; number indicates number of detections at same concentration

2 Estimated concentration of detected compound; number indicates number of detections at same concentration

Median concentration (specific to site type)

Table 2a. Frequency of detection of pesticides in filtered water detected at selected sites in the Ambient Stream Monitoring Network, water year 2000. [All values are estimated due to poor recovery or poor precision]

CONSTITUENT	STATEWIDE STATUS	BACKGROUND
CARBARYL	20 of 39	0 of 6
CARBOFURAN	2 of 39	0 of 6
DEETHYLATRAZINE	34 of 39	2 of 6
TERBACIL	2 of 39	0 of 6

Table 2b. Pesticide concentrations in filtered water, detected only once, at selected sites in the Ambient Stream Monitoring Network, water year 2000. [SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
BUTYLATE	E.00177	SS
EPTC	E.00241	SS
PRONAMIDE	0.00714	SS
TERBUTHYLAZINE	E.00310	SS

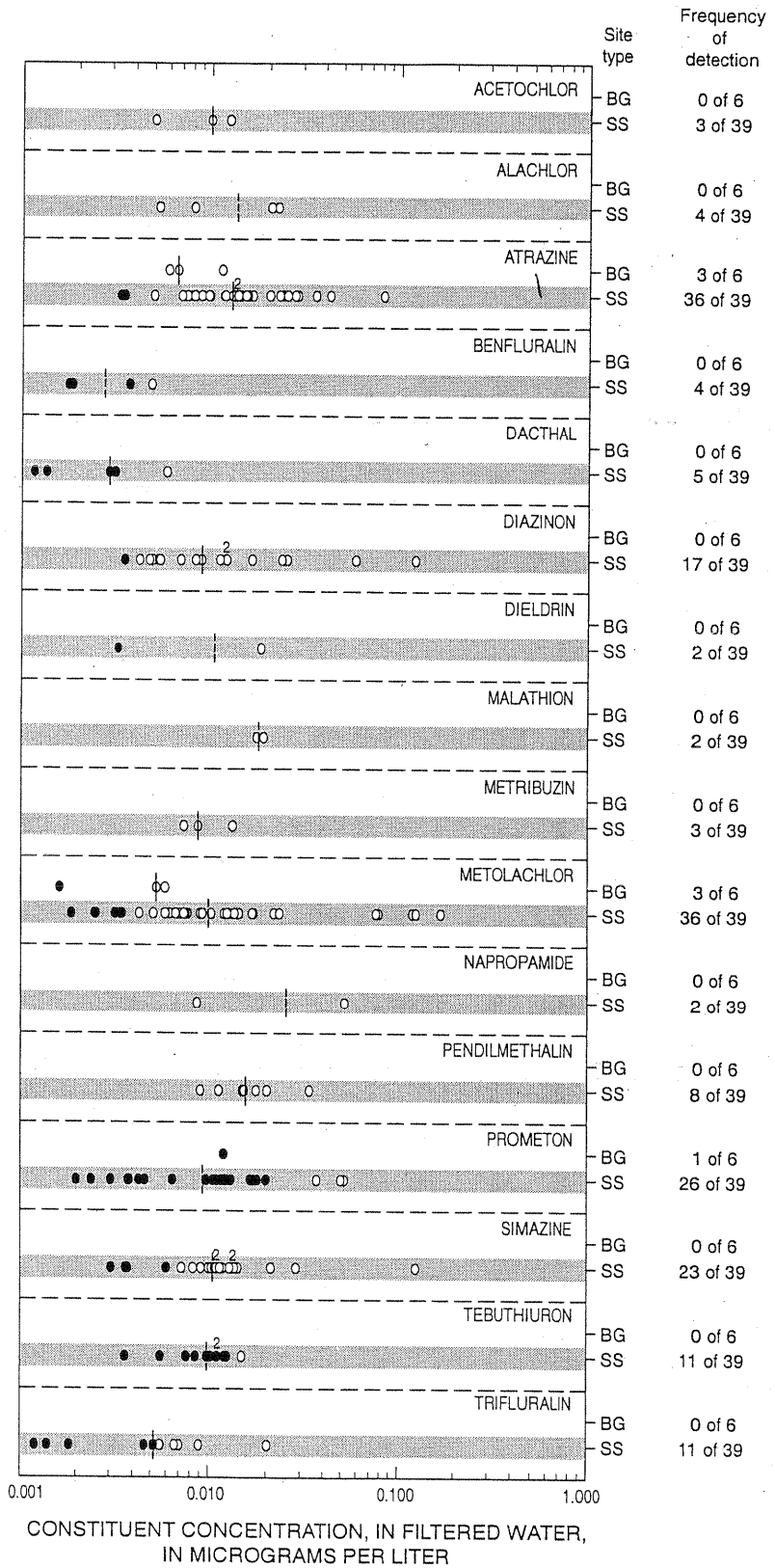


Figure 9. Concentration and frequency of detection of pesticides in filtered water from selected sites in the Ambient Stream Monitoring Network, water year 2000.

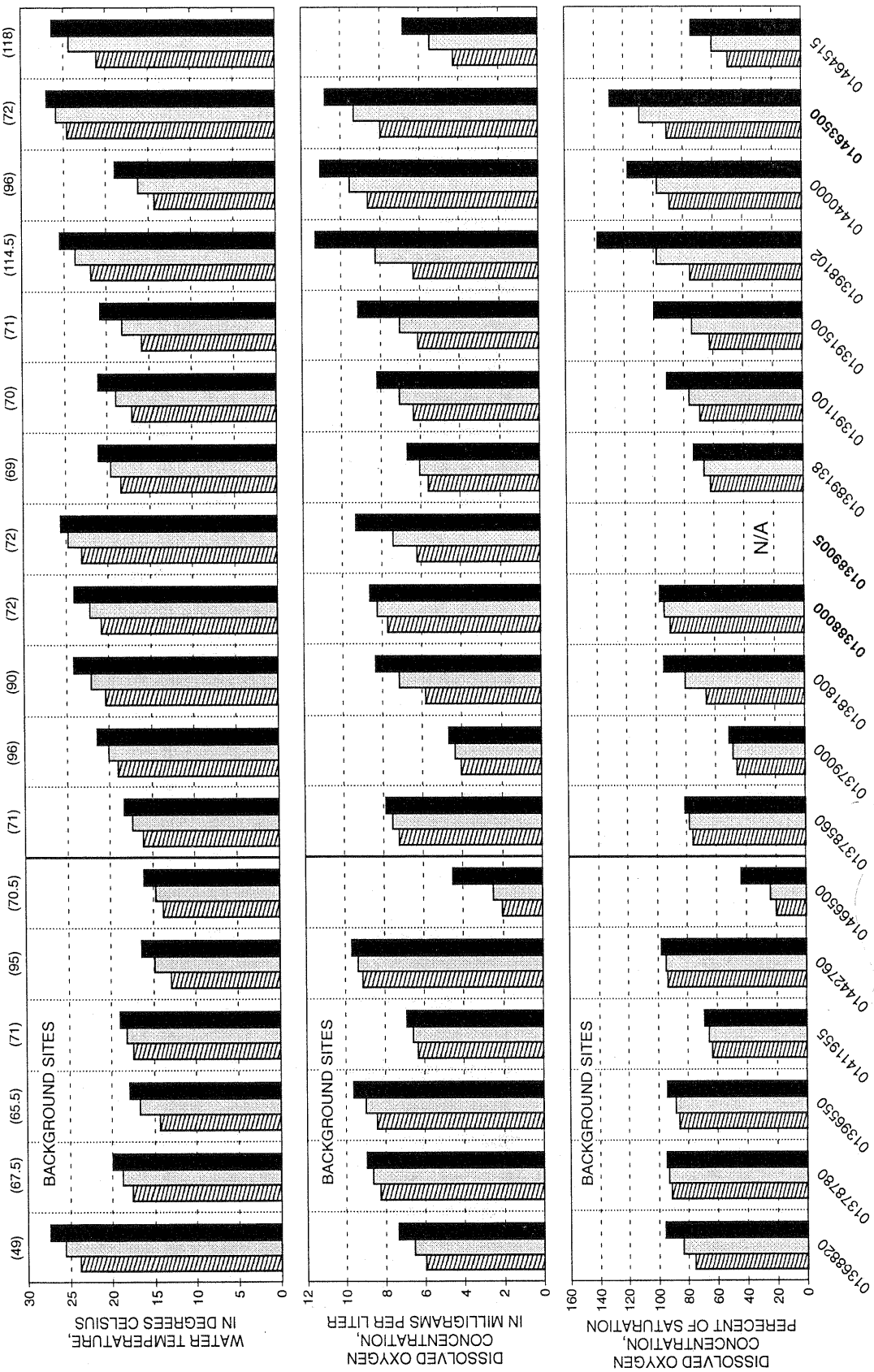


Figure 10a. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during August or September, 2000. [Station numbers in bold represent stations with permanent monitors; (49), 49 hours in period of record; NA, not available]

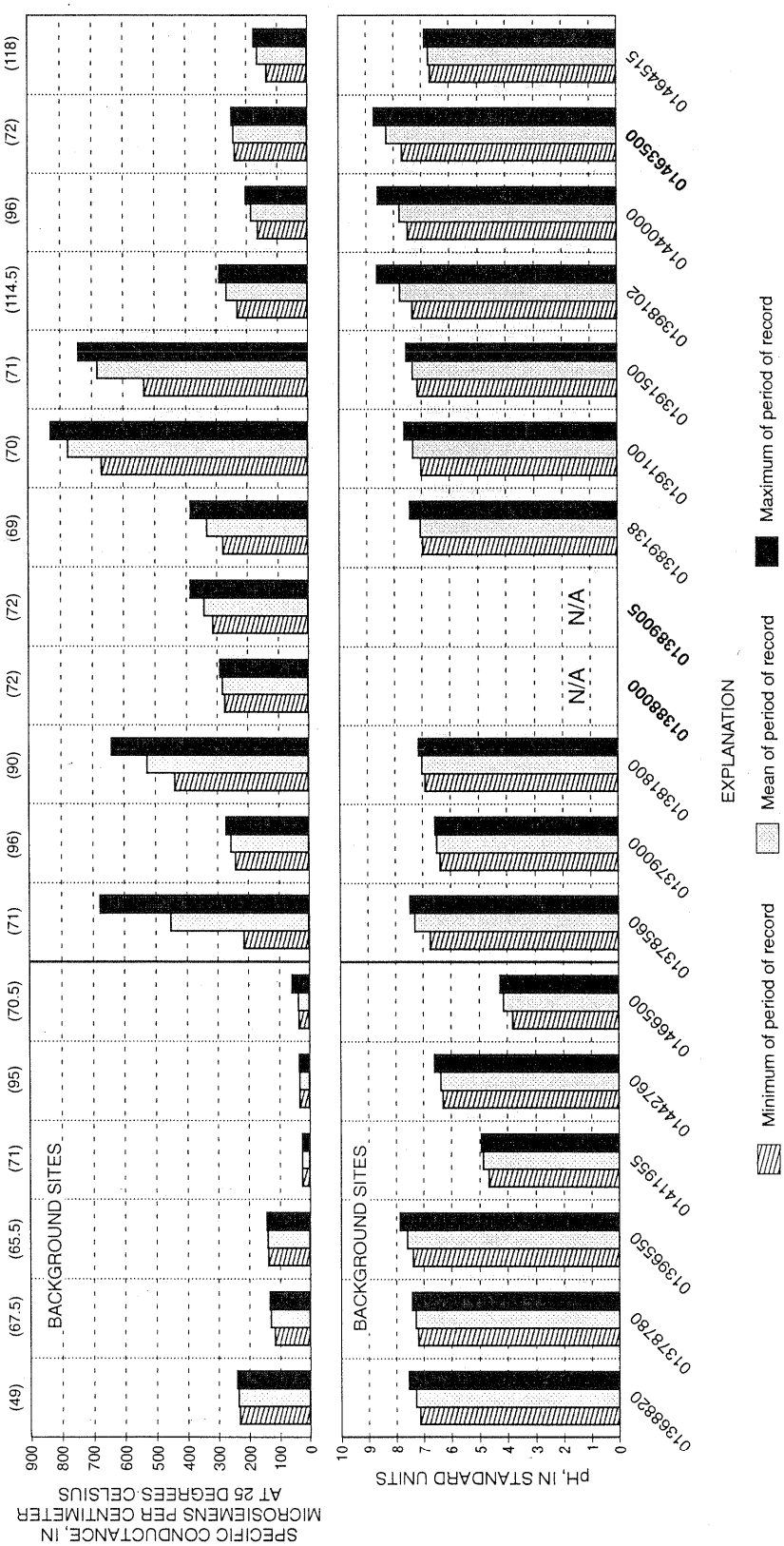


Figure 10b. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during August or September, 2000. [Station numbers in bold represent stations with permanent monitors; (49), 49 hours in period of record; NA, not available]

Ground Water Quality

The Ambient Ground-Water-Quality Network (AGWQN) was designed to monitor the quality of ground water at or near the water table. Shallow ground water is generally the first and most significantly affected part of the ground-water system, and the quality of this water is directly related to human activities at land surface. The USGS/NJDEP AGWQN has four goals. The first goal is to assess the status of ground-water quality by examining the concentrations of various constituents that can be used as environmental indicators. The second goal is to assess water-quality trends by examining data collected on a 5-year cycle. The third goal is to determine the effects of land use on shallow ground-water quality, and the final goal is to identify threats from non-point sources and to identify emerging or new environmental issues of concern to the public.

The network consists of 150 shallow wells distributed throughout New Jersey within three land-use types. Sixty wells are, or will be located, in agricultural areas, 60 in urban/suburban areas, and 30 in undeveloped areas within New Jersey's five watershed management regions (WMR)--the Passaic, the Raritan, the Upper Delaware, the Lower Delaware, and the Atlantic Coastal. These five WMRs were further divided into 20 watershed-management areas (WMA). Every year approximately 30 sites are sampled in one or several of the five WMRs. The full cycle of 150 wells will be completed in five years.

Thirty shallow wells were sampled in 2000. Fourteen wells are in the Lower Delaware Region of New Jersey and are distributed throughout WMA 17-20 (fig. 11). Sixteen wells are in the Atlantic Coastal Region and are distributed throughout WMA 13-16. Twenty-two wells are screened in the Kirkwood-Cohansey aquifer system; one in the Mount Laurel Sand; one in the undifferentiated sediments of Holocene, Pleistocene, Pliocene, or Miocene age; one in the Merchantville Formation; one in the Upper Aquifer of the Potomac-Raritan-Magothy aquifer system; two in the Englishtown aquifer system, and two in the Marshalltown Formation (table 3). The wells have polyvinyl-chloride casings and range in depth from 8 to 49 feet. Three were drilled in 1996; the other 27 were drilled during March through September 2000. Samples from the wells were analyzed for physical characteristics, major ions, nutrients, trace elements, organic constituents, and gross alpha and beta radioactivity. The tables of chemical constituents are in the section, "Water-Quality Records at Miscellaneous Ground-Water Sites."

Common Ions, Nutrients, and Trace Elements in, and Physical Characteristics of, Shallow Ground Water

Plots of selected constituent concentrations measured in ground-water samples collected throughout the Lower Delaware and Atlantic Coastal regions during August and September 2000, as a function of land-use designation, are shown in figures 12 through 15. Constituents with a high percentage of detections in the samples (greater than 75 percent) are presented in box plots (figs. 12a and 12b). Values reported by the analyzing laboratory as less than the MRL, or LRL if applicable, were included in each box plot but were reported as a value equal to one-half the MRL or LT-MDL. Constituents with a lower percentage of detections in the samples also are presented in scatter plots (figs. 14 and 15). The scatter plots include estimated values that were determined to be greater than the LT-MDL but less than the LRL. Refer to "Laboratory Measurements" in the Introduction for additional information about estimated concentrations. The trilinear diagrams in figures 13a, 13b, and 13c, and the "Water Type" column (column 5) in table 3 are grouped by land-use type and summarize the major ion chemistry of the water from each well.

The box plots highlight the differences in ground-water chemistry among wells located in areas with agricultural, undeveloped, and urban land-use designations. Median water temperature and median concentrations of hardness, total dissolved solids, chloride, manganese, iron, and organic carbon were lower in samples from wells in undeveloped areas than in those in other land-use areas (figs. 12a and 12b). Median concentrations of chloride and iron were greatest in samples from wells in urban areas. The median concentration of iron, for instance, was two orders of magnitude greater in samples from wells in urban areas than in samples from wells in undeveloped areas. The lowest median DO concentration, approximately 2 mg/L, was measured in water from wells in urban areas; the median concentration in water from wells in agricultural and undeveloped areas was from 4 to 5 mg/L. The highest median concentration of aluminum, 602 micrograms per liter (mg/L), was measured in samples from wells in undeveloped areas; the lowest median concentration, 65 mg/L, was measured in samples from wells in urban areas. The highest median concentrations of zinc, 19 mg/L, was measured in samples from wells in both undeveloped and urban areas. Agricultural practices appear to have the greatest effect on calcium and magnesium concentrations; the highest median concentration of hardness, 78 mg/L as calcium carbonate, was measured in samples from wells in agricultural areas.

Concentrations of ammonia nitrogen were low in samples from all three land-use types (fig. 14). Frequencies of detection of concentrations above the MRL of 0.03 mg/L in samples from wells in urban, undeveloped, and agricultural areas were 33, 21, and 14 percent, respectively. The highest median nitrite plus nitrate concentration, 10.90 mg/L, was measured in samples from wells in agricultural areas; the lowest, 0.41 mg/L, was measured in samples from wells in undeveloped areas. The lowest frequency of detection, 14 percent, was for samples from wells in undeveloped areas. Frequencies of detection of concentrations of ortho-phosphorus above the MRL of 0.01 milligrams per liter in samples from wells in urban, undeveloped, and agricultural areas were 33, 0, and 29 percent, respectively.

The following trace elements were detected at concentrations greater than their respective reporting limits in samples from wells with all three land-use designations: arsenic, with an MRL of 0.9 mg/L; barium, MRL of 1.0 mg/L; chromium, LT-MDL of 0.4 mg/L; copper, MRL of 1.0 mg/L; and selenium, MRL of 0.7 mg/L (fig. 15). Barium was detected in 100 percent of the samples. Arsenic, chromium, copper, and selenium were detected most frequently in samples from wells in agricultural areas (57, 57, 86, and 86 percent of those wells, respectively). Cadmium was detected in just

one sample from a well with an urban land-use designation. Lead was detected in four samples (three of the samples were from wells in agricultural areas), and mercury was detected in three samples (two of the samples were from wells in agricultural areas). Silver was not detected at any well and, therefore, is not included in the figure.

Volatile Organic Compounds and Organic Pesticides in Shallow Ground Water

A list of the frequencies of detection of volatile organic compounds (VOC) detected in ground-water samples collected throughout the Lower Delaware and Atlantic Coastal regions is presented in table 4. Each sample was analyzed for the presence of 34 VOCs. Only VOCs detected in one or more samples are listed in table 4. Refer to individual station records to view concentrations of all 34 compounds in table form. Chloroform was the most frequently detected VOC (43 percent of all samples) in samples from wells in all land-use areas. The second most frequently detected VOC, Methyl tert-butyl ether (20 percent of all samples), was detected in samples from wells in urban and agriculture areas. The third most frequently detected VOC, Toluene, was detected in 1 of 14 samples from wells in undeveloped areas and in 1 of 9 samples from wells in urban areas. 1,4-Dichloropropane, cis-1,2-Dichloroethene, Dichlorobromomethane, Diisopropyl ether, tert-Pentyl methyl ether, and Tetrachloroethylene were each detected only once.

Concentrations and frequencies of detection of organic pesticides in filtered ground-water samples collected throughout the Lower Delaware and Atlantic Coastal regions are shown in figure 16 (those most frequently detected) and listed in tables 5a (those with estimated concentrations) and 5b (those detected only once). Forty-seven compounds were analyzed for using USGS National Water Quality Laboratory schedule 2001; refer to "Laboratory Measurements" in the Introduction for the complete list. The plots include estimated values that were determined to be greater than the LT-MDL but less than the LRL. The most frequently detected pesticides in samples from wells in all land-use areas were Metolachlor (23 percent), Atrazine (20 percent), Deethylatrazine (17 percent), Simazine (10 percent), Prometon (10 percent), Alachlor, Carbaryl, Dacthal, and Diazinon (7 percent each). Ten widely used herbicides and four widely used insecticides were detected in samples from seven wells in agricultural areas. The most frequently detected herbicides in samples from wells in agricultural areas were Metolachlor (71 percent), Atrazine (57 percent), Deethylatrazine (57 percent), Alachlor (29 percent), Simazine (29 percent), and Dacthal or DCPA (29 percent). The insecticides Carbaryl, Diazinon, Dieldrin, and p,p-DDE were each detected once in samples from wells in agricultural areas. Six widely used herbicides and two widely used insecticides were detected in samples from nine wells in urban areas. The most frequently detected herbicides in samples from wells in urban areas were Atrazine, Metolachlor, and Prometon (22 percent each); the insecticides Carbaryl and Malathion were each detected once. Diazinon, an insecticide, and Propanil, an herbicide, were the only two compounds detected in samples from wells in undeveloped areas.

Saltwater-Monitoring Network

The potability of ground water in the Coastal Plain of New Jersey depends primarily on its chemical quality, including contamination with saltwater. Chloride concentration is an accurate index of the extent and degree of saltwater contamination. The presence of high concentrations of chloride, however, is not definitive proof of active saltwater intrusion; high concentrations may represent a natural, static condition. Saltwater intrusion can be documented by analysis of periodically collected water samples. Saltwater intrusion is indicated by increases in chloride concentration over time rather than by a single concentration measured at one point in time.

In the 1940's, the USGS established a saltwater-monitoring network in the Coastal Plain of New Jersey to document the movement of saltwater into the freshwater aquifers. The USGS collects and analyzes water samples from USGS and NJDEP observation wells and selected domestic and agricultural supply wells. Chloride measurements are augmented by chloride-concentration data reported to the NJDEP by owners of public and industrial supply wells. During the 2000 water year, the USGS sampled water from thirteen wells in seven counties. Chloride concentrations in these samples were supplemented by more than 6,000 values that were reported by hundreds of public and industrial supply well owners and are stored in NJDEP and USGS files.

During the 2000 water year, saltwater intrusion was evident in many communities along Raritan Bay, the Atlantic Coast, the Delaware Bay, and the lower Delaware River, and in central Gloucester County.

SPECIAL NETWORKS AND PROGRAMS

The USGS/New Jersey Department of Environmental Protection (NJDEP) cooperative Ambient Stream Monitoring Network (ASMN) and Ambient Ground Water Quality Network (AGWQN) are designed to meet the expanding need for surface and ground-water-quality data in the State of New Jersey. The major objectives of the network are to (1) support the National Environmental Performance Partnership System agreement (a program set up to control long-term environmental planning) and the watershed-management process; (2) to work synergistically with the NJDEP Ambient Biomonitoring Network, and atmospheric, groundwater, and coastal water-quality networks; (3) determine statewide water-quality status and trends; (4) measure water-quality near the downstream end of each Watershed Management Area (WMA); (5) define background water quality in each of the four physiographic provinces of New Jersey; (6) measure nonpoint-source contributions from major landuse areas, atmospheric deposition, and ground-water; (7) facilitate response of state and local water-management officials to emerging or watershed-specific water-quality issues.

The surface-water network consists of 107 stations located in 20 WMA's. These stations are segregated into five distinct types that together are used to define the surface-water-quality in the State. Background stations are located on reaches of streams that have remained relatively unaffected by human activity, to develop a baseline water-quality data base. Data from these sites are used in the development of water-quality standards and initiatives. Watershed Integra-

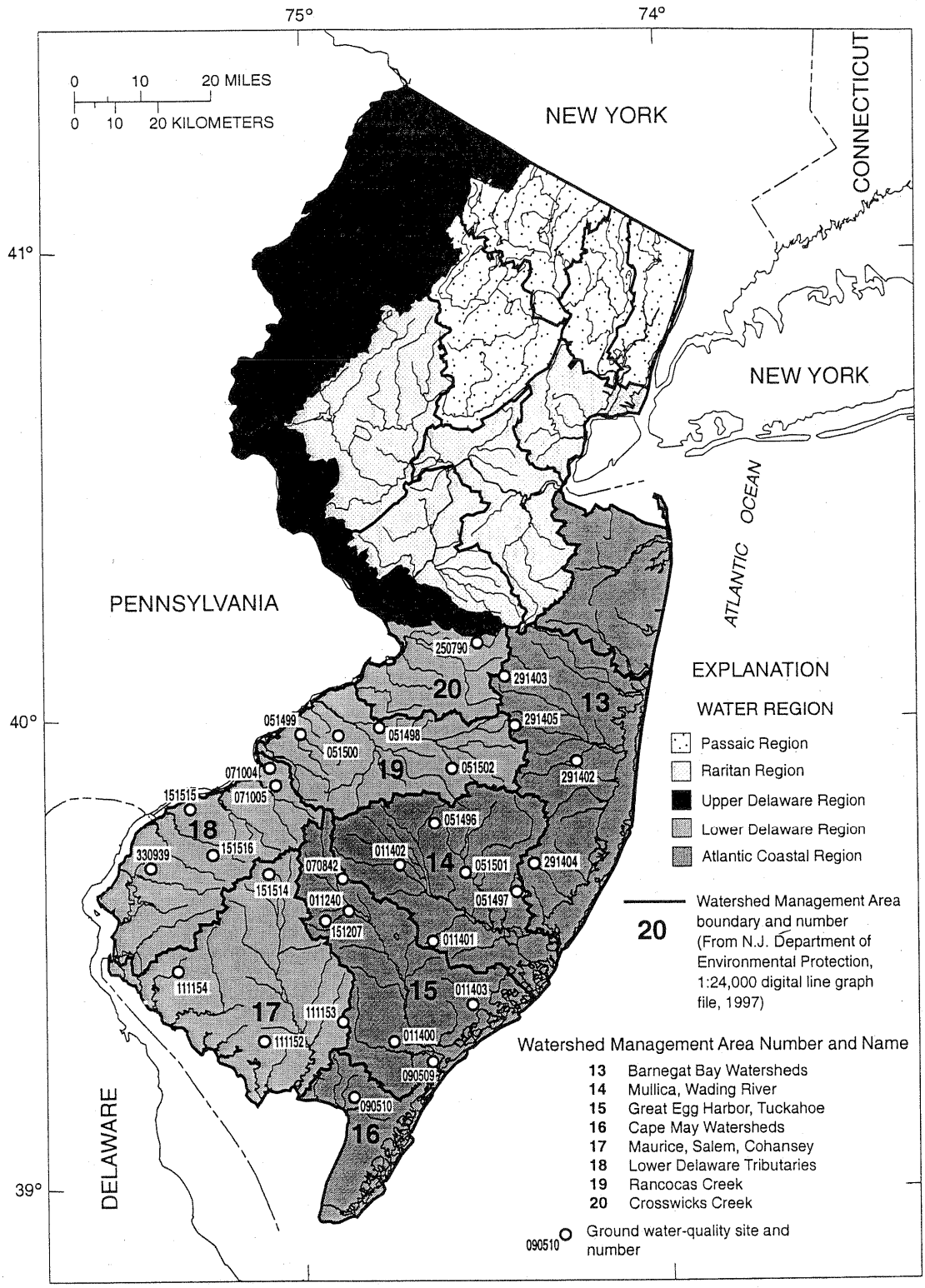


Figure 11. Location of sites in the Ambient Ground-Water-Quality Network, water year 2000.

Table 3. Hydrogeologic unit and land use at 30 wells sampled as part of U.S. Geological Survey-N.J. Department of Environmental Protection (cooperative) Ambient Ground-Water-Quality Network, water year 2000

[WMA, Watershed Management Area; VOCs, volatile organic compounds; mg/L, milligrams per liter; NO2+NO3, nitrite plus nitrate; dis, dissolved; -, no data; <, less than; ft bls, feet below land surface; 121CKKD, Kirkwood-Cohansey aquifer system; 111HPPM, Undifferentiated sediments of Holocene, Pleistocene, Pliocene, or Miocene age; 211MRSL, Marshalltown Formation; 211 MLRL, Mount Laurel Sand; 211MCVL, Merchantville Formation; 211EGLS, Englishtown aquifer system; 211MRPAU, Upper Aquifer of the Potomac-Rartian-Magothy aquifer system]

NJ-WRD well number	WMA number	Hydrogeologic unit aquifer code	Predominant land use[1]	Water type (dominant cation-anion)	Dissolved oxygen (mg/L)	Nitrogen NO_2+NO_3 dissolved (mg/L)	Number of pesticides detected[2]	Number of VOCs detected[2]	Number of trace elements detected[2]	Well depth (ft bls)
151207	15	121CKKD	Agricultural	Magnesium-NO2+NO3 dis	5.4	56	1	1	7	24.0
111154	17	121CKKD	Agricultural	Potassium-sulfate	2.6	12	6	None	5	17.7
151514	17	121CKKD	Agricultural	Calcium-NO2+NO3 dis	10.5	11	4	None	6	24.2
151515	18	111HPPM	Agricultural	Sodium-chloride	1.1	.31	9	2	6	12.7
151516	18	121CKKD	Agricultural	Calcium-nitrate dis	7.7	13	None	2	6	29.5
330939	18	211MRSL	Agricultural	Calcium-NO2+NO3 dis	4.6	10	4	None	5	19.5
250790	20	211MLRL	Agricultural	Sodium-chloride	.3	.17	3	None	4	14.2
291402	13	121CKKD	Undeveloped	Sodium-chloride	6.0	<.05	None	1	4	8.0
291403	13	121CKKD	Undeveloped	Sodium-sulfate	5.6	<.05	None	1	2	10.5
291404	13	121CKKD	Undeveloped	Magnesium-sulfate	4.6	.75	None	None	2	17.3
291405	13	121CKKD	Undeveloped	Sodium-chloride	4.1	<.05	None	1	3	18.0
011402	14	121CKKD	Undeveloped	Iron-Sulfate	1.0	<.05	None	None	4	11.5
051496	14	121CKKD	Undeveloped	Sodium-sulfate	9.3	.1	None	1	2	16.0
051497	14	121CKKD	Undeveloped	Sodium-sulfate	5.0	<.05	None	1	1	13.8
051501	14	121CKKD	Undeveloped	Aluminum-sulfate	5.3	<.05	None	None	4	17.5
011400	15	121CKKD	Undeveloped	Sodium-sulfate	.7	<.05	None	1	3	13.5
070842	15	121CKKD	Undeveloped	Aluminum-sulfate	1.8	<.05	None	None	3	14.0
090510	16	121CKKD	Undeveloped	Calcium-bicarbonate	1.8	<.05	None	None	3	11.0
111152	17	121CKKD	Undeveloped	Sodium-chloride	6.7	<.05	None	1	3	12.0
111153	17	121CKKD	Undeveloped	Sodium-chloride	4.7	<.05	None	1	2	32.5
051502	19	121CKKD	Undeveloped	Sodium-sulfate	4.5	<.05	2	1	5	39.0
011401	14	121CKKD	Urban	Sodium-sulfate	1.1	.44	None	1	5	12.5
011240	15	121CKKD	Urban	Sodium-NO2+NO3 dis	1.7	14	None	2	5	19.0
011403	15	121CKKD	Urban	Sodium-chloride	3.4	1.4	1	2	4	23.0
090509	15	121CKKD	Urban	Calcium-sulfate	8.8	1.7	None	None	3	25.0
071004	18	211MCVL	Urban	Iron-chloride	-	<.05	6	3	3	18.7
071005	18	211EGLS	Urban	Sodium-chloride	.5	<.05	2	3	4	13.6
051498	19	211MRSL	Urban	Magnesium-chloride	4.5	7.9	None	1	6	26.0
051499	19	211MRPAU	Urban	Calcium-bicarbonate	.2	<.05	None	1	4	49.0
051500	19	211EGLS	Urban	Calcium-chloride	2.1	.54	2	None	2	19.5

[1]Land use based on New Jersey Department of Environmental Protection 1986 ITU with subsequent field verification.

[2]Includes compounds with estimated concentrations, defined as positive detections of a compound, but measured as less than the laboratory's reporting levels.

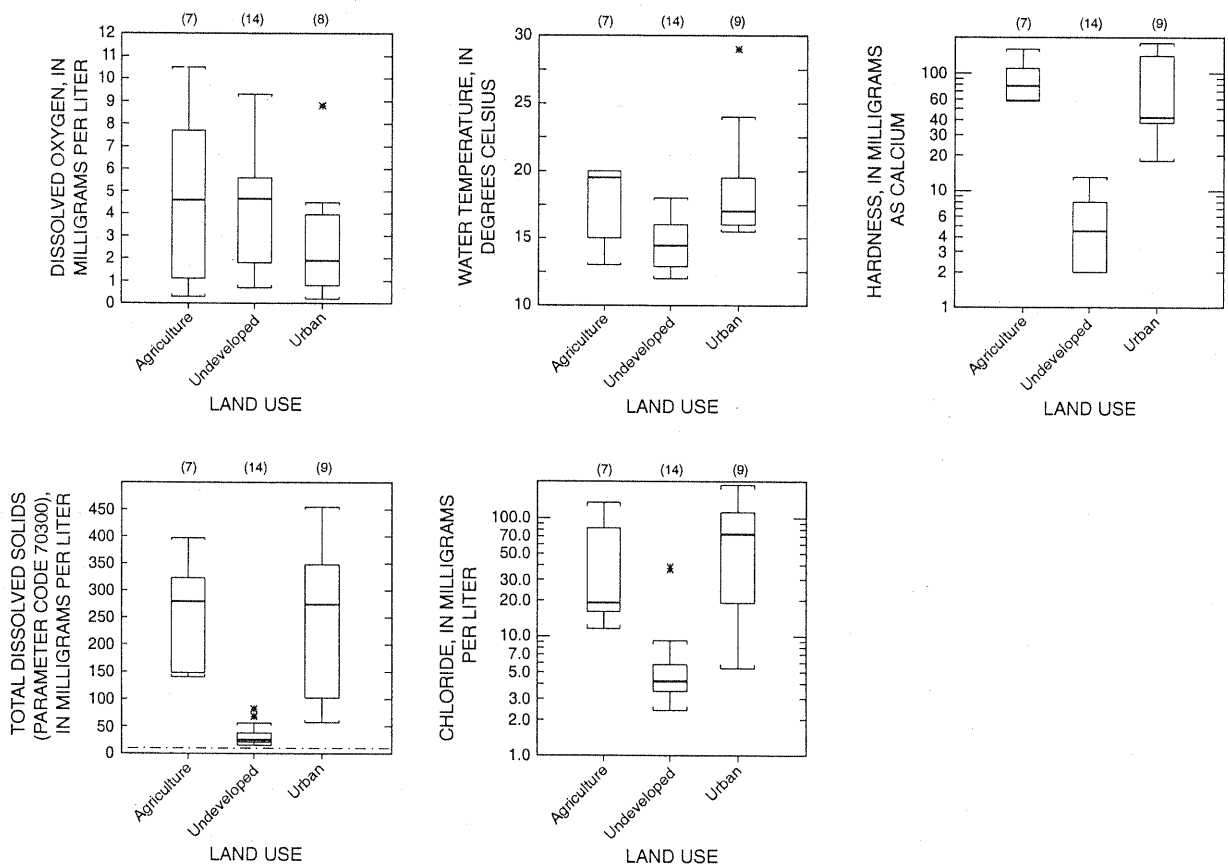
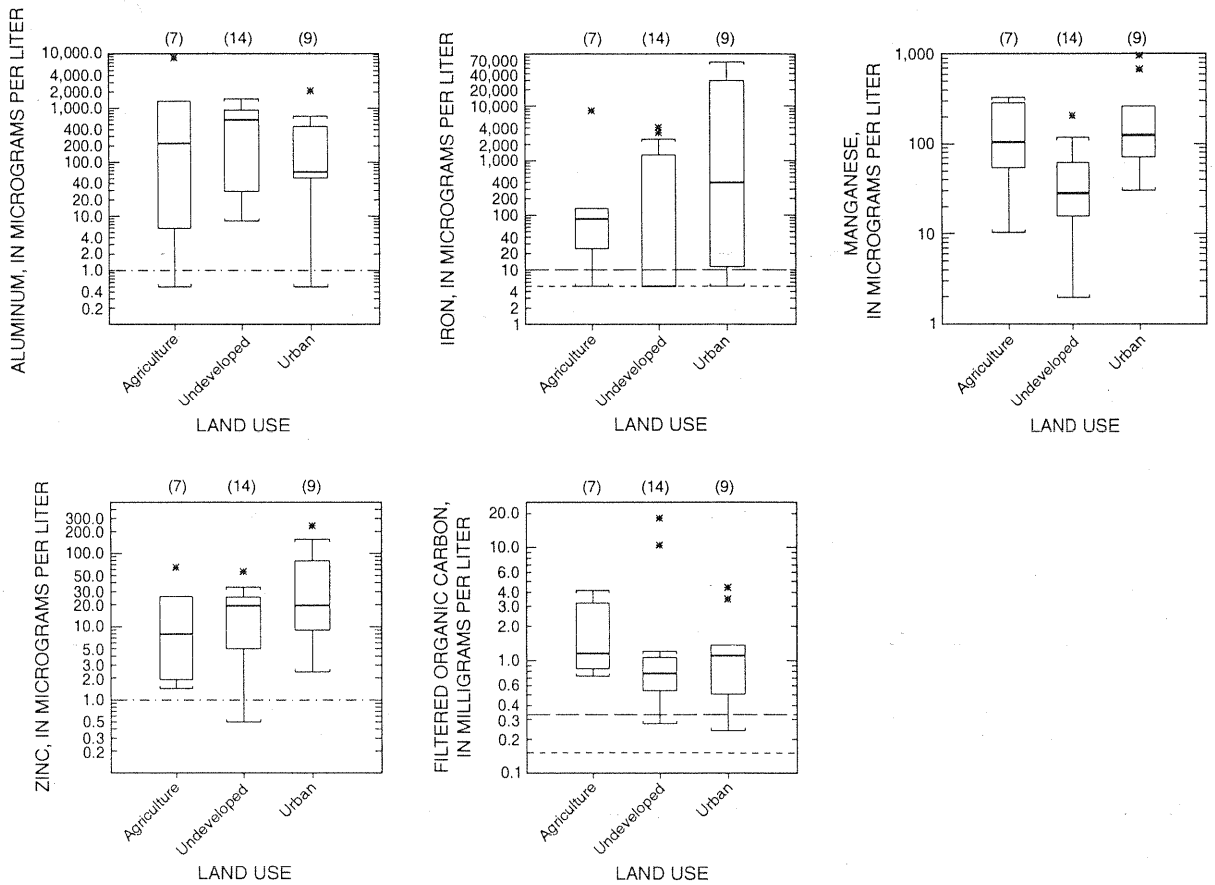


Figure 12a. Distribution of selected constituents in filtered water in, and physical characteristics of, ground water from 30 sites in the Ambient Ground-Water-Quality Network, water year 2000. ["Less-than" values are report as equal to one-half the minimum reporting level (MRL) or long term method detection level (LTMDL).]



EXPLANATION

(10)	Number of observations
*	Outlier data value less than or equal to 3 and more than 1.5 times the interquartile range outside the quartile
	Data value less than or equal to 1.5 times the interquartile range outside the quartile
	75th percentile
	Median
	25th percentile
- · - · -	Minimum reporting level
— —	Laboratory reporting level
- - - - -	Long term method detection level

Figure 12b. Distribution of selected constituents in filtered water in, and physical characteristics of, ground water from 30 sites in the Ambient Ground-Water-Quality Network, water year 2000. ["Less-than" values are report as equal to one-half the minimum reporting level (MRL) or long term method detection level (LTMDL).]

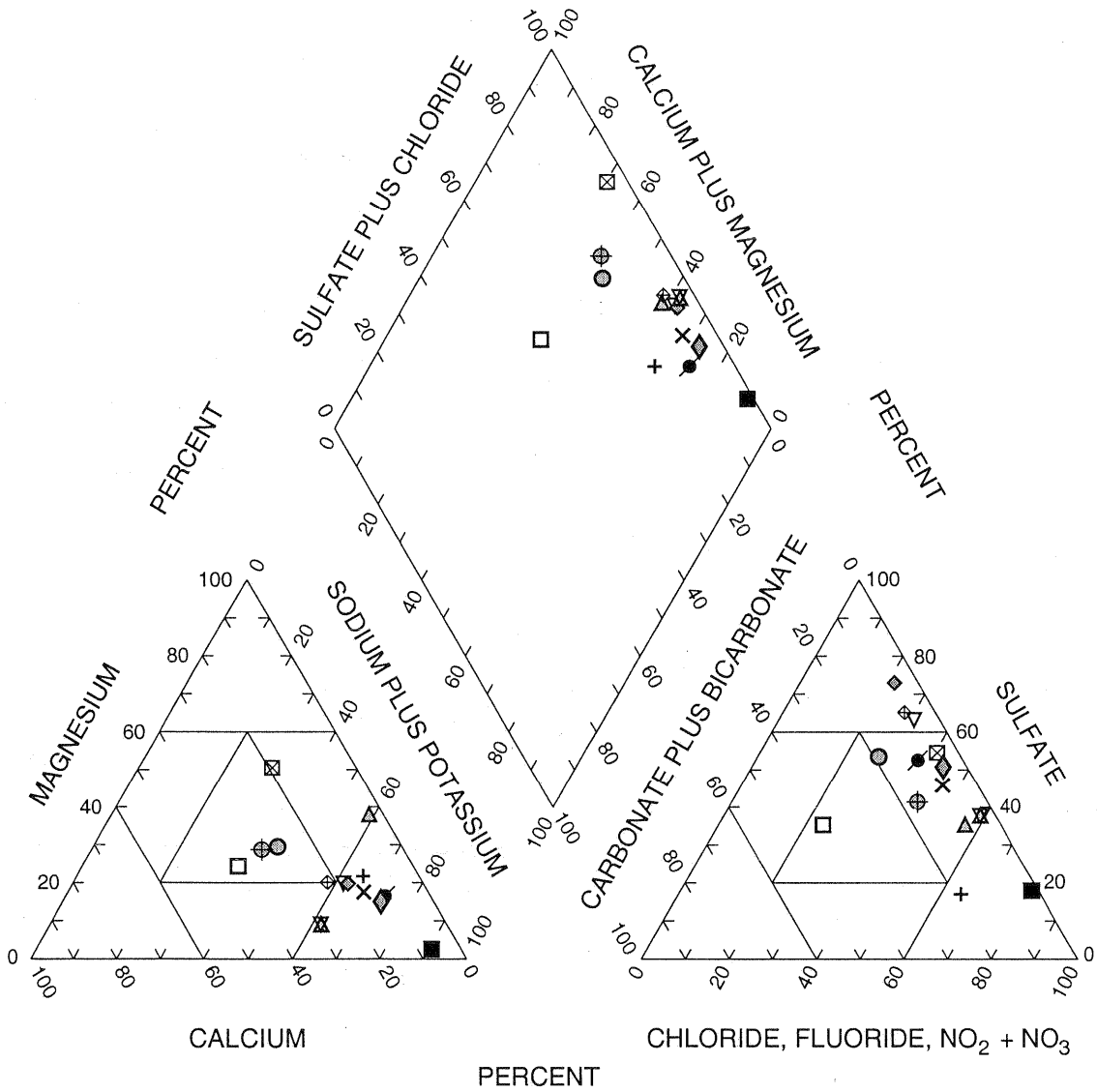


Figure 13a. Trilinear diagram showing the distribution of major ions in ground-water samples from 14 sites in undeveloped land-use areas in the Ambient Ground-Water-Quality Network, water year 2000.

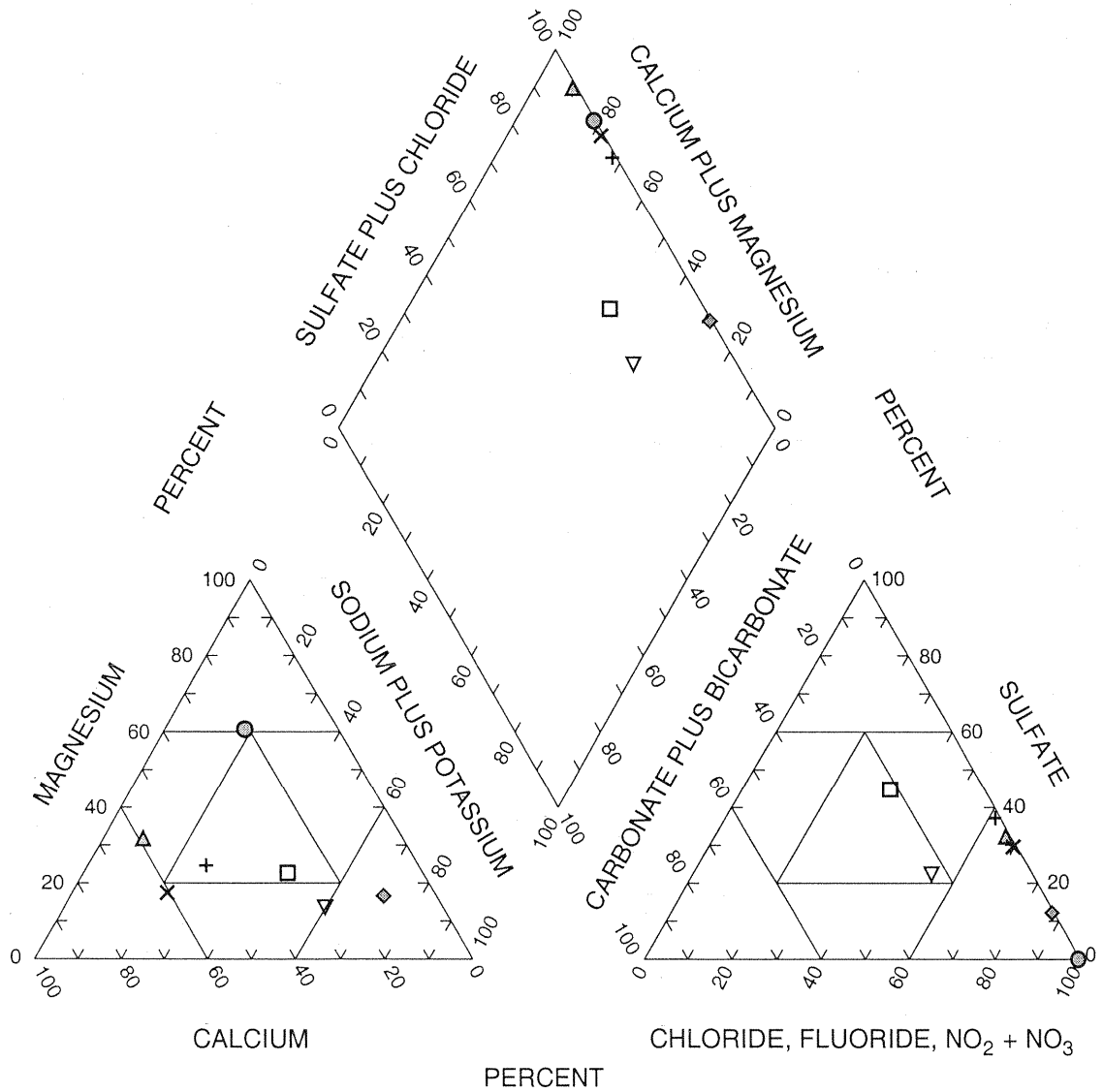


Figure 13b. Trilinear diagram showing the distribution of major ions in ground-water samples from seven sites in agricultural land-use areas in the Ambient Ground-Water-Quality Network, water year 2000.

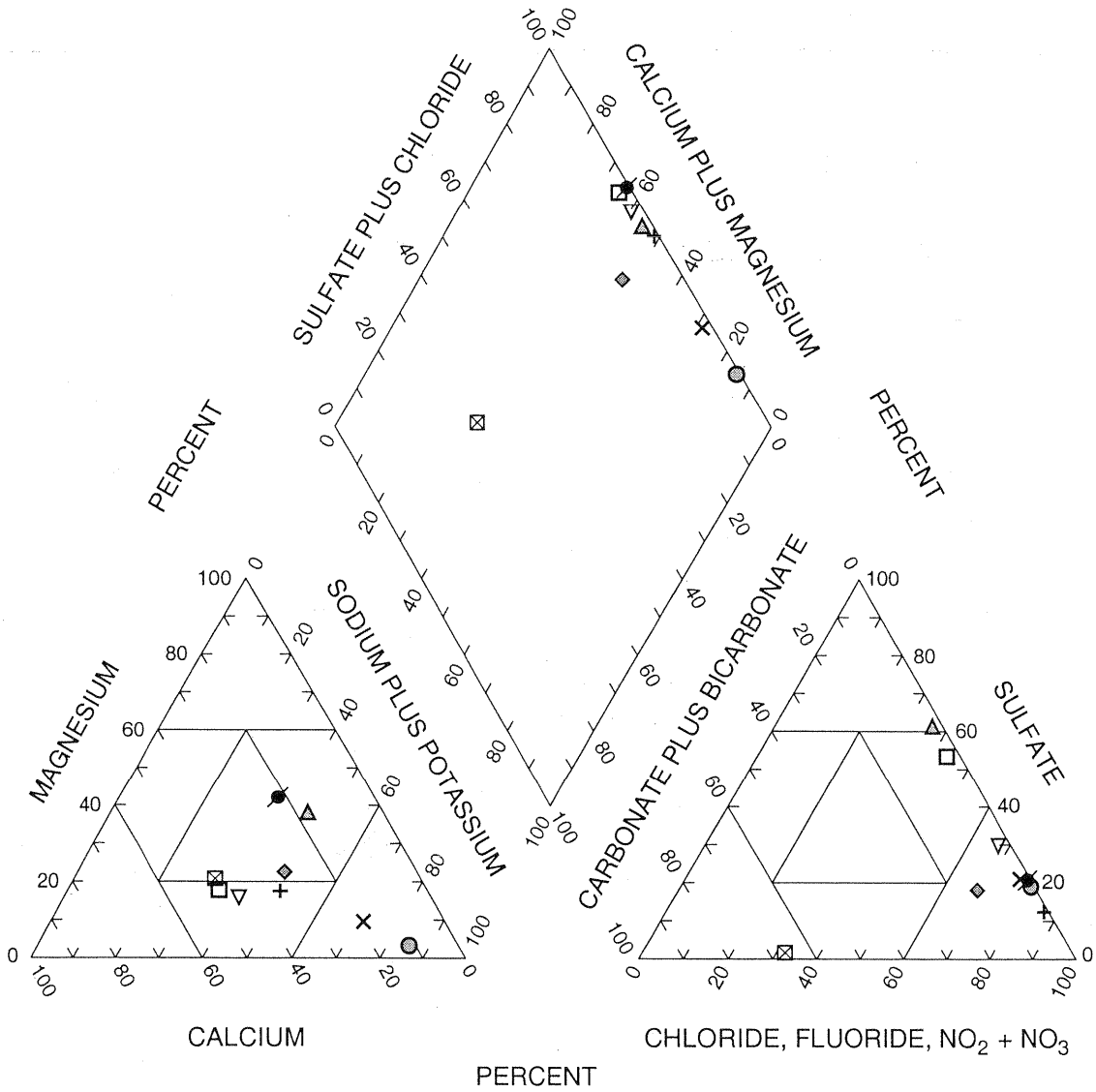


Figure 13c. Trilinear diagram showing the distribution of major ions in ground-water samples from nine sites in urban land-use areas in the Ambient Ground-Water-Quality Network, water year 2000.

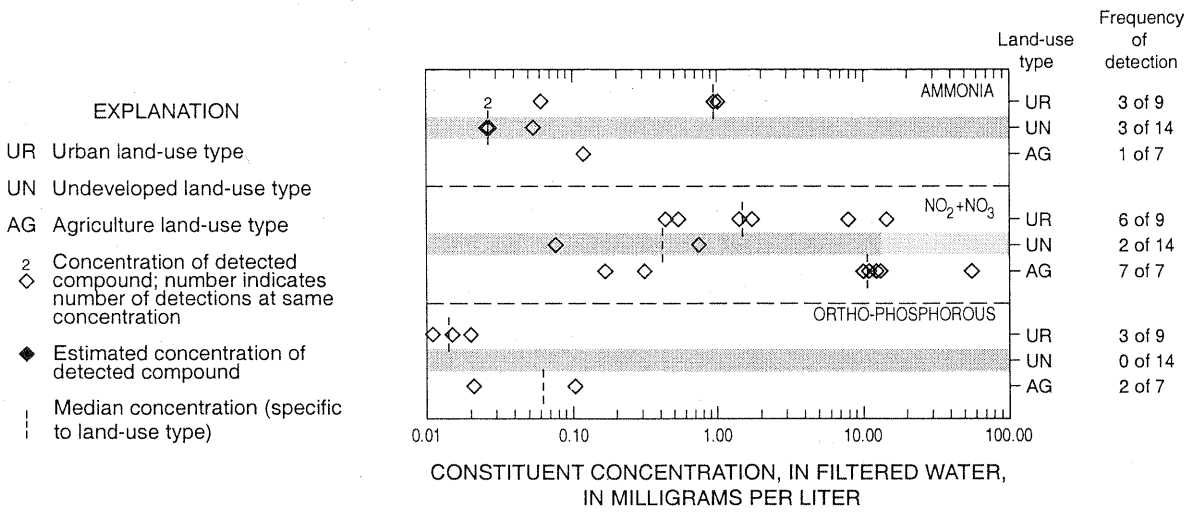


Figure 14. Concentration and frequency of detection of selected nutrients in filtered ground water from 30 sites in the Ambient Ground-Water-Quality Network, water year 2000.

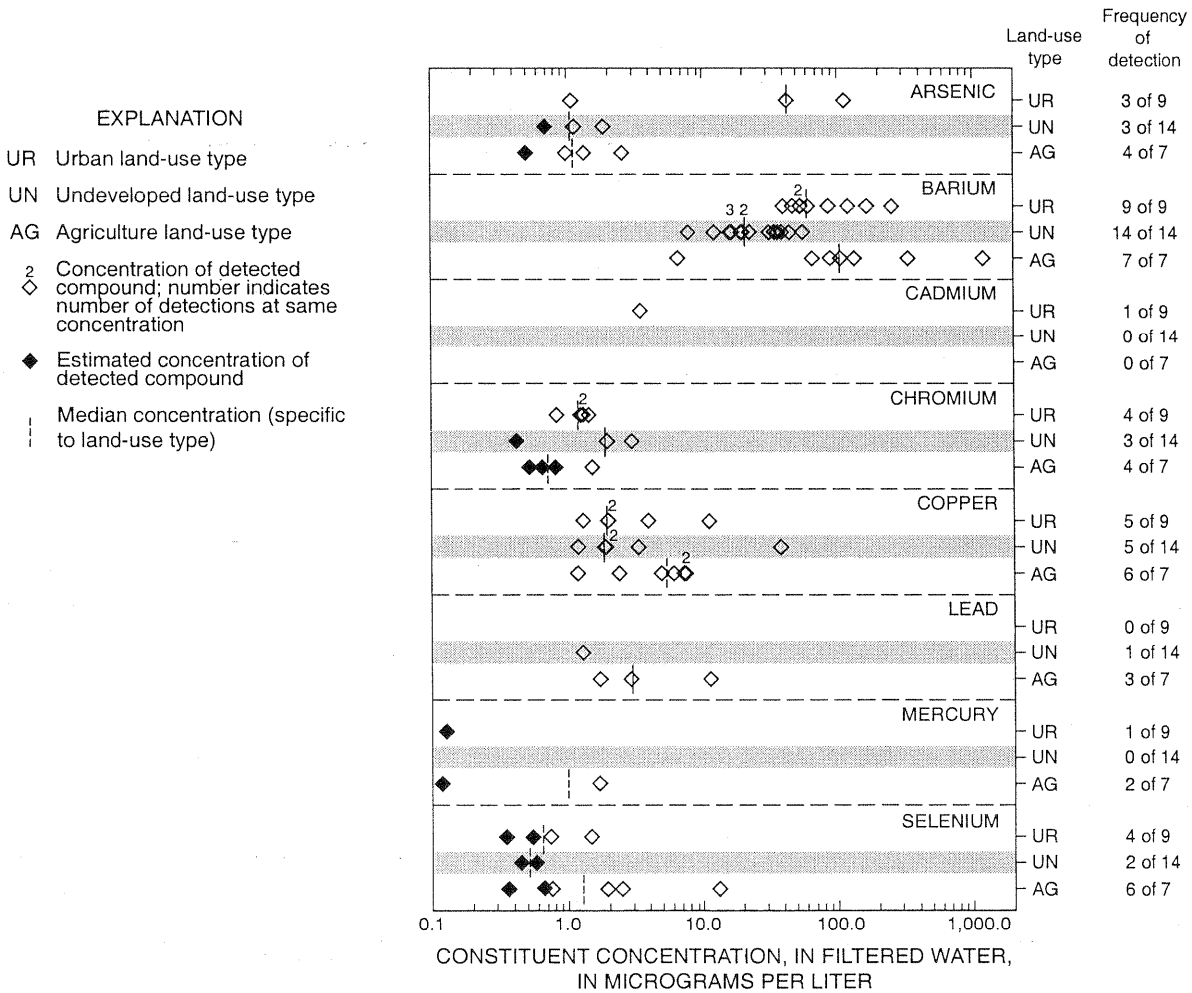


Figure 15. Concentration and frequency of detection of selected trace elements, in filtered ground water, from 30 sites in the Ambient Ground-Water-Quality Network, water year 2000.

Table 4. Frequency of detection of volatile organic compounds detected in ground water at 30 sites in the Ambient Ground-Water-Quality Network
[AG, agriculture; UR, urban; UN, undeveloped]

CONSTITUENT	SITE TYPE		
	AG	UR	UN
1,4-DICHLOROPROPANE	1 of 7	0 of 9	0 of 14
CHLOROFORM	2 of 7	3 of 9	8 of 14
CIS-1,2-DICHLOROETHENE	0 of 7	1 of 9	0 of 14
DICHLOROBROMOMETHANE	1 of 7	0 of 9	0 of 14
DIISOPROPYLETHER	0 of 7	1 of 9	0 of 14
TERT-PENTYLMETHYLETHER	0 of 7	1 of 9	0 of 14
METHYLTERTBUTYLETHER	1 of 7	5 of 9	0 of 14
TETRACHLOROETHYLENE	0 of 7	1 of 9	0 of 14
TOLUENE	0 of 7	1 of 9	1 of 14

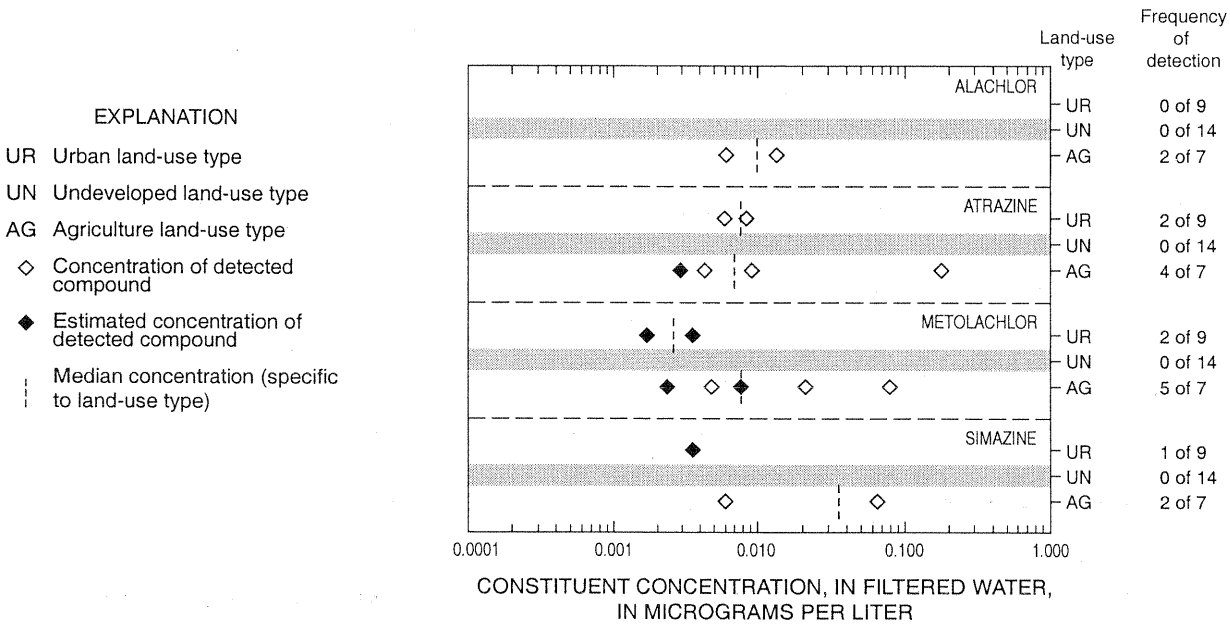


Figure 16. Concentration and frequency of detection of pesticides in filtered ground water from 30 sites in the Ambient Ground-Water-Quality Network, water year 2000.

Table 5a. Frequency of detection of pesticides in filtered ground water at 30 sites in the Ambient Ground-Water-Quality Network
[All values are estimated due to poor recovery or poor precision; AG, agriculture; UR, urban; UN, undeveloped]

CONSTITUENT	SITE TYPE		
	AG	UR	UN
CARBARYL	1 of 7	1 of 9	0 of 14
DACTHAL	2 of 7	0 of 9	0 of 14
DEETHYLATRAZINE	4 of 7	1 of 9	0 of 14
DIAZINON	1 of 7	0 of 9	1 of 14
PROMETON	1 of 7	2 of 9	0 of 14

Table 5b. Pesticide concentrations in filtered ground water, detected only once, at 30 sites in the Ambient Ground-Water-Quality Network
[AG, agriculture; UR, urban; UN, undeveloped]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
DIELDRIN	0.0134	AG
EPTC	0.031	AG
MALATHION	E.0037	UR
MOLINATE	0.0126	AG
P,P'-DDE	E.0026	AG
PEBULATE	0.0194	UR
PROPANIL	E.0034	UN
TEBUTHIURON	0.0272	AG

tor stations are located at the furthest downstream point possible in each WMA to provide information on the combined water-quality effects within each WMA. Land Use Indicator stations are used to monitor the effects of the dominant land use in each WMA and provide data on nonpoint-source loading of contaminants to streams. Statewide Status stations are chosen randomly each year within the 20 WMA's to obtain a statistical basis that can be used to estimate water-quality indicators statewide. Five stations are located on the Delaware Main Stem - the border between New Jersey and Pennsylvania. Watershed Reconnaissance stations are also selected annually on the basis of specific project needs, determined by a committee of USGS and NJDEP personnel.

The surface-water network is sampled in four periods throughout the water year: November 1 to December 31, February 1 to March 31, May 1 to June 30, and August 1 to September 30. Samples for analysis for nutrients, major ions, and biochemical oxygen demand are collected from the entire network each sampling period. Samples for the analysis of water-column volatile organic compounds during February and March, filtered organic pesticides during May and June, and whole-water-recoverable trace elements during August and September are collected at all Statewide Status and Background stations. Samples for the analyses of trace elements and polyaromatic hydrocarbons in streambed sediments are also collected in August and September at 20 Statewide Status and 2 Background stations.

The Ambient Ground-Water-Quality Network (AGWQN) is designed to monitor the water quality of shallow wells. The quality of water from wells located at the water table is generally the first and most significantly affected part of the ground water system, and can be directly related to human activity at the land surface. The groundwater network consists of 150 sites distributed throughout the State of New Jersey within three land-use types. Sixty wells are, or will be located, in agricultural areas, 60 in urban/suburban areas, and 30 in undeveloped areas. These areas are located throughout New Jersey's five Watershed Management Regions (WMR), which are further divided into 20 watershed-management areas (WMA) (fig. 11). The Passaic Region consists of WMAs 3-6; the Lower Delaware Region is composed of WMAs 17-20; the Raritan Region is made up of WMAs 7-10; the Upper Delaware Region includes WMAs 1, 2, and 11; and, the Atlantic Coastal Region consists of WMAs 12-16. Approximately 30 wells in one or several of the five WMR are sampled each year. Thus, the entire network is sampled over a 5-year cycle. During the 2000 water year, 30 wells in the Lower Delaware and Atlantic Coastal Regions were sampled. Samples from these wells were analyzed for physical characteristics, major ions, nutrients, trace elements, organic constituents, and radioactivity.

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at http://water.usgs.gov/hbn/.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at http://bqs.usgs.gov/acidrain/.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents are measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison

of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program is available through the world wide web at http://water.usgs.gov/nawqa/nawqa_home.html

Long Island-New Jersey Coastal Plain (LINJ) NAWQA fixed station published in this report (fig. 19) is: Raritan River at Queens Bridge, at Bound Brook, NJ (01403300).

Delaware River Basin (DELR) NAWQA fixed stations published in this report (fig. 20) are: Delaware River at Port Jervis, NY (01434000); Jordan Creek near Schnecksville, PA (01451800); Lehigh River at Glendon, PA (01454700); Delaware River at Trenton, NJ (01463500); Little Neshaminy Creek at Valley Rd. near Neshaminy, PA (01464907); Cooper River at Haddonfield, NJ (01467150); Tulpehocken Creek near Bernville, PA (01470779); French Creek near Phoenixville, PA (01472157); Schuylkill River at Philadelphia, PA (01474500); and Raccoon Creek near Swedesboro, NJ (01477120).

Water-quality data were collected at 43 additional surface-water synoptic sites in the Piedmont and Valley and Ridge Physiographic Provinces as part of the DELR NAWQA study. Data were collected as part of a synoptic survey of nutrients, pesticides, major ions, and dissolved organic carbon. Most sampling was conducted from May 15 through June 27. The sampling was repeated from September 11 through October 16 at 33 of the 43 synoptic sites. The 10 sites that were only collected during the May/June synoptic are printed in italics in the text below. Synoptic survey data are published in this report in the section titled "Water Quality at Miscellaneous Sites". These sites are (fig. 42): Neversink River near Claryville, NY (0143500); Flat Brook near Flatbrookville, NJ (01440000); *Paulins Kill at Blairstown, NJ (01443500)*; *Lizard Creek at Ashfield, PA (01450400)*; *Buckwha Creek at Little Gap, PA (01450455)*; *Hokendauqua Creek near Northampton, PA (01451110)*; *Little Lehigh Creek near East Texas, PA (01451425)*; *Cedar Creek Above Lake Muhlenberg at Allentown, PA (01451624)*; *Monocacy Creek at Bethlehem, PA (01452500)*; Tinicum Creek near Smithtown, PA (01458920); Lockatong Creek at Raven Rock, NJ (01460880); Alexhauken Creek near Lambertville, NJ (01461900); Pidcock Creek near New Hope, PA (01462100); Jacobs Creek at Somerset, NJ (01462800); Buck Creek below Brock Creek at Yardley, PA (01462949); Shabakunk Creek near Lawrenceville, NJ (01463810); Pine Creek at Chalfont, PA (01464710); Mill Creek near Langhorne, PA (01465470); North Branch Rancocas Creek at Pemberton, NJ (01467000); Pennypack Creek at Paper Mill, PA (01467040); Tacony Creek at Cheltenham, PA (0146708450); *Ontelaunee Creek at Wanamakers, PA (01470640)*; *Mill Creek at Dietricks Mill Bridge near Kutztown, PA (01470744)*; *Little Northkill Creek near Bernville, PA (01470818)*; Wyomissing Creek at West Reading, PA (01471520); Hay Creek near Scarlets Mill, PA (01471667); Manatawny Creek near Pottstown, PA (01471980); Pigeon Creek near Parker Ford, PA (01472100); Pickering Creek at Charlestown Road Bridge, at Charlestown, PA (014721884); Macoby Creek at Green Lane, PA (01472280); Stony Creek at Steriger Street at Norristown, PA (01473470); Darby Creek at Foxcroft, PA (01475430); Darby Creek near Darby, PA (01475510); Cobbs Creek at East Lansdowne, PA (01475543); Crum Creek at Goshen Road near Whitehorse, PA (01475845); Ridley Creek near Media, PA (01476470); West Branch Chester Creek near Chester Heights, PA (01476950); Middle Branch White Clay Creek near Landenberg, PA (01478200); East Branch Red Clay Creek near Five Point, PA (01479800); West Branch Brandywine Creek at Cedar Knoll, PA (01480350); East Branch Brandywine Creek near Dorlan, PA (01480665); Beaver Creek near Downingtown, PA (01480775); Valley Creek near Altor, PA (01480890).

Bed-sediment data were collected at 11surface-water sites as part of the DELR NAWQA study. Data were collected as part of a survey of organics and trace elements in bed sediment. Sampling was conducted from June 12 through July 26. Bed-sediment data are published in this report in the section titled "Water Quality at Miscellaneous Sites". These sites are (fig. 44): Pidcock Creek near New Hope, PA (01462100); Shabakunk Creek near Lawrenceville, NJ (01463810); Pine Creek at Chalfont, PA (01464710); Little Neshaminy Creek at Valley Road near Neshaminy, PA (01464907); Pigeon Creek near Parker Ford, PA (01472100); French Creek near Phoenixville, PA (01472157); Stony Creek at Steriger Street at Norristown, PA (01473470); Darby Creek at Foxcroft, PA (01475430); Crum Creek at Goshen Road near Whitehorse, PA (01475845); Ridley Creek near Media, PA (01476470); East Branch Brandywine Creek near Dorlan, PA (01480665).

Fish-community surveys were conducted at 7 surface-water indicator sites as part of the DELR NAWQA study. Sampling was conducted from July 10 through July 21. Fish-community data are published in this report in the section titled "Water Quality at Miscellaneous Sites". These sites are (fig. 45): Flat Brook near Flatbrookville, NJ (01440000); Jordan Creek near Schnecksville, PA (01451800); Little Neshaminy Creek at Valley Road near Neshaminy, PA (01464907); Cooper River at Haddonfield, NJ (01467150); Tulpehocken Creek near Bernville, PA (014707790); French Creek near Phoenixville, PA (01472157); and Raccoon Creek near Swedesboro, NJ (01477120).

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain surface-water and ground-water-quality data. The locations of the stations where the data were collected are shown in figures 11, 18-20, and 47-49. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

Downstream Order System

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 01396500, which appears just to the left of the station name, includes the two-digit Part number "01" plus the 6-digit downstream-order number "396500". The Part number designates the major drainage basin; for example, Part "01" covers the North Atlantic slope basins. In some areas where all 8-digit numbers are used up, 10-digit station numbers are assigned between the 8-digit numbers.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude (fig. 16). The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

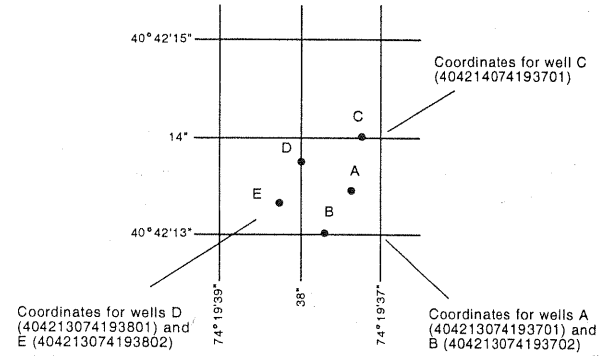


Figure 17.--System for numbering wells and miscellaneous sites (latitude and longitude)

Water Quality Records

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 18-20, and 42-46.

Classification of Records

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

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

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites

which are not at a surface-water daily record station appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

Water-quality data must represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on-site when the samples are collected. In addition, specific procedures must be used in collecting, treating, and shipping the samples to the laboratory. Procedures for on site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. These references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

In streams, concentrations of various constituents may vary within the cross section depending on variables such as flow rate, the sources of the constituents, and mixing. Generally, constituents in solid phases are more variable in the cross section than are dissolved constituents. In many cases, samples must integrate several parts of the stream cross section to be representative, especially if loads will be calculated. One sample may be representative of the cross section when the distribution of constituents is homogeneous. All samples are obtained from multiple verticals.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. In some instances, apparent inconsistencies may exist in the data. For example, the orthophosphate-phosphorus concentration may exceed total phosphorus concentration. However, the difference in the inconsistent values normally is smaller than the precision of the analytical techniques. Inconsistencies between pH and carbonate and bicarbonate concentrations are commonly caused by intake or loss of carbon dioxide by the sample before it can be analyzed.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly recordings beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey, New Jersey District Office whose address is given on the back of the title page of this report.

Water Temperature

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

At stations where recording instruments are used, maximum, minimum and mean temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the New Jersey District Office.

Sediment

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

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

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

Laboratory Measurements

Samples for biochemical-oxygen demand, fecal coliform and enterococcus bacteria, and hexavalent chromium are analyzed at the New Jersey Department of Health, Public Health and Environmental Laboratories. Samples for nutrients are analyzed at the New Jersey Department of Health or at the U.S. Geological Survey Laboratory in Arvada, Colorado. Sediment samples--parameter codes, 80154, 80157, and 80164--are analyzed in the U.S. Geological Survey Laboratories in Iowa City, Iowa. All other samples are analyzed in the U.S. Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the U.S. Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Analyses of pesticides in surface-water and ground-water samples (schedule 2001)

Selected water samples from ASMN, AGWQN, and DELR-NAWQA study sites were analyzed for pesticides on schedule 2001 during the 2000 water year. This table lists the pesticides on the schedule, the unit of measure (micrograms per liter, µg/L), the U.S. Geological Survey National Water Information System parameter code, and the reporting level. **Only pesticides measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.**

SCHEDULE DESCRIPTION.--Pesticides in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/ Mass Spectrometry (GC/MS).

SAMPLE REQUIREMENTS.--1 liter of water filtered through 0.7-micron glass-fiber depth filter, chilled at 4° C (packed in ice).

CONTAINER REQUIREMENTS.--1 liter baked amber glass bottle (GCC) from NWQL.

PCODE.--The USGS/EPA parameter code.

COMMON NAME.--Common or trade name(s) for constituent

LRL.--Laboratory reporting level.

PCode	Common Name	LRL (µg/L)
82660	2,6-Diethylaniline	0.003
49260	Acetochlor	0.002
46342	Alachlor	0.002
34253	alpha-HCH	0.002
39632	Atrazine	0.001
82673	Benfluralin	0.002
04028	Butylate	0.002
82680	Carbaryl	0.003
82674	Carbofuran	0.003
38933	Chlorpyrifos	0.004
04041	Cyanazine	0.004
82682	Dacthal	0.002
04040	Deethylatrazine	0.002
39572	Diazinon	0.002
39381	Dieldrin	0.001
82677	Disulfoton	0.017
82668	EPTC	0.002
82663	Ethalfluralin	0.004
82672	Ethoprophos	0.003
04095	Fonofos	0.003
39341	Lindane	0.004
82666	Linuron	0.002
39532	Malathion	0.005
82686	Azinphos-methyl	0.001
82667	Parathion-methyl	0.006
39415	Metolachlor	0.002
82630	Metribuzin	0.004
82671	Molinate	0.004
82684	Napropamide	0.003
34653	p,p'-DDE	0.006
39542	Parathion	0.004
82669	Pebulate	0.004
82683	Pendimethalin	0.004
82687	cis-Permethrin	0.005
82664	Phorate	0.002
04037	Prometon	0.018
82676	Propyzamide	0.003
04024	Propachlor	0.007
82679	Propanil	0.004
82685	Propargite	0.013
04035	Simazine	0.005
82670	Tebuthiuron	0.010
82665	Terbacil	0.007
82675	Terbufos	0.013
04022	Terbuthylazine	0.1
82681	Thiobencarb	0.002
82678	Triallate	0.001
82661	Trifluralin	0.002

Analyses of volatile organic compounds in surface-water and ground-water samples (schedule 2020/2021)

Selected surface water samples from ASMN and DELR-NAWQA study sites and selected ground-water samples from ambient monitoring network sites were analyzed for volatile organic compounds (VOCs) in 2000. The National Water Quality Lab (NWQL) created a method for accurate determination of VOCs in water in the nanogram per liter range, schedules 2020/2021. The method described in USGS Open-File Report 97-829 (Connor and others) is similar to USEPA method 524-2 (Mund, 1995) and the method described by Rose and Schroeder (1995). Minor improvements to instrument operating conditions include the following: additional compounds, quantitation ions that are different from those recommended in USEPA Method 524.2 because of interferences from the additional compounds, and a data reporting strategy for measuring detected compounds extrapolated at less than the lowest calibration standard or measured at less than the reporting limit. The laboratory reporting limit (LRL) is introduced as a statistically defined reporting limit designed to limit false positives and false negatives to less than 1 percent.

This table lists the volatile organic compounds on the schedule, the unit of measure (micrograms per liter (µg/L), the U.S. Geological Survey National Water Information System parameter code, the Union of Pure and Applied Chemistry (IUPAC) compound name, and the National Water Quality Laboratory compound name. Positive detections measured at less than LRL but greater than or equal to the long-term method-detection limit are reported as estimated concentrations (E) to alert the data user to decreased confidence in accurate quantitation. Values for analytes in the 2020/2021 schedules are preceded by an "E" in the following situations:

1. When the calculated concentration is less than the lowest calibration standard. The analyte meets all identification criteria to be positively identified, but the amount detected is below where it can be reliably quantified.

2. If a sample is diluted for any reason. The method reporting level is multiplied by the dilution factor to obtain the adjusted method reporting level. Values below the lowest calibration standard, multiplied by the dilution factor are qualified with an "E". For example, a value of 0.19 in a 1:2 dilution is reported as E0.1.

3. If the set spike has recoveries out of the specified range (60-140%).

4. If the analyte is also detected in the set blank. If the value in the sample is less than five times the blank value and greater than the blank value plus the long term method detection limit, the value is preceded by an "E" to indicate that the analyte is positively identified but not positively quantified because the analyte was also detected in the blank.

Only VOCs measured at or above the minimum

reporting level for one or more samples are listed in the water-quality tables.

SCHEDULE DESCRIPTION.--The sample water is actively purged with helium to extract the volatile organic compounds. The volatile compounds are trapped onto a sorbent trap, thermally desorbed, separated by a megabore gas chromatographic capillary column, and finally determined by a full scan quadropole mass spectrometer. Compound identification is confirmed by the gas chromatographic retention time and by the resultant mass spectrum, typically identified by three unique ions.

SAMPLE REQUIREMENTS.--Water collected in vials placed in stainless steel VOC sampler. Hydrochloric acid is used for preservation. Chilled at 4°C (packed in ice).

CONTAINER REQUIREMENTS.--40 milliliter baked amber septum glass vial, from OCALA Quality Water Service Unit.

PCODE.--The EPA/USGS parameter code

COMPOUND NAME.--IUPAC nomenclature

LRL.--Laboratory reporting level

PCode	Compound Name	LRL (µg/L)
77041	Carbon disulfide	0.07
34506	1,1,1-Trichloroethane	0.032
34516	1,1,2,2-Tetrachloroethane	0.09
34511	1,1,2-Trichloroethane	0.06
34496	1,1-Dichloroethane	0.066
34501	1,1-Dichloroethylene	0.04
77168	1,1-Dichloropropene	0.026
77443	1,2,3-Trichloropropane	0.16
77651	1,2-Dibromoethane	0.036
32103	1,2-Dichloroethane	0.13
34541	1,2-Dichloropropane	0.068
34546	trans-1,2-Dichloroethylene	0.032
77170	2,2-Dichloropropane	0.05
73547	trans-1,4-Dichloro-2-butene	0.7
77103	2-Hexanone	0.7
81552	Acetone	7.0
34215	Acrylonitrile	1.2
77613	1,2,3-Trichlorobenzene	0.27
77221	1,2,3-Trimethylbenzene	0.12
34551	1,2,4-Trichlorobenzene	0.19
77222	1,2,4-Trimethylbenzene	0.056
77226	1,3,5-Trimethylbenzene	0.044
34566	1,3-Dichlorobenzene	0.054
34571	1,4-Dichlorobenzene	0.050
77223	Isopropylbenzene	0.032
77342	Butylbenzene	0.19
77224	n-Propylbenzene	0.042
34536	1,2-Dichlorobenzene	0.048
77350	sec-Butylbenzene	0.032
77353	tert-Butylbenzene	0.06
34030	Benzene	0.035
81555	Bromobenzene	0.036
50002	Bromoethene	0.10
32104	Bromoform	0.06
32102	Tetrachloromethane	0.06
34301	Chlorobenzene	0.028
32105	Dibromochloromethane	0.18
34311	Chloroethane	0.12
32106	Chloroform	0.052
77093	cis-1,2-Dichloroethylene	0.038
34704	cis-1,3-Dichloropropene	0.09
82625	1,2-Dibromo-3-chloropropane	0.21
30217	Dibromomethane	0.050
32101	Bromodichloromethane	0.048
34668	Dichlorodifluoromethane	0.27
81577	Diisopropyl ether	0.10
77562	1,1,1,2-Tetrachloroethane	0.030
34396	Hexachloroethane	0.19
81576	Diethyl ether	0.17
50004	Ethyl tert-butyl ether	0.054
50005	tert-Pentyl methyl ether	0.11
34371	Ethylbenzene	0.030
77652	1,1,2-Trichlorotrifluoroethane	0.06
81607	Tetrahydrofuran	2.2
39702	Hexachlorobutadiene	0.14
50000	1,2,3,5-Tetramethylbenzene	0.20
73570	Ethyl methacrylate	0.18
81597	Methyl methacry late	0.35
81593	Methyl acrylonitrile	0.6
77297	Bromochloromethane	0.044
49991	Methyl acrylate	1.4
77424	Methyl iodide	0.12
78032	tert-Butyl methyl ether	0.17
34413	Bromomethane	0.26
34418	Chloromethane	0.5
34423	Dichloromethane	0.38
81595	2-Butanone	1.6
78133	4-Methyl-2-pentanone	0.37
85795	m- and p-Xylene	0.06
34696	Naphthalene	0.25
77275	2-Chlorotoluene	0.042
77135	o-Xylene	0.038
77356	4-Isopropyl-1-methylbenzene	0.07
49999	1,2,3,4-Tetramethylbenzene	0.23
77173	1,3-Dichloropropane	0.12
78109	3-Chloropropene	0.20
77128	Styrene	0.042
34475	Tetrachloroethylene	0.10
77220	o-Ethyl toluene	0.06
77277	4-Chlorotoluene	0.06
34010	Toluene	0.05
34699	trans-1,3-Dichloropropene	0.09
39180	Trichloroethylene	0.038
34488	Trichlorofluoromethane	0.09
39175	Vinyl chloride	0.11

Polyaromatic hydrocarbons in stream bottom material

Stream bed sediments collected at stations in the Ambient Stream Monitoring Program were analyzed for polyaromatic hydrocarbons during the months of August and September. Full parameter names are listed in the table below, abbreviated parameter names are used in the station records.

PCode	Compound Name
39519	TOTAL POLYCHLORINATED BYPHENYLS
49429	ACENAPHTHENE
49428	ACENAPHTHYLENE
49434	ANTHRACENE
49436	BENZO(a)ANTHRACENE
49458	BENZO(b)FLUORANTHENE
49397	BENZO(k)FLUORANTHENE
49408	BENZO(g,h,i)PERYLENE
49389	BENZO(a)PYRENE
49450	CHRYSENE
49451	p-CRESOL
49411	4h-CYCLOPENTA(d,e,f)PHENANTHRENE
49461	DIBENZO(a,h)ANTHRACENE
49403	1, 2-DIMETHYLNAPHTHALENE
49404	1, 6-DIMETHYLNAPHTHALENE
49406	2, 6-DIMETHYLNAPHTHALENE
49948	2-ETHYLNAPHTHALENE
49399	9h-FLUORENE
49466	FLUORANTHENE
49400	ISOPHORONE
49435	2-METHYLANTHRACENE
49398	1-METHYL-9h-FLUORENE
49390	1-METHYLINDENO(1,2,3-c,d)PYRENE
49410	1-METHYLPHENANTHRENE
49388	1-METHYLPYRENE
49402	NAPHTHALENE
49409	PHENANTHRENE
49393	PHENANTHRIDINE
49387	PYRENE
49405	2, 3, 6-TRIMETHYLNAPHTHALENE

Stream bed sediments collected at stations by the Delaware River NAWQA study were analyzed for polyaromatic hydrocarbons. Full parameter names are listed in the table below, abbreviated parameter names are used in the station records.

PCode	Compound Name
49270	Inorganic carbon
49271	Organic carbon
49272	Total carbon
49316	cis-Nonachlor
49317	trans-Nonachlor
49318	Oxychlordane
49319	Aldrin
49320	cis-Chlordane
49321	trans-Chlordane
49322	Chloroneb
49324	Dacthal
49325	o,p'-DDD
49326	p,p'-DDD
49327	o,p'-DDE
49328	p,p'-DDE
49329	o,p'-DDT
49330	p,p'-DDT
49331	Dieldrin
49332	alpha-Endosulfan
49335	Endrin
49338	alpha-HCH
49339	beta-HCH

PCode	Compound Name
49341	Heptachlor
49342	Heptachlor epoxide
49343	Hexachlorobenzene
49343	Hexachlorobenzene
49344	Isodrin
49345	Lindane
49346	p,p'-Methoxychlor
49347	o,p'-Methoxychlor
49348	Mirex
49349	cis-Permethrin
49350	trans-Permethrin
49351	Toxaphene
49381	Di-n-butyl phthalate
49382	Di-n-octyl phthalate
49383	Diethyl phthalate
49384	Dimethyl phthalate
49387	Pyrene
49388	1-Methylpyrene
49389	Benzo[a]pyrene
49390	Indeno[1,2,3-cd]pyrene
49391	2,2'-Biquinoline
49392	Quinoline
49393	Phenanthridine
49394	Isoquinoline
49395	2,4-Dinitrotoluene
49396	2,6-Dinitrotoluene
49397	Benzo[k]fluoranthene
49398	1-Methyl-9H-fluorene
49399	Fluorene
49400	Isophorone
49401	bis(2-Chloroethoxy)methane
49402	Naphthalene
49403	1,2-Dimethylnaphthalene
49404	1,6-Dimethylnaphthalene
49405	2,3,6-Trimethylnaphthalene
49406	2,6-Dimethylnaphthalene
49407	2-Chloronaphthalene
49408	Benzo[g,h,i]perylene
49409	Phenanthrene
49410	1-Methylphenanthrene
49411	4H-cyclopenta[d,e,f]phenanthrene
49413	Phenol
49414	2,3,5,6-Tetramethylphenol
49415	2,4,6-Trichlorophenol
49416	2,4,6-Trimethylphenol
49417	2,4-Dichlorophenol
49418	2,4-Dinitrophenol
49419	4,6-Dinitro-2-methylphenol
49420	2-Nitrophenol
49421	3,5-Dimethylphenol
49422	4-Chloro-3-methylphenol
49423	4-Nitrophenol
49424	C8-Alkylphenol
49425	Pentachlorophenol
49426	Bis(2-ethylhexyl) phthalate
49427	Butylbenzyl phthalate
49428	Acenaphthylene
49429	Acenaphthene
49430	Acridine
49431	N-Nitrosodi-n-propylamine
49433	N-Nitrosodiphenylamine
49434	Anthracene
49435	2-Methylanthracene
49436	Benz[a]anthracene
49437	Anthraquinone

PCode	Compound Name
49438	1,2,4-Trichlorobenzene
49439	1,2-Dichlorobenzene
49441	1,3-Dichlorobenzene
49442	1,4-Dichlorobenzene
49443	Azobenzene
49444	Nitrobenzene
49446	Pentachloronitrobenzene
49448	Hexachlorobutadiene
49449	Carbazole
49450	Chrysene
49451	p-Cresol
49452	Dibenzothiophene
49453	Hexachloroethane
49454	4-Bromophenylphenylether
49455	4-Chlorophenyl phenyl ether
49456	bis(2-Chloroethyl)ether
49457	bis(2-Chloroisopropyl)ether
49458	Benzo[b]fluoranthene
49459	Polychlorinated biphenyls
49460	Pentachloroanisole
49460	Pentachloroanisole
49461	Dibenz[a,h]anthracene
49466	Fluoranthene
49467	2-Chlorophenol
49468	Benzo[c]cinnoline
49489	Hexachlorocyclopentadiene
49948	2-Ethylnaphthalene

Methylene blue active substances

MBAS determinations made from January 1, 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected by using the following equation, if concentrations of dissolved nitrate plus nitrite, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

$$MBASCOR = M - 0.0088N - 0.00019C$$

where:

MBASCOR = corrected MBAS concentration, in mg/L;
M = reported MBAS concentration, in mg/L;
N = dissolved nitrate plus nitrite, as nitrogen, concentration, in mg/L; and
C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L. A detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970 through August 29, 1993.

Analysis of acid neutralizing capacity (ANC)

Prior to October 1, 1996, ANC was called ALKALINITY, LAB.

Analysis of inorganic carbon in bottom material

Prior to October 1996, the analysis of total inorganic carbon in bottom material by the National Water Quality Laboratory (NWQL) was subject to a systematic positive bias of 3 percent. That is, results calculated before this date were found to be about 3 percent higher than results calculated correctly with a new computer system. The average agreement between analysis results for duplicate samples (a measure of the NWQL's precision for this analysis) is 98 percent. The 3-percent bias, therefore, approximates the precision of the analytical method. The overall effect on historical data from New Jersey is minor. Ninety-three percent of the reported concentrations for this analysis were less than 1.7 grams per kilogram; values of this magnitude are unaffected because the difference is obscured by rounding prior to publication of the analysis results. The magnitude of the error is such that the 3 percent difference, effective October 1, 1996, is indiscernible in the relatively small data set for any station.

Data Presentation

Precision varies for different analytical methods used to determine the same constituent. The presence of trailing zeros after the decimal in values printed in this report does not necessarily indicate that the method used for the determination is as precise as the level implied by the rightmost zero.

The column headings for water-quality constituents include 5-digit EPA Storet parameter codes. The codes are included to permit accurate cross reference to data from other data bases using the same code system.

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

Station manuscript

The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the station with respect to the cultural and physical features in the vicinity and with respect to the reference place.

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

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

periods of record are given for the parameters individually.

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

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

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

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

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

The surface-water-quality records for partial-record stations and miscellaneous sampling sites which are not at a surface-water daily record station are published in separate tables following the continuous record data. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark codes

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

PRINTED OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified but not quantified.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.
V	Analyte was detected in both the environmental sample and the associated blanks.

Quality-control data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

BLANK SAMPLES.--Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this District are:

Source solution blank - a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank - a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Pump blank - a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank - a blank solution that is poured from the containment vessel (standpipe) before the pump is inserted to obtain the pump blank.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Cannister blank - a blank solution that is taken directly from a stainless steel cannister just before the VOC sampler is submerged to obtain a field blank sample.

REFERENCE SAMPLES.--Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

REPLICATE SAMPLES.--Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this District are:

Concurrent sample - a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

SPIKE SAMPLES.--Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Concurrent sample - a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample - a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Dissolved Trace-Element Concentrations

Note.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols in water year 1994. Full implementation of the protocols took place during the 1995 water year.

CURRENT WATER RESOURCES PROJECTS IN NEW JERSEY

The Geological Survey is currently involved in a number of hydrologic investigations in the State of New Jersey. The following is a list of these investigations. Results are published at the conclusion of short-term projects or periodically in the case of long-term projects. Hydrologic data from these projects are entered into the NWIS data base.

Barnegat Bay Non-Point Source

Characterization of the Water Quality of the Delaware and Raritan Canal

Compositional Modeling of Organic Transport and Biodegradation of Organic Compounds in the Unsaturated Zone and Ground Water

Delaware River Basin National Water Quality Assessment

Development of Database and Models to Support Source Water Assessment Program

Distribution of MTBE and Related VOC Compounds in Lakes in Northern NJ and Investigation of Lake-Well Interactions

Distribution of Radium and Related Radionuclides in Coastal-Plain Aquifers

EPA Technical Assistance Program

Estimation of the Relative Importance of Nonpoint Source Loads in the Raritan River Basin

Flood Characteristics of New Jersey Streams

Geohydrology of the Naval Air Warfare Center, West Trenton, New Jersey

Ground-Water Data Collection Network

Ground-Water Levels and Chloride Concentrations in Major Aquifers of the Coastal Plain

Ground-Water Supply Availability in the Northern Passaic Basin

High-Flow Water Quality Management Objectives

Hydrology of Surficial Aquifer Systems

Hydrogeologic Support to Fort Dix, Burlington County, New Jersey

Hydrogeologic Support to McGuire A.F.B., Burlington County, New Jersey

Hydrogeologic Support to Picatinny Arsenal, Morris County, New Jersey

Investigation of Contaminant Transport in a Fractured Rock Aquifer, Rutgers University, Busch Campus

Investigation of GW-SW Interaction in the Northern Passaic River Valley, New Jersey

Investigation of hydrogeology and VOC Contamination in Fair Lawn, New Jersey

Investigation of Potential Threats to Water Supply from the PRM Aquifer in Salem and Western Gloucester Counties, New Jersey

Investigation of Water Quality in the Wanaque South Diversion Area, Morris and Passaic Counties, New Jersey

Low Flow Characteristics of New Jersey Streams

Modeling and Experimental Investigation of Hydrocarbon Transport and Biodegradation in the Unsaturated Zone

Model of the Manasquan Water Supply System

Movement of Chromium in the Ground Water of Pennsauken Township, Camden County

Multispecies Transport in Ground Water

New Jersey-Long Island National Water Quality Assessment

New Jersey Tide Telemetry System

Pascack Brook Flood Warning System

Passaic Flood Warning System

Program to Maintain and Update Ground-Water Models to Evaluate Continued Water-Supply Development

Quality of Water Data Collection Network

Rahway Flood Warning System

Reconstruction of Natural Streamflow Records, Passaic and Hackensack River Basins

Small-Scale Watershed Delineation for GIS (14-Digit Hydrologic Unit Codes)

Small Watershed Flood Data Collection

Somerset County Flood-Information System

Strategic Environmental Research Development Program, Biodegradation, Picatinny Arsenal

Surface Water Data Collection Network

Vulnerability Assessment of the Kirkwood-Cohansey Aquifer System to Radium, Mercury, and Trace Metals

Vulnerability of Public Supply Wells and Surface-Water Intakes in New Jersey for Chemicals of Concern (Source Water Assessment Program)

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ACCESS TO USGS WATER DATA

The U.S. Geological Survey provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the avail-

ability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (see address on the back of the title page).

DEFINITION OF TERMS

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

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

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

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

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inch (IN., in.) as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 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 warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 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 in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on

mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by groundwater discharge in the absence of direct runoff.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

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

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

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

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

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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

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

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

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

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

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

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

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given

point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) 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, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

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

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

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

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

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

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

$$= -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n}{r}$$

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

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

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

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data 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 computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

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 pres

ence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hydrologic benchmark 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 benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$' = I_o e^{-\lambda l},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$, = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Laboratory Reporting Level (LRL) is generally equal to twice the yearly determined long term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a non-detection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" remark code for samples in which the analyte was not detected. The National Water Quality Laboratory collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDL's and establish LRL's. These values are re-evaluated annually based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV - a term that is no longer used.]

Long Term Method Detection Level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte (U.S. Environmental Protection Agency, 1997). At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water.

One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88*

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test the findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NOx scheduled to begin in 2000.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a longterm program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

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 meter (m^2), acre, or hectare. 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 milliliter (mL) or liter (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.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/ sieve
Gravel	2.0 - 64.0	Sieve

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

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

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

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

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (ci). A curie is the quantity of any radioactive nuclide that yields 3.7×10^{-10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

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

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

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

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

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic

environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

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

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

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

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic 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 of 35 and 37, and the natural mixture has an atomic weight of 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. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

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

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

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

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. *See: http://www.co-ops.nos.noaa.gov/ glossary/ gloss_n.html#NGVD*

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also 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 environmen-

tal factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

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

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

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

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Suspended total residue at 105 Deg. C concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l). A small aliquot of the sample is used for the analysis.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See "Gage height."

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

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

Substrate is the physical surface upon which an organism lives.

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

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

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

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

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

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

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

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

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

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

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

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

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

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

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

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

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

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

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

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbid-

ity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. 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 includes 9 of the 12 months. Thus, the year ending September 30, 2000, is called the "2000 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

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

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

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

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TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

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

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

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Book 6. Modeling Techniques

Section A. Ground Water

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

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

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

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

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

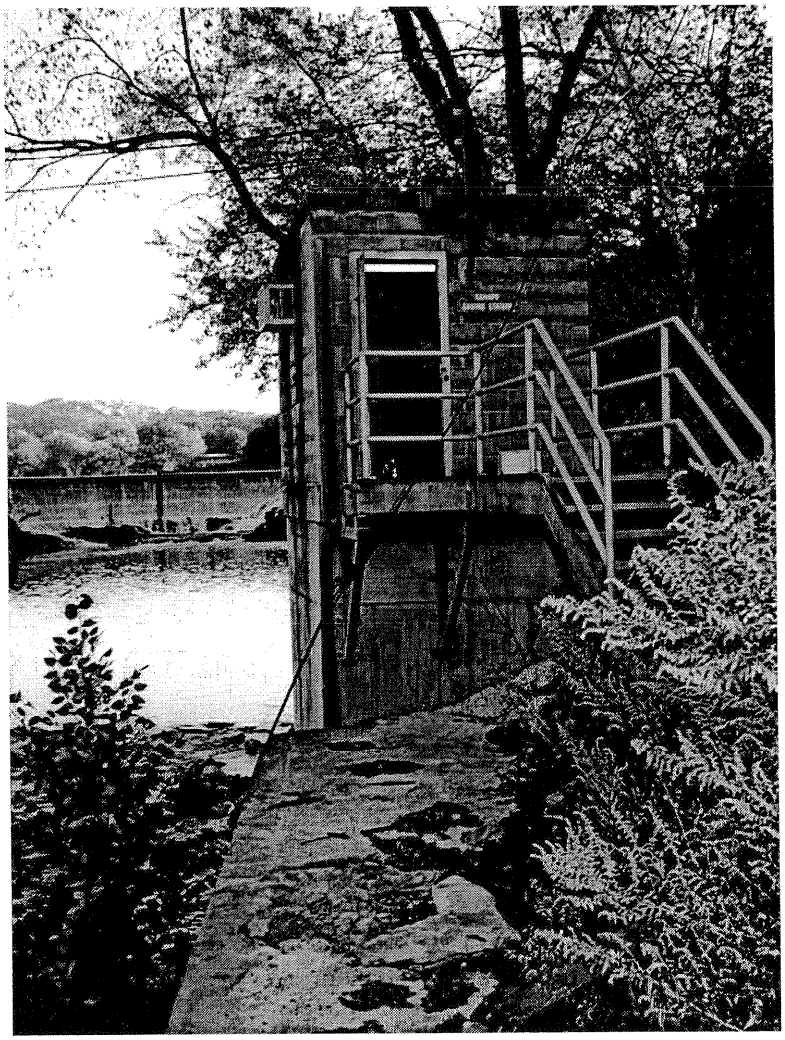
9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

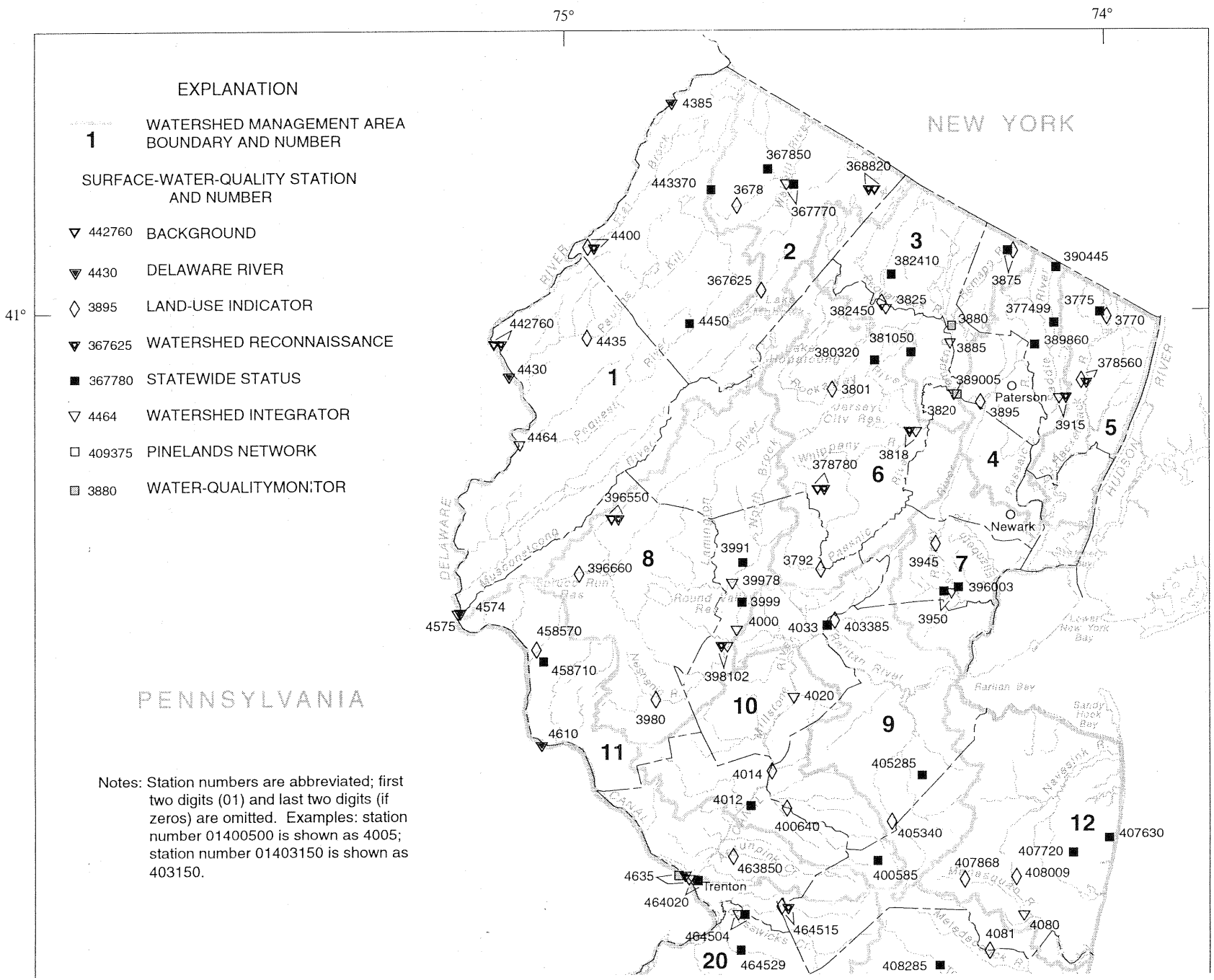
9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 pages.



Continuous-recording station 01388000 Ramapo River at Pompton Lakes, New Jersey.
(Photo by M.J. DeLuca)



Notes: Station numbers are abbreviated; first two digits (01) and last two digits (if zeros) are omitted. Examples: station number 01400500 is shown as 4005; station number 01403150 is shown as 403150.

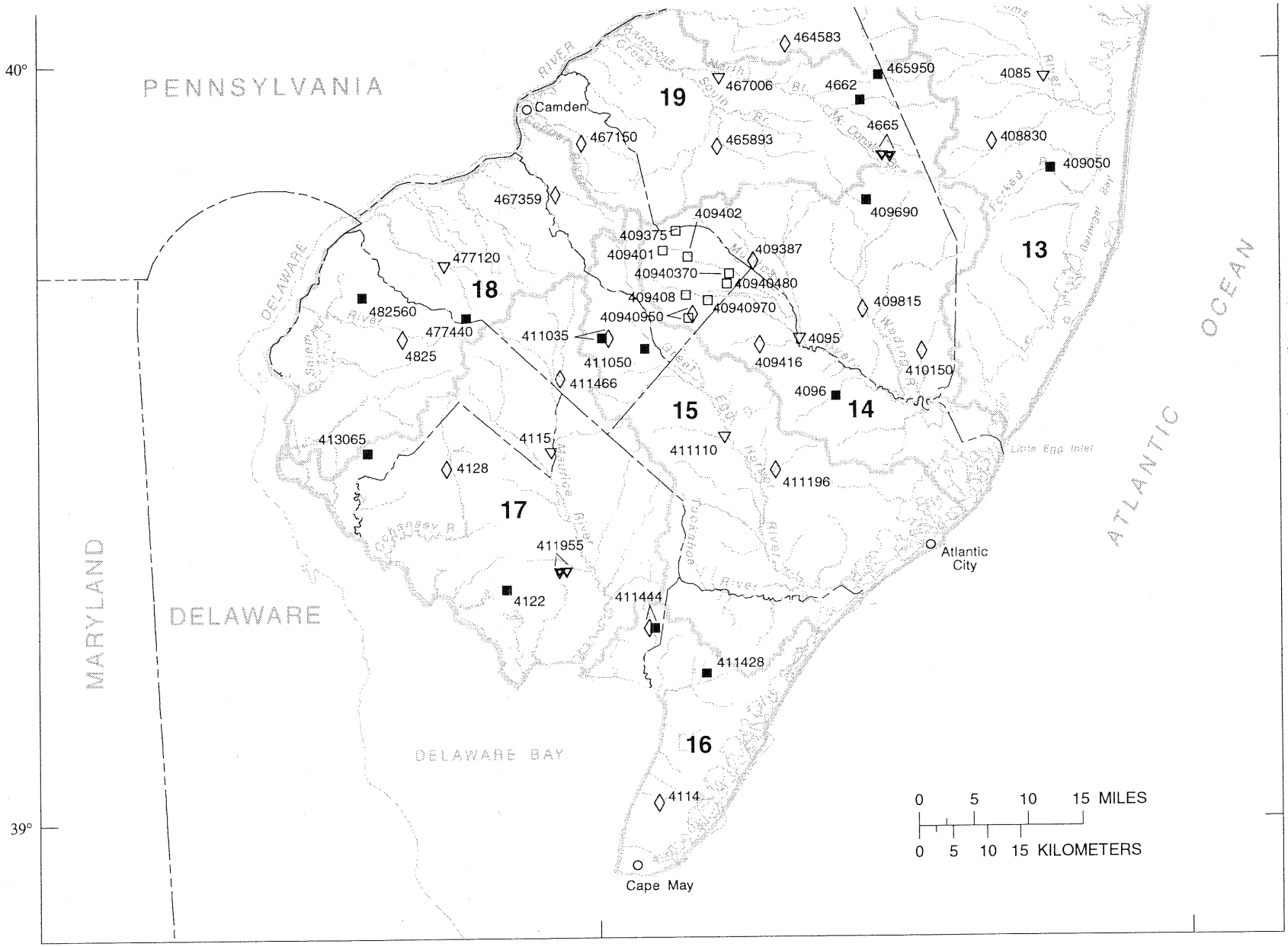


Figure 18. Map showing locations and types of surface-water-quality stations.

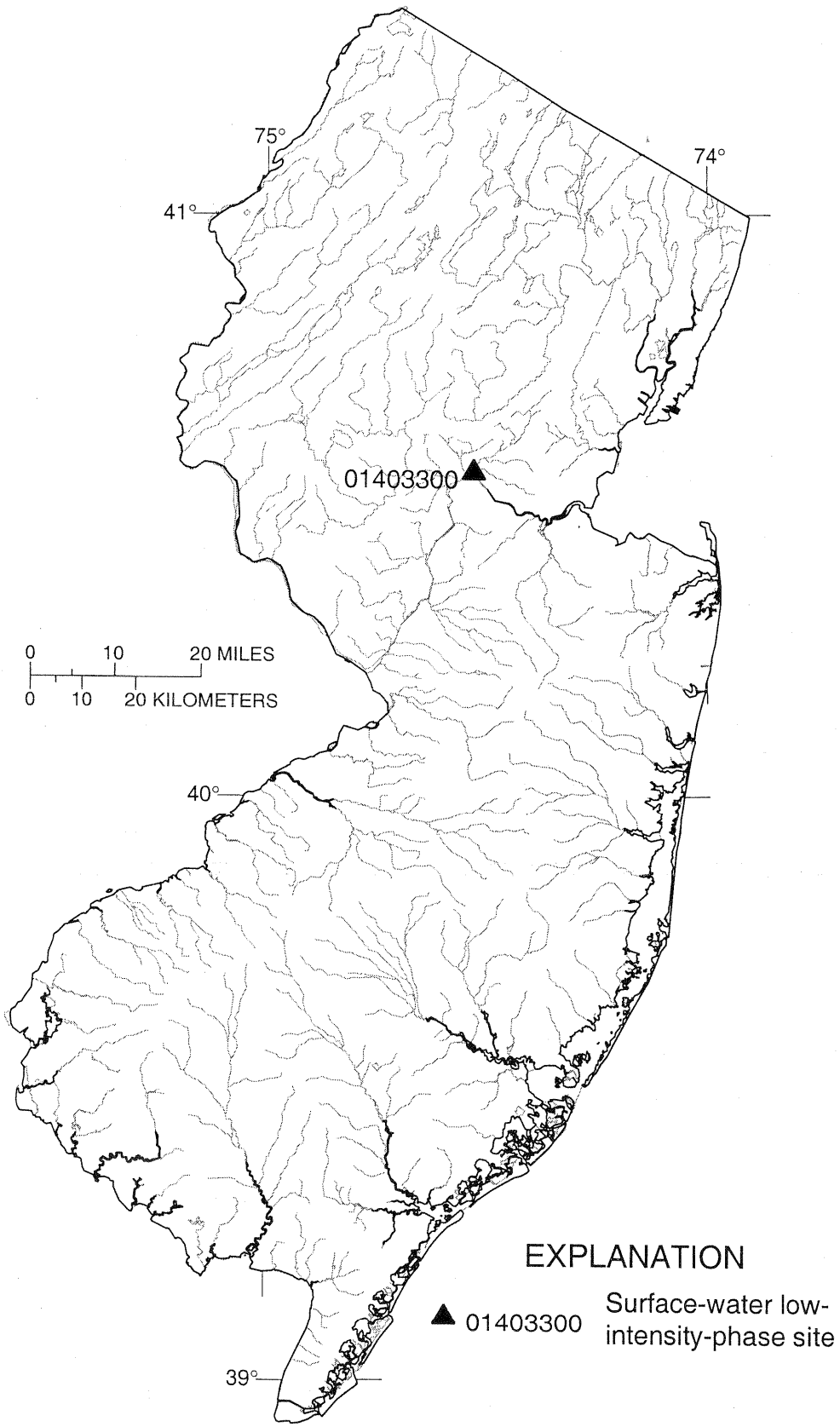


Figure 19. Location of Long Island-New Jersey National Water Quality Assessment Program surface-water low-intensity-phase network.

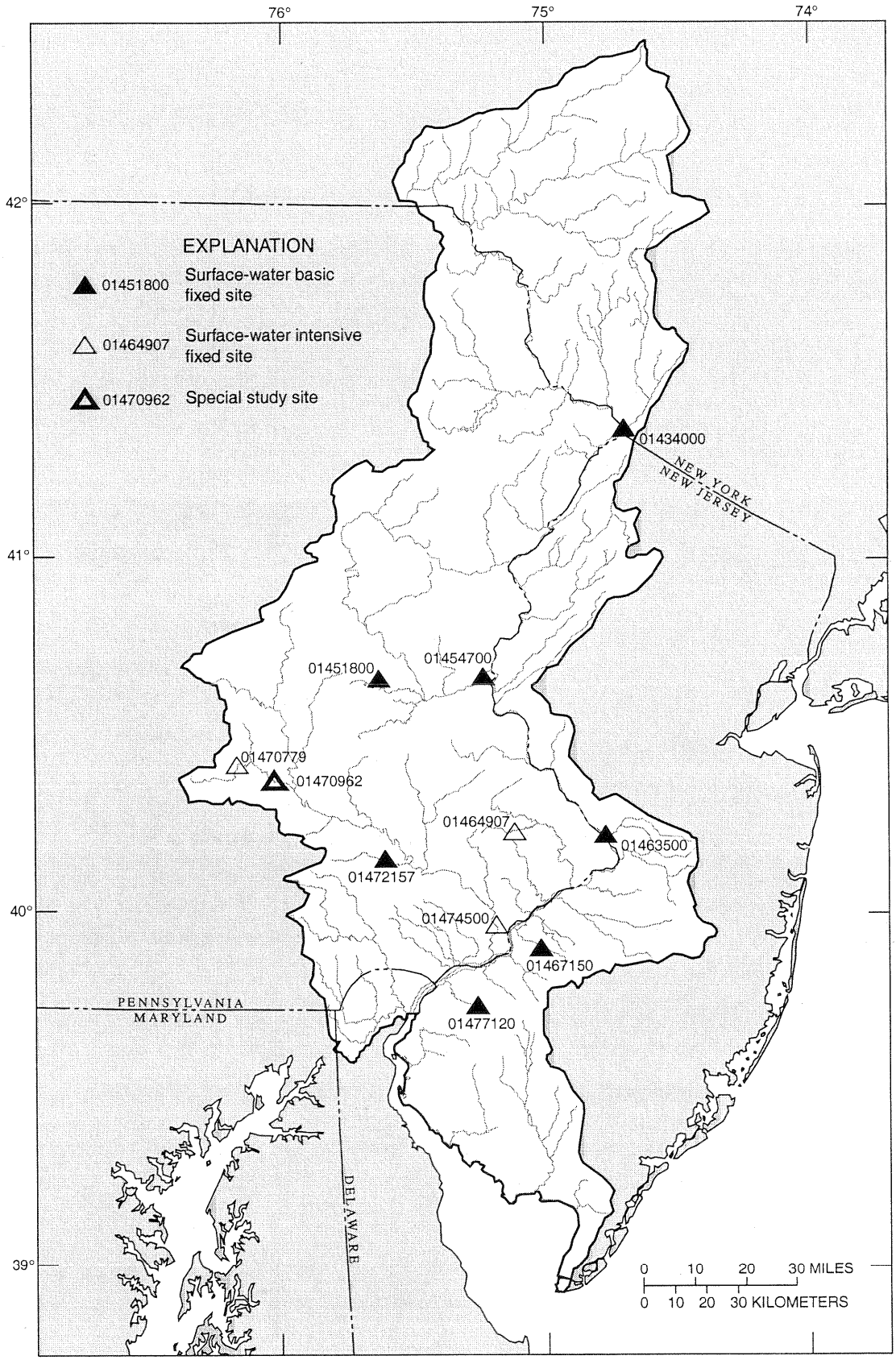


Figure 20. Location of Delaware River National Water-Quality Assessment Program surface-water fixed site network.

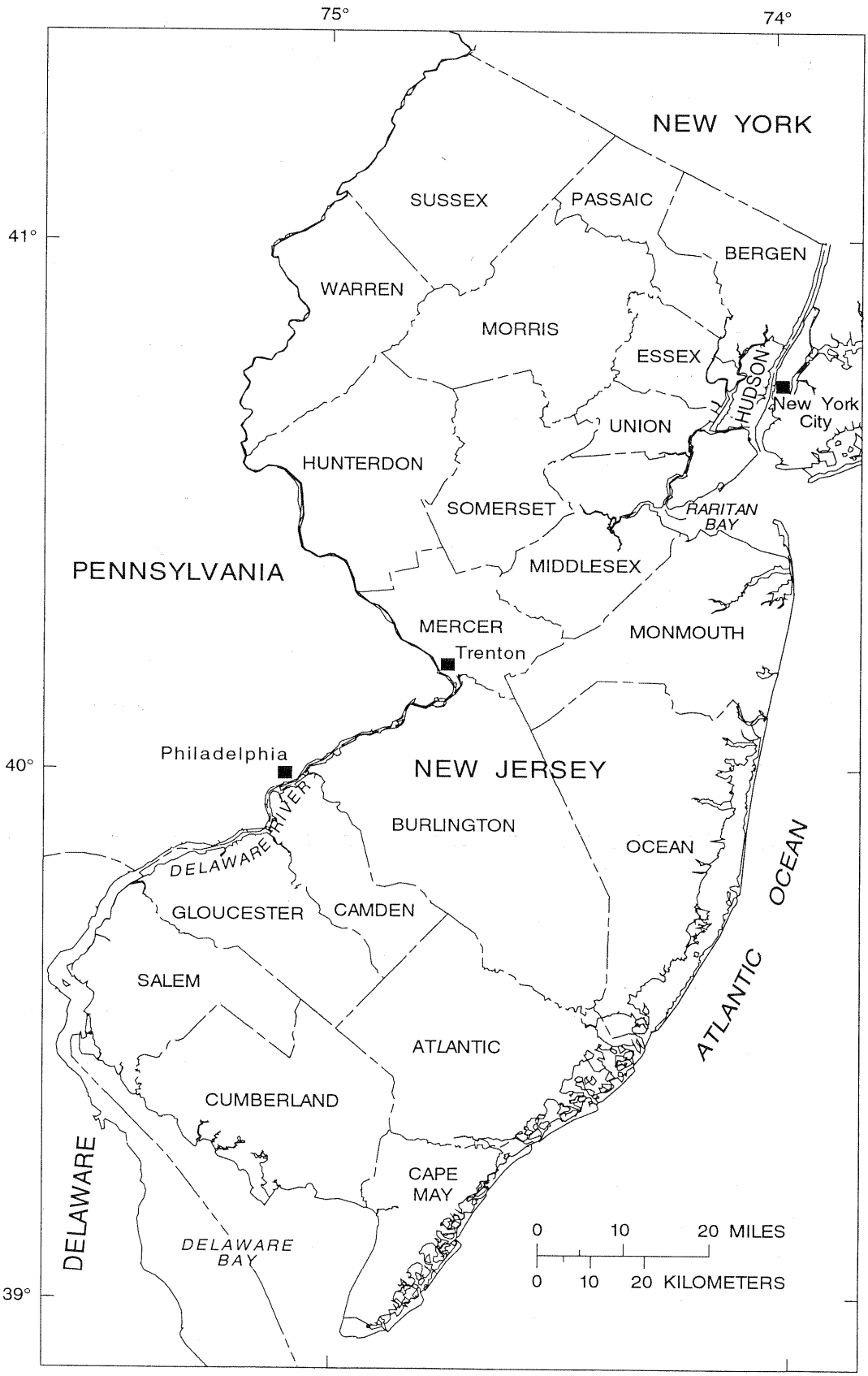


Figure 21. Map showing counties in New Jersey.

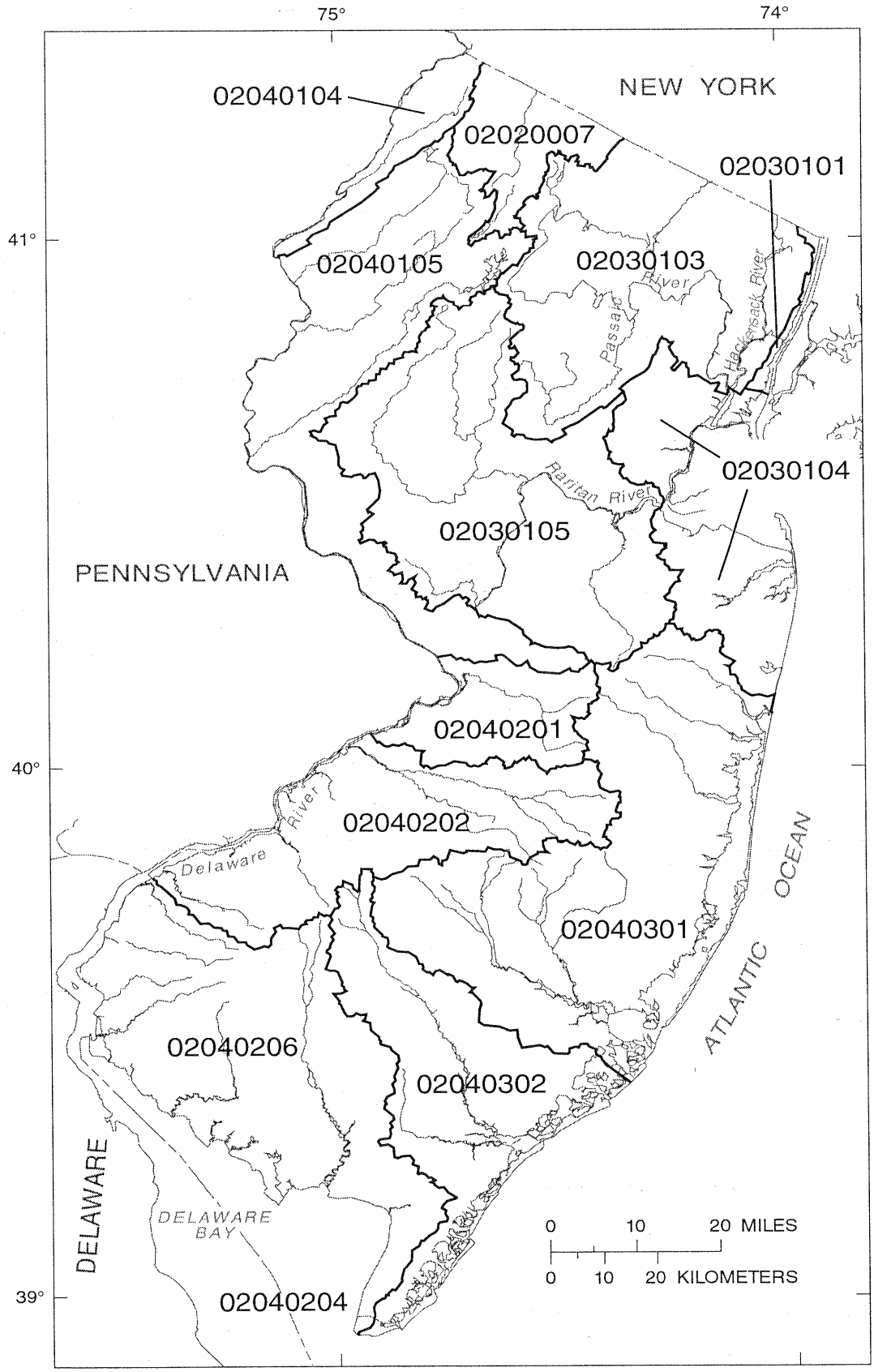


Figure 22. Map showing cataloging units and codes in New Jersey. (Modified from Seaber and others, 1987)

01367625 WALLKILL RIVER AT SPARTA, NJ

LOCATION.--Lat 41°02'20", long 74°37'48", Sussex County, Hydrologic Unit 02020007, 0.4 mi northeast of Sparta, 1.2 mi downstream of outlet of Lake Mohawk, and 1.8 mi east of Fox Hollow Lake.

DRAINAGE AREA.--5.88 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
09...	1257	18	745	96	10.6	8.2	661	10.0	.085	.063
FEB 2000										
23...	1210	15	755	103	13.5	8.3	705	3.5	.062	.044
MAY										
18...	1340	7.5	740	95	8.7	8.1	626	18.0	.077	.048
AUG										
08...	1420	8.6	742	91	7.3	8.1	644	25.0	.068	.049

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
09...	180	44.1	17.8	1.9	52.7	129	112	<.1	3.2	23.0
FEB 2000										
23...	170	41.4	16.4	1.3	62.0	122	123	<.1	3.9	23.6
MAY										
18...	160	38.4	16.4	1.1	54.8	127	107	<.1	5.3	18.3
AUG										
08...	180	42.5	16.8	1.5	51.7	136	103	.1	4.3	17.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
09...	.48	1.4	.07	.090	1.8	.90	.422	.021	.032	.178
FEB 2000										
23...	.33	.32	.03	.030	.82	.84	.508	.004	.010	.024
MAY										
18...	.30	.39	<.03	.030	.90	.82	.517	.008	.025	.048
AUG										
08...	.33	.46	<.03	<.030	.97	.84	.510	.011	.028	.053

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	5.0	>4.0	3.0	40	349	334	29	--	--
FEB 2000									
23...	3.1	.3	E2.0	1	357	347	20	--	--
MAY									
18...	3.6	1.0	E1.4	--	332	320	E16	.09	4
AUG									
08...	3.5	.6	E2.1	--	342	321	30	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01367625 WALLKILL RIVER AT SPARTA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	1315	310	400	180	10...	1200	2200	0	90
JUL					17...	1200	230	200	110
03...	1210	16000	1800	150	24...	1215	790	300	20

01367770 WALLKILL RIVER NEAR SUSSEX, NJ

LOCATION.--Lat 41°11'38", long 74°34'32", Sussex County, Hydrologic Unit 02020007, at bridge on Glenwood Road, 0.6 mi upstream from Papakating Creek, 1.7 mi southwest of Independence Corner, and 2.0 mi southeast of Sussex.

DRAINAGE AREA.--60.8 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
09...	0950	54	760	91	11.2	8.0	487	6.5	.147	.111
MAR 2000										
01...	1010	330	752	88	12.0	7.7	363	2.0	.143	.110
MAY										
18...	1010	76	749	77	7.5	7.8	491	16.0	.171	.123
AUG										
08...	1000	70	750	81	7.0	7.9	502	21.5	.194	.147

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
09...	170	40.2	16.6	2.1	30.3	132	60.5	<.1	8.0	23.5
MAR 2000										
01...	100	24.5	9.87	1.0	26.2	81	49.5	<.1	7.5	13.6
MAY										
18...	170	38.6	17.1	1.1	31.8	148	52.8	<.1	6.6	11.9
AUG										
08...	170	41.6	16.9	1.6	30.3	156	52.6	.1	9.7	10.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
09...	.30	.43	<.03	.030	1.7	1.5	1.23	.003	.013	.021
MAR 2000										
01...	.24	.27	<.03	<.030	.91	.88	.633	.007	.014	.025
MAY										
18...	.39	.51	.09	<.030	1.2	1.1	.677	.006	.026	.048
AUG										
08...	.37	.45	<.03	<.030	1.4	1.3	.943	.003	.031	.049

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	4.9	.2	E1.4	1	280	266	30	--	--
MAR 2000									
01...	4.3	.3	<1.0	<1	195	184	17	--	--
MAY									
18...	5.2	.6	E1.5	--	264	251	E11	1.9	9
AUG									
08...	5.8	.4	<1.2	--	280	261	23	1.3	7

E Estimated value.
< Actual value is known to be less than the value shown.

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
AUG 2000											
08...	1000	--	--	--	--	--	E2	25.8	<1	21	<1.0
08...	1000	5900	16	1700	35	5.4	--	--	--	--	--

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)
AUG 2000											
08...	<1	2	450	<1	146	<.3	<1	<1	<1	15	--
08...	--	--	--	--	--	--	--	--	--	--	14

DATE	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)
AUG 2000											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	1.1	29	9.3	33	27000	56	2300	.12	29	<1	1700

DATE	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG 2000											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	<50	<50	E30	<50	E20	60	80	100	E30

DATE	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000										
08...	--	--	--	--	--	--	--	--	--	--
08...	80	100	E10	150	60	<50	<50	<50	<50	E20

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
08...	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	E44	<50	<50	50	<50	<50	130	35

E Estimated value.
< Actual value is known to be less than the value shown.

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
MAR 2000 01...	1010	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
MAR 2000 01...	<.20	<.10	<.2	<.10	.24	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 2000 01...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 18...	1010	<.002	<.002	.012	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.010

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 18...	.005	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.003	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 18...	<.006	<.004	E.010	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1120	1300	2300	650
JUL 2000				
03...	1045	1300	100	60
10...	1055	170	0	110
17...	1100	330	300	350

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ

LOCATION.--Lat 41°09'45", long 74°40'31", Sussex County, Hydrologic Unit 02020007, at bridge on State Route 565 in Pellettown, 1.5 mi southeast of Wykertown, and 4.8 mi upstream of confluence with West Branch.

DRAINAGE AREA.--15.8 mi^2.

PERIOD OF RECORD.--Water years 1959-63, 1999 to current year..

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
09...	1200	7.8	750	109	13.4	7.5	373	6.0	.142	.106
MAR 2000										
01...	1230	96	749	100	13.2	7.3	234	3.0	.135	.104
MAY										
18...	1220	13	747	95	9.5	7.9	341	14.5	.195	.139
AUG										
08...	1320	17	750	99	8.5	8.0	341	22.0	.303	.227

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
09...	130	40.8	5.84	1.5	19.7	67	45.7	<.1	7.2	42.5
MAR 2000										
01...	59	18.5	3.07	1.5	18.0	29	37.2	<.1	7.5	17.7
MAY										
18...	110	34.7	4.99	.9	19.9	86	38.3	<.1	6.9	16.7
AUG										
08...	110	34.4	4.87	1.9	20.0	89	39.3	<.1	11.8	12.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
09...	.22	.36	<.03	<.030	.93	.79	.571	.003	E.006	.011
MAR 2000										
01...	.31	.31	<.03	<.030	1.4	1.4	1.05	.003	.013	.034
MAY										
18...	.31	.38	<.03	.040	1.2	1.1	.804	.006	.019	.028
AUG										
08...	.46	.50	<.03	<.030	1.1	1.0	.560	<.003	.037	.049

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	4.8	.3	E1.3	1	223	206	E15	--	--
MAR 2000									
01...	4.0	.5	<1.3	6	143	126	E10	--	--
MAY									
18...	5.5	.4	E1.2	--	197	178	E10	.08	2
AUG									
08...	7.6	.2	<1.0	--	209	180	E14	.11	2

E Estimated value.
< Actual value is known to be less than the value shown.

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1215	3500	1800	410
JUL 2000				
03...	1105	790	200	200
10...	1115	1100	0	410
17...	1115	790	900	500

01367850 WEST BRANCH PAPAKATING CREEK AT MCCOYS CORNER, NJ

LOCATION.--Lat 41°11'49", long 74°37'55", Sussex County, Hydrologic Unit 02020007, 0.8 mi upstream from mouth, 1.7 mi southwest of intersection of State Routes 23 and 284 at Sussex.

DRAINAGE AREA.--11.0 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
03...	1130	743	105	11.3	7.7	327	11.0	.186	.142	96
FEB 2000										
16...	1130	752	97	13.8	7.6	359	.5	.114	.088	86
MAY										
16...	1100	758	105	10.8	8.1	283	14.0	.250	.193	83
AUG										
09...	1130	751	107	9.1	7.9	327	22.5	.229	.172	98

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
03...	31.1	4.45	3.3	21.4	50	43.0	<.1	8.9	38.7
FEB 2000									
16...	27.2	4.27	2.5	30.5	39	63.8	<.1	8.0	26.7
MAY									
16...	26.7	3.87	1.7	20.2	63	37.6	<.1	6.5	15.0
AUG									
09...	31.7	4.45	2.5	22.2	80	39.3	.2	10.1	11.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
03...	.36	.52	<.03	<.030	.96	.80	.442	.004	.029
FEB 2000									
16...	.34	.51	.07	.090	1.8	1.6	1.25	.014	.031
MAY									
16...	.43	.50	<.03	<.030	1.1	1.0	.614	.004	.054
AUG									
09...	.40	.42	<.03	<.030	1.1	1.1	.718	<.003	.055

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	.051	5.9	.5	E1.6	6	195	183	18	--
FEB 2000									
16...	.051	3.8	.2	E1.2	4	208	192	E11	--
MAY									
16...	.074	6.3	.2	E1.8	--	170	152	E14	4
AUG									
09...	.073	6.1	.2	<1.2	--	209	173	E16	4

E Estimated value.
< Actual value is known to be less than the value shown.

01367850 WEST BRANCH PAPAKATING CREEK AT MCCOYS CORNER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 09...	1130	<3	11.6	<1	17	<1.0	E1	1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 09...	330	<1	52	<.3	<1	<1	<1	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 16...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 16...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 16...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 16...	1100	<.002	<.002	.014	<.002	<.002	<.003	<.003	<.004	<.004	.006	E.010

E Estimated value.
< Actual value is known to be less than the value shown.

01367850 WEST BRANCH PAPAKATING CREEK AT MCCOYS CORNER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
16...	<.006	.007	<.018	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	1145	790	2000	400	10...	1105	5400	0	300
JUL					17...	1110	>24000	6100	200
03...	1055	9200	300	120	24...	1120	3500	500	1200

< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ

LOCATION.--Lat 41°11'13", long 74°25'13", Sussex County, Hydrologic Unit 02020007, 0.4 mi downstream of Wawayanda Lake, 3.5 mi east of Vernon, and 4.6 mi upstream of Wawayanda Creek.

DRAINAGE AREA.--6.46 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 09...	0954	9.3	734	96	11.2	7.4	233	7.0	.144	.106
MAR 2000 01...	1020	46	730	108	13.9	7.6	202	3.0	.122	.091
MAY 18...	1050	7.6	731	86	8.0	7.7	246	17.0	.126	.085
AUG 08...	1115	16	730	87	6.9	7.8	228	24.5	.171	.127

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 09...	60	15.2	5.38	.9	17.6	43	35.7	<.1	3.0	10.7
MAR 2000 01...	54	13.6	4.78	.8	17.2	39	33.0	<.1	3.7	9.4
MAY 18...	61	15.5	5.45	.6	21.2	47	38.2	<.1	.8	8.8
AUG 08...	58	14.6	5.17	.7	18.9	47	35.1	<.1	3.0	5.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 09...	.33	.38	.05	<.030	--	--	E.018	<.003	E.005	.012
MAR 2000 01...	.25	.24	<.03	<.030	.33	.34	.092	<.003	E.006	.010
MAY 18...	.31	.39	<.03	<.030	--	--	E.025	<.003	.010	.024
AUG 08...	.31	.37	<.03	<.030	--	--	E.032	<.003	.010	.019

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 09...	5.3	.3	E1.3	2	130	114	E10	--	--
MAR 2000 01...	4.2	<.2	<1.0	<1	119	107	E9	--	--
MAY 18...	4.9	.5	E1.5	--	133	119	E7	.11	5
AUG 08...	5.4	.3	<1.4	--	128	111	E14	.15	4

E Estimated value.
< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
08...	1115	--	--	--	--	--	--	<3	9.0	<1	14
08...	1115	6.93	2800	6.6	690	27	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
08...	<1.0	<1	<1	120	<1	46	<.3	<1	<1	<1	1
08...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	1	.2	17	4.6	<33	18000	17	940	.02	13	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	70	<50	<50	<50	<50	<50	<50	<50	<50	E10	E20

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	E10	E20	<50	E40	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
08...	--	--	--	--	--	--	--	--	--	--
08...	<50	E10	E9	<50	<50	E20	<50	<50	E20	6

E Estimated value.
< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
MAR 2000 01...	1020	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
MAR 2000 01...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 2000 01...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 18...	1050	<.002	<.002	.007	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 18...	<.006	<.004	E.010	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1040	230	40	100
JUL				
03...	1000	20	<100	30
JUL 2000				
10...	1020	20	0	80
17...	1030	940	<100	100
24...	1045	20	100	360

< Actual value is known to be less than the value shown.

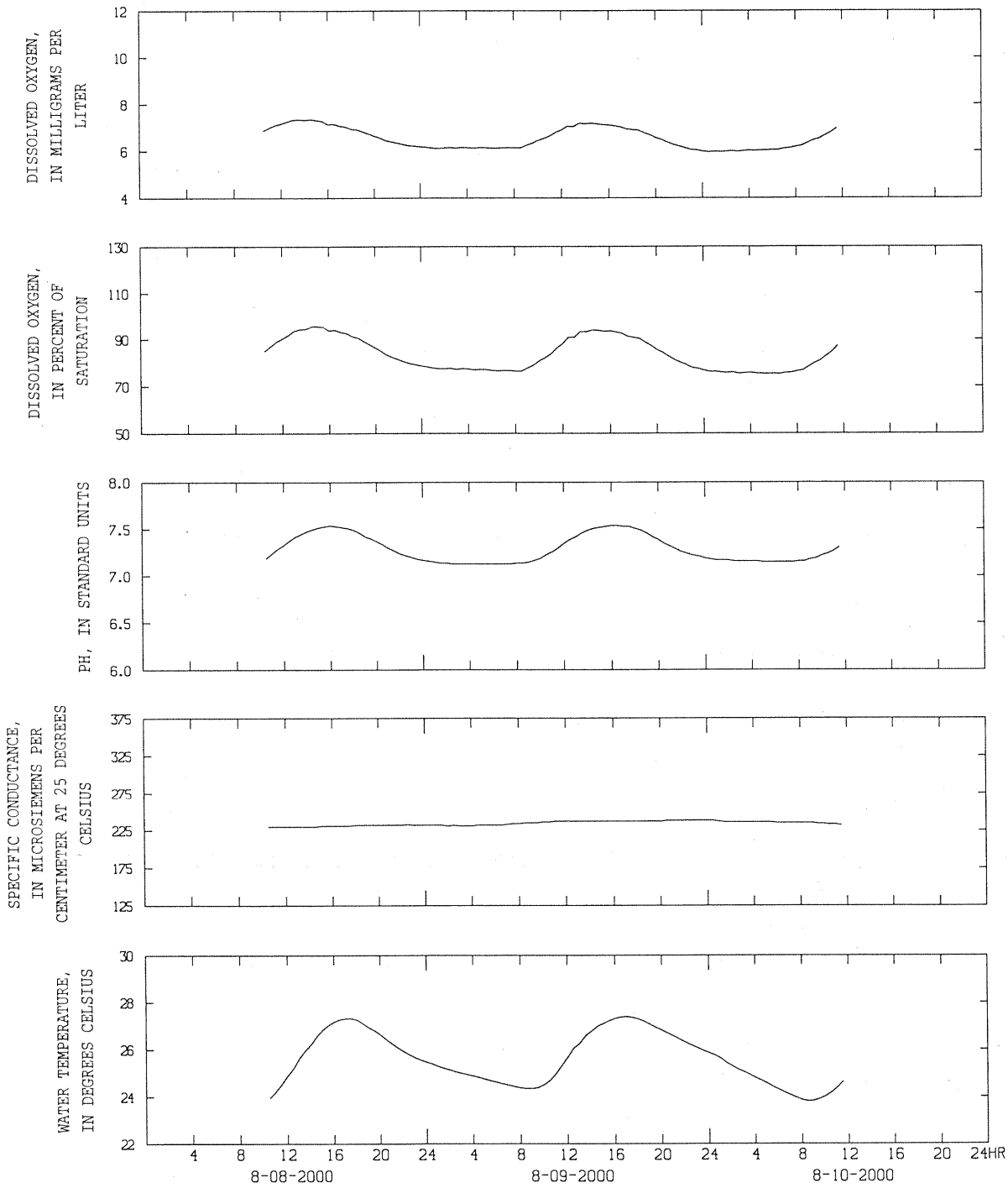


Figure 23. Reconnaissance Study -- Field Characteristics and concentrations of constituents in surface water monitored at 01368820 Double Kill at Wawayanda.

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, on upstream right bank at bridge on Westwood Avenue in Rivervale, 1.5 mi upstream from Pascack Brook, 4.6 mi upstream from Oradell Dam, and 27.2 mi upstream from mouth.

DRAINAGE AREA.--58.0 mi^2.

PERIOD OF RECORD.--Water years 1962, 1964 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1100	160	750	91	9.3	7.7	287	13.5	.187	.143
FEB 2000										
03...	0900	160	765	--	--	8.0	385	2.0	.122	.089
MAY										
17...	1000	68	767	77	7.5	7.7	486	17.0	.108	.077
AUG										
03...	1100	65	763	78	6.7	7.7	445	23.0	.129	.092

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	76	23.3	4.39	2.3	24.6	57	44.7	<.1	2.2	12.9
FEB 2000										
03...	110	32.3	5.91	2.0	30.9	78	59.2	<.1	2.5	16.9
MAY										
17...	120	36.1	6.54	1.8	44.9	85	86.0	<.1	2.1	16.0
AUG										
03...	110	34.9	6.38	1.8	37.8	89	70.3	<.1	4.7	12.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
03...	--	--	.14	.120	--	--	--	.016	--	--
FEB 2000										
03...	.36	.54	<.03	<.030	1.1	.88	.526	<.003	E.006	.031
MAY										
17...	.58	.65	.10	.080	1.0	.94	.353	.016	.018	.049
AUG										
03...	.46	.69	>.06	>.040	.96	.73	.265	.008	.018	.062

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	6.7	.9	2.7	20	162	149	56	--	--
FEB 2000									
03...	5.2	.7	E2.0	5	215	199	50	--	--
MAY									
17...	4.6	.5	<1.0	--	270	246	47	1.8	10
AUG									
03...	4.8	1.0	E1.4	--	249	224	49	1.9	11

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01377000 HACKENSACK RIVER AT RIVERVALE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
29...	1240	130	300	150	13...	1035	130	200	80
JUL					20...	1052	170	300	80
06...	1046	230	300	90	27...	1041	5400	500	4400

01377499 MUSQUAPSINK BROOK AT RIVERVALE, NJ

LOCATION.--Lat 40°59'32", long 74°01'24", Bergen County, Hydrologic Unit 02030103, at bridge on Harrington Avenue, 0.1 mi upstream of mouth, 0.5 mi east of Westwood, and 1.1 mi north of Emerson.

DRAINAGE AREA.--7.07 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year.

COOPERATION.--Field data and sample for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
18...	0800	767	71	9.4	7.9	569	4.0	.105	.079	210
FEB 2000										
08...	0800	768	75	10.7	8.1	690	1.0	.076	.057	200
MAY										
23...	0800	755	66	6.8	7.8	563	13.5	.103	.067	190
SEP										
07...	0930	773	77	7.9	7.8	526	15.0	.100	.075	180

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
18...	62.1	12.1	1.9	31.1	151	67.6	<.1	14.5	23.0
FEB 2000									
08...	61.6	12.0	1.8	49.9	147	94.5	<.1	12.1	24.0
MAY									
23...	56.6	11.1	1.7	39.2	136	81.3	<.1	11.7	20.7
SEP									
07...	54.1	10.8	1.9	30.5	135	65.2	<.1	12.8	20.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
18...	.58	.38	.08	.060	1.7	1.9	1.36	.021	.042
FEB 2000									
08...	.26	.32	.05	.040	1.9	1.9	1.62	.015	.012
MAY									
23...	.56	.79	.20	.190	1.8	1.6	.992	.062	.059
SEP									
07...	.32	.44	.03	.030	1.8	1.6	1.32	.023	.050

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
18...	.088	3.6	.4	E1.1	4	310	309	40	--
FEB 2000									
08...	.038	3.1	.3	2.0	<1	358	351	32	--
MAY									
23...	.118	3.8	.4	E1.2	--	330	309	36	6
SEP									
07...	.086	3.4	.5	E1.6	--	300	283	42	3

E Estimated value.
< Actual value is known to be less than the value shown.

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
SEP 2000											
07...	0930	--	--	--	--	--	--	E1	102	<1	32
07...	0930	7.10	150	1.8	200	2.9	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000											
07...	<1.0	<1	2	340	1	96	<.3	<1	<1	<1	4
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	<1	.1	2.9	2.1	4	2800	21	46	.02	4.4	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	20	70	<50	<50	<50	60	<50	130	410	440	440

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	230	400	520	80	960	320	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
07...	--	--	--	--	--	--	--	--	--	--
07...	<50	<50	E21	<50	<50	460	<50	<50	760	1

E Estimated value.
< Actual value is known to be less than the value shown.

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
08...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
08...	<.20	<.10	<.2	.39	<.10	.14	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
08...	<.10	.7	<.2	<.20	<.10	<.10	.3	<.10	.32	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
23...	0800	<.002	<.002	.013	<.002	<.002	E.10	<.003	E.003	<.004	<.002	E.010

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
23...	.025	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
23...	<.006	.012	E.010	<.003	<.007	<.004	.009	E.008	<.007	<.001	.004

E Estimated value.
< Actual value is known to be less than the value shown.

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
29...	1057	490	800	370	13...	1024	490	100	190
JUL					20...	1034	700	900	370
06...	1036	2400	700	280	27...	1030	>24000	>100	4200

> Actual value is known to be greater than the value shown.

01377500 PASCACK BROOK AT WESTWOOD, NJ

LOCATION.--Lat 40°59'33", long 74°01'19", Bergen County, Hydrologic Unit 02030103, 75 ft upstream from Harrington Avenue in Westwood, 500 ft downstream from Musquapsink Brook, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--29.6 mi^2.

PERIOD OF RECORD.--Water years 1959, 1962 to 1976, 1979 to 1980, and current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
22...	0800	768	59	6.7	7.7	529	10.0	.126	.097	170
FEB 2000										
08...	0800	758	79	10.8	8.0	1080	2.0	.065	.048	210
MAY										
25...	0800	747	59	5.7	7.6	533	16.0	.109	.072	140
SEP										
06...	0900	775	76	7.5	7.8	497	17.0	.100	.072	140

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999									
22...	50.2	9.75	2.0	33.2	118	71.2	<.1	9.0	22.2
FEB 2000									
08...	62.7	12.2	2.2	134	131	251	<.1	9.7	25.3
MAY									
25...	43.5	8.69	1.7	41.9	109	87.4	<.1	8.3	18.7
SEP									
06...	43.1	8.34	1.9	37.5	103	74.6	<.1	8.8	15.7

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
22...	.23	.36	<.03	<.030	1.4	1.2	.997	.018	.018
FEB 2000									
08...	.18	.25	<.03	<.030	1.8	1.7	1.50	.008	E.006
MAY									
25...	.55	.61	.14	.130	1.6	1.5	.965	.059	.042
SEP									
06...	.36	.63	.04	.050	1.5	1.2	.818	.029	.045

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
22...	.047	4.2	.5	2.3	4	287	273	37	--
FEB 2000									
08...	.027	2.8	.4	2.6	1	600	582	38	--
MAY									
25...	.092	3.7	.3	2.9	--	310	280	35	7
SEP									
06...	.132	3.5	.7	E1.8	--	270	256	39	7

E Estimated value.
< Actual value is known to be less than the value shown.

01377500 PASCACK BROOK AT WESTWOOD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
SEP 2000 06...	0900	E1	69.2	<1	34	<1.0	E1	5

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000 06...	880	5	262	<.3	1	<1	<1	8

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 08...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 08...	<.20	<.10	<.2	.18	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 08...	<.10	1.3	<.2	<.20	<.10	<.10	2.1	<.10	.17	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 25...	0800	<.002	<.002	.024	E.002	<.002	E.13	<.003	E.003	<.004	E.001	E.010

E Estimated value.
< Actual value is known to be less than the value shown.

01377500 PASCACK BROOK AT WESTWOOD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 25...	.024	E.003	<.002	<.003	<.004	<.002	<.005	<.001	.012	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 25...	<.006	.012	E.013	<.003	<.007	<.004	.010	E.009	<.007	<.001	.004

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000 29...	1104	2200	600	480
JUL 06...	1040	9200	400	400
JUL 2000 13...	1028	490	600	240
20...	1043	790	1000	260
27...	1034	16000	7000	6100

E Estimated value.
< Actual value is known to be less than the value shown.

01378560 COLES BROOK AT HACKENSACK, NJ

LOCATION.--Lat 40°54'40", long 74°02'26", Bergen County, Hydrologic Unit 02030103, at bridge on Main Street in Hackensack, 0.8 mi above mouth, and 1.9 mi northwest of Teaneck.

DRAINAGE AREA.--7.0 mi^2.

PERIOD OF RECORD.--Water years 1962, 1965, 1967, 1998 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1340	7.3	753	52	5.3	7.0	239	14.0	.386	.319
FEB 2000										
23...	1010	6.5	758	102	13.1	8.0	1110	4.5	.098	.072
MAY										
02...	1025	5.1	754	79	8.0	7.7	720	14.5	.119	.094
AUG										
23...	1040	2.6	764	77	7.1	7.9	675	19.5	.076	.054

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	76	22.3	4.85	3.9	11.8	57	26.1	<.1	7.1	12.8
FEB 2000										
23...	210	64.0	12.0	2.4	127	131	238	<.1	10.7	29.9
MAY										
02...	230	68.8	13.8	2.2	46.8	156	106	<.1	11.6	27.0
AUG										
23...	220	65.5	14.0	2.3	39.0	158	97.2	<.1	15.4	24.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
03...	.47	.95	<.03	<.030	1.0	.56	.090	<.003	.172	.285
FEB 2000										
23...	.40	.45	.07	.070	2.0	1.9	1.53	.024	.010	.042
MAY										
02...	.50	1.3	.16	.130	2.7	1.9	1.38	.054	.018	.056
AUG										
23...	.32	.40	<.03	<.030	2.1	2.0	1.68	.037	.038	.067

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	12	.9	9.5	13	142	123	33	--	--
FEB 2000									
23...	3.6	.3	<1.0	2	616	569	30	--	--
MAY									
02...	4.7	.4	<1.0	--	406	376	39	.05	4
AUG									
23...	3.0	.3	<1.1	--	391	360	44	.03	4

< Actual value is known to be less than the value shown.

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
29...	1135	1700	1100	550	13...	1103	9200	2100	790
JUL					20...	1118	1100	1100	360
06...	1107	2400	1100	880	27...	1111	16000	<100	5000

< Actual value is known to be less than the value shown.

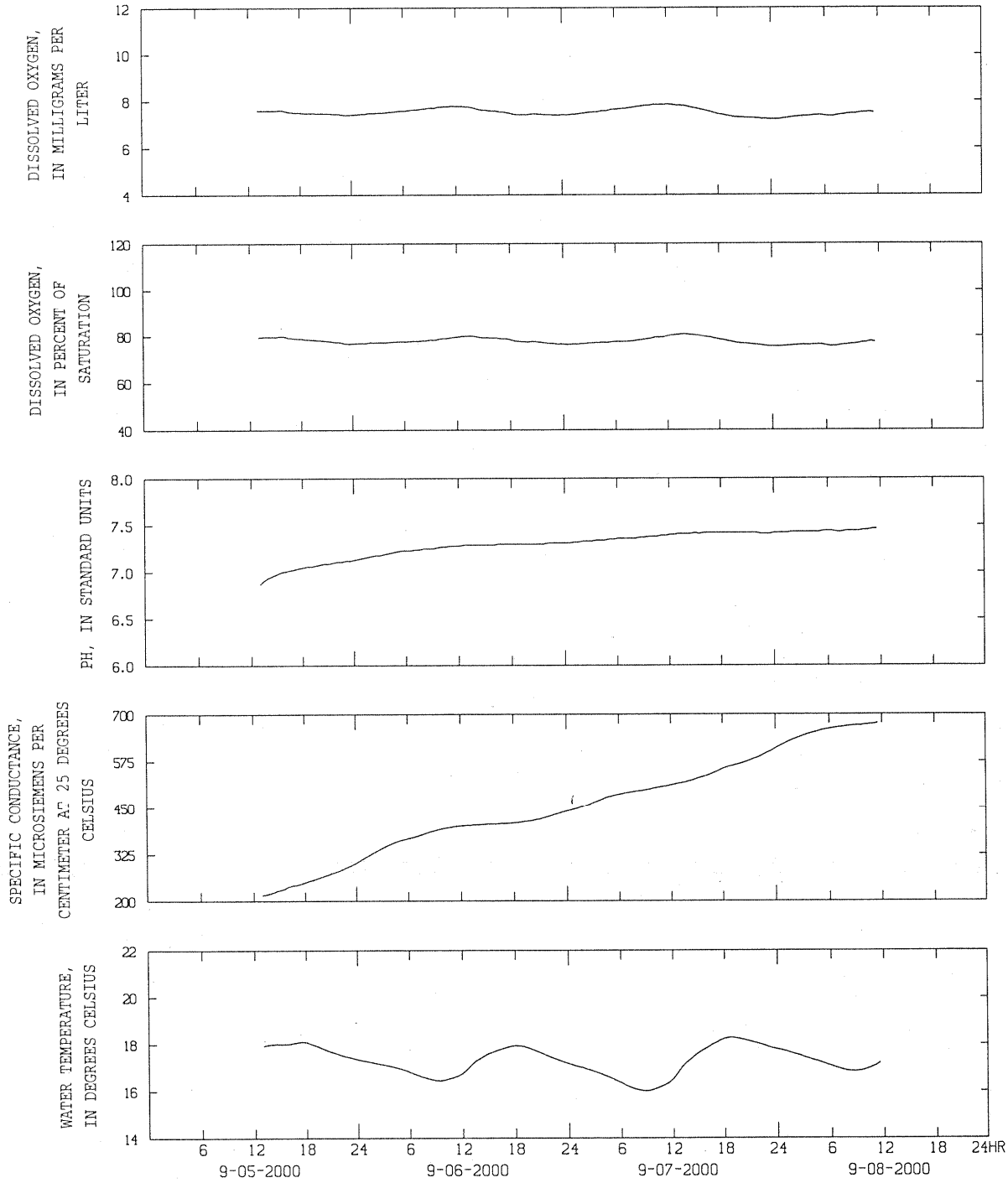


Figure 24. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01378560 Coles Brook at Hackensack.

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ

LOCATION.--Lat 40°45'54", long 74°31'48", Morris County, Hydrologic Unit 02030103, at bridge on Camp Trail Road in Morristown National Historical Park, 20 ft downstream of unnamed tributary, 500 ft west of Mount Kemble, and 2.4 mi northeast of Bernardsville.

DRAINAGE AREA.--1.07 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--For the definition of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction. Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 09...	1010	.55	753	92	11.0	7.1	131	7.0	.040	.032
MAR 2000 02...	0950	1.8	739	97	11.8	7.5	106	5.5	.036	.029
MAY 17...	1145	1.2	754	94	10.0	7.2	119	12.0	.038	.027
AUG 07...	1330	.69	747	91	8.3	7.7	132	19.0	.064	.049

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 09...	47	11.3	4.51	.9	4.9	39	5.6	<.1	27.1	15.4
MAR 2000 02...	36	9.16	3.31	.6	4.6	27	4.5	.1	22.6	13.7
MAY 17...	41	10.2	3.71	.6	5.3	33	5.4	<.1	26.1	14.0
AUG 07...	48	12.3	4.22	.7	5.2	37	5.7	<.1	28.0	12.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 09...	M	E.10	.04	.030	--	--	.076	<.003	<.007	E.004
MAR 2000 02...	.12	E.10	<.03	<.030	--	.38	.257	<.003	<.007	<.008
MAY 17...	E.10	E.10	.03	<.030	--	--	.360	<.003	.008	.011
AUG 07...	E.10	.16	<.03	<.030	.52	--	.363	<.003	.013	.023

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 09...	1.6	.2	E1.5	<1	98	93	<16	--	--
MAR 2000 02...	1.3	.2	<1.0	<1	82	76	<16	--	--
MAY 17...	1.4	.5	<1.0	--	89	87	E11	.01	2
AUG 07...	1.8	.8	<1.0	--	100	93	E8	.01	3

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000										
07...	*1143*	*FIELD BLANK*	--	--	--	--	--	--	*<1*	--
07...	1330	ENVIRONMENTAL	<3	12.0	<1	<12	<1.0	<1	--	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000												
07...	--	*<1*	--	--	*<.2*	--	*<1*	--	--	--	*<1*	--
07...	300	--	<1	17	--	<.3	--	<1	<1	<1	--	1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
MAR 2000												
02...	0950	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
MAR 2000												
02...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 2000											
02...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
17...	1145	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

< Actual value is known to be less than the value shown.

01378780 PRIMROSE BROOK AT MORRISTOWN NATIONAL HISTORICAL PARK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 17...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 17...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
13...	1240	50	<100	50
24...	1206	50	100	70
31...	1215	130	<100	10
AUG 2000				
02...	1155	140	100	30
07...	1315	110	100	90

< Actual value is known to be less than the value shown.

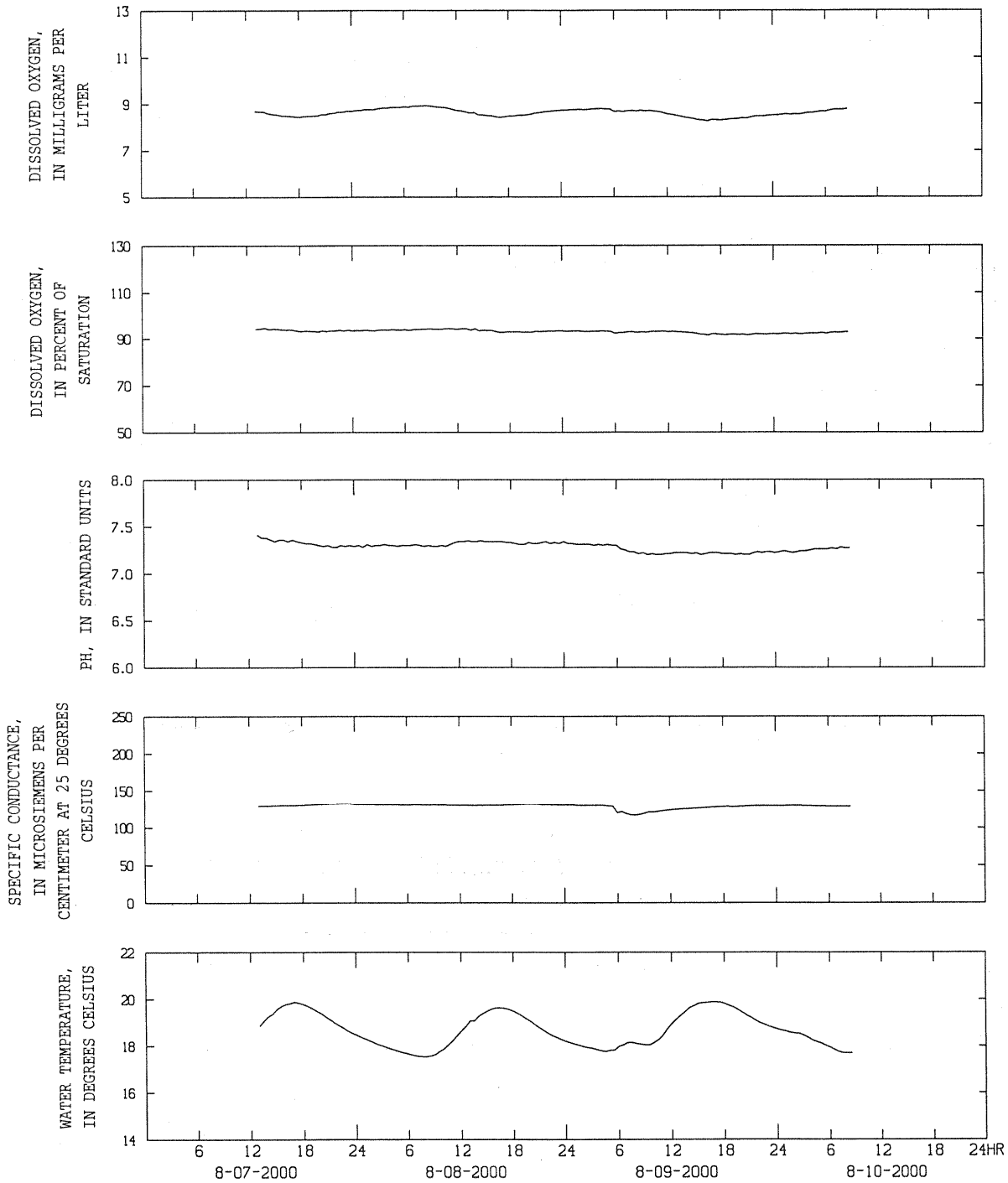


Figure 25. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01378780 Primrose Brook at Morristown National Historic Park.

01379200 DEAD RIVER NEAR MILLINGTON, NJ

LOCATION.--Lat 40°38'56", long 74°31'26", Morris County, Hydrologic Unit 02030103, at bridge on King George Road (Spur State Route 527), 100 ft upstream from mouth, 2.0 mi south of Millington, and 4.2 mi south of Basking Ridge.

DRAINAGE AREA.--20.8 mi^2.

PERIOD OF RECORD.--Water years 1962, 1963-65, 1967, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 03...	0910	E20	745	65	6.6	7.2	329	13.5	.182	.143
FEB 2000 23...	1220	E28	758	91	12.2	7.6	633	3.0	.106	.082
MAY 08...	0940	15	752	52	4.6	7.5	519	20.5	.113	.089
AUG 09...	1110	E14	753	80	6.8	7.6	522	23.0	.142	.106

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 03...	94	23.2	8.76	2.9	24.4	65	44.6	<.1	16.7	24.4
FEB 2000 23...	120	30.4	11.1	1.6	64.4	41	142	<.1	14.6	17.9
MAY 08...	130	32.6	12.0	4.4	43.1	76	78.8	<.1	15.7	30.9
AUG 09...	140	34.1	12.2	4.2	42.8	88	66.8	.1	19.2	30.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 03...	.40	.63	E.07	E.030	2.3	2.1	1.70	.004	.333	.410
FEB 2000 23...	.27	.32	<.03	<.030	2.1	2.1	1.79	.004	.127	.145
MAY 08...	.65	.96	<.03	<.030	5.7	5.4	4.78	.053	1.29	1.46
AUG 09...	.56	.78	<.03	<.030	6.3	6.0	5.48	<.003	1.02	1.22

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 03...	6.9	--	3.1	24	204	191	134	--	--
FEB 2000 23...	3.4	.4	<1.0	9	379	315	82	--	--
MAY 08...	4.3	.8	E1.6	--	306	285	194	1.5	38
AUG 09...	4.7	.9	<1.3	--	331	287	233	--	38

E Estimated value.
< Actual value is known to be less than the value shown.

01379200 DEAD RIVER NEAR MILLINGTON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
29...	1040	1300	700	190	10...	1300	490	0	380
JUL					17...	1230	5400	5800	6200
03...	1245	1700	700	120	24...	1311	330	400	50

01380100 BEAVER BROOK AT ROCKAWAY, NJ

LOCATION.--Lat 40°54'08", long 74°30'06", Morris County, Hydrologic Unit 02030103, at bridge on Gill Road in Rockaway, and 0.2 mi above mouth.

DRAINAGE AREA.--22.7 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1300	103	746	65	6.9	6.2	154	12.0	.200	.157
FEB 2000										
16...	1320	E80	758	93	13.0	7.4	168	1.5	.100	.076
MAY										
02...	1150	30	743	90	9.0	7.4	150	14.0	.113	.087
AUG										
07...	1150	27	744	82	7.1	6.6	138	21.5	.165	.128

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	41	10.5	3.69	1.2	11.2	26	21.2	<.1	10.1	10.1
FEB 2000										
16...	42	10.8	3.69	.9	16.7	22	31.4	<.1	7.9	14.7
MAY										
02...	40	10.0	3.68	.6	11.0	25	20.5	<.1	6.6	10.0
AUG										
07...	40	9.90	3.66	.6	9.1	27	16.2	<.1	6.6	9.5

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
03...	.34	.38	<.03	<.030	--	--	E.026	<.003	.013	.049
FEB 2000										
16...	.19	.25	<.03	.030	.61	.55	.359	.004	E.006	.017
MAY										
02...	.46	.29	.03	<.030	.39	.56	.104	<.003	.007	.018
AUG										
07...	.25	.34	<.03	<.030	.46	.37	.115	<.003	.018	.039

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
03...	6.2	.7	E1.5	12	94	84	E15	--	--
FEB 2000									
16...	3.5	<.2	<1.0	3	110	101	E13	--	--
MAY									
02...	3.7	.3	<1.0	--	86	78	E8	.28	4
AUG									
07...	4.2	.4	<1.4	--	89	72	E11	.85	12

E Estimated value.
< Actual value is known to be less than the value shown.

01380100 BEAVER BROOK AT ROCKAWAY, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
13...	1106	90	100	10
24...	1042	230	400	220
31...	1045	2400	1200	360
AUG 2000				
02...	1033	140	300	230
07...	1155	130	300	90

01380320 STONY BROOK AT BOONTON, NJ

LOCATION.--Lat 40°55'42", long 74°26'18", Morris County, Hydrologic Unit 02030103, at bridge on Valley Road, 0.4 mi from mouth, and 0.8 mi northwest of Powerville.

DRAINAGE AREA.--0.44 mi^2.

PERIOD OF RECORD.--Water years 1985 to 1986 and current year .

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
13...	1030	752	88	12.3	7.1	135	1.0	.155	.120	35
FEB 2000										
03...	1015	750	92	13.3	7.1	149	.0	.100	.078	40
JUN										
07...	1100	752	89	8.9	7.2	120	15.0	.258	.200	31
SEP										
07...	1000	761	78	7.7	7.2	160	16.0	.151	.117	46

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 1999									
13...	8.23	3.51	.6	9.8	20	17.9	<.1	12.4	12.0
FEB 2000									
03...	9.55	3.85	.7	11.0	22	19.0	<.1	12.9	13.9
JUN									
07...	7.50	2.91	.6	10.2	20	16.3	<.1	9.3	7.8
SEP									
07...	11.3	4.25	.8	11.4	34	17.8	<.1	11.5	8.4

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
DEC 1999									
13...	.22	.35	<.03	<.030	.53	.40	.177	<.003	.035
FEB 2000									
03...	.15	.19	<.03	<.030	.49	.45	.296	<.003	<.007
JUN									
07...	.37	.55	.13	.040	.63	.45	.079	<.003	.019
SEP									
07...	.33	.30	.04	.040	.53	.57	.232	.012	.019

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999									
13...	.020	4.4	.5	E1.5	2	87	77	E12	--
FEB 2000									
03...	.011	2.9	.4	2.4	<1	97	86	22	--
JUN									
07...	.049	6.5	.7	2.3	--	82	67	E11	5
SEP									
07...	.030	3.9	<.2	<1.2	--	104	87	19	--

E Estimated value.
< Actual value is known to be less than the value shown.

01380320 STONY BROOK AT BOONTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
SEP 2000 07...	1000	<3	7.0	<1	15	<1.0	1	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000 07...	490	<1	56	<.3	<1	<1	<1	<1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 03...	1015	.41	.14	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 03...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 03...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	.20	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000 07...	1100	<.002	<.002	.008	<.002	<.002	E.007	<.003	<.004	<.004	<.002	E.010

< Actual value is known to be less than the value shown.

01380320 STONY BROOK AT BOONTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000 07...	E.004	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000 07...	<.006	<.004	E.003	<.003	<.007	<.004	E.002	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
13...	1130	130	<100	30
24...	1100	140	100	70
31...	1105	220	200	170
AUG 2000				
02...	1048	490	100	190
07...	1130	230	200	220

E Estimated value.
< Actual value is known to be less than the value shown.

01381050 CROOKED BROOK NEAR TOWACO, NJ

LOCATION.--Lat 40°56'19", long 74°22'16", Morris County, Hydrologic Unit 02030103, at bridge on Hemlock Drive, 200 ft west of intersection of Hemlock Drive and Lenape Drive, 500 ft upstream of Lake Valhalla, and 1.7 mi northwest of Towaco.

DRAINAGE AREA.--1.68 mi^2.

PERIOD OF RECORD.--December 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
02...	1100	758	99	13.6	7.8	101	2.0	.230	.179	33
FEB 2000										
15...	1045	753	96	13.7	7.4	105	.5	.139	.108	29
MAY										
25...	1045	740	99	9.7	7.5	102	15.0	.350	.266	31
AUG										
23...	1100	755	92	9.0	7.7	139	16.0	.214	.164	47

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
02...	8.23	3.01	.5	6.5	17	12.3	<.1	14.3	10.2
FEB 2000									
15...	7.53	2.56	.6	8.4	14	15.7	<.1	10.5	10.1
MAY									
25...	8.15	2.64	.6	7.0	22	11.1	<.1	11.5	7.6
AUG									
23...	12.5	3.83	.5	7.3	40	12.2	<.1	13.9	6.2

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
02...	.25	.23	<.03	<.030	--	--	<.037	<.003	E.004
FEB 2000									
15...	E.10	.20	<.03	<.030	.58	--	.388	<.003	E.004
MAY									
25...	.33	.31	<.03	.050	.39	.41	.078	.003	.012
AUG									
23...	.28	.24	<.03	<.030	.32	.36	.080	<.003	.012

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
02...	.035	5.7	<.2	<1.0	<1	78	65	E9	--
FEB 2000									
15...	.016	3.9	<.2	E1.5	<1	74	66	<16	--
MAY									
25...	.018	7.9	.4	<1.0	--	81	62	E9	2
AUG									
23...	.016	5.5	<.2	<1.0	--	95	81	E11	1

E Estimated value.
< Actual value is known to be less than the value shown.

01381050 CROOKED BROOK NEAR TOWACO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 23...	1100	<3	7.4	<1	<12	<1.0	E1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 23...	250	<1	17	<.3	<1	<1	<1	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 15...	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 15...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 15...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 25...	1045	<.002	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005

E Estimated value.
< Actual value is known to be less than the value shown.

01381050 CROOKED BROOK NEAR TOWACO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
25...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.003	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
25...	<.006	<.004	E.001	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
13...	1149	80	<100	120
24...	1119	20	<100	10
31...	1125	80	<100	70
AUG 2000				
02...	1106	130	<100	20
07...	1100	<20	<100	10

E Estimated value.
< Actual value is known to be less than the value shown.

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ

LOCATION.--Lat 40°50'42", long 74°20'51", Morris County, Hydrologic Unit 02030103, on left upstream abutment of former bridge on Edwards Road, 200 ft downstream from bridges on Interstate 280, 0.4 mi upstream from Rockaway River, and 1.2 mi southwest of Pine Brook. Water-quality samples collected 450 ft upstream at bridge on Ridgedale Avenue.

DRAINAGE AREA.--68.5 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 30...	1000	217	768	97	12.5	7.4	374	5.0	.418	.320
FEB 2000 16...	1100	469	757	76	10.9	7.0	495	.5	.245	.189
MAY 18...	1030	61	760	71	6.8	7.4	530	17.5	.140	.100
AUG 17...	1040	E534	760	31	2.8	6.9	200	20.0	.493	.388

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 30...	110	27.4	8.98	2.3	29.2	--	59.0	<.1	14.1	26.8
FEB 2000 16...	88	22.9	7.56	2.3	60.3	37	118	<.1	8.5	19.6
MAY 18...	140	35.6	13.0	3.2	44.5	84	92.2	<.1	16.0	23.8
AUG 17...	59	15.6	4.88	2.3	15.6	46	25.1	<.1	8.5	8.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 30...	.81	.85	.03	.030	1.8	1.8	.956	.015	.116	.168
FEB 2000 16...	.60	.74	.19	.190	1.6	1.5	.881	.015	E.041	.084
MAY 18...	.79	1.0	.25	.260	3.0	2.8	1.98	.109	.171	.388
AUG 17...	.68	.70	<.03	<.030	.89	.87	.190	.006	.127	.160

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 30...	11	.6	E1.2	5	236	--	55	--	--
FEB 2000 16...	6.9	.3	2.3	10	291	266	32	--	--
MAY 18...	4.6	2.2	2.9	--	320	288	81	5.0	31
AUG 17...	10	.5	E1.0	--	136	109	39	--	10

E Estimated value.
< Actual value is known to be less than the value shown.

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
07...	1015	790	300	40

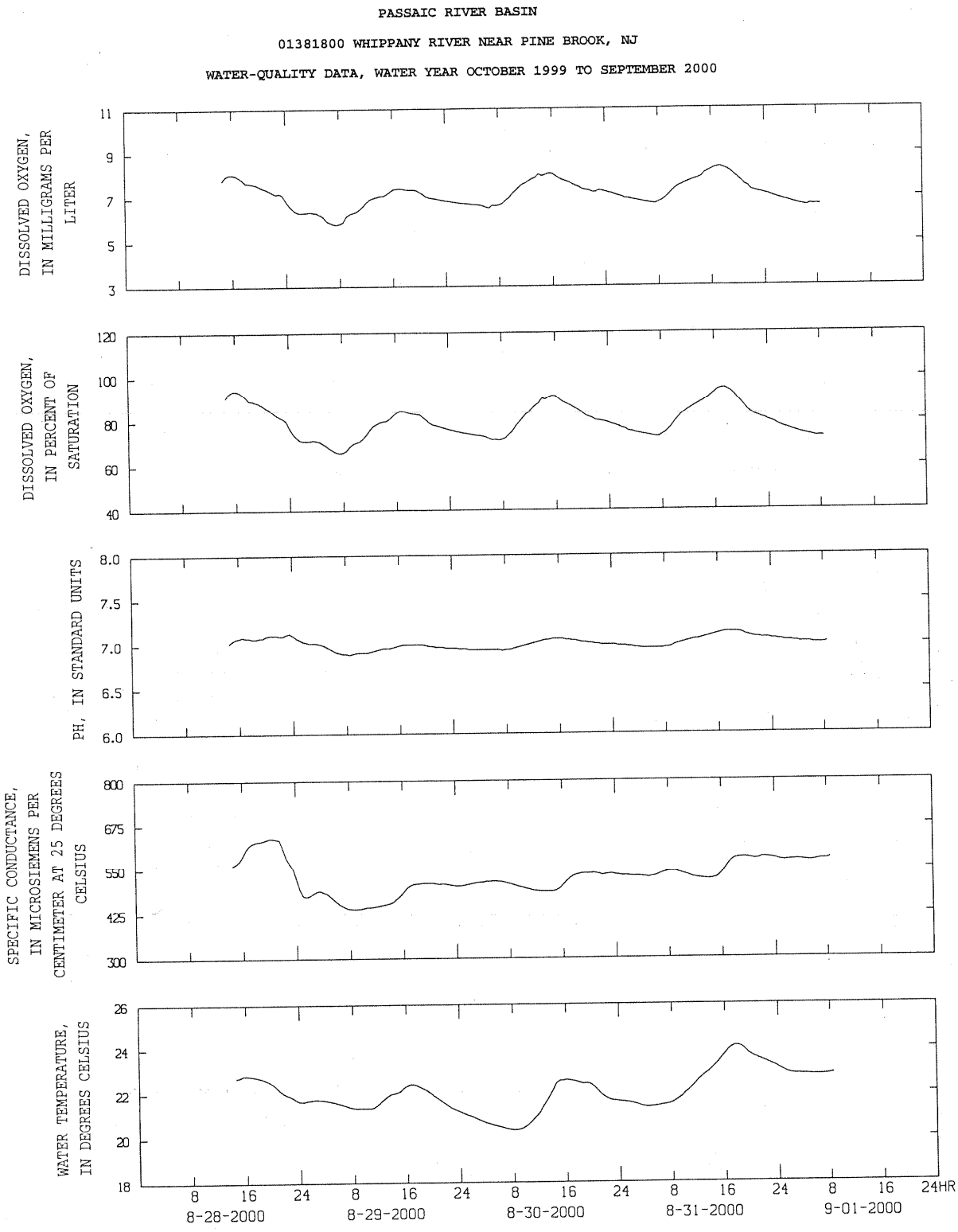


Figure 26. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01381800 Whippany River near Pine Brook.

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ

LOCATION.--Lat 40°53'50", long 74°16'23", Passaic County, Hydrologic Unit 02030103, at bridge on Two Bridges Road in Two Bridges, and 50 ft upstream from Pompton River.

DRAINAGE AREA.--361 mi^2.

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1969 to September 1974.
pH: June 1969 to September 1974.
WATER TEMPERATURE: October 1962 to May 1969 (once daily), June 1969 to September 1974.
DISSOLVED OXYGEN: June 1969 to September 1974.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1007	E680	746	58	5.8	7.5	553	14.0	.298	.233
FEB 2000										
16...	1000	E1370	757	91	12.9	7.3	444	1.0	.144	.112
MAY										
02...	1305	E460	753	87	8.8	7.4	440	14.5	.219	.174
AUG										
10...	1210	E300	756	60	4.9	7.5	463	25.5	.437	.336

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	130	33.5	12.0	4.7	46.2	79	86.2	<.1	16.5	40.0
FEB 2000										
16...	76	19.5	6.66	2.0	51.2	38	96.6	<.1	8.7	17.4
MAY										
02...	100	26.0	9.20	2.8	39.6	63	71.0	.1	11.0	27.3
AUG										
10...	120	30.2	10.5	3.4	39.4	81	69.1	.1	17.2	24.6

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
03...	.65	1.0	.04	.040	4.5	4.1	3.49	.028	.618
FEB 2000									
16...	.42	.58	.14	.140	1.7	1.6	1.15	.018	.102
MAY									
02...	.45	.72	.08	.090	2.1	1.8	1.36	.018	.240
AUG									
10...	.76	.97	.05	.050	3.0	2.8	1.99	.027	.338

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	.830	8.3	.9	2.1	17	313	302	143	--
FEB 2000									
16...	.186	4.6	.4	E1.9	16	248	230	37	--
MAY									
02...	.360	6.2	.7	<1.0	--	252	231	84	16
AUG									
10...	.510	10	.7	E1.0	--	296	252	123	--

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
13...	1025	140	<100	<10
24...	1013	80	100	40
31...	1019	2200	1100	500
AUG 2000				
02...	1005	5400	600	650
07...	1030	230	200	60

E Estimated value.
< Actual value is known to be less than the value shown.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ

LOCATION.--Lat 41°02'54", long 74°24'22", Passaic County, Hydrologic Unit 02030103, New Jersey, at bridge on Echo Lake Road, 0.1 mi downstream of Echo Lake, 1.0 mi southwest of community of Echo Lake, and 1.6 mi east of Newfoundland.

DRAINAGE AREA.--4.42 mi^2.

PERIOD OF RECORD.--Water years 1998 and current year.

REMARKS.--No sample was collected in November/December because site was dry due to construction upstream of site.
COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
FEB 2000										
17...	1100	751	88	11.5	6.9	276	3.6	.062	.047	89
JUN										
07...	1115	740	101	9.3	7.5	104	18.0	.223	.164	30
SEP										
06...	1045	752	57	5.2	7.0	117	19.5	.271	.203	36

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
FEB 2000									
17...	22.1	8.35	.9	16.7	68	38.0	<.1	12.9	10.7
JUN									
07...	7.46	2.87	.4	7.3	17	12.4	<.1	.6	9.9
SEP									
06...	8.78	3.37	.4	8.2	21	13.4	<.1	3.0	7.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
FEB 2000									
17...	.21	.22	<.03	<.030	.41	.39	.182	<.003	.008
JUN									
07...	.41	.55	<.03	<.030	--	--	<.037	<.003	E.006
SEP									
06...	.66	.69	.28	.040	.91	.88	.217	.019	.010

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
FEB 2000									
17...	.018	2.4	.2	<1.0	<1	154	151	<16	--
JUN									
07...	.023	6.8	.7	E2.2	--	69	51	E9	M
SEP									
06...	.029	7.8	.3	E1.4	--	82	58	E12	1

E Estimated value.
< Actual value is known to be less than the value shown.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
SEP 2000 06...	1045	<3	9.0	<1	<12	<1.0	<1	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000 06...	180	<1	71	<.3	<1	<1	<1	1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 17...	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 17...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 17...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000 07...	1115	<.002	<.002	.008	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004

< Actual value is known to be less than the value shown.

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
07...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.003	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
07...	<.006	<.004	E.003	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	0944	<20	<100	20	10...	0923	70	0	400
					17...	0930	<20	<100	110

E Estimated value.
< Actual value is known to be less than the value shown.

01382450 MACOPIN RIVER AT MACOPIN RESERVOIR, NJ

LOCATION.--Lat 41°01'33", long 74°24'31", Passaic County, Hydrologic Unit 02030103,at bridge on State Route 23 near Green Pond Junction, 0.2 mi upstream of mouth and Pequannock River, 2.0 mi southeast of Newfoundland, and 2.1 mi southwest of Macopin.

DRAINAGE AREA.--5.25 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enteroccoci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 03...	1005	25	736	97	10.3	6.4	156	11.0	.581	.465
MAR 2000 01...	1310	22	741	101	13.2	7.2	131	3.0	.176	.133
MAY 15...	1010	18	746	97	9.8	7.5	131	14.0	.258	.197
AUG 10...	0940	7.0	755	97	8.6	7.5	114	21.0	.213	.160

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 03...	38	9.34	3.51	1.6	12.8	--	26.2	<.1	10.4	8.7
MAR 2000 01...	30	7.49	2.81	.6	11.7	16	22.5	<.1	6.0	8.9
MAY 15...	33	8.07	3.03	.5	9.9	19	18.9	<.1	3.9	8.7
AUG 10...	31	7.74	2.86	.5	8.2	19	13.8	<.1	5.6	7.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 03...	.50	.72	<.03	<.030	--	--	E.030	<.003	.026	.048
MAR 2000 01...	.28	.29	.09	<.030	.54	.53	.253	<.003	.012	.024
MAY 15...	.37	.40	<.03	<.030	.50	.46	.097	<.003	.017	.033
AUG 10...	.33	.41	<.03	<.030	.58	.49	.168	<.003	.021	.032

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 03...	14	.4	E1.9	6	107	--	19	--	--
MAR 2000 01...	4.9	.3	<1.1	<1	82	71	<16	--	--
MAY 15...	6.9	.5	E1.8	--	89	65	E8	.09	2
AUG 10...	6.2	.3	<1.0	--	79	59	E14	.02	1

E Estimated value.
< Actual value is known to be less than the value shown.

01382450 MACOPIN RIVER AT MACOPIN RESERVOIR, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1057	1100	600	150
JUL 2000				
10...	1035	140	0	120
17...	1020	790	500	410

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ

LOCATION.--Lat 41°01'05", long 74°24'07", Morris County, Hydrologic Unit 02030103, on left bank 15 ft downstream from culvert at crossover between northbound and southbound lanes on State Route 23, 1,000 ft downstream from Macopin Intake Dam, 0.6 mi downstream from Macopin River, and 2.8 mi northwest of Butler.

DRAINAGE AREA.--63.7 mi^2.

PERIOD OF RECORD.--Water years 1924, 1962-69, 1973-79, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 16...	1015	4.4	737	87	11.0	8.0	224	4.0	.144	.111
FEB 2000 17...	0945	19	761	93	13.4	7.6	216	.5	.150	.114
MAY 17...	1015	28	753	90	8.7	7.6	139	16.5	.127	.092
AUG 22...	1000	47	758	95	8.7	7.6	125	19.5	.174	.133

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 16...	62	15.7	5.42	.9	18.6	36	34.8	<.1	11.9	14.0
FEB 2000 17...	45	11.3	3.98	.7	21.4	21	42.3	<.1	7.3	11.5
MAY 17...	36	8.68	3.36	.5	11.4	23	20.5	<.1	4.2	8.9
AUG 22...	34	8.55	3.14	.5	9.2	27	14.0	<.1	5.0	6.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 16...	.28	.45	.10	.110	.66	.49	.204	<.003	E.006	.017
FEB 2000 17...	.25	.36	<.03	.030	.79	.68	.426	E.005	.013	.025
MAY 17...	.24	.29	<.03	<.030	.37	.31	.077	<.003	.007	.019
AUG 22...	.27	.35	<.03	<.030	.42	.34	.073	<.003	E.005	.018

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 16...	3.5	.2	E1.5	6	131	124	17	--	--
FEB 2000 17...	4.4	.4	<2.0	7	118	113	E9	--	--
MAY 17...	4.0	.4	E1.3	--	85	72	E10	.42	6
AUG 22...	4.6	.3	E1.6	--	78	64	E9	.38	3

E Estimated value.
< Actual value is known to be less than the value shown.

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1016	<20	<100	50
JUL				
10...	0952	<20	0	100
13...	0642	490	200	40
JUL 2000				
13...	0709	170	200	50
13...	0725	40	200	130
13...	0732	330	100	150
13...	0745	<20	<100	<10
17...	0943	130	300	110

< Actual value is known to be less than the value shown.

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, Hydrologic Unit 02030103, on left bank 350 ft downstream from State Highway 17, 0.6 mi downstream from Mahwah River, and 1.0 mi west of Mahwah. Water-quality samples collected at bridge, 350 ft upstream from gage, at high flows.

DRAINAGE AREA.--120 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: February 1964 to June 1965.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 03...	0800	836	745	84	8.6	7.5	227	13.0	.161	.126
FEB 2000 01...	0800	110	749	87	12.3	7.9	512	.5	.057	.043
MAY 16...	0800	176	756	75	7.7	8.1	310	13.5	.118	.092
AUG 03...	0930	202	756	91	8.0	7.6	295	21.0	.126	.096

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 03...	55	15.1	4.27	1.5	20.2	39	34.2	<.1	7.9	11.1
FEB 2000 01...	92	25.1	7.16	1.4	57.2	61	97.1	.1	8.6	16.3
MAY 16...	67	18.3	5.11	1.1	28.1	53	54.0	<.1	6.3	12.0
AUG 03...	71	19.5	5.30	1.1	27.6	56	49.1	<.1	8.1	10.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 03...	.27	.50	.08	<.030	1.2	1.0	.743	.003	.073	.111
FEB 2000 01...	.43	.46	.19	.180	1.8	1.8	1.35	.047	.091	.088
MAY 16...	.48	.49	.06	.100	1.2	1.1	.665	.014	.071	.103
AUG 03...	.29	.39	<.03	<.030	1.1	.99	.701	.006	.071	.108

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 03...	5.1	2.1	E2.0	19	125	121	29	--	--
FEB 2000 01...	3.5	<.2	3.1	<1	269	256	35	--	--
MAY 16...	3.7	.3	E1.9	--	172	160	28	.95	2
AUG 03...	3.5	.6	<1.0	--	170	158	32	5.1	9

E Estimated value.
< Actual value is known to be less than the value shown.

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 03...	0930	<3	18.6	<1	29	<1.0	E1	3

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 03...	420	1	75	<.3	1	<1	<1	8

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 01...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 01...	<.20	<.10	<.2	<.10	.13	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 01...	<.10	.6	<.2	<.20	<.10	<.10	.3	<.10	.34	.26	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 16...	0800	<.002	<.002	.014	<.002	<.002	E.015	<.003	.004	<.004	<.002	E.012

E Estimated value.
< Actual value is known to be less than the value shown.

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 16...	.005	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 16...	<.006	.007	E.005	<.003	<.007	<.004	.008	E.006	<.007	<.001	E.001

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000 06...	0956	270	400	80	JUL 2000 20...	0945	330	1000	70
13...	0946	5400	1700	580	27...	0950	2400	100	4000

E Estimated value.
< Actual value is known to be less than the value shown.

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ

LOCATION.--Lat 40°59'33", long 74°16'44", Passaic County, Hydrologic Unit 02030103, in Pompton Lakes, at bridge on Paterson-Hamburg Turnpike, 2.0 mi upstream from mouth, and 450 ft downstream from dam.

DRAINAGE AREA.--160 mi^2.

PERIOD OF RECORD.--Water years 1923, 1962-67, 1982, 1987 to current year.
NUTRIENT AND INORGANIC CHEMICAL DATA: Water years 1923, 1962-67, 1982, 1987-96.

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: April 1989 to current year.
SPECIFIC CONDUCTANCE: April 1989 to current year.
WATER TEMPERATURE: April 1989 to current year.

INSTRUMENTATION.--Water-quality monitor since April 1989, pumping system, data recorded hourly.

REMARKS.--Stage is measured on right end of dam at pumping station, 450 ft upstream from bridge. Nutrient and inorganic chemical data from 1987-96 was collected at the same location (above dam); data from earlier years was probably collected at bridge, 450 ft below dam. Interruptions in the daily record were due to instrument or pumping system malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 15.2 mg/L, Jan. 15, 2000; minimum, 4.5 mg/L, Aug. 4, 1999.
SPECIFIC CONDUCTANCE: maximum, 842 uS/cm, Jan. 18, 1999; minimum, 88 uS/cm, Sept. 7, 1999.
WATER TEMPERATURE: maximum, 31.5 °C, Jul. 5, 1999; minimum, 0.0 °C, on several days during winters.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 15.2 mg/L, Jan. 15; minimum, 6.5 mg/L, July 10, 11.
SPECIFIC CONDUCTANCE: Maximum, 510 microsiemens/cm, Feb. 15; minimum, 179 microsiemens/cm, June 8.
WATER TEMPERATURE: Maximum, 27.0°C, June 27, July 12; minimum, 0.0°C, Jan. 15.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	12.9	12.2	12.5	14.1	14.0	14.0
2	---	---	---	---	---	---	13.1	12.9	13.0	14.0	13.8	13.9
3	---	---	---	10.8	10.6	10.7	---	---	---	13.9	13.8	13.8
4	---	---	---	11.2	10.8	11.0	---	---	---	13.8	13.2	13.5
5	10.6	10.1	10.4	11.4	11.2	11.3	---	---	---	13.4	13.2	13.3
6	11.0	10.6	10.7	11.4	11.3	11.3	---	---	---	13.6	13.3	13.4
7	11.1	10.7	11.0	11.7	11.3	11.5	---	---	---	13.4	13.1	13.3
8	11.3	11.0	11.1	11.9	11.7	11.8	---	---	---	13.6	13.2	13.5
9	11.6	10.7	11.0	11.9	11.7	11.8	---	---	---	13.6	13.3	13.4
10	10.8	10.6	10.7	11.8	11.5	11.7	---	---	---	13.3	13.0	13.2
11	10.6	10.5	10.6	11.8	11.5	11.6	---	---	---	13.2	13.0	13.1
12	10.9	10.6	10.7	12.0	11.8	11.9	---	---	---	13.3	13.0	13.2
13	10.8	10.4	10.6	11.9	11.8	11.8	---	---	---	13.7	13.1	13.2
14	10.8	10.3	10.5	11.8	11.6	11.7	---	---	---	14.9	13.7	14.4
15	11.2	10.8	11.0	12.1	11.7	11.9	---	---	---	15.2	14.8	15.0
16	11.2	10.8	11.0	12.4	12.0	12.2	---	---	---	14.8	14.3	14.4
17	11.0	10.5	10.8	12.9	12.4	12.7	---	---	---	14.6	14.4	14.5
18	10.9	10.5	10.7	13.0	12.8	12.9	---	---	---	14.7	14.3	14.5
19	11.3	10.8	11.1	13.0	12.7	12.8	---	---	---	14.3	14.0	14.2
20	11.3	11.1	11.1	12.8	12.4	12.6	---	---	---	14.1	14.0	14.0
21	11.4	11.2	11.2	12.6	12.2	12.4	---	---	---	14.2	14.0	14.1
22	11.3	11.1	11.2	12.4	12.3	12.3	12.8	12.7	12.8	14.5	14.2	14.3
23	11.3	11.1	11.2	12.4	12.2	12.3	12.9	12.8	12.9	14.6	14.2	14.4
24	11.9	11.3	11.5	12.4	11.7	12.1	13.5	12.9	13.2	---	---	---
25	11.8	11.5	11.7	11.8	11.5	11.6	13.7	13.5	13.6	---	---	---
26	11.9	11.4	11.6	11.5	11.2	11.4	13.6	13.4	13.4	---	---	---
27	11.7	11.4	11.6	11.2	11.0	11.1	13.8	13.5	13.6	---	---	---
28	---	---	---	---	---	---	13.9	13.7	13.8	---	---	---
29	---	---	---	11.6	11.2	11.5	13.9	13.7	13.8	14.6	14.4	14.6
30	---	---	---	12.2	11.6	11.9	13.9	13.8	13.8	14.7	14.3	14.5
31	---	---	---	---	---	---	14.0	13.9	14.0	14.4	14.2	14.3
MONTH	11.9	10.1	11.0	13.0	10.6	11.8	14.0	12.2	13.4	15.2	13.0	13.9

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.4	14.3	14.3	13.5	13.2	13.3	11.9	11.2	11.6	10.8	10.4	10.7
2	14.5	14.3	14.4	13.2	12.6	12.9	11.5	11.2	11.4	---	---	---
3	14.5	14.2	14.3	12.9	12.6	12.7	11.3	10.9	11.2	10.6	10.2	10.5
4	14.4	14.2	14.3	12.8	12.3	12.6	11.0	10.7	10.8	10.5	10.0	10.3
5	14.5	14.2	14.4	12.5	12.3	12.4	11.1	10.8	10.9	---	---	---
6	14.5	14.2	14.4	12.6	12.3	12.4	11.3	10.9	11.1	---	---	---
7	14.4	14.2	14.3	12.4	12.0	12.3	11.2	10.9	11.1	---	---	---
8	14.7	14.4	14.5	12.0	11.7	11.9	11.1	10.4	10.8	---	---	---
9	14.5	14.2	14.3	11.7	11.3	11.5	11.2	10.4	10.7	---	---	---
10	14.4	14.1	14.2	11.4	11.3	11.3	11.4	11.1	11.3	---	---	---
11	14.2	14.0	14.1	11.4	11.3	11.3	11.8	11.3	11.5	---	---	---
12	14.4	14.2	14.2	11.7	11.3	11.4	11.8	11.4	11.5	---	---	---
13	14.3	13.9	14.1	12.2	11.7	12.1	11.7	11.5	11.6	---	---	---
14	14.0	13.6	13.8	12.3	12.0	12.1	11.6	11.2	11.5	---	---	---
15	14.6	14.0	14.4	12.4	12.0	12.1	11.3	11.0	11.2	---	---	---
16	14.6	14.4	14.5	12.0	11.6	11.9	11.1	10.6	10.9	---	---	---
17	14.7	14.5	14.6	12.2	11.6	11.8	10.9	10.7	10.8	---	---	---
18	14.6	14.4	14.5	12.5	12.2	12.4	---	---	---	---	---	---
19	14.5	14.4	14.5	12.7	12.4	12.5	---	---	---	9.3	8.9	9.1
20	14.6	14.5	14.6	12.6	12.3	12.5	11.1	10.9	11.0	9.6	9.3	9.5
21	14.6	14.5	14.6	12.4	12.2	12.3	10.9	10.8	10.9	9.8	9.6	9.7
22	14.5	14.4	14.4	12.4	12.1	12.3	11.0	10.9	10.9	9.9	9.8	9.9
23	14.4	14.1	14.2	12.2	11.7	12.0	11.2	11.0	11.1	10.0	9.8	9.9
24	14.1	13.8	14.0	11.8	11.3	11.5	11.4	11.1	11.3	9.8	9.5	9.7
25	13.8	13.7	13.7	11.5	11.0	11.3	11.2	10.9	11.1	---	---	---
26	13.9	13.7	13.8	11.1	10.7	10.9	11.1	10.9	11.0	---	---	---
27	13.8	13.6	13.8	10.9	10.5	10.7	11.2	11.0	11.1	---	---	---
28	13.6	13.4	13.5	10.7	10.5	10.6	11.3	11.0	11.1	---	---	---
29	13.6	13.2	13.4	11.0	10.7	10.8	11.2	10.8	11.0	---	---	---
30	---	---	---	11.7	11.0	11.3	10.9	10.6	10.8	9.2	8.9	9.1
31	---	---	---	11.8	11.5	11.7	---	---	---	9.3	9.0	9.1
MONTH	14.7	13.2	14.2	13.5	10.5	11.9	11.9	10.4	11.1	10.8	8.9	9.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.7	7.3	7.5	8.7	8.3	8.6	7.5	7.0	7.2
2	---	---	---	7.8	7.4	7.6	8.6	8.1	8.4	7.5	6.9	7.1
3	---	---	---	7.7	7.2	7.4	8.4	8.0	8.2	7.4	7.0	7.2
4	---	---	---	7.4	7.0	7.2	8.3	7.7	8.1	7.5	7.0	7.2
5	---	---	---	7.3	6.8	7.1	---	---	---	8.0	7.2	7.6
6	9.2	8.1	8.5	7.1	6.7	6.9	---	---	---	8.2	7.6	7.9
7	9.7	9.2	9.5	7.2	6.7	7.0	---	---	---	8.5	7.9	8.2
8	---	---	---	7.4	6.8	7.1	---	---	---	8.6	8.0	8.3
9	---	---	---	7.4	6.8	7.1	---	---	---	8.4	7.7	8.0
10	---	---	---	7.2	6.5	6.9	---	---	---	8.3	7.7	7.9
11	8.8	8.3	8.7	7.2	6.5	6.8	---	---	---	8.5	7.8	8.1
12	---	---	---	7.7	6.7	7.2	---	---	---	8.5	7.7	8.1
13	9.1	8.9	9.0	7.6	7.1	7.5	---	---	---	8.2	7.6	8.0
14	9.3	9.1	9.2	7.9	6.9	7.5	---	---	---	8.2	7.8	8.0
15	---	---	---	8.1	6.8	7.5	---	---	---	8.2	7.8	8.1
16	---	---	---	8.3	8.1	8.2	8.4	8.0	8.1	8.5	8.1	8.2
17	9.3	8.6	9.0	8.6	8.0	8.3	8.4	8.0	8.2	8.7	8.2	8.4
18	9.0	8.7	8.9	8.1	7.6	7.9	10.0	8.2	8.8	8.8	8.3	8.5
19	9.1	8.9	9.0	---	---	---	10.0	8.4	8.6	8.7	8.3	8.4
20	9.3	8.8	9.1	---	---	---	8.9	8.4	8.5	8.7	8.4	8.6
21	9.2	8.8	9.0	8.0	7.7	7.9	8.7	8.3	8.4	8.6	8.4	8.5
22	9.0	8.7	8.9	7.9	7.4	7.7	9.2	8.3	8.6	8.7	8.5	8.6
23	8.9	8.3	8.7	8.0	7.5	7.7	10.1	8.4	8.9	8.7	8.5	8.6
24	9.0	8.4	8.6	7.9	7.4	7.6	9.1	8.2	8.5	8.6	8.5	8.5
25	8.8	8.2	8.5	7.9	7.4	7.6	8.9	7.9	8.3	8.9	8.5	8.6
26	8.6	7.5	8.1	7.9	7.5	7.7	8.6	8.0	8.3	9.0	8.5	8.8
27	7.9	7.2	7.5	9.2	7.9	8.5	8.8	7.9	8.3	9.4	8.9	9.2
28	7.8	7.2	7.6	10.0	8.6	9.1	8.3	7.8	8.0	9.3	9.1	9.2
29	7.6	7.2	7.5	11.9	8.8	9.3	8.3	7.7	8.0	9.4	9.1	9.2
30	7.5	7.3	7.4	9.9	8.7	9.0	7.9	7.2	7.6	9.7	9.2	9.4
31	---	---	---	9.3	7.9	8.4	7.3	7.0	7.2	---	---	---
MONTH	9.7	7.2	8.6	11.9	6.5	7.7	10.1	7.0	8.3	9.7	6.9	8.3
YEAR	15.2	6.5	10.9									

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	347	340	345	338	333	335	236	231	234	292	281	286
2	342	322	331	347	335	338	234	230	232	297	292	294
3	327	321	324	347	304	334	237	232	235	304	296	300
4	324	310	317	304	251	271	250	237	243	307	294	302
5	310	295	301	253	232	242	258	250	253	304	292	299
6	295	286	290	236	230	232	269	258	262	306	301	304
7	287	278	284	236	234	235	282	269	277	308	303	305
8	279	275	277	238	234	235	282	277	279	303	297	300
9	281	275	277	245	238	242	282	277	279	320	295	298
10	281	277	279	257	245	251	288	281	284	299	292	295
11	289	281	285	268	257	264	286	282	284	296	281	292
12	298	289	293	278	266	273	284	282	283	282	252	267
13	300	295	297	289	278	283	286	281	283	252	239	249
14	300	296	298	296	288	292	290	284	288	239	231	235
15	303	298	300	303	293	297	298	287	293	238	230	234
16	310	303	306	305	301	303	294	273	285	270	238	250
17	318	309	313	310	303	306	274	254	267	277	255	261
18	327	315	321	312	310	311	258	244	253	278	267	274
19	337	327	334	322	311	316	245	238	241	289	277	283
20	340	334	336	327	320	323	242	239	240	304	289	297
21	340	335	338	336	326	331	246	241	244	317	304	310
22	336	331	333	349	336	342	246	235	241	326	314	320
23	333	327	330	359	349	355	235	232	233	340	326	334
24	327	320	323	367	352	361	233	229	231	352	340	346
25	320	315	317	372	367	370	231	227	229	359	352	357
26	320	314	316	376	370	373	236	231	234	365	358	362
27	317	313	315	377	349	371	243	235	239	368	362	364
28	315	297	312	349	272	307	248	243	245	374	368	372
29	322	313	317	273	245	257	265	248	256	378	373	376
30	326	320	322	251	235	243	274	265	270	383	377	380
31	334	324	328	---	---	---	282	271	277	384	380	382
MONTH	347	275	312	377	230	300	298	227	258	384	230	307

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	390	384	386	253	244	248	291	282	287	311	300	306
2	406	390	399	245	239	243	300	289	293	325	310	316
3	429	406	415	251	239	245	315	298	308	330	321	325
4	450	425	439	269	250	258	331	312	319	340	327	335
5	464	449	458	280	267	272	331	313	318	350	337	344
6	457	449	454	292	279	283	318	309	313	365	347	355
7	462	449	454	301	289	295	317	309	313	374	360	367
8	473	459	464	312	300	304	324	312	316	380	370	373
9	485	459	465	326	310	318	324	318	320	385	378	381
10	487	462	471	331	325	327	322	317	319	391	383	386
11	472	467	469	342	328	336	331	318	325	396	386	390
12	476	471	473	345	334	340	341	329	335	400	395	398
13	491	472	478	336	311	319	350	339	344	401	394	397
14	502	486	492	313	303	308	362	349	354	399	392	396
15	510	481	496	303	291	295	355	351	353	392	360	374
16	490	451	465	298	294	296	363	352	357	361	344	355
17	452	413	433	299	291	296	364	359	361	347	337	342
18	413	377	395	291	280	285	364	356	360	343	336	340
19	379	355	367	286	279	282	360	350	355	344	338	340
20	367	355	361	292	285	289	356	338	348	349	340	344
21	389	366	378	295	291	293	347	341	344	352	346	349
22	403	387	394	300	293	296	346	308	328	349	337	343
23	435	403	417	310	298	303	308	285	293	337	319	326
24	460	435	447	318	306	312	286	264	272	321	306	315
25	462	440	454	324	313	318	264	256	259	307	298	303
26	440	393	420	331	321	326	259	255	257	301	294	297
27	393	340	366	340	331	336	266	258	261	299	295	296
28	340	286	310	342	329	339	275	266	271	301	295	297
29	286	251	267	329	304	313	285	272	280	301	292	297
30	---	---	---	305	288	293	300	285	292	305	296	301
31	---	---	---	293	281	285	---	---	---	315	301	305
MONTH	510	251	424	345	239	298	364	255	315	401	292	342

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	320	313	316	396	388	393	276	274	275	416	403	411
2	334	319	327	396	388	394	284	274	277	434	416	424
3	339	332	335	390	378	385	289	280	283	432	425	428
4	346	335	339	384	380	382	290	284	285	441	432	438
5	353	345	347	382	378	379	---	---	---	440	437	438
6	353	346	349	379	375	378	---	---	---	440	433	436
7	358	211	287	377	375	376	---	---	---	445	434	438
8	211	179	186	376	375	375	---	---	---	450	445	447
9	200	180	188	383	375	378	---	---	---	452	446	450
10	215	197	205	388	383	385	---	---	---	448	429	444
11	233	213	221	392	387	389	---	---	---	436	429	432
12	250	228	240	---	---	---	---	---	---	455	435	444
13	262	250	258	---	---	---	---	---	---	459	431	450
14	265	259	262	---	---	---	---	---	---	459	450	453
15	267	258	260	421	397	410	---	---	---	461	447	455
16	279	265	270	406	257	309	302	295	297	462	454	458
17	290	278	283	262	239	250	295	290	292	468	455	461
18	297	288	291	250	240	243	296	291	293	465	449	458
19	303	296	300	---	---	---	299	294	297	458	445	453
20	312	303	308	---	---	---	303	297	300	464	451	460
21	322	312	316	276	263	268	309	302	306	454	430	441
22	329	320	325	282	274	278	319	309	312	430	408	420
23	330	325	328	294	280	288	327	318	322	411	397	406
24	345	330	337	308	294	301	331	325	328	397	387	389
25	347	338	343	321	308	311	339	328	335	387	381	384
26	356	340	347	326	321	324	357	339	345	381	377	379
27	362	353	356	365	324	342	375	357	367	377	367	370
28	374	354	361	360	316	335	370	367	368	369	366	368
29	387	369	377	316	292	303	384	370	377	367	366	367
30	388	384	386	296	276	286	399	383	392	368	367	367
31	---	---	---	276	274	275	406	395	402	---	---	---
MONTH	388	179	302	421	239	336	406	274	323	468	366	426
YEAR	510	179	328									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

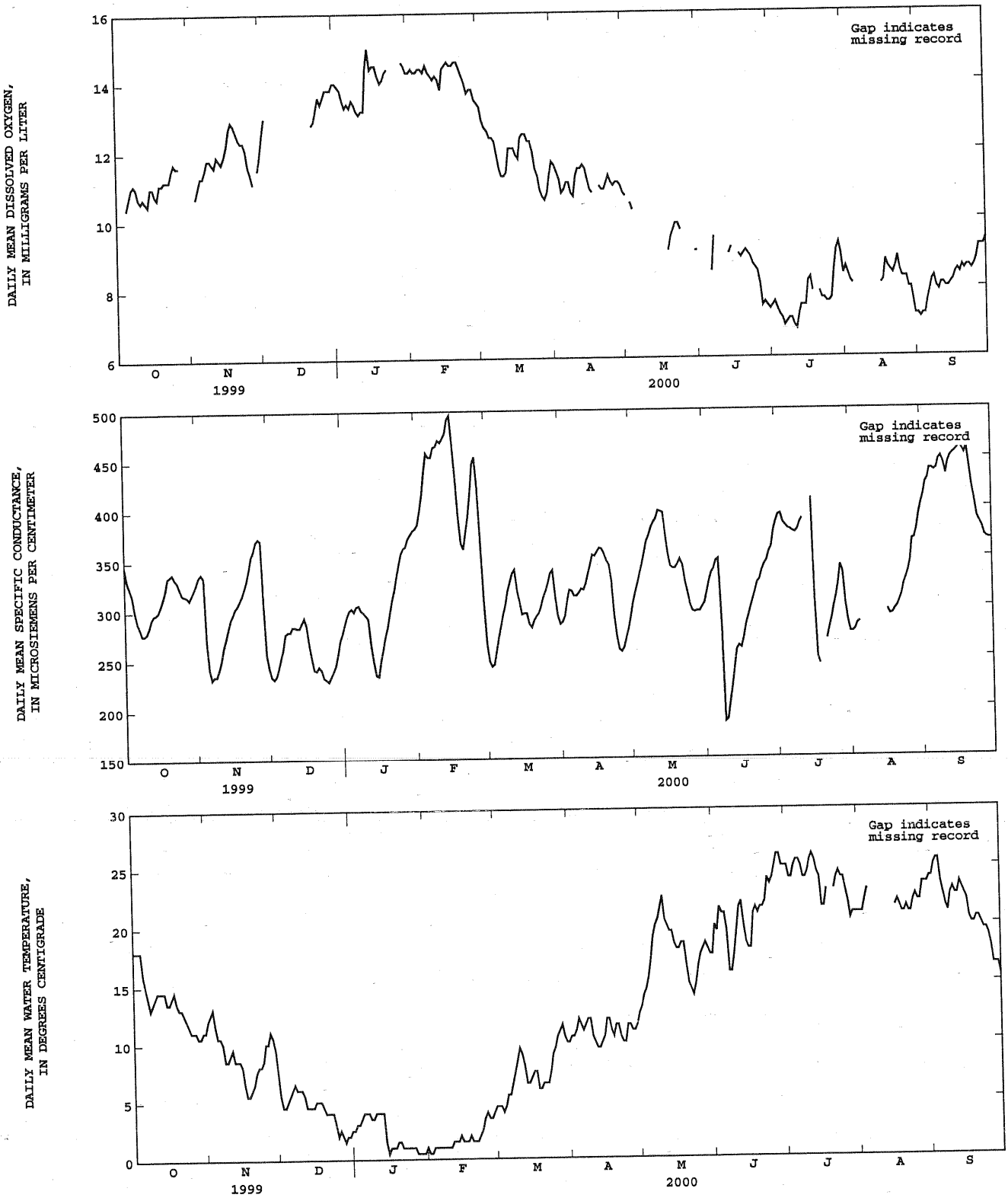
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	18.0	18.0	12.5	12.0	12.0	6.5	4.5	5.5	2.5	2.5	2.5
2	18.0	17.5	18.0	13.0	12.0	12.5	4.5	4.5	4.5	3.0	2.5	3.0
3	18.5	17.5	18.0	13.0	12.0	13.0	4.5	4.0	4.5	3.5	3.0	3.0
4	18.5	17.0	18.0	12.0	11.0	11.5	5.5	4.5	5.0	3.5	3.5	3.5
5	17.0	15.0	16.0	11.0	10.5	10.5	6.0	5.0	5.5	4.5	3.5	4.0
6	15.0	14.5	15.0	10.5	10.0	10.5	6.0	5.5	6.0	4.0	4.0	4.0
7	14.5	13.5	14.0	10.5	9.0	10.0	6.5	6.0	6.5	4.5	4.0	4.0
8	13.5	13.0	13.0	9.0	8.5	8.5	6.5	6.0	6.0	4.0	3.5	3.5
9	14.0	13.0	13.5	9.0	8.5	8.5	6.0	5.5	6.0	4.0	3.5	3.5
10	14.0	13.5	14.0	10.0	9.0	9.0	6.0	6.0	6.0	4.0	4.0	4.0
11	15.0	14.0	14.5	10.0	9.0	9.5	6.0	5.0	5.5	4.5	4.0	4.0
12	15.0	14.5	14.5	9.0	8.5	8.5	5.0	4.5	4.5	4.5	4.0	4.0
13	15.0	14.0	14.5	9.0	8.5	8.5	4.5	4.0	4.5	4.5	3.0	4.0
14	15.0	14.0	14.5	9.0	8.5	8.5	4.5	4.5	4.5	3.0	.5	1.5
15	14.0	13.5	13.5	8.5	7.5	8.0	5.0	4.5	4.5	.5	.0	.5
16	13.5	13.0	13.5	7.5	6.0	6.5	5.5	5.0	5.0	1.5	.5	1.0
17	14.5	13.5	14.0	6.0	5.5	5.5	5.5	5.0	5.0	1.5	1.0	1.0
18	15.0	14.0	14.5	5.5	5.0	5.5	5.0	4.5	5.0	1.0	.5	1.0
19	14.0	13.0	13.5	6.0	5.5	6.0	4.5	4.0	4.5	1.5	1.0	1.5
20	13.0	13.0	13.0	7.0	6.0	6.5	4.0	4.0	4.0	1.5	1.5	1.5
21	13.0	12.5	13.0	8.0	7.0	7.5	4.5	4.0	4.0	1.5	1.0	1.0
22	12.5	12.0	12.5	8.0	7.5	8.0	4.5	4.0	4.0	1.0	.5	1.0
23	12.5	12.0	12.0	8.5	7.5	8.0	4.0	3.5	4.0	1.0	1.0	1.0
24	12.0	11.0	11.5	9.5	8.0	8.5	3.5	2.5	3.0	1.0	1.0	1.0
25	11.0	10.5	11.0	10.0	9.5	10.0	2.5	2.0	2.0	1.0	1.0	1.0
26	11.0	10.5	11.0	10.5	10.0	10.0	2.5	2.0	2.5	1.0	1.0	1.0
27	11.5	10.5	11.0	11.0	10.5	11.0	2.0	2.0	2.0	1.0	.5	.5
28	11.0	10.5	10.5	11.0	10.0	10.5	2.0	1.5	1.5	.5	.5	.5
29	11.0	10.0	10.5	10.0	8.5	9.5	2.0	1.5	2.0	1.0	.5	.5
30	11.5	10.5	11.0	8.5	6.5	7.5	2.5	2.0	2.0	1.0	.5	.5
31	12.0	11.0	11.0	---	---	---	2.5	2.5	2.5	1.0	.5	1.0
MONTH	19.0	10.0	13.5	13.0	5.0	9.0	6.5	1.5	4.5	4.5	.0	2.0

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	.5	.5	4.5	4.0	4.5	11.0	10.0	10.5	13.5	13.0	13.0
2	1.0	.5	.5	4.5	4.0	4.5	11.0	10.5	10.5	15.0	13.5	14.0
3	1.0	.5	1.0	4.5	3.5	4.0	11.5	11.0	11.0	15.5	14.5	14.5
4	1.0	1.0	1.0	5.0	4.0	4.5	12.5	11.5	12.0	16.5	15.0	15.5
5	1.0	.5	1.0	5.5	5.0	5.5	12.5	11.0	11.5	19.0	16.0	17.0
6	1.0	1.0	1.0	6.0	5.0	5.5	11.5	10.5	11.0	20.5	17.5	19.0
7	1.0	1.0	1.0	7.0	6.0	6.5	11.5	11.0	11.5	22.0	19.0	20.0
8	1.0	1.0	1.0	8.0	7.0	7.5	13.0	11.5	12.0	22.0	19.5	20.5
9	1.0	1.0	1.0	9.0	8.0	8.5	13.0	10.5	12.0	23.0	20.5	21.5
10	1.5	1.0	1.0	9.5	9.0	9.5	11.0	10.0	10.5	23.5	20.5	22.5
11	1.5	1.5	1.5	9.5	8.5	9.0	10.5	9.5	10.0	21.0	19.5	20.5
12	1.5	1.0	1.5	8.5	7.5	8.0	10.0	9.0	9.5	20.5	19.5	20.0
13	2.0	1.5	1.5	7.5	6.0	6.5	9.5	9.0	9.5	20.0	19.0	19.5
14	2.0	1.5	2.0	7.0	6.0	6.5	10.5	9.5	10.0	20.0	19.0	19.5
15	1.5	1.0	1.5	7.5	6.5	7.0	11.0	10.5	10.5	19.5	18.0	18.5
16	1.5	1.5	1.5	8.0	7.5	7.5	13.0	11.0	12.0	19.0	17.5	18.0
17	2.0	1.5	1.5	8.0	6.5	7.5	12.5	11.5	12.0	18.5	18.0	18.0
18	2.0	1.5	2.0	6.5	5.5	6.0	11.5	10.5	11.0	19.0	18.0	18.5
19	1.5	1.0	1.5	6.5	5.5	6.0	11.0	10.0	10.5	19.0	17.5	18.5
20	1.5	1.0	1.5	7.0	5.5	6.5	12.0	11.0	11.5	17.5	15.5	16.5
21	2.0	1.5	1.5	7.0	6.5	6.5	11.5	11.0	11.5	15.5	14.5	15.0
22	2.5	2.0	2.0	7.0	6.0	6.5	11.0	10.5	10.5	14.5	14.0	14.5
23	3.0	2.5	2.5	8.5	6.5	7.5	10.5	10.0	10.0	14.0	14.0	14.0
24	3.5	3.0	3.5	10.5	8.0	9.0	11.5	9.5	10.0	16.5	14.0	15.0
25	4.0	3.5	4.0	10.0	9.0	9.5	11.5	11.0	11.5	17.5	15.5	16.5
26	4.0	3.5	3.5	11.0	10.0	10.5	11.5	11.0	11.5	18.5	17.0	17.5
27	4.0	3.5	3.5	11.5	11.0	11.0	11.0	10.5	11.0	18.5	18.0	18.0
28	4.5	4.0	4.0	11.5	11.0	11.5	11.5	10.5	11.0	19.0	18.0	18.5
29	4.5	4.0	4.5	11.0	10.0	10.5	12.5	11.0	11.5	18.0	17.5	18.0
30	---	---	---	10.5	9.5	10.0	13.5	12.0	12.5	18.5	17.0	17.5
31	---	---	---	10.5	9.5	10.0	---	---	---	18.0	17.0	17.5
MONTH	4.5	.5	2.0	11.5	3.5	7.5	13.5	9.0	11.0	23.5	13.0	17.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.5	17.5	20.0	26.5	24.0	25.0	21.0	21.0	21.0	24.5	23.0	24.0
2	21.5	18.0	19.5	24.5	23.5	24.0	22.0	21.0	21.0	25.0	24.5	25.0
3	22.5	21.0	21.5	25.0	24.0	24.0	23.0	22.0	22.0	26.0	25.0	25.5
4	21.5	21.0	21.0	26.0	24.5	25.0	24.0	22.5	23.0	26.0	24.5	25.5
5	21.0	20.5	21.0	26.5	25.0	25.5	---	---	---	25.0	23.0	23.5
6	20.5	17.5	19.5	26.5	25.0	25.5	---	---	---	23.5	22.0	22.5
7	17.5	15.5	16.0	25.5	24.5	25.0	---	---	---	22.0	21.0	21.5
8	17.0	15.0	16.0	24.5	23.5	24.0	---	---	---	21.5	20.5	21.0
9	20.0	16.5	17.5	24.0	23.5	24.0	---	---	---	23.5	21.5	22.5
10	21.0	18.5	19.5	25.5	23.5	24.5	---	---	---	24.0	22.5	23.0
11	24.0	20.5	21.5	26.5	25.0	25.5	---	---	---	23.0	22.0	22.5
12	23.0	21.0	22.0	27.0	25.0	26.0	---	---	---	23.0	22.0	22.5
13	21.0	19.0	20.0	26.0	24.5	25.5	---	---	---	24.5	22.5	23.5
14	19.0	18.0	18.5	25.0	24.0	24.5	---	---	---	24.0	22.5	23.0
15	18.0	17.5	18.0	24.5	22.5	24.0	---	---	---	23.0	22.5	22.5
16	19.5	17.5	18.0	22.5	21.0	21.5	22.5	20.5	21.5	22.5	21.0	22.0
17	23.5	19.5	21.0	22.5	21.5	21.5	22.5	21.0	22.0	21.0	20.0	20.5
18	23.0	21.0	21.5	25.0	22.5	23.0	22.0	21.0	21.5	20.5	20.0	20.0
19	21.5	20.5	21.0	---	---	---	21.5	20.5	21.0	20.5	19.5	20.0
20	23.5	20.5	21.5	---	---	---	22.0	20.5	21.0	20.5	20.0	20.5
21	22.0	20.5	21.5	23.5	22.5	23.0	22.5	20.5	21.5	21.0	20.0	20.5
22	23.0	21.5	22.0	25.0	23.0	24.0	21.5	20.5	21.0	20.5	20.0	20.0
23	25.5	22.5	24.0	25.5	23.5	24.5	21.0	20.5	21.0	20.0	19.0	19.5
24	24.5	23.0	23.5	24.5	23.5	24.0	23.5	21.0	22.0	20.5	19.0	19.5
25	24.5	23.0	24.0	25.0	23.5	24.0	24.0	21.0	22.5	19.5	18.5	19.0
26	25.5	24.5	25.0	23.5	23.0	23.0	22.5	21.5	22.0	18.5	17.0	18.0
27	27.0	25.5	26.0	23.0	21.0	22.0	23.5	21.5	22.0	17.0	16.0	16.5
28	26.5	25.0	26.0	21.0	20.5	20.5	24.5	23.0	23.5	17.0	16.0	16.5
29	25.5	24.5	25.0	21.0	20.5	21.0	24.5	23.0	23.5	17.5	16.0	16.5
30	25.5	24.5	25.0	21.0	21.0	21.0	24.5	22.5	23.5	16.0	15.5	15.5
31	---	---	---	21.0	21.0	21.0	25.5	23.0	24.0	---	---	---
MONTH	27.0	15.0	21.0	27.0	20.5	23.5	25.5	20.5	22.0	26.0	15.5	21.0
YEAR	27.0	.0	12.5									



(Yearly hydrographs of daily mean values from the water-quality monitor)

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance and water temperature measurements from the water-quality monitor at the station, Ramapo River at Pompton Lakes, NJ. Dissolved oxygen concentration measurements from the monitor were not available due to instrument malfunction.

June 9, 2000

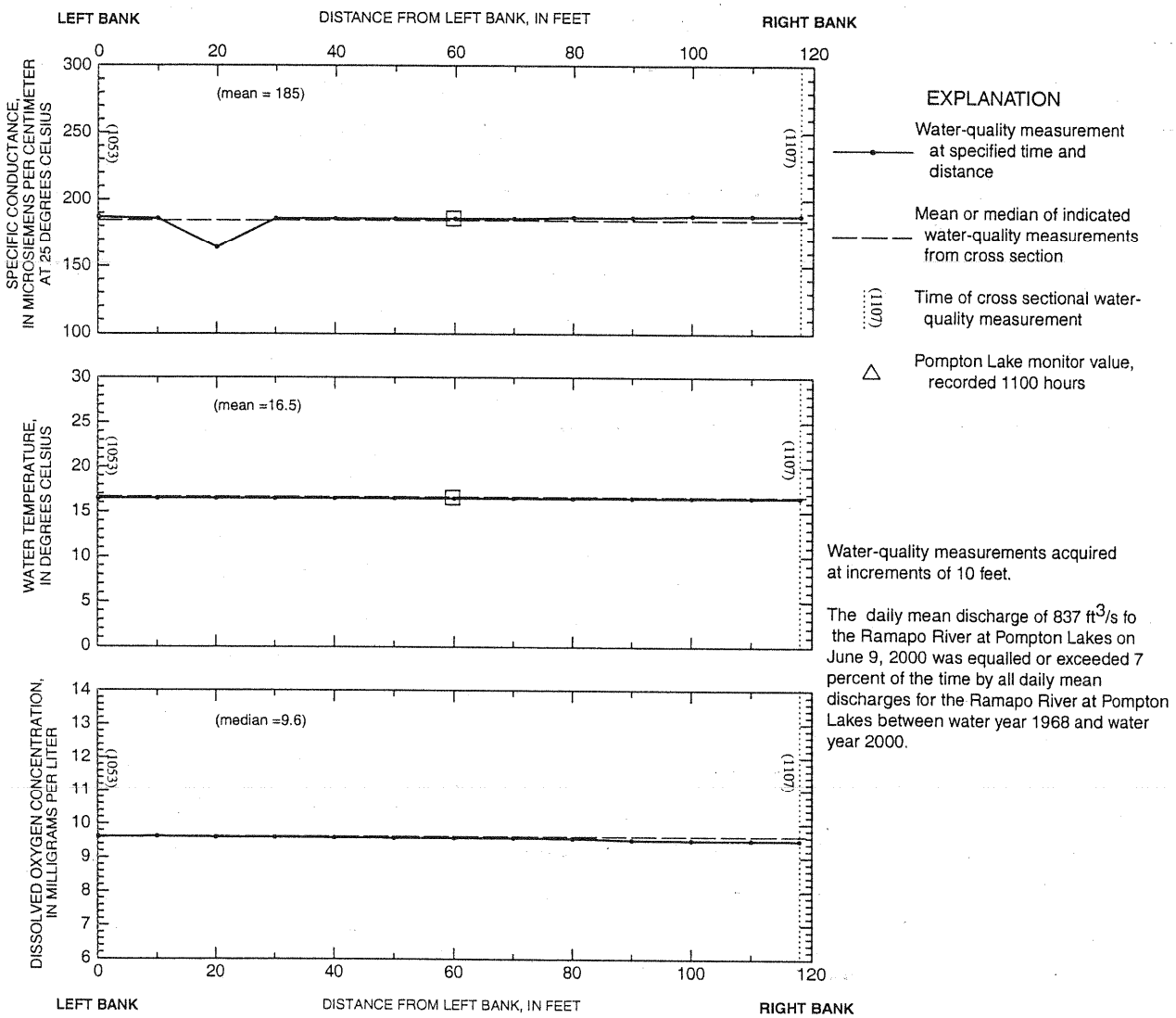


Figure 27. Cross sectional water-quality measurement with recorded monitor values, at Ramapo River at Pompton Lakes, June 9, 2000.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ

LOCATION.--Lat 40°58'09", long 74°16'56", Passaic County, Hydrologic Unit 02030103, on left bank in Passaic Valley Water Commission pumping station, 100 ft upstream from bridge on Jackson Avenue (Pompton Plains Cross Road), 800 ft below confluence of Pequannock and Ramapo Rivers, and 0.7 mi east of Pompton Plains.

DRAINAGE AREA.--355 mi^2.

PERIOD OF RECORD.--Water years 1962-69, 1971-75, 1979-80, 1992, 1994, 1998 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 04...	1045	1160	764	92	10.7	7.6	260	9.0	.132	.104
FEB 2000 07...	1015	E214	759	97	13.7	7.8	433	1.0	.057	.043
MAY 25...	1100	1310	745	101	9.7	7.7	237	16.0	.097	.064
AUG 29...	1000	192	765	95	8.3	8.2	309	22.0	.092	.069

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999 04...	71	19.4	5.44	1.5	26.3	48	41.2	<.1	7.7	14.1
FEB 2000 07...	98	26.9	7.59	1.7	46.3	60	85.9	<.1	8.7	17.5
MAY 25...	64	17.4	5.01	1.1	21.0	42	39.8	<.1	6.7	11.4
AUG 29...	77	20.9	6.01	1.4	25.5	56	48.0	<.1	7.1	14.1

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 04...	.25	.49	<.03	<.030	1.3	1.0	.769	.005	.042	.085
FEB 2000 07...	.26	.28	<.03	.040	1.6	1.6	1.34	.023	.067	.056
MAY 25...	.35	.46	.08	<.030	1.0	.90	.555	.022	.034	.074
AUG 29...	.28	.42	<.03	<.030	.97	.84	.558	.006	.010	.042

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999 04...	4.2	.5	E1.9	8	157	148	38	--	--
FEB 2000 07...	2.5	.4	<1.0	<1	247	236	44	--	--
MAY 25...	3.5	1.1	<1.0	--	147	130	24	8.8	2
AUG 29...	3.6	.9	<1.0	--	170	159	37	.93	2

E Estimated value.
< Actual value is known to be less than the value shown.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1030	270	100	200
JUL 2000				
10...	1012	<20	0	410
17...	1003	170	200	250

< Actual value is known to be less than the value shown.

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ

LOCATION.--Lat 40°53'47", long 74°16'10", Passaic County, Hydrologic Unit 02030103, on left bank, in Two Bridges and 400 ft downstream from the Pompton River.

DRAINAGE AREA.--734 mi^2.

PERIOD OF RECORD.--Water years 1987 to current year.
NUTRIENT AND INORGANIC CHEMICAL DATA: Water years 1987-96.

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: August 1989 to current year. Unpublished fragmentary water-quality records for the period March to July 1989 are available at the U.S. Geological Survey office in West Trenton, N.J.
SPECIFIC CONDUCTANCE: August 1989 to current year.
WATER TEMPERATURE: August 1989 to current year.

INSTRUMENTATION.--Water-quality monitor(s) since March 1989, pumping system, data recorded hourly. Multiple-point monitoring is necessary at this site because of poor mixing below the confluence with the Pompton river. Three intakes, left, middle, and right, are positioned at 70, 160, and 220 ft, respectively, from the edge of the monitor house on the left bank (looking downstream).
Three monitors, water pumped continuously: Water years 1989-99.
One monitor, water pumped sequentially: October 1999 to September 2000.

REMARKS.--The station is 400 ft downstream from the confluence of the Pompton river with the left bank of the Passaic river. One water-quality sensor (monitor) measures the characteristics of water pumped sequentially from three separate intakes. The station is impacted by occasional diversion of water from the Pompton river 750 ft upstream from its junction with the left bank of the Passaic river, which is 400 ft upstream from the station. Interruptions in the daily record were due to instrument or pumping-system malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 20.0 mg/L (measuring limit of instrument) from left and right intakes, on many days during July-September, 1999; minimum, 1.3 mg/L from right intake, May 29, 1991.
SPECIFIC CONDUCTANCE: maximum, 2,910 uS/cm from middle intake, Jan. 16, 1999; minimum, 101 uS/cm from right intake, Sept. 19, 20, 1999.
WATER TEMPERATURE: maximum, 31.5°C from left intake, July 7, 1999; minimum, 0.0°C from left, middle, and right intakes, on many days during winters.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 15.7 mg/L from left intake, Feb. 9; minimum, 4.3 mg/L from right intake, May 12.
SPECIFIC CONDUCTANCE: Maximum, 1,400 microsiemens/cm from right intake, Feb. 2; minimum, 161 microsiemens/cm from right intake, Aug. 13.
WATER TEMPERATURE: Maximum, 26.5°C from right intake, June 27, July 5, 6, 12; minimum, 0.0°C, from left, middle, and right intakes on many days during January and February.

OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.3	7.8	9.0	11.6	8.9	10.0	11.9	10.9	11.4	12.8	12.3	12.6
2	9.9	8.2	9.0	10.1	8.4	9.3	12.2	11.6	11.9	12.8	12.3	12.6
3	9.7	8.0	8.9	9.5	7.9	8.8	12.1	11.7	11.9	12.6	11.8	12.1
4	9.3	7.9	8.3	10.3	9.4	10.0	12.1	11.5	11.7	12.0	11.2	11.5
5	9.2	8.2	8.7	10.5	10.0	10.2	11.8	11.1	11.5	12.1	10.4	11.2
6	9.7	8.8	9.3	10.4	10.0	10.2	11.6	10.6	10.9	12.8	11.9	12.3
7	10.0	9.0	9.5	10.4	9.8	10.1	11.3	10.5	10.9	12.8	12.1	12.4
8	10.3	9.2	9.8	10.9	10.1	10.5	11.4	10.9	11.2	12.7	11.9	12.3
9	10.1	9.2	9.8	11.1	10.4	10.8	11.8	10.9	11.4	12.7	12.1	12.4
10	9.9	8.7	9.0	10.6	10.1	10.3	11.8	11.0	11.3	12.6	10.9	11.6
11	9.7	8.6	9.1	10.4	9.6	10.0	11.7	10.8	11.2	11.9	10.8	11.5
12	9.9	8.8	9.3	10.7	9.8	10.3	12.1	11.3	11.7	12.6	11.6	12.0
13	---	---	---	10.9	10.1	10.5	12.0	11.6	11.8	12.3	11.9	12.0
14	---	---	---	10.7	10.0	10.3	11.9	11.5	11.6	13.9	12.2	13.0
15	---	---	---	11.2	10.0	10.5	11.9	11.4	11.7	14.4	13.7	14.0
16	10.6	9.4	10.0	11.7	10.4	11.0	12.0	11.8	11.9	14.4	13.8	14.0
17	10.5	9.4	10.0	12.2	11.0	11.4	12.3	11.7	12.0	14.4	13.6	14.0
18	10.0	8.5	9.4	12.8	10.5	11.6	12.5	11.9	12.2	14.4	14.0	14.2
19	9.9	8.7	9.4	12.7	10.3	11.0	12.6	12.1	12.4	14.4	13.8	14.0
20	9.5	8.5	8.8	12.4	9.4	10.6	12.5	12.2	12.4	14.1	13.2	13.6
21	9.7	8.5	9.1	11.6	9.1	10.0	12.5	12.0	12.2	13.9	13.3	13.5
22	9.8	8.7	9.2	10.5	8.1	9.4	12.4	12.1	12.2	14.2	13.9	14.0
23	9.4	8.6	9.1	9.6	7.5	8.4	12.6	12.1	12.4	14.4	14.0	14.1
24	9.9	8.7	9.3	9.8	7.7	8.5	12.9	12.2	12.5	14.4	13.7	13.9
25	10.5	9.3	9.8	9.2	7.8	8.6	13.3	12.6	13.0	14.2	13.3	13.6
26	10.6	9.3	10.0	9.5	8.3	9.0	13.2	12.8	13.0	14.2	13.4	13.7
27	10.6	9.4	10.0	9.8	8.7	9.3	12.9	12.4	12.7	14.6	13.7	14.2
28	11.5	9.5	10.4	10.4	9.6	10.0	13.2	12.5	12.9	14.7	14.3	14.5
29	11.7	10.1	10.7	10.7	10.0	10.3	13.2	12.8	13.0	14.8	14.3	14.5
30	11.6	10.0	10.6	11.1	10.4	10.7	13.1	12.7	12.9	14.8	14.4	14.5
31	12.0	9.4	10.6	---	---	---	12.9	12.2	12.5	14.7	13.9	14.2
MONTH	12.0	7.8	9.5	12.8	7.5	10.1	13.3	10.5	12.0	14.8	10.4	13.2

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	13.8	14.1	13.6	12.7	13.1	12.0	10.2	11.1	11.8	10.2	11.0
2	14.6	13.6	14.3	13.6	12.5	13.0	11.5	10.1	10.8	11.5	9.8	10.7
3	14.8	14.2	14.4	13.9	12.9	13.4	11.2	9.8	10.4	11.9	9.4	10.7
4	14.7	13.7	14.1	14.3	13.0	13.6	10.8	9.4	9.8	12.4	9.5	11.1
5	14.5	14.0	14.3	14.1	12.7	13.4	11.2	9.4	10.3	11.8	9.2	10.6
6	14.7	14.3	14.5	14.3	12.5	13.4	11.6	10.3	11.0	11.5	8.4	10.1
7	15.0	14.5	14.7	14.6	12.4	13.5	11.6	9.9	10.8	11.5	7.9	9.8
8	15.3	14.6	14.9	14.1	11.8	13.0	11.3	9.9	10.6	9.8	6.9	8.4
9	15.7	13.4	14.5	13.5	11.2	12.4	11.2	9.1	10.0	8.8	6.4	7.7
10	14.8	13.2	13.9	13.3	10.8	12.0	11.9	10.6	11.3	7.8	6.0	6.4
11	14.2	13.2	13.6	12.5	10.7	11.2	11.8	10.5	11.2	8.1	6.0	7.0
12	14.4	13.0	13.5	11.7	11.1	11.4	12.4	10.8	11.6	8.2	7.0	7.6
13	14.4	13.3	13.7	12.7	11.6	12.3	12.5	10.8	11.7	8.6	7.1	7.9
14	14.9	12.9	13.6	13.0	12.1	12.5	13.4	10.8	12.3	9.9	7.3	8.5
15	14.3	13.3	13.8	13.3	11.8	12.5	13.0	11.8	12.2	9.5	8.0	8.7
16	14.3	13.8	14.0	12.6	11.6	12.2	12.1	11.1	11.6	9.4	8.3	8.8
17	14.7	13.5	14.1	12.0	10.9	11.5	11.5	10.4	10.8	8.9	8.0	8.6
18	14.3	13.8	14.0	13.2	11.9	12.7	12.5	11.0	11.7	8.7	7.7	8.2
19	14.3	13.6	13.9	13.4	12.4	12.8	12.6	12.0	12.3	8.1	7.1	7.6
20	14.7	13.5	14.1	13.4	12.1	12.7	12.2	11.3	11.7	9.2	8.1	8.7
21	14.9	13.5	14.2	12.7	11.9	12.3	11.4	10.9	11.1	9.3	9.1	9.2
22	15.0	13.4	14.2	13.2	12.0	12.6	11.9	11.3	11.6	9.3	9.2	9.2
23	15.2	13.2	14.2	13.2	11.8	12.5	12.2	11.8	12.0	9.4	9.1	9.2
24	14.9	12.8	13.9	12.7	10.9	11.9	12.4	11.4	12.1	9.4	9.0	9.2
25	14.1	12.4	13.0	12.3	10.4	11.4	11.9	11.3	11.6	9.2	8.7	9.0
26	14.0	12.6	13.3	11.7	10.2	11.0	11.8	11.3	11.5	9.2	8.5	8.8
27	13.8	13.0	13.4	12.0	9.7	10.8	12.0	11.3	11.6	9.1	8.3	8.7
28	13.4	12.7	13.0	11.5	9.3	10.0	11.9	11.3	11.6	9.1	8.4	8.8
29	13.5	12.7	13.0	10.9	9.9	10.4	11.9	10.9	11.4	9.1	8.3	8.7
30	---	---	---	11.6	10.2	10.9	11.6	10.2	10.9	9.4	8.3	8.9
31	---	---	---	11.8	10.4	11.1	---	---	---	10.5	8.6	9.5
MONTH	15.7	12.4	13.9	14.6	9.3	12.2	13.4	9.1	11.3	12.4	6.0	8.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.4	8.6	9.6	7.5	6.8	7.2	8.4	7.9	8.2	8.5	6.9	7.6
2	12.3	8.6	10.3	7.6	6.8	7.2	8.6	8.1	8.3	7.3	6.2	6.9
3	10.9	7.7	8.9	8.1	7.1	7.5	8.2	7.7	7.9	7.4	6.2	6.7
4	9.1	7.7	8.5	8.0	7.1	7.4	8.7	7.5	8.0	7.4	6.5	7.0
5	8.5	7.4	7.8	7.7	6.9	7.2	8.9	7.5	8.2	7.9	6.7	7.4
6	8.5	7.4	7.7	7.5	6.8	7.1	8.4	7.4	8.0	8.8	7.2	7.9
7	9.5	8.5	9.1	8.1	6.8	7.4	8.7	7.4	8.0	9.7	7.5	8.3
8	9.5	9.2	9.4	8.7	6.9	7.7	10.7	7.2	8.7	10.2	7.7	8.7
9	9.7	9.0	9.3	9.2	7.0	7.8	10.3	6.8	8.7	11.1	7.8	9.1
10	9.1	8.2	8.6	9.3	6.9	7.9	9.4	7.0	8.0	10.2	7.7	8.8
11	8.2	7.5	7.9	9.8	6.7	8.0	8.8	7.1	7.8	10.6	7.6	8.8
12	7.5	6.6	7.1	10.7	6.9	8.6	8.0	6.6	7.3	10.5	7.8	8.9
13	8.0	7.5	7.8	11.3	7.3	8.9	8.2	7.4	7.8	8.9	7.5	8.1
14	8.2	7.9	8.0	11.0	7.4	8.9	8.0	7.8	7.9	8.2	7.1	7.7
15	8.0	7.9	8.0	8.6	7.0	7.7	8.3	7.9	8.1	8.2	7.2	7.7
16	7.9	7.7	7.8	8.3	7.8	8.1	8.0	7.4	7.6	8.4	7.2	7.9
17	7.8	7.5	7.6	8.7	7.9	8.2	7.5	6.7	7.2	9.2	8.2	8.6
18	7.6	7.0	7.3	8.5	7.8	8.1	7.3	6.4	6.8	9.3	8.6	9.0
19	8.5	7.4	7.9	8.2	7.5	7.8	7.7	6.6	7.1	9.8	7.8	8.8
20	8.8	7.6	8.2	8.3	7.3	7.8	7.6	6.9	7.3	9.4	7.3	8.4
21	9.7	7.3	8.5	8.6	7.3	7.9	7.9	7.1	7.5	9.4	7.6	8.5
22	8.8	7.0	7.9	8.3	7.3	7.8	8.3	7.7	8.0	9.4	7.6	8.5
23	8.9	7.1	7.9	8.8	7.3	8.0	8.4	7.7	8.0	9.0	7.8	8.2
24	8.6	6.8	7.7	8.6	7.6	8.1	8.4	7.2	7.8	8.5	7.7	8.0
25	8.5	6.8	7.7	8.8	7.7	8.2	9.4	7.6	8.5	8.6	8.0	8.3
26	8.8	6.7	7.7	8.1	7.0	7.5	10.5	8.0	9.3	8.6	8.2	8.4
27	9.0	5.5	7.2	8.1	7.1	7.7	11.3	8.8	10.1	9.5	8.5	9.0
28	7.8	5.1	6.8	8.8	8.0	8.4	10.6	9.0	9.7	9.5	8.9	9.2
29	7.1	6.3	6.8	8.6	8.0	8.3	9.3	7.8	8.5	10.0	9.1	9.4
30	7.2	5.9	6.7	8.2	7.9	8.0	8.3	7.7	8.0	10.4	9.4	9.8
31	---	---	---	8.5	8.1	8.2	8.9	7.6	8.0	---	---	---
MONTH	12.3	5.1	8.1	11.3	6.7	7.9	11.3	6.4	8.1	11.1	6.2	8.3
YEAR	15.7	5.1	10.3									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.1	7.8	9.0	8.6	7.2	8.0	8.9	8.3	8.6	12.3	12.0	12.2
2	10.0	8.4	9.3	9.0	7.1	7.7	9.6	8.8	9.2	12.3	12.0	12.1
3	9.7	8.2	9.1	9.6	8.1	8.9	10.2	9.5	9.9	12.0	11.4	11.7
4	9.6	8.2	8.4	10.1	9.4	9.8	10.4	10.1	10.2	11.4	10.7	11.1
5	9.4	8.2	8.8	9.5	7.8	8.8	10.3	9.7	10.0	11.0	10.3	10.5
6	9.9	9.0	9.4	8.5	7.7	8.1	9.9	9.3	9.6	11.0	10.1	10.6
7	9.9	9.1	9.6	8.7	7.9	8.4	9.3	8.9	9.1	11.4	10.7	11.0
8	10.3	9.4	9.9	9.3	8.3	8.8	9.3	8.9	9.1	11.6	11.0	11.3
9	10.2	9.3	9.8	9.3	8.8	9.1	9.9	9.3	9.6	11.7	11.3	11.5
10	10.2	8.9	9.3	9.1	8.7	8.9	9.9	9.7	9.8	11.7	10.9	11.3
11	9.7	8.8	9.3	9.5	8.5	9.1	10.1	9.7	9.9	11.3	10.8	11.1
12	9.8	8.9	9.4	9.7	9.1	9.3	10.6	10.0	10.2	11.2	10.9	11.0
13	---	---	---	9.6	8.7	9.1	10.8	10.5	10.6	10.9	10.7	10.8
14	---	---	---	9.3	8.7	9.0	10.9	10.7	10.8	11.8	10.8	11.3
15	---	---	---	9.7	8.6	9.1	10.8	10.5	10.6	12.5	11.8	12.1
16	10.3	9.3	9.9	9.9	8.9	9.3	10.7	10.3	10.5	13.2	12.5	12.7
17	10.4	9.3	9.9	10.3	9.2	9.6	10.3	10.2	10.2	14.1	12.7	13.2
18	10.0	8.5	9.3	10.6	9.5	10.0	10.7	10.2	10.5	14.1	13.0	13.3
19	9.5	8.5	9.1	11.0	9.8	10.2	10.6	10.5	10.6	13.3	12.8	13.0
20	9.3	8.5	8.8	11.3	9.5	10.3	11.3	10.4	10.7	13.3	13.1	13.2
21	9.2	8.4	8.8	10.5	9.0	9.6	11.7	11.0	11.5	13.2	13.0	13.1
22	8.9	7.5	8.0	9.4	7.9	8.7	11.1	10.6	10.9	13.2	13.0	13.1
23	7.9	7.4	7.7	8.3	7.5	7.9	10.8	10.6	10.7	13.2	12.8	13.0
24	8.0	7.4	7.6	8.3	7.2	7.7	11.1	10.7	10.9	13.0	12.7	12.9
25	8.3	7.7	8.0	7.9	6.8	7.4	11.2	10.9	11.1	13.0	12.1	12.5
26	8.6	8.1	8.4	7.2	6.7	6.9	11.6	11.2	11.4	13.2	12.2	12.7
27	8.6	8.3	8.4	9.3	7.2	8.6	11.7	11.4	11.5	13.1	12.6	12.9
28	8.9	8.3	8.6	9.3	8.4	9.0	12.9	11.6	12.3	13.2	12.7	12.9
29	9.2	8.5	8.8	8.4	7.9	8.1	12.9	12.6	12.7	13.4	12.8	13.1
30	9.4	8.5	8.8	8.4	7.8	8.1	12.7	12.5	12.6	13.4	13.0	13.3
31	9.2	8.1	8.5	---	---	---	12.6	12.2	12.3	13.3	12.8	13.0
MONTH	10.4	7.4	8.9	11.3	6.7	8.8	12.9	8.3	10.6	14.1	10.1	12.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	12.5	12.7	13.2	12.5	12.9	11.0	9.7	10.3	11.2	9.8	10.6
2	13.0	12.5	12.6	13.0	12.2	12.6	11.0	9.8	10.4	11.1	9.4	10.3
3	13.6	12.6	12.9	13.4	12.4	12.9	10.7	9.5	10.1	11.4	9.2	10.4
4	13.2	12.8	13.0	13.9	12.9	13.4	10.6	9.4	9.7	12.0	9.3	10.7
5	13.6	12.9	13.2	13.8	12.8	13.3	11.1	9.5	10.2	11.4	8.9	10.3
6	13.9	13.3	13.6	14.4	12.6	13.5	11.2	10.0	10.7	10.4	8.0	9.3
7	14.4	13.7	14.0	14.5	12.5	13.5	11.3	9.8	10.5	10.3	7.5	9.0
8	14.6	13.8	14.1	14.2	12.1	13.1	11.0	9.7	10.4	9.4	6.9	8.3
9	14.6	13.5	13.9	13.6	11.4	12.6	11.2	9.1	10.0	8.6	6.5	7.6
10	14.5	13.3	13.8	13.4	11.1	12.2	11.9	10.5	11.2	7.9	6.0	6.5
11	14.0	13.3	13.7	12.6	10.8	11.3	11.7	10.5	11.1	7.7	6.2	6.9
12	13.8	12.8	13.2	11.9	11.2	11.6	12.3	10.8	11.5	8.0	6.8	7.4
13	13.9	13.0	13.4	12.8	11.8	12.4	12.3	10.8	11.6	7.7	4.8	6.0
14	13.9	12.9	13.4	12.9	12.0	12.4	12.8	10.6	11.9	9.8	5.4	8.4
15	13.0	12.6	12.8	12.6	11.6	12.1	12.6	11.5	11.9	9.5	8.0	8.8
16	12.9	12.6	12.8	12.2	11.2	11.7	11.9	10.8	11.3	9.4	7.9	8.8
17	12.6	12.1	12.3	11.9	10.9	11.4	11.2	9.9	10.4	9.0	7.3	8.3
18	12.2	12.0	12.1	13.1	11.9	12.6	12.0	10.2	11.1	8.3	7.1	7.9
19	12.0	11.6	11.8	12.8	11.9	12.4	12.2	11.6	11.9	8.0	6.7	7.0
20	11.7	11.4	11.6	12.3	11.7	11.9	11.6	10.7	11.2	7.9	6.6	7.3
21	11.7	11.4	11.5	11.7	11.3	11.5	11.1	10.2	10.7	8.0	7.4	7.7
22	11.9	11.4	11.6	11.6	11.1	11.4	11.9	11.1	11.6	7.4	6.7	7.0
23	12.2	11.4	11.8	12.2	11.3	11.7	12.1	11.8	11.9	6.7	6.6	6.7
24	12.5	11.5	12.0	12.1	11.2	11.7	12.2	11.1	11.9	8.2	6.6	7.5
25	12.4	11.8	12.1	11.7	10.6	11.2	11.2	10.7	11.0	8.0	6.7	7.4
26	13.4	12.0	12.7	11.5	10.0	10.7	10.7	9.9	10.2	6.7	5.9	6.2
27	13.4	12.7	13.0	11.5	9.5	10.6	10.4	9.7	10.0	5.9	5.7	5.8
28	13.3	12.5	12.8	11.1	9.3	10.0	10.4	10.0	10.2	6.0	5.6	5.8
29	13.4	12.6	13.0	10.8	9.9	10.4	10.9	9.9	10.4	6.0	5.8	5.9
30	---	---	---	11.0	10.1	10.5	11.1	9.7	10.4	6.6	5.8	6.2
31	---	---	---	10.6	9.8	10.2	---	---	---	8.8	6.5	7.5
MONTH	14.6	11.4	12.8	14.5	9.3	11.9	12.8	9.1	10.9	12.0	4.8	7.9

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	7.8	8.8	7.4	6.9	7.2	7.2	6.5	6.8	6.9	5.8	6.1
2	10.8	6.1	9.2	7.6	6.8	7.2	6.9	6.2	6.6	5.9	5.2	5.7
3	6.1	5.6	5.8	8.1	7.0	7.4	7.2	5.9	6.3	5.4	5.1	5.2
4	5.7	5.1	5.3	7.9	7.0	7.4	7.4	6.5	6.9	5.4	5.0	5.2
5	7.6	5.0	6.6	8.0	6.6	7.2	7.1	5.8	6.4	6.1	5.2	5.6
6	8.6	7.4	7.7	8.0	6.2	7.0	5.8	5.6	5.7	6.3	5.6	6.0
7	9.5	8.6	9.2	8.4	6.2	7.2	6.9	5.6	6.1	7.6	6.3	6.8
8	9.6	9.3	9.4	9.2	6.4	7.6	9.3	6.3	7.5	8.3	6.8	7.3
9	9.6	9.0	9.2	9.6	6.8	8.1	8.9	6.3	7.8	8.8	6.9	7.7
10	9.0	8.1	8.5	9.5	6.7	8.0	7.8	6.2	6.9	8.6	6.7	7.5
11	8.1	7.4	7.8	10.5	6.8	8.5	7.8	6.1	6.7	8.7	6.4	7.3
12	7.4	6.5	7.0	12.0	7.2	9.2	7.8	6.3	7.1	8.6	6.3	7.3
13	7.8	7.4	7.6	12.1	7.7	9.5	7.4	6.4	6.9	8.9	6.2	7.6
14	7.7	7.1	7.5	10.9	8.1	9.2	6.5	5.8	6.0	7.2	6.1	6.8
15	7.2	6.7	6.9	9.3	7.0	7.9	6.1	5.4	5.6	8.1	6.1	6.9
16	6.7	6.3	6.5	8.3	7.9	8.1	5.4	4.8	5.1	6.6	6.1	6.3
17	6.6	6.1	6.3	8.6	7.8	8.2	5.2	4.8	4.9	7.4	6.3	6.8
18	7.0	6.2	6.6	8.0	7.4	7.7	4.9	4.6	4.7	8.2	7.2	7.7
19	8.0	6.8	7.4	7.6	6.5	7.1	4.9	4.5	4.7	8.5	7.8	8.1
20	8.3	7.2	7.8	8.0	7.1	7.5	5.0	4.6	4.8	9.2	7.3	8.2
21	9.1	7.0	8.0	8.4	7.3	7.8	5.4	4.9	5.1	9.0	7.5	8.3
22	8.3	6.8	7.5	8.1	7.3	7.8	5.6	5.3	5.5	8.8	7.4	8.2
23	7.6	6.3	6.8	8.5	7.1	7.8	5.7	5.5	5.6	8.6	7.6	7.9
24	6.8	5.7	6.3	8.3	7.4	7.9	5.8	5.4	5.6	8.1	7.4	7.7
25	6.9	5.7	6.3	8.5	7.3	7.9	6.5	5.6	6.0	8.2	7.7	7.9
26	7.6	5.6	6.5	7.7	6.9	7.3	6.9	6.1	6.5	8.3	7.9	8.1
27	8.0	5.3	6.4	8.1	6.9	7.7	7.1	6.1	6.6	8.4	7.7	8.1
28	7.1	4.8	6.0	8.6	7.7	8.2	6.9	6.1	6.5	8.7	8.4	8.5
29	6.7	4.9	5.8	7.7	5.9	6.7	6.2	5.7	5.9	9.1	8.5	8.8
30	7.2	5.3	6.4	8.1	5.7	7.0	6.1	5.8	5.9	9.6	8.8	9.1
31	---	---	---	7.9	7.1	7.6	6.6	5.8	6.1	---	---	---
MONTH	10.8	4.8	7.2	12.1	5.7	7.8	9.3	4.5	6.1	9.6	5.0	7.3
YEAR	14.6	4.5	9.4									

OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.5	4.7	5.2	8.4	7.3	8.0	9.3	8.6	9.0	11.5	11.1	11.3
2	5.8	5.4	5.6	8.4	6.8	7.2	10.0	9.2	9.5	11.5	11.0	11.2
3	6.2	5.7	5.9	6.8	4.7	5.8	10.6	9.8	10.2	11.3	10.7	11.0
4	6.1	6.0	6.0	6.2	4.7	5.5	10.7	10.4	10.5	10.7	9.8	10.3
5	6.2	5.7	6.0	6.6	6.0	6.4	10.5	10.1	10.3	9.8	9.3	9.5
6	6.9	6.1	6.6	7.0	6.5	6.8	10.1	9.6	9.9	10.8	9.2	9.9
7	7.5	6.9	7.2	7.5	6.8	7.1	9.7	9.2	9.4	11.2	10.6	10.9
8	7.9	7.5	7.7	8.3	7.4	7.8	9.4	9.2	9.3	11.3	10.9	11.0
9	8.0	7.7	7.9	8.8	8.3	8.5	9.8	9.4	9.6	11.4	11.1	11.2
10	7.8	7.1	7.5	8.8	8.4	8.6	9.8	9.7	9.8	11.5	10.8	11.1
11	7.1	6.4	6.8	8.5	7.9	8.2	10.1	9.7	9.9	10.8	10.0	10.3
12	6.8	6.4	6.6	8.1	7.8	7.9	10.6	10.0	10.3	10.9	10.3	10.6
13	---	---	---	8.7	7.9	8.3	10.8	10.6	10.6	10.8	10.6	10.7
14	---	---	---	8.7	8.4	8.5	10.9	10.7	10.8	11.7	10.7	11.2
15	---	---	---	9.0	8.4	8.7	10.7	10.3	10.5	12.1	11.7	12.0
16	7.9	7.3	7.6	9.4	8.8	9.1	10.5	10.3	10.4	12.3	11.9	12.1
17	8.3	7.8	8.0	10.1	9.2	9.7	10.4	10.2	10.3	13.1	12.3	12.6
18	8.1	7.4	7.8	10.6	9.8	10.2	10.7	10.3	10.6	13.4	13.1	13.2
19	7.4	6.4	6.7	11.0	10.1	10.4	10.7	10.5	10.6	13.3	12.9	13.2
20	6.9	6.4	6.6	11.2	9.8	10.4	10.9	10.5	10.7	13.4	13.2	13.3
21	7.4	6.9	7.2	10.6	9.1	9.8	10.9	10.5	10.7	13.3	13.1	13.2
22	7.6	7.0	7.3	9.6	8.0	8.9	10.7	10.5	10.6	13.5	13.1	13.3
23	7.7	7.4	7.6	8.6	7.7	8.1	10.8	10.5	10.7	13.2	12.6	12.9
24	7.9	7.3	7.5	8.5	7.4	8.0	11.1	10.8	11.0	12.6	12.3	12.4
25	8.3	7.6	8.0	8.1	7.1	7.6	11.3	11.0	11.2	12.3	12.0	12.1
26	8.6	8.1	8.3	7.3	6.8	7.1	11.6	11.2	11.4	12.4	11.9	12.2
27	8.6	8.3	8.5	7.4	7.0	7.3	11.6	11.4	11.5	12.8	12.2	12.5
28	8.9	8.2	8.6	8.1	7.0	7.7	11.8	11.6	11.7	13.2	12.7	12.9
29	9.1	8.6	8.8	8.3	8.0	8.2	11.9	11.7	11.8	13.2	12.9	13.0
30	9.3	8.6	8.8	8.6	8.2	8.4	12.0	11.6	11.8	13.3	12.9	13.1
31	9.0	8.1	8.5	---	---	---	11.8	11.3	11.6	13.1	12.6	12.8
MONTH	9.3	4.7	7.3	11.2	4.7	8.1	12.0	8.6	10.5	13.5	9.2	11.8

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	12.4	12.6	12.5	12.1	12.3	10.0	9.2	9.7	9.6	8.9	9.2
2	12.9	12.2	12.5	12.7	12.0	12.3	10.4	9.5	9.9	9.1	8.3	8.6
3	13.1	12.2	12.6	12.6	12.0	12.3	10.0	8.9	9.4	8.3	7.6	8.0
4	13.0	12.5	12.8	13.0	12.0	12.5	9.2	8.3	8.6	8.3	7.6	8.0
5	13.1	12.4	12.8	13.0	12.1	12.6	8.5	7.6	8.1	8.1	7.4	7.7
6	13.3	12.6	12.9	13.2	11.9	12.6	9.6	8.5	9.1	7.8	7.0	7.3
7	13.5	12.7	13.2	13.4	11.9	12.7	10.1	9.2	9.6	7.5	6.6	7.0
8	13.7	13.1	13.4	13.7	11.8	12.7	10.0	9.0	9.5	7.0	6.1	6.4
9	14.1	13.3	13.6	13.3	11.1	11.9	9.6	8.3	8.9	6.4	5.5	5.9
10	---	---	---	13.1	10.0	11.4	10.2	8.2	9.2	5.9	4.7	5.2
11	---	---	---	11.5	9.2	10.3	10.5	9.5	10.1	5.3	4.5	4.9
12	13.8	12.8	13.2	10.1	9.3	9.7	11.0	9.8	10.4	5.3	4.3	4.7
13	13.9	13.0	13.4	11.5	9.8	10.5	11.3	10.2	10.8	5.4	4.7	5.1
14	14.0	12.5	13.4	12.1	11.5	11.8	11.9	10.2	11.2	5.9	5.3	5.7
15	12.7	12.1	12.4	12.1	11.2	11.7	11.9	10.8	11.2	6.4	5.6	5.9
16	12.9	12.6	12.8	11.9	10.9	11.4	11.2	10.0	10.4	6.8	5.9	6.3
17	12.6	12.2	12.4	11.3	10.0	10.8	10.3	8.8	9.3	6.8	6.4	6.6
18	12.3	12.1	12.2	11.4	10.0	10.8	10.5	8.8	9.7	6.8	6.4	6.6
19	12.1	11.7	11.9	11.7	11.4	11.5	11.2	10.4	10.9	6.4	5.6	6.1
20	11.7	11.5	11.6	11.5	11.3	11.4	10.9	10.1	10.7	7.1	5.5	6.4
21	11.8	11.4	11.6	11.4	10.9	11.3	---	---	---	7.4	7.1	7.3
22	11.9	11.5	11.7	11.2	10.9	11.1	---	---	---	7.2	6.8	7.0
23	12.2	11.5	11.9	12.1	11.1	11.6	---	---	---	6.8	6.7	6.8
24	12.5	11.6	12.1	12.2	11.2	11.7	---	---	---	6.9	6.8	6.9
25	12.4	11.7	12.1	11.8	10.3	11.2	---	---	---	6.8	6.3	6.6
26	12.2	11.7	12.0	11.0	9.7	10.4	---	---	---	6.3	6.0	6.1
27	12.4	12.0	12.2	10.4	8.8	9.7	9.4	8.8	9.1	6.0	5.8	5.9
28	12.3	11.9	12.1	10.0	8.6	9.3	9.5	9.3	9.4	6.1	5.8	6.0
29	12.3	11.6	12.0	9.1	8.3	8.7	9.7	9.4	9.5	6.1	5.9	6.0
30	---	---	---	9.2	8.7	9.0	9.8	9.3	9.5	6.6	5.9	6.2
31	---	---	---	9.5	8.9	9.3	---	---	---	7.0	6.2	6.6
MONTH	14.1	11.4	12.5	13.7	8.3	11.2	11.9	7.6	9.8	9.6	4.3	6.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.8	6.4	6.6	7.6	5.9	6.5	5.6	5.4	5.5	6.4	5.7	6.0
2	6.5	6.0	6.1	8.9	6.2	7.2	5.8	5.6	5.8	6.1	5.4	5.8
3	6.1	5.6	5.8	8.3	6.2	7.1	5.6	5.4	5.5	5.5	5.2	5.3
4	5.6	5.2	5.4	8.2	6.0	6.8	5.7	5.3	5.5	5.5	5.1	5.3
5	5.7	5.2	5.4	8.7	5.7	6.9	6.0	5.6	5.8	6.2	5.3	5.8
6	7.9	5.5	6.3	8.5	6.0	7.1	5.7	5.5	5.6	6.5	5.7	6.1
7	9.0	7.8	8.5	9.0	6.0	7.3	5.6	5.4	5.5	7.2	6.5	6.8
8	9.2	8.0	8.8	10.4	6.3	8.0	5.6	5.3	5.5	7.6	6.8	7.1
9	8.0	6.8	7.3	11.0	6.8	8.6	5.5	5.1	5.2	7.9	6.7	7.1
10	6.8	6.3	6.6	10.8	6.8	8.6	5.2	4.9	5.0	7.6	6.4	6.9
11	6.4	5.8	6.1	11.9	6.9	9.0	5.3	4.8	5.0	8.0	6.4	7.0
12	6.0	4.9	5.4	13.0	7.4	9.8	5.9	5.0	5.3	7.8	6.3	6.8
13	6.6	4.9	5.9	13.4	8.1	10.3	7.1	5.9	6.5	7.9	6.2	6.9
14	6.5	6.1	6.3	11.9	8.2	9.8	6.2	5.9	6.0	6.8	5.7	6.4
15	6.2	6.0	6.2	9.6	7.1	8.0	6.0	5.4	5.7	6.2	5.7	6.0
16	6.1	5.9	6.0	7.1	5.9	6.5	5.4	5.1	5.3	6.4	6.1	6.2
17	6.0	5.6	5.8	5.9	5.3	5.5	5.2	4.9	5.1	7.2	6.3	6.7
18	5.6	5.3	5.4	6.1	5.5	5.8	5.0	4.7	4.8	7.8	7.2	7.5
19	5.6	5.0	5.3	5.8	5.4	5.6	5.0	4.6	4.8	7.8	7.0	7.5
20	5.9	5.5	5.7	6.1	5.3	5.7	5.2	4.7	4.9	7.2	6.6	7.0
21	5.9	5.7	5.8	6.6	5.9	6.3	5.5	5.0	5.2	6.7	6.3	6.6
22	5.8	5.5	5.6	7.0	6.1	6.5	5.7	5.4	5.6	6.6	6.3	6.5
23	5.9	4.9	5.4	6.9	6.0	6.4	5.8	5.6	5.7	6.9	6.6	6.7
24	5.9	5.4	5.7	7.2	5.8	6.4	5.9	5.6	5.7	7.1	6.7	6.8
25	5.9	5.4	5.6	7.6	5.6	6.5	6.3	5.7	6.0	7.3	6.8	6.9
26	6.3	5.3	5.7	7.6	6.2	6.8	6.4	5.9	6.2	7.2	6.9	7.0
27	6.1	5.4	5.7	6.7	6.2	6.4	6.6	6.0	6.3	8.1	7.2	7.7
28	5.9	4.9	5.4	6.8	6.5	6.7	6.2	5.8	6.0	8.4	8.0	8.1
29	5.7	5.0	5.3	6.5	5.9	6.2	6.1	5.8	6.0	8.5	8.1	8.3
30	6.7	5.5	6.0	6.0	5.7	5.9	6.2	5.9	6.0	9.2	8.3	8.6
31	---	---	---	5.7	5.4	5.6	6.4	5.9	6.1	---	---	---
MONTH	9.2	4.9	6.0	13.4	5.3	7.1	7.1	4.6	5.6	9.2	5.1	6.8
YEAR	14.1	4.3	8.6									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	344	314	332	432	348	373	281	270	276	321	310	315
2	345	340	343	358	298	346	285	271	280	327	314	319
3	340	338	339	307	269	292	292	274	284	329	320	325
4	340	304	327	305	270	285	293	278	287	331	320	326
5	316	293	308	270	261	266	296	282	290	327	307	315
6	315	308	311	264	258	260	298	287	294	316	306	312
7	309	303	305	267	256	262	306	288	297	325	315	320
8	309	305	307	273	262	269	317	301	309	327	318	323
9	311	305	308	281	268	276	318	300	308	326	319	323
10	310	295	305	291	274	283	321	300	311	325	283	316
11	300	294	296	304	282	291	325	313	320	287	262	279
12	306	298	302	303	291	299	327	311	320	287	280	285
13	---	---	---	313	298	307	330	317	324	281	275	278
14	---	---	---	322	308	315	329	301	320	296	276	286
15	---	---	---	326	313	322	301	284	292	290	279	284
16	332	321	327	337	321	329	305	298	302	289	283	286
17	337	325	332	350	332	341	298	288	293	302	285	294
18	334	317	324	478	344	390	293	285	287	316	301	309
19	329	312	321	541	438	501	286	280	283	320	311	316
20	330	319	326	644	495	566	284	273	278	340	311	324
21	332	317	324	625	550	582	273	250	259	364	333	351
22	342	329	336	588	477	536	269	259	265	377	358	369
23	340	322	329	576	517	545	270	264	267	366	352	357
24	329	322	325	575	470	518	274	264	269	361	348	355
25	330	322	327	514	421	465	278	267	273	381	357	366
26	336	325	331	463	368	414	284	273	278	410	381	392
27	341	328	336	368	316	332	290	278	285	417	401	411
28	344	332	340	337	303	324	288	276	283	416	403	410
29	350	335	343	303	278	287	295	281	288	405	393	398
30	369	343	352	281	272	276	308	290	299	400	387	393
31	390	343	358	---	---	---	317	305	311	563	388	447
MONTH	390	293	326	644	256	362	330	250	291	563	262	335

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	611	491	528	298	294	296	272	264	268	288	263	273
2	511	438	463	295	288	292	279	270	275	305	288	297
3	438	427	433	290	272	286	288	279	284	304	295	299
4	509	420	459	273	262	267	289	268	280	316	302	309
5	525	488	501	284	273	278	276	271	274	331	316	323
6	510	480	492	289	281	285	281	271	275	342	331	338
7	480	468	473	297	288	290	288	281	285	351	339	344
8	479	467	473	299	295	297	300	288	295	355	345	350
9	910	467	710	303	296	299	299	276	293	362	347	355
10	936	898	920	307	297	302	293	276	288	361	351	356
11	934	888	917	309	292	304	298	293	296	355	350	353
12	953	762	856	300	278	288	305	297	301	364	353	359
13	1160	870	1040	289	272	280	308	286	295	381	356	368
14	1020	438	540	280	272	276	331	306	319	367	300	331
15	490	459	475	276	271	274	339	331	335	319	301	308
16	489	465	477	279	272	275	342	337	339	312	298	304
17	465	447	458	280	251	267	337	326	332	325	310	314
18	447	422	433	260	248	254	326	305	316	329	319	323
19	516	430	478	263	249	256	306	299	303	320	289	300
20	501	438	456	263	249	257	309	299	305	295	276	285
21	442	430	434	262	258	260	309	271	302	284	271	277
22	442	432	436	273	262	268	276	247	265	287	281	284
23	451	435	443	282	272	278	251	231	240	286	280	282
24	467	449	458	292	282	288	237	228	233	281	250	266
25	474	462	467	303	291	298	237	228	234	265	251	258
26	472	429	448	308	294	303	237	234	236	259	256	258
27	429	382	404	303	288	293	244	236	240	268	255	262
28	382	327	355	304	271	289	253	244	248	277	265	272
29	327	298	311	286	264	276	258	252	256	283	274	278
30	---	---	---	267	262	264	269	257	265	290	280	285
31	---	---	---	267	263	265	---	---	---	295	286	291
MONTH	1160	298	529	309	248	281	342	228	283	381	250	307

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	303	292	298	378	352	368	240	225	234	396	371	384
2	314	301	307	388	372	381	244	239	242	389	364	380
3	336	312	326	395	380	389	250	241	245	395	368	381
4	345	327	337	394	381	387	249	230	241	404	394	398
5	346	328	338	390	368	381	259	247	254	413	395	402
6	341	273	326	400	383	392	268	257	263	421	405	414
7	282	221	261	402	388	396	274	266	270	425	402	415
8	221	183	196	407	393	400	281	271	276	426	404	417
9	205	193	200	406	395	401	289	278	284	426	408	418
10	219	205	213	402	391	396	307	285	298	422	400	408
11	235	219	227	410	392	400	313	280	303	415	396	407
12	232	222	226	444	403	416	317	276	301	427	407	417
13	228	219	223	483	410	425	293	208	243	420	359	384
14	233	221	226	474	411	425	220	206	212	390	341	365
15	238	231	235	666	246	357	238	194	223	390	323	354
16	249	236	243	312	223	268	244	231	236	398	342	376
17	261	249	256	223	208	213	254	235	244	404	391	398
18	266	260	263	223	209	217	256	242	250	407	392	402
19	270	261	266	236	222	229	270	250	260	408	358	395
20	285	269	276	249	232	240	274	256	267	407	321	357
21	297	282	290	262	245	254	286	270	278	422	405	414
22	294	278	289	276	258	266	303	284	292	405	386	393
23	298	290	293	285	268	276	309	296	302	386	375	383
24	306	293	300	304	276	290	315	297	308	379	368	373
25	330	303	314	316	294	305	320	308	314	369	353	358
26	340	322	331	323	298	312	327	310	318	359	341	351
27	497	340	399	298	221	253	336	316	326	342	320	330
28	509	342	389	277	260	270	351	330	342	342	325	334
29	356	335	347	265	252	260	355	341	350	343	330	337
30	459	337	367	261	191	234	354	333	343	351	333	341
31	---	---	---	233	223	229	376	347	361	---	---	---
MONTH	509	183	285	666	191	324	376	194	280	427	320	383
YEAR	1160	183	331									

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	335	309	328	560	524	549	330	303	314	369	349	359
2	339	332	335	565	310	487	365	329	343	380	361	372
3	334	327	331	314	272	298	401	365	378	386	361	374
4	334	297	319	309	280	292	436	401	416	396	341	379
5	309	285	301	317	274	294	477	436	452	395	342	364
6	305	300	304	334	312	321	474	449	463	393	368	378
7	306	296	302	353	323	336	465	385	435	381	367	372
8	309	300	305	375	339	361	385	342	356	380	364	373
9	310	300	305	427	370	403	342	327	333	398	379	386
10	306	288	299	443	400	422	367	336	350	401	306	370
11	298	285	292	438	346	379	407	367	387	321	281	297
12	305	292	300	413	360	378	425	403	413	299	265	280
13	---	---	---	468	413	442	451	423	435	287	265	278
14	---	---	---	486	423	464	451	426	444	311	286	299
15	---	---	---	520	450	489	436	316	382	343	311	330
16	347	333	340	549	506	524	328	299	313	362	334	344
17	366	337	347	582	532	567	299	293	295	385	329	357
18	345	328	335	601	575	591	311	294	303	452	329	416
19	355	330	343	627	584	606	339	311	326	506	345	438
20	358	331	342	646	615	633	350	325	340	402	353	368
21	397	337	360	642	625	634	325	287	301	397	346	370
22	441	356	398	642	588	618	299	283	293	484	381	435
23	429	401	412	614	572	592	297	286	293	537	484	519
24	412	373	385	596	565	581	315	294	306	537	504	521
25	407	379	387	592	564	584	343	314	328	634	498	559
26	418	403	411	581	516	565	362	340	349	588	512	544
27	442	417	429	521	340	388	390	362	376	590	537	559
28	476	440	450	345	284	321	398	304	337	700	590	647
29	502	476	487	293	274	284	330	304	314	789	646	722
30	518	502	512	304	287	295	346	322	333	695	655	673
31	538	518	532	---	---	---	357	334	345	677	630	655
MONTH	538	285	364	646	272	457	477	283	357	789	265	430

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	746	648	679	359	311	332	339	317	330	321	289	304
2	1230	746	1080	385	353	371	334	325	330	330	316	321
3	1180	940	1080	395	366	384	332	311	320	328	309	317
4	1070	987	1020	382	364	372	314	275	290	337	318	327
5	1020	778	890	382	305	373	288	280	283	378	330	344
6	806	702	764	387	300	312	316	283	300	402	378	388
7	786	605	725	411	310	340	327	310	318	404	385	397
8	791	679	727	414	312	351	344	322	332	398	357	368
9	921	700	836	405	303	322	338	287	312	371	358	365
10	936	898	920	314	302	308	314	286	304	384	364	371
11	934	891	917	317	299	310	321	309	315	388	361	374
12	1090	899	975	303	283	293	326	309	317	406	384	392
13	1230	1090	1170	299	280	287	351	298	318	527	379	457
14	1090	594	836	324	294	305	376	348	362	518	305	344
15	650	509	572	365	319	334	383	369	375	326	306	314
16	509	429	448	369	331	350	384	358	370	359	302	318
17	441	428	435	367	258	291	386	369	377	418	317	342
18	445	438	442	276	255	264	380	334	353	425	327	358
19	507	443	458	310	270	287	341	325	332	408	324	364
20	798	507	655	322	297	310	359	333	348	353	275	311
21	820	798	811	339	319	329	360	290	341	276	265	270
22	821	773	806	360	337	347	290	251	272	271	263	267
23	773	688	731	375	358	365	255	237	245	280	271	276
24	688	623	659	379	368	374	247	237	241	283	271	278
25	623	538	592	381	366	373	263	239	250	278	269	274
26	538	456	489	373	324	348	284	260	272	288	277	283
27	456	416	433	345	322	334	---	---	---	299	288	294
28	416	339	376	341	278	301	317	298	307	314	299	307
29	339	314	323	292	272	282	324	308	315	332	314	324
30	---	---	---	297	273	283	315	289	307	351	330	341
31	---	---	---	324	294	309	---	---	---	359	342	349
MONTH	1230	314	719	414	255	327	386	237	315	527	263	334

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	344	329	337	386	361	376	288	259	274	478	458	466
2	459	338	354	399	384	392	301	281	293	599	477	549
3	504	459	482	450	397	419	314	280	304	547	377	453
4	531	494	507	448	385	412	297	272	285	446	377	404
5	531	365	422	533	400	452	316	280	305	427	354	397
6	377	274	346	574	533	550	337	316	328	452	374	414
7	282	220	262	616	529	571	343	328	335	486	452	470
8	220	187	197	631	581	606	331	313	323	543	476	520
9	213	195	204	650	536	593	358	315	332	587	515	540
10	232	213	223	682	525	609	386	358	368	565	517	543
11	244	227	234	711	573	662	395	313	378	636	556	599
12	239	228	232	702	612	672	372	287	315	637	568	603
13	234	223	228	712	579	654	318	183	230	669	402	487
14	255	228	240	748	603	691	202	188	195	561	499	538
15	288	254	272	773	250	468	191	184	188	567	370	464
16	322	280	306	315	226	270	194	187	191	568	422	481
17	335	317	326	226	211	217	204	194	199	455	422	436
18	325	295	311	260	218	237	214	204	209	488	451	470
19	295	279	287	277	252	269	228	214	221	485	377	450
20	307	286	295	270	254	262	246	228	237	423	345	386
21	329	304	317	279	254	269	269	246	258	430	419	424
22	340	301	315	302	273	288	295	269	283	419	401	406
23	372	340	355	331	292	309	322	295	309	411	399	404
24	393	371	381	363	310	338	372	322	343	411	401	406
25	406	389	397	387	339	359	410	372	388	428	393	410
26	502	393	409	424	317	370	444	410	424	418	373	399
27	549	394	451	396	230	271	476	439	454	545	398	505
28	561	402	476	280	261	272	483	460	470	514	437	474
29	561	394	452	267	260	263	554	483	524	455	421	441
30	530	361	427	273	201	246	551	397	446	486	422	464
31	---	---	---	260	234	246	458	419	437	---	---	---
MONTH	561	187	335	773	201	407	554	183	318	669	345	467
YEAR	1230	183	401									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	452	351	398	560	523	550	330	304	315	492	475	479
2	396	376	388	572	399	542	368	329	344	497	476	488
3	463	396	430	542	366	497	404	368	383	500	467	482
4	486	456	475	366	323	342	442	404	422	484	465	475
5	496	405	463	346	314	330	482	442	458	469	446	458
6	405	380	390	379	346	359	478	457	468	448	385	403
7	437	391	413	404	377	389	465	385	436	389	373	380
8	473	437	449	440	404	421	385	343	356	398	373	385
9	504	473	494	474	438	457	343	328	333	426	396	408
10	551	496	534	482	459	468	367	339	352	430	409	423
11	565	485	541	502	466	479	407	367	387	422	293	360
12	485	419	455	514	493	505	425	403	413	304	263	276
13	---	---	---	543	514	532	452	424	435	287	263	278
14	---	---	---	553	527	546	455	439	447	312	286	299
15	---	---	---	579	544	565	447	317	398	354	312	333
16	507	479	485	592	564	578	331	299	314	404	353	376
17	549	507	535	601	568	586	299	293	295	423	400	410
18	561	526	544	603	576	593	312	294	303	459	421	437
19	566	480	514	627	583	606	339	312	326	507	345	439
20	496	480	487	645	615	633	354	335	344	402	353	368
21	529	422	491	642	625	634	371	306	347	398	347	370
22	443	405	423	642	588	619	309	289	300	500	383	437
23	432	409	420	613	572	592	298	287	294	586	500	550
24	420	376	390	596	565	581	316	295	307	637	586	616
25	410	383	390	592	563	583	344	314	328	660	637	648
26	419	404	412	581	538	567	365	342	351	654	618	633
27	443	418	430	559	360	489	394	365	380	635	607	616
28	476	440	451	360	274	314	417	394	406	748	626	667
29	503	476	487	293	269	282	450	414	425	795	748	772
30	518	503	512	304	287	296	466	443	450	760	721	732
31	537	517	532	---	---	---	477	453	462	740	701	722
MONTH	566	351	462	645	269	498	482	287	374	795	263	475

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	785	671	704	432	424	428	382	360	372	417	387	399
2	1400	785	1170	425	416	422	402	381	391	446	415	429
3	1390	1200	1260	425	415	420	419	398	406	459	440	449
4	1240	1170	1220	438	424	432	435	412	423	469	448	458
5	1170	984	1070	457	435	446	433	386	406	497	469	480
6	1020	981	992	470	452	457	404	380	390	510	481	495
7	1040	1000	1020	470	453	461	419	398	409	539	504	520
8	1010	924	971	478	462	468	440	416	428	547	521	529
9	939	893	916	508	473	481	448	429	438	582	535	547
10	---	---	---	609	508	562	447	437	442	590	558	568
11	---	---	---	618	564	597	446	429	437	600	556	578
12	1090	898	973	568	469	526	448	438	444	602	533	564
13	1230	1090	1170	507	399	465	451	443	446	533	503	518
14	1090	857	988	399	384	387	467	441	453	534	502	521
15	865	511	638	406	383	396	483	458	470	502	440	455
16	511	429	447	422	403	412	493	470	480	459	438	446
17	441	428	435	422	395	417	493	472	483	476	450	459
18	445	439	442	395	343	364	472	430	457	487	467	472
19	507	443	458	344	338	341	430	376	396	504	372	466
20	797	507	654	354	343	349	386	374	381	394	269	324
21	820	797	811	366	354	360	---	---	---	272	261	266
22	822	773	806	380	366	373	---	---	---	270	261	265
23	773	689	732	396	379	389	---	---	---	280	270	276
24	689	624	659	415	395	405	---	---	---	288	280	283
25	624	567	600	426	407	416	---	---	---	285	277	280
26	567	507	536	440	417	428	---	---	---	289	281	285
27	507	465	484	444	431	436	---	---	---	300	289	295
28	465	442	450	442	399	420	347	327	338	315	299	308
29	444	432	440	407	332	349	365	347	358	332	315	324
30	---	---	---	344	334	338	390	363	377	357	331	342
31	---	---	---	361	343	353	---	---	---	399	356	373
MONTH	1400	428	779	618	332	423	493	327	418	602	261	419

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	439	399	418	560	541	552	319	298	309	499	461	481
2	479	439	459	595	553	578	325	315	319	597	499	550
3	517	469	488	624	577	600	342	321	334	547	374	451
4	533	497	512	653	603	627	367	311	339	445	375	403
5	534	523	526	674	624	647	339	309	324	425	354	396
6	558	366	516	705	639	676	344	323	334	453	372	413
7	396	245	339	717	685	701	374	344	359	488	453	475
8	270	220	245	697	660	677	424	374	396	567	483	541
9	323	262	296	704	652	674	464	424	442	614	549	591
10	362	323	344	718	677	697	490	464	479	630	592	616
11	397	362	378	724	686	710	494	450	484	676	617	646
12	437	365	413	733	693	716	523	322	430	697	646	672
13	365	264	306	730	693	710	338	161	220	725	667	686
14	280	264	273	755	730	745	205	183	196	680	607	644
15	314	280	299	774	398	577	193	186	190	607	568	589
16	346	314	332	557	253	349	196	189	193	601	426	492
17	372	345	361	316	256	282	206	196	201	466	426	442
18	405	370	386	318	294	307	216	206	211	511	466	491
19	441	403	418	363	318	340	231	216	223	531	485	510
20	456	433	445	417	363	388	249	231	239	578	491	539
21	483	456	466	488	417	447	272	249	260	500	423	452
22	491	464	476	528	488	510	297	272	285	464	401	426
23	480	417	435	574	528	565	325	297	312	491	464	481
24	451	416	429	613	564	599	375	325	345	551	491	533
25	465	441	452	632	582	608	423	375	396	586	529	563
26	504	465	478	645	608	626	459	423	439	600	556	580
27	551	485	502	636	332	532	490	455	469	636	559	606
28	563	524	542	332	247	264	507	481	490	640	525	576
29	562	490	513	267	250	260	556	507	528	547	534	543
30	541	519	526	281	267	274	554	398	448	605	534	582
31	---	---	---	298	281	288	461	419	440	---	---	---
MONTH	563	220	419	774	247	533	556	161	343	725	354	532
YEAR	1400	161	471									

TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	17.5	18.0	14.0	12.5	13.0	7.0	5.0	6.0	3.5	3.0	3.0
2	18.0	17.0	17.5	14.0	12.5	13.5	5.0	4.0	4.5	4.5	3.0	3.5
3	18.0	17.0	17.5	14.0	12.0	13.5	5.5	4.0	5.0	5.5	4.5	5.0
4	18.0	17.0	17.5	12.0	10.5	11.5	6.5	5.5	6.0	6.5	5.5	6.0
5	17.0	15.0	16.0	11.0	10.0	10.5	7.0	6.0	6.5	6.5	4.5	5.5
6	15.0	14.0	14.5	11.0	10.0	10.5	7.5	7.0	7.0	4.5	3.5	3.5
7	14.5	13.5	14.0	11.0	9.5	10.0	7.5	7.0	7.5	4.0	3.5	4.0
8	13.5	12.5	13.0	9.5	8.5	9.0	7.0	6.0	6.5	4.0	3.5	4.0
9	14.5	13.0	13.5	9.5	8.0	9.0	6.5	6.0	6.0	4.5	3.5	4.0
10	15.0	14.5	14.5	11.0	9.0	10.0	6.5	5.5	6.0	5.0	4.5	5.0
11	15.5	14.5	15.0	11.0	9.5	10.5	6.5	6.0	6.0	5.0	4.5	4.5
12	15.0	14.0	14.5	9.5	8.5	9.0	6.0	5.0	5.0	4.5	4.0	4.5
13	---	---	---	9.5	8.5	9.0	5.0	4.5	5.0	4.5	3.0	4.0
14	---	---	---	9.0	8.5	9.0	5.5	5.0	5.5	3.0	1.0	2.0
15	---	---	---	8.5	8.0	8.0	5.5	5.0	5.5	1.0	.0	.5
16	14.0	12.5	13.5	8.0	6.5	7.0	6.0	5.5	6.0	1.5	.5	1.0
17	14.5	13.5	14.0	7.0	5.5	6.0	5.5	5.0	5.5	1.0	.0	.5
18	15.0	14.5	14.5	7.0	5.5	6.0	5.5	5.0	5.0	.5	.0	.5
19	14.5	13.0	13.5	7.5	5.5	6.5	5.0	4.5	5.0	1.0	.0	.5
20	13.5	12.5	13.0	8.5	6.5	7.5	4.5	4.0	4.5	.5	.5	.5
21	13.0	12.0	12.5	10.0	8.0	9.0	5.0	4.5	5.0	1.0	.5	.5
22	13.0	12.0	12.5	11.0	9.5	10.5	5.0	4.5	4.5	1.0	.0	.5
23	13.0	12.0	12.5	12.0	10.5	11.5	4.5	3.5	4.0	.5	.0	.5
24	12.0	11.0	11.5	12.5	12.0	12.5	4.0	3.0	3.5	1.0	.5	.5
25	11.5	10.5	11.0	12.5	11.5	12.0	3.0	2.0	2.0	1.0	.5	.5
26	11.5	10.5	11.0	11.5	11.0	11.5	2.0	1.5	2.0	1.0	.0	.5
27	12.0	11.0	11.5	12.0	11.0	11.5	2.5	2.0	2.5	1.0	.0	.5
28	12.0	10.5	11.0	11.0	10.0	10.5	2.5	1.5	2.0	1.0	.0	.5
29	12.0	10.5	11.0	10.0	8.5	9.0	2.0	1.5	2.0	1.0	.0	.5
30	12.0	11.0	11.5	8.5	7.0	7.5	3.0	2.0	2.5	1.0	.0	.5
31	13.5	11.5	12.5	---	---	---	3.5	3.0	3.0	1.0	.5	.5
MONTH	18.5	10.5	13.5	14.0	5.5	10.0	7.5	1.5	4.5	6.5	.0	2.0

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	.0	.5	5.0	4.0	4.5	11.0	9.0	10.0	13.5	12.0	13.0
2	1.0	.0	.5	5.0	4.5	4.5	11.0	10.0	10.5	15.0	13.0	14.0
3	1.0	.5	.5	5.0	4.0	4.5	12.0	11.0	11.5	15.5	14.0	15.0
4	1.0	.5	.5	5.0	3.5	4.5	12.5	11.5	12.0	16.5	14.5	15.5
5	1.5	.5	1.0	6.0	5.0	5.5	12.0	10.0	11.0	17.5	16.0	17.0
6	1.5	.5	1.0	6.5	5.0	6.0	11.0	9.0	10.0	20.0	17.0	18.5
7	1.5	1.0	1.0	7.0	5.5	6.5	11.5	10.5	11.0	21.5	19.0	20.0
8	2.0	1.0	1.0	8.5	7.0	7.5	14.0	11.0	12.5	22.0	20.0	21.0
9	2.5	1.0	1.5	9.0	8.0	8.5	13.5	9.5	11.5	22.5	21.0	22.0
10	3.0	1.0	2.0	9.5	8.5	9.0	10.5	8.5	9.5	22.5	19.0	21.0
11	3.5	2.0	3.0	9.0	7.5	8.5	10.0	9.0	9.5	20.0	18.5	19.0
12	3.5	2.5	3.0	7.5	7.0	7.0	10.5	8.5	9.5	19.5	18.5	19.0
13	2.5	1.5	2.0	7.0	5.5	6.5	10.5	9.0	9.5	19.5	18.0	19.0
14	2.5	2.0	2.0	7.0	6.0	6.5	11.5	9.0	10.0	19.5	17.5	18.5
15	2.0	1.5	2.0	7.5	6.0	7.0	11.5	10.5	11.0	19.0	17.5	18.0
16	2.5	1.5	2.0	8.0	7.5	7.5	13.5	11.5	12.0	18.0	16.5	17.5
17	2.5	2.0	2.0	8.0	6.0	7.5	13.5	11.0	12.0	18.5	17.0	18.0
18	2.5	1.5	1.5	6.0	5.0	5.5	11.0	9.5	10.0	18.5	17.5	18.0
19	2.0	1.5	1.5	6.5	5.0	6.0	11.0	9.5	10.0	18.5	16.5	17.5
20	2.5	1.5	2.0	7.0	5.5	6.5	12.0	11.0	11.5	16.5	14.5	15.5
21	3.0	1.5	2.5	7.0	6.0	6.5	12.0	10.5	11.0	14.5	14.5	14.5
22	3.5	2.0	3.0	7.0	6.0	6.5	10.5	10.0	10.0	14.5	14.5	14.5
23	4.5	3.0	3.5	8.5	6.5	7.5	10.0	9.5	9.5	14.5	14.0	14.5
24	5.0	3.5	4.5	10.0	8.5	9.0	11.5	9.0	10.0	16.0	14.0	15.0
25	5.0	4.5	4.5	10.5	9.5	10.0	11.5	10.5	11.0	17.0	16.0	16.5
26	4.5	4.0	4.0	11.5	10.0	11.0	11.5	10.5	10.5	18.5	17.0	17.5
27	4.5	4.0	4.0	11.0	10.0	10.5	10.5	10.0	10.5	18.0	17.5	18.0
28	5.0	4.0	4.5	11.5	10.5	11.0	11.0	10.0	10.5	18.0	17.0	17.5
29	5.0	4.0	4.5	11.0	9.5	10.0	13.0	11.0	11.5	18.0	17.0	17.5
30	---	---	---	10.0	9.0	9.5	13.5	12.5	13.0	17.5	16.0	17.0
31	---	---	---	10.0	9.0	9.5	---	---	---	18.0	16.5	17.5
MONTH	5.0	.0	2.5	11.5	3.5	7.5	14.0	8.5	10.5	22.5	12.0	17.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	17.5	18.5	24.5	22.5	23.5	21.0	20.5	21.0	25.0	23.5	24.0
2	22.5	19.0	20.5	25.0	23.0	24.5	22.5	21.0	21.5	25.0	24.0	24.5
3	22.5	20.5	21.5	25.0	23.5	24.0	23.0	22.0	22.5	24.5	24.0	24.5
4	21.0	20.0	20.5	24.5	23.5	24.0	23.5	22.0	22.5	25.0	23.5	24.5
5	20.5	19.0	19.5	25.5	24.0	24.5	23.5	22.5	23.0	23.5	21.0	22.5
6	19.0	15.5	17.5	25.0	23.5	24.5	23.0	22.0	22.5	22.0	20.0	21.0
7	16.5	15.5	16.0	24.5	22.5	23.5	23.5	21.5	22.5	21.5	19.0	20.0
8	17.5	16.0	16.5	24.5	22.0	23.0	25.0	23.0	24.0	21.0	18.5	20.0
9	19.5	17.5	18.0	24.0	21.5	23.0	26.0	24.0	25.0	22.5	19.5	21.0
10	21.5	19.5	20.0	25.0	22.5	23.5	25.5	24.0	24.5	22.5	21.0	21.5
11	23.0	21.0	22.0	26.0	23.0	24.0	25.5	24.0	24.5	23.0	21.0	22.0
12	22.5	20.5	22.0	26.0	22.5	24.0	24.0	22.0	23.0	23.5	22.0	22.5
13	20.5	19.0	19.5	25.5	23.0	24.0	22.0	21.0	21.5	23.5	22.0	23.0
14	19.0	18.0	18.5	24.5	23.5	24.0	21.5	20.5	21.0	22.5	21.5	22.0
15	18.5	17.5	18.0	23.5	21.0	22.5	21.5	20.0	20.5	22.0	21.0	21.5
16	20.5	18.0	19.0	22.0	21.5	22.0	22.0	21.0	21.5	21.0	19.5	20.5
17	22.5	20.0	21.0	23.0	21.5	22.0	22.0	21.0	21.5	20.0	18.5	19.5
18	22.0	20.5	21.5	24.0	22.5	23.0	21.5	20.0	21.0	20.0	18.5	19.0
19	20.5	20.0	20.5	24.0	21.5	23.0	20.5	19.5	20.0	19.5	19.0	19.0
20	22.0	19.5	21.0	22.5	21.0	22.0	21.0	20.0	20.5	21.0	19.0	20.0
21	23.0	21.0	22.0	23.5	21.5	22.5	20.5	19.5	20.0	21.0	20.0	20.5
22	22.5	21.0	22.0	23.5	22.0	23.0	21.0	20.0	20.5	20.5	19.0	19.5
23	23.5	21.5	22.5	23.5	22.0	23.0	21.0	20.0	20.5	19.5	18.5	19.0
24	24.0	22.5	23.5	23.5	22.5	23.0	21.0	19.5	20.5	19.0	18.5	18.5
25	24.5	22.5	23.5	23.0	22.5	22.5	22.0	20.5	21.5	18.5	17.5	18.0
26	25.5	24.0	24.5	22.5	21.0	22.0	22.5	21.0	22.0	17.5	15.5	16.5
27	26.0	24.5	25.5	21.5	20.5	21.0	22.5	21.5	22.0	16.5	15.0	15.5
28	25.5	23.5	24.5	21.5	20.5	21.0	22.5	22.0	22.0	16.5	15.5	16.0
29	24.5	23.5	24.0	21.5	21.0	21.0	23.0	22.0	22.5	16.0	15.0	15.5
30	24.0	22.5	23.5	21.5	20.5	21.0	23.5	22.5	22.5	16.0	14.5	15.0
31	---	---	---	21.5	21.0	21.0	24.5	22.5	23.5	---	---	---
MONTH	26.0	15.5	21.0	26.0	20.5	23.0	26.0	19.5	22.0	25.0	14.5	20.0
YEAR	26.0	.0	13.0									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	17.5	18.0	14.0	12.5	13.5	6.5	4.5	5.5	3.5	3.0	3.5
2	18.0	17.0	17.5	14.5	13.5	14.0	4.5	4.0	4.5	4.5	3.5	4.0
3	18.0	17.0	17.5	14.5	12.0	13.5	5.0	4.0	4.5	5.5	4.5	5.0
4	18.0	17.0	17.5	12.0	11.0	11.5	6.5	5.0	5.5	7.0	5.5	6.5
5	17.0	15.0	16.0	11.0	10.0	10.5	8.0	6.5	7.0	7.0	6.0	6.5
6	15.0	14.0	14.5	11.0	10.0	10.5	8.5	8.0	8.0	6.0	4.5	5.0
7	14.5	13.5	14.0	11.0	10.0	10.5	9.0	8.5	8.5	4.5	4.0	4.0
8	13.5	12.5	13.0	10.0	9.0	9.5	8.5	7.0	7.5	4.5	3.5	4.0
9	14.5	13.0	14.0	9.0	8.5	9.0	7.0	6.5	6.5	4.5	3.5	4.0
10	15.0	14.5	14.5	10.5	9.0	10.0	6.5	6.0	6.5	5.5	4.5	5.0
11	15.5	14.5	15.0	11.0	10.0	10.5	6.5	6.0	6.0	5.5	5.0	5.0
12	15.5	14.0	14.5	10.0	9.0	9.5	6.0	5.0	5.5	5.0	4.5	4.5
13	---	---	---	9.5	9.0	9.5	5.0	4.5	4.5	4.5	3.5	4.0
14	---	---	---	9.0	8.5	9.0	5.5	5.0	5.0	3.5	1.0	2.0
15	---	---	---	9.0	8.0	8.5	6.0	5.5	5.5	1.0	.5	1.0
16	14.0	13.0	13.5	8.0	6.5	7.5	6.5	6.0	6.5	1.5	.5	1.0
17	14.5	14.0	14.0	7.0	6.0	6.5	6.5	5.5	6.0	1.5	.5	.5
18	15.0	14.5	15.0	6.5	5.5	6.0	5.5	5.0	5.0	.5	.0	.5
19	14.5	13.5	13.5	6.5	5.5	6.0	5.0	4.5	5.0	.5	.0	.0
20	13.5	13.0	13.0	8.0	6.0	7.0	4.5	4.0	4.5	.0	.0	.0
21	13.0	12.5	13.0	9.5	8.0	9.0	5.5	4.5	5.0	.5	.0	.0
22	13.0	12.0	12.0	11.0	9.5	10.5	5.5	5.0	5.0	.5	.0	.0
23	12.5	12.0	12.0	12.0	11.0	12.0	5.0	4.0	4.5	.5	.0	.5
24	12.5	11.5	12.0	13.0	12.0	13.0	4.0	3.0	3.5	1.0	.5	.5
25	11.5	11.0	11.0	13.5	13.0	13.5	3.0	2.0	2.5	.5	.0	.5
26	11.5	10.5	11.0	13.0	13.0	13.0	2.0	1.5	1.5	1.0	.0	.5
27	11.5	11.0	11.0	13.0	11.5	12.0	2.0	1.5	1.5	.5	.0	.5
28	11.5	11.0	11.0	11.5	10.5	11.0	2.5	2.0	2.0	.5	.0	.0
29	11.5	10.5	11.0	10.5	8.5	9.5	2.5	1.5	2.0	.5	.0	.5
30	11.5	11.0	11.5	8.5	6.5	7.5	3.0	2.0	2.5	.5	.0	.5
31	13.0	11.5	12.5	---	---	---	3.5	3.0	3.5	.5	.0	.5
MONTH	18.5	10.5	13.5	14.5	5.5	10.0	9.0	1.5	5.0	7.0	.0	2.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	5.0	4.5	4.5	11.0	9.5	10.5	13.5	12.5	13.0
2	.5	.0	.5	5.5	5.0	5.0	11.5	10.5	11.0	15.0	13.0	14.0
3	.5	.0	.5	5.5	4.5	5.0	12.0	11.0	11.5	15.5	14.0	15.0
4	.5	.5	.5	5.5	4.5	5.0	12.5	11.5	12.0	16.5	14.5	15.5
5	1.0	.5	.5	6.5	5.0	5.5	12.0	10.0	11.0	18.0	16.0	17.0
6	1.5	1.0	1.0	6.5	5.5	6.0	11.0	9.5	10.0	19.5	17.5	18.5
7	2.0	1.0	1.5	7.5	5.5	6.5	12.0	10.5	11.5	21.0	19.0	20.0
8	2.0	1.0	1.5	9.0	7.0	8.0	14.0	11.0	12.5	22.0	20.0	21.0
9	2.0	1.0	1.5	9.0	8.0	8.5	14.0	9.5	11.5	22.5	21.0	22.0
10	2.5	1.0	2.0	9.5	8.5	9.0	10.5	9.0	9.5	22.5	19.0	21.0
11	3.5	2.0	3.0	9.5	7.5	8.5	10.0	9.0	9.5	19.5	18.5	19.0
12	3.5	2.5	3.0	7.5	7.0	7.5	10.5	8.5	9.5	19.5	18.5	19.0
13	2.5	1.5	2.0	7.0	5.5	6.5	10.5	9.0	10.0	19.0	18.0	19.0
14	2.5	1.5	2.0	7.0	6.0	6.5	11.5	9.5	10.5	19.5	18.0	18.5
15	2.5	1.5	2.0	8.0	6.5	7.0	11.5	10.5	11.0	19.0	17.5	18.0
16	1.5	1.0	1.5	8.5	7.5	8.0	13.5	11.5	12.5	18.0	16.5	17.5
17	1.5	1.0	1.0	8.5	6.5	7.5	13.5	11.5	12.5	18.5	17.0	18.0
18	1.0	.5	.5	6.5	5.0	6.0	12.0	10.0	10.5	18.5	17.5	18.0
19	1.0	.5	.5	6.5	5.5	6.0	11.0	9.5	10.0	18.5	17.0	18.0
20	1.5	1.0	1.0	7.0	6.0	6.5	12.5	11.0	11.5	17.0	14.5	16.0
21	2.5	1.5	2.0	7.0	6.5	7.0	12.0	10.5	11.5	14.5	14.0	14.0
22	3.0	2.0	2.5	7.0	6.5	6.5	10.5	10.0	10.0	14.0	14.0	14.0
23	4.0	2.5	3.5	8.5	6.5	7.5	10.0	9.5	10.0	14.0	13.5	14.0
24	5.0	3.5	4.0	10.5	8.5	9.5	12.0	9.0	10.5	16.0	14.0	15.0
25	5.0	4.5	5.0	11.0	9.5	10.5	12.0	11.0	11.5	17.5	16.0	16.5
26	4.5	4.0	4.5	12.0	10.5	11.0	12.0	11.0	11.5	18.5	17.0	17.5
27	4.5	4.0	4.5	11.5	10.5	11.0	11.0	10.0	10.5	18.0	17.5	17.5
28	5.0	4.5	4.5	11.5	11.0	11.0	11.5	10.5	11.0	17.5	17.0	17.5
29	5.0	4.0	4.5	11.0	10.0	10.0	13.0	11.0	12.0	17.5	17.0	17.0
30	---	---	---	10.0	9.0	9.5	14.0	12.5	13.5	17.5	16.5	17.0
31	---	---	---	10.5	9.0	10.0	---	---	---	18.5	16.0	17.0
MONTH	5.0	.0	2.0	12.0	4.5	7.5	14.0	8.5	11.0	22.5	12.5	17.5

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	17.5	18.5	24.5	22.5	23.5	21.5	21.0	21.0	24.5	23.0	23.5
2	22.0	19.0	20.5	25.0	23.5	24.0	22.5	21.0	22.0	24.5	24.0	24.5
3	22.5	21.5	22.0	24.5	23.5	24.0	23.5	22.5	23.0	25.0	24.0	24.5
4	22.5	21.5	22.0	25.0	23.5	24.0	23.5	22.5	23.0	25.0	24.0	24.5
5	21.5	19.0	20.0	26.0	24.0	25.0	24.0	22.5	23.0	24.0	22.0	23.0
6	19.0	15.5	17.5	25.5	24.0	25.0	23.0	22.0	22.5	22.0	20.0	21.0
7	16.5	15.5	16.0	25.0	23.5	24.0	23.5	21.5	22.5	20.5	19.5	20.0
8	17.5	16.0	16.5	24.5	23.0	23.5	25.0	23.0	24.0	20.5	19.0	19.5
9	19.5	17.5	18.0	24.0	22.5	23.5	25.5	24.0	25.0	21.5	19.5	20.5
10	21.0	19.5	20.0	24.5	23.0	24.0	25.5	24.5	25.0	22.0	20.5	21.5
11	23.0	21.0	22.0	25.5	23.5	24.5	25.5	24.5	25.0	23.0	21.0	22.0
12	22.5	20.5	21.5	26.0	23.5	25.0	24.5	22.0	23.0	23.0	21.5	22.5
13	20.5	19.0	19.5	25.5	23.5	24.5	22.0	20.0	20.5	23.5	22.5	23.0
14	19.0	18.0	18.5	24.5	24.0	24.5	20.5	20.0	20.0	23.0	22.0	22.5
15	18.0	17.5	18.0	24.0	21.0	22.5	20.5	20.0	20.0	22.0	21.5	22.0
16	20.0	18.0	19.0	22.0	21.5	22.0	21.5	20.0	20.5	21.5	19.5	20.5
17	22.5	20.0	21.5	23.0	21.5	22.0	21.0	20.5	20.5	19.5	18.5	19.0
18	22.5	21.0	21.5	24.0	22.5	23.0	20.5	19.5	20.0	19.0	18.5	18.5
19	21.0	20.0	20.5	24.0	22.0	23.0	20.0	19.0	19.5	19.5	18.5	19.0
20	22.0	19.5	20.5	22.5	21.0	22.0	19.5	19.0	19.5	21.0	19.0	20.0
21	22.5	21.0	22.0	23.0	21.5	22.5	19.5	18.5	19.0	21.0	20.0	20.5
22	23.0	21.0	22.0	23.5	22.5	23.0	20.0	18.5	19.0	20.5	19.5	20.0
23	24.0	22.0	23.0	23.5	22.0	23.0	20.0	19.0	19.5	19.5	18.5	19.0
24	24.0	23.0	23.5	23.5	22.5	23.0	20.5	19.5	20.0	19.0	18.5	18.5
25	24.5	23.0	24.0	23.0	22.5	22.5	22.0	20.0	21.0	18.5	17.5	18.0
26	26.0	24.5	25.0	22.5	21.5	22.0	22.0	21.0	21.5	17.5	16.0	17.0
27	26.0	25.0	26.0	21.5	20.5	21.0	22.0	21.5	22.0	16.0	15.5	15.5
28	26.0	24.5	25.0	21.5	20.5	21.0	22.5	22.0	22.5	16.0	15.5	15.5
29	25.0	24.0	24.5	21.5	21.0	21.5	23.0	22.5	23.0	16.0	15.0	15.0
30	24.0	23.5	24.0	21.5	20.5	21.0	23.0	22.0	22.5	15.5	14.5	15.0
31	---	---	---	21.5	21.0	21.0	23.5	22.5	23.0	---	---	---
MONTH	26.0	15.5	21.0	26.0	20.5	23.0	25.5	18.5	21.5	25.0	14.5	20.0
YEAR	26.0	.0	13.0									

TEMPERATURE, WATER (DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	18.0	18.5	14.0	13.0	13.5	6.5	5.0	5.5	3.5	3.5	3.5
2	18.0	17.0	17.5	14.5	13.5	14.0	5.0	4.0	4.5	4.5	3.5	4.0
3	17.5	17.0	17.5	14.5	14.0	14.0	5.0	4.0	4.5	5.5	4.5	5.0
4	17.5	17.0	17.5	14.0	11.5	12.5	6.5	5.0	5.5	7.5	5.5	7.0
5	17.0	15.5	16.5	11.5	10.0	10.5	8.0	6.5	7.0	8.0	7.0	7.5
6	15.5	14.5	14.5	11.0	10.0	10.5	8.5	8.0	8.0	7.0	4.5	5.5
7	14.5	13.0	13.5	11.0	10.5	10.5	9.0	8.5	8.5	4.5	4.0	4.0
8	13.0	12.5	13.0	10.5	9.0	9.5	8.5	7.5	7.5	4.5	3.5	4.0
9	13.5	12.5	13.0	9.5	8.5	9.0	7.5	6.5	6.5	4.5	3.5	4.0
10	15.0	13.5	14.0	10.5	9.0	9.5	6.5	6.0	6.5	5.0	4.5	4.5
11	16.5	15.0	16.0	11.0	10.5	11.0	6.5	6.0	6.0	6.0	5.0	5.5
12	16.5	15.5	16.0	10.5	9.5	10.0	6.0	5.0	5.5	5.5	4.5	5.0
13	---	---	---	10.0	9.0	9.5	5.0	4.5	5.0	4.5	3.5	4.0
14	---	---	---	9.5	9.0	9.0	5.5	5.0	5.0	3.5	1.0	2.5
15	---	---	---	9.0	8.0	8.5	6.0	5.5	6.0	1.0	.5	1.0
16	13.5	13.0	13.5	8.0	7.0	7.5	6.5	6.0	6.5	1.5	.5	1.0
17	14.0	13.0	13.5	7.0	6.0	6.5	6.5	5.5	6.0	1.5	.0	.5
18	15.0	13.5	14.5	6.0	5.5	6.0	5.5	5.0	5.0	.5	.0	.5
19	14.5	14.0	14.5	6.5	5.5	6.0	5.0	4.5	5.0	.5	.0	.5
20	14.0	13.0	13.5	8.0	6.0	7.0	4.5	4.0	4.5	.5	.0	.0
21	13.0	12.5	12.5	9.5	8.0	9.0	5.5	4.5	5.0	.5	.0	.0
22	12.5	12.0	12.0	11.0	9.5	10.5	5.5	5.0	5.5	.0	.0	.0
23	12.5	12.0	12.0	12.0	11.0	12.0	5.0	4.0	4.5	.5	.0	.0
24	12.5	11.5	12.0	13.0	12.0	13.0	4.0	3.0	3.5	.5	.0	.5
25	12.0	11.0	11.0	13.5	13.0	13.5	3.0	2.0	2.5	.5	.0	.0
26	11.5	10.5	11.0	13.0	13.0	13.0	2.0	1.5	1.5	.5	.0	.0
27	11.5	11.0	11.0	13.0	12.5	13.0	2.0	1.5	2.0	.5	.0	.0
28	11.5	11.0	11.0	13.0	10.5	11.5	2.0	1.5	2.0	.5	.0	.0
29	11.0	11.0	11.0	10.5	8.5	9.5	2.0	1.5	2.0	.5	.0	.0
30	11.5	11.0	11.5	8.5	6.5	7.5	2.5	2.0	2.0	.5	.0	.0
31	13.0	11.5	12.5	---	---	---	3.5	2.5	3.0	.5	.0	.0
MONTH	19.5	10.5	13.5	14.5	5.5	10.0	9.0	1.5	5.0	8.0	.0	2.5

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	5.5	4.5	5.0	11.5	10.0	10.5	15.0	13.0	14.0
2	.5	.0	.0	5.5	5.0	5.0	12.0	10.5	11.5	16.0	13.5	14.5
3	.5	.0	.0	5.5	5.0	5.0	13.0	11.5	12.0	16.5	14.5	15.5
4	.5	.0	.5	6.0	4.5	5.0	13.5	12.5	13.0	17.5	15.0	16.0
5	.5	.5	.5	6.5	5.0	6.0	13.5	11.5	12.5	18.5	16.5	17.5
6	1.0	.5	1.0	7.5	5.5	6.5	11.5	10.0	11.0	20.0	18.5	19.0
7	1.5	1.0	1.5	8.0	6.0	7.0	12.5	10.5	11.5	21.5	20.0	20.5
8	2.0	1.0	1.5	9.5	7.0	8.0	14.5	11.5	13.0	22.5	21.5	22.0
9	2.0	1.0	1.5	10.0	8.5	9.0	14.0	12.0	13.0	24.0	22.5	23.5
10	---	---	---	11.5	10.0	11.0	12.0	10.0	10.5	24.0	21.5	23.0
11	---	---	---	11.5	10.0	11.0	10.5	9.5	9.5	21.5	20.0	20.5
12	3.5	2.5	3.0	10.0	7.5	8.5	10.5	9.0	9.5	20.0	18.5	19.0
13	2.5	1.5	2.0	7.5	6.5	7.0	11.5	9.5	10.5	19.0	18.5	19.0
14	2.5	1.5	2.0	7.0	6.0	6.5	12.0	9.5	11.0	19.5	18.5	19.0
15	2.5	1.5	2.0	8.0	6.5	7.5	12.5	11.0	11.5	19.5	18.5	18.5
16	1.5	1.0	1.5	9.0	7.5	8.5	14.0	12.0	12.5	18.5	17.5	18.0
17	1.5	1.0	1.0	9.0	8.0	8.5	14.0	13.0	13.5	18.5	17.5	18.0
18	1.0	.5	1.0	8.0	6.0	7.0	13.0	10.5	11.5	19.0	18.5	18.5
19	1.0	.5	.5	6.5	5.5	6.0	11.0	9.5	10.5	19.0	17.5	18.5
20	1.5	1.0	1.0	7.0	6.0	6.5	12.5	10.5	11.5	17.5	14.5	16.0
21	2.5	1.5	2.0	7.0	6.5	7.0	---	---	---	14.5	14.0	14.0
22	3.0	2.0	2.5	7.0	6.5	7.0	---	---	---	14.0	13.5	14.0
23	4.0	2.5	3.5	8.5	7.0	7.5	---	---	---	14.0	13.5	14.0
24	5.0	3.5	4.0	10.5	8.0	9.5	---	---	---	16.0	14.0	15.0
25	5.0	4.5	5.0	11.5	9.5	10.5	---	---	---	17.5	16.0	16.5
26	5.0	4.5	5.0	12.5	10.5	11.5	---	---	---	18.5	17.0	17.5
27	5.0	4.5	4.5	12.0	11.0	11.5	11.5	10.5	11.0	18.0	17.5	17.5
28	5.5	5.0	5.5	12.0	11.0	11.5	11.5	10.5	11.0	17.5	17.0	17.5
29	5.5	5.0	5.5	11.5	10.5	11.0	13.5	11.0	12.0	17.5	17.0	17.0
30	---	---	---	10.5	10.0	10.0	15.0	12.5	14.0	17.5	16.5	17.0
31	---	---	---	11.0	9.5	10.0	---	---	---	18.5	16.0	17.0
MONTH	5.5	.0	2.0	12.5	4.5	8.0	15.0	9.0	11.5	24.0	13.0	17.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	17.5	18.5	24.5	23.5	24.0	22.0	21.5	21.5	24.0	23.0	23.5
2	22.0	20.0	20.5	25.5	23.5	24.5	22.5	21.5	22.0	24.5	24.0	24.5
3	22.5	21.5	22.0	25.5	24.0	24.5	23.5	22.5	23.0	25.0	24.0	24.5
4	22.5	21.5	22.0	25.5	24.0	25.0	24.0	23.0	23.5	25.0	24.0	24.5
5	21.5	19.5	20.5	26.5	24.5	25.5	24.0	22.5	23.5	24.0	22.0	23.0
6	19.5	16.5	18.5	26.5	24.5	25.5	23.5	22.0	22.5	22.0	20.0	21.0
7	16.5	15.5	16.0	25.5	24.0	24.5	23.5	21.5	22.5	20.5	19.5	20.0
8	17.5	16.0	16.5	25.0	23.0	24.0	25.5	23.0	24.0	20.0	19.0	19.5
9	20.0	17.5	18.5	24.5	22.5	23.5	26.0	24.5	25.5	21.0	19.0	20.0
10	22.0	19.5	20.5	25.0	23.0	24.0	26.0	25.0	25.5	22.0	20.5	21.0
11	24.5	21.5	23.0	26.0	23.5	24.5	26.0	24.5	25.5	23.0	21.0	22.0
12	24.5	22.0	23.5	26.5	24.0	25.0	25.0	22.0	23.5	23.0	22.0	22.5
13	22.0	19.0	20.5	26.0	24.0	25.0	22.0	19.5	20.0	24.0	22.5	23.0
14	19.0	18.0	18.5	25.0	24.0	24.5	20.5	19.5	20.0	23.0	22.0	22.5
15	18.0	17.5	17.5	24.0	22.0	23.0	20.5	20.0	20.0	22.5	21.5	22.0
16	20.0	18.0	19.0	22.0	21.0	21.5	21.5	20.5	20.5	21.5	19.5	20.5
17	22.5	20.0	21.5	23.0	21.0	22.0	21.0	20.5	20.5	19.5	18.5	19.0
18	22.5	22.0	22.0	24.5	22.0	23.0	20.5	19.5	20.0	18.5	18.0	18.5
19	22.0	21.0	21.5	24.0	22.5	23.0	20.0	19.0	19.5	19.0	18.0	18.5
20	22.0	20.5	21.5	22.5	21.5	22.0	19.5	19.0	19.5	20.0	18.5	19.5
21	23.0	21.5	22.0	22.5	22.0	22.5	19.5	18.5	19.0	20.5	19.5	20.0
22	23.5	22.5	23.0	24.0	22.5	23.5	20.0	18.5	19.0	20.5	19.5	20.0
23	24.5	22.5	23.5	24.0	23.0	23.5	20.0	19.0	19.5	19.5	18.0	19.0
24	24.5	23.0	23.5	23.5	23.0	23.5	20.5	19.5	20.0	19.0	18.0	18.5
25	25.0	23.0	24.0	23.5	22.5	23.0	22.0	20.0	21.0	18.5	17.5	18.0
26	26.0	25.0	25.5	22.5	22.0	22.5	22.0	21.0	21.5	17.5	16.5	17.0
27	26.5	26.0	26.0	22.0	20.5	21.0	22.0	21.5	22.0	16.5	15.5	15.5
28	26.0	25.0	25.5	21.0	20.0	20.5	22.5	22.0	22.5	15.5	14.5	15.0
29	25.0	24.0	24.5	21.5	21.0	21.0	23.0	22.5	23.0	15.5	14.5	15.0
30	24.5	24.0	24.0	21.5	21.0	21.0	23.0	22.0	22.5	15.5	14.0	14.5
31	---	---	---	21.5	21.0	21.5	23.5	22.5	23.0	---	---	---
MONTH	26.5	15.5	21.5	26.5	20.0	23.5	26.0	18.5	22.0	25.0	14.0	20.0
YEAR	26.5	.0	13.0									

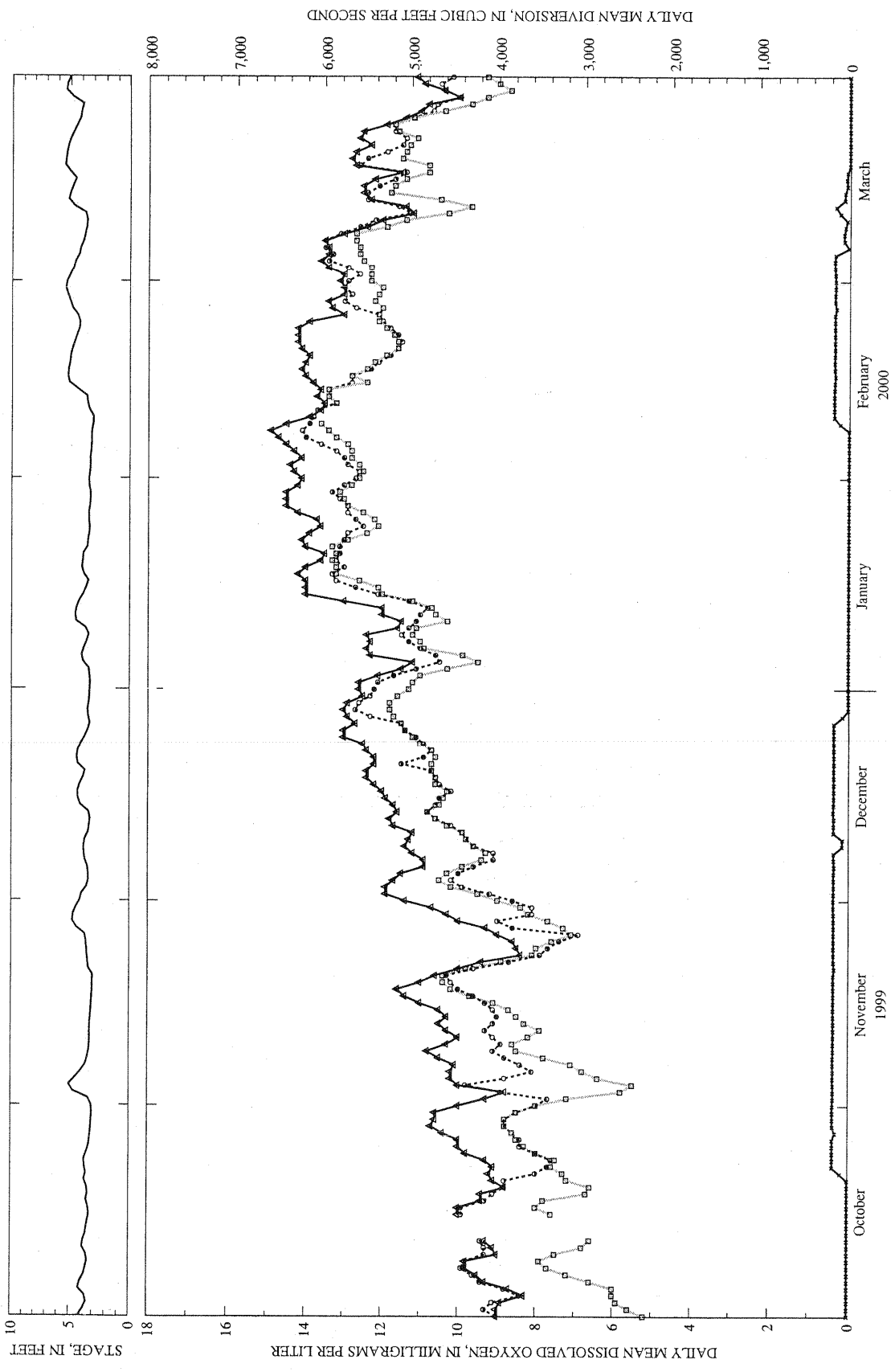


Figure 28a. Daily mean dissolved oxygen, stage, and daily diversion at Passaic River below Pompton River at Two Bridges.

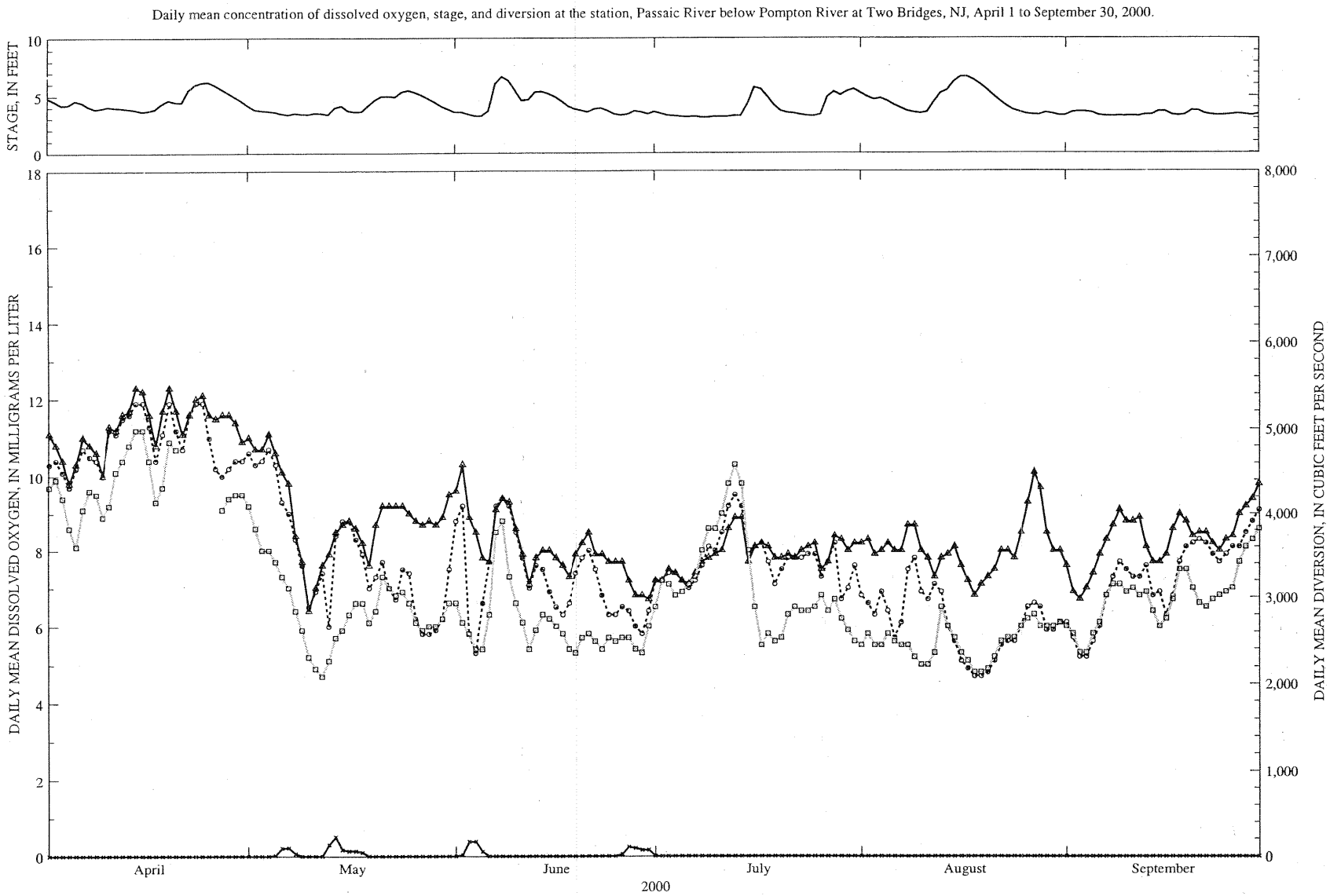


Figure 28b. Daily mean dissolved oxygen, stage, and daily diversion at Passaic River below Pompton River at Two Bridges.

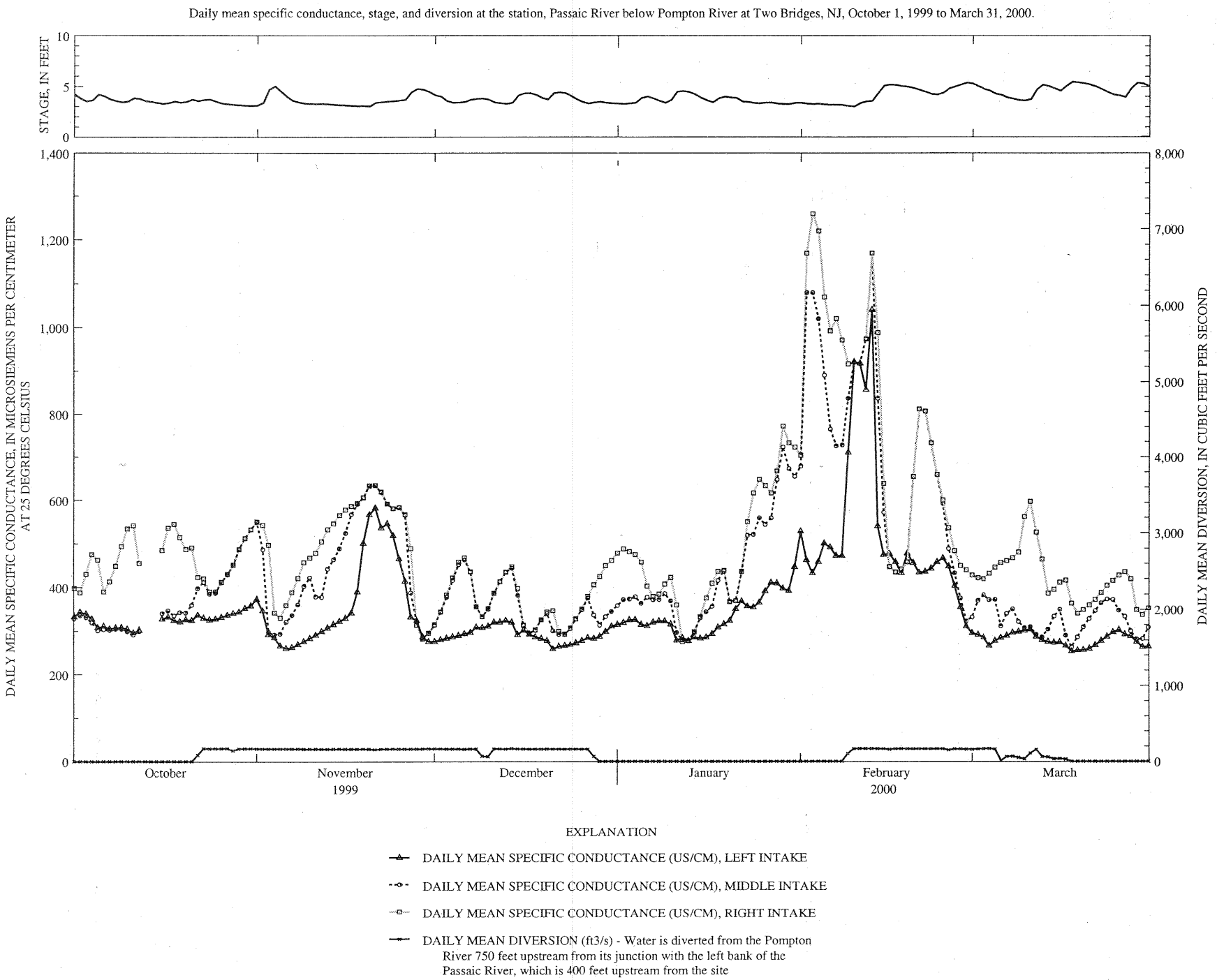


Figure 29a. Daily mean specific conductance, stage, and daily diversion at Passaic River below Pompton River at Two Bridges.

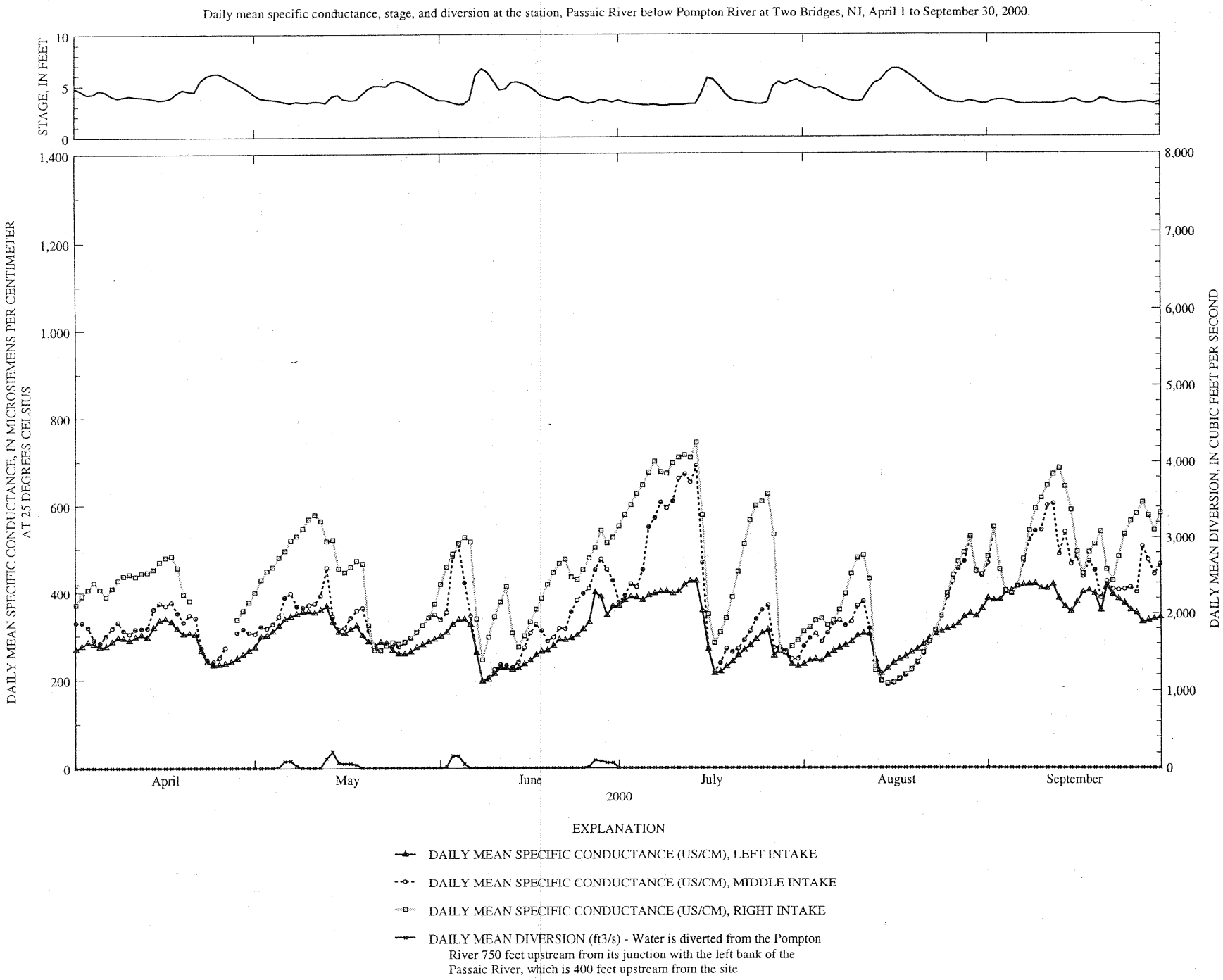


Figure 29b. Daily mean specific conductance, stage, and daily diversion at Passaic River below Pompton River at Two Bridges.

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance, water temperature, and dissolved oxygen concentration measurements from the water-quality monitor at the station, Passaic River below Pompton River at Two Bridges, NJ.

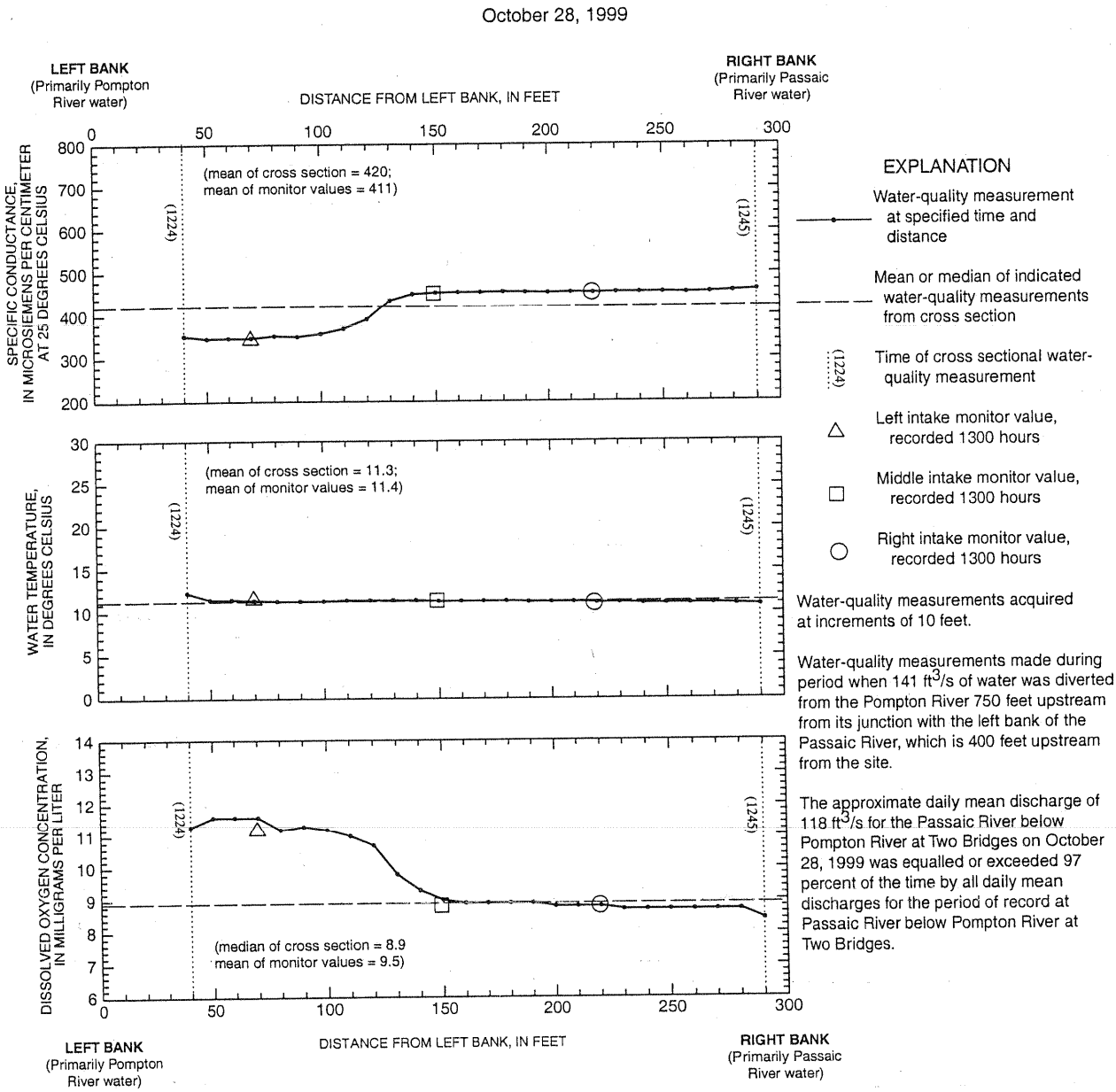


Figure 30. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, October 28, 1999.

Cross section of specific conductance, water temperature, and dissolved oxygen concentration measurements (distance from left bank looking downstream); and recorded hourly specific conductance, water temperature, and dissolved oxygen concentration measurements from the water-quality monitor at the station, Passaic River below Pompton River at Two Bridges, NJ.

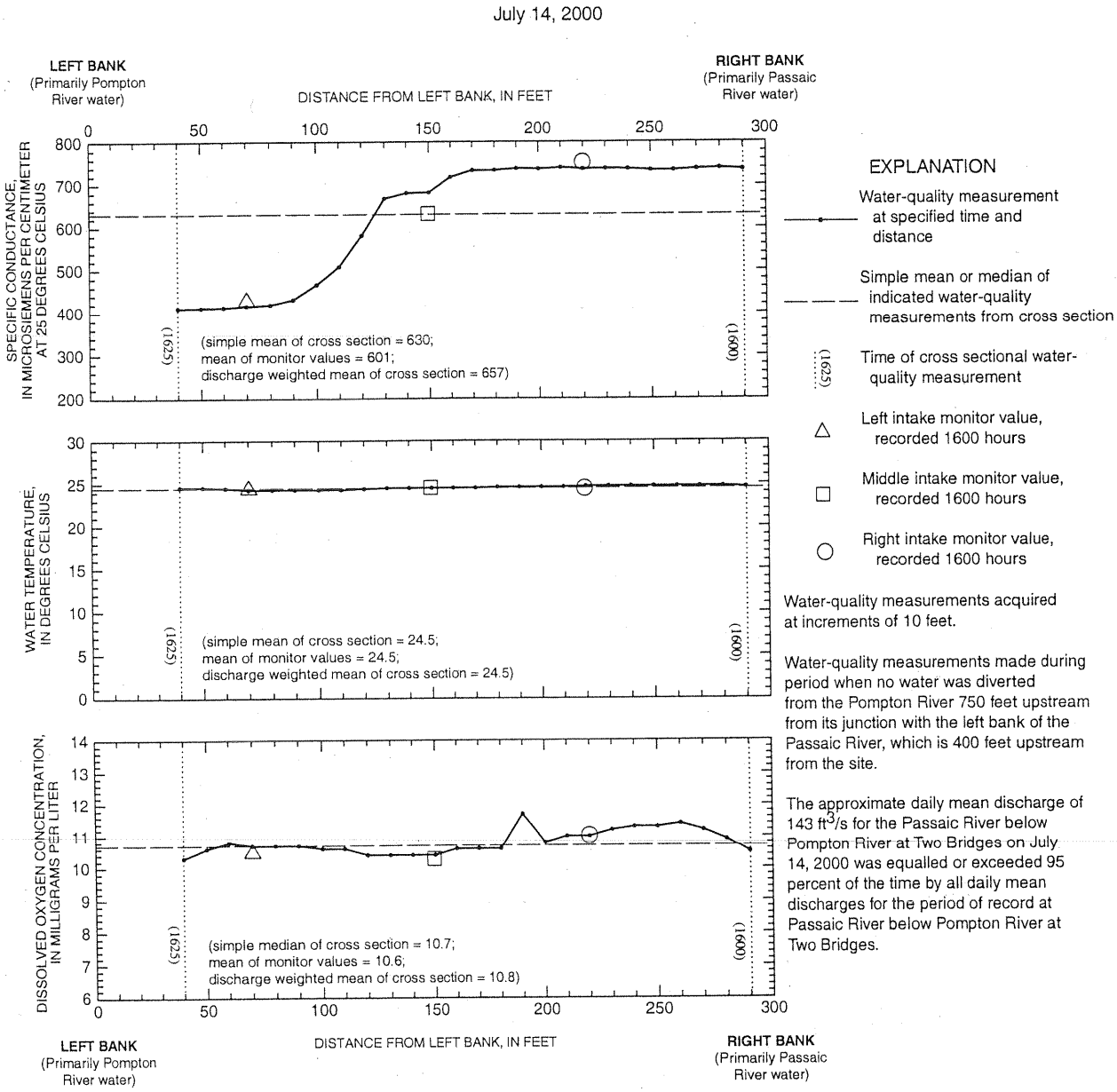


Figure 31. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, July 14, 2000.

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, Hydrologic Unit 02030103, on left bank 0.6 mi downstream from Beatties Dam in Little Falls, and 1.0 mi upstream from Peckman River.

DRAINAGE AREA.--762 mi^2.

PERIOD OF RECORD.--Water years 1963-96, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1980 to November 1986.
WATER TEMPERATURE: Water years 1963 to 1980 (once daily), September 1980 to November 1986.
DISSOLVED OXYGEN: October 1970 to September 1980 (once daily).
SUSPENDED-SEDIMENT DISCHARGE: August 1963 to July 1965.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 04...	1000	1440	762	123	13.3	7.8	318	12.0	.208	.165
FEB 2000 16...	0800	1600	763	--	--	7.8	508	1.5	.120	.093
MAY 02...	1000	932	756	93	9.5	7.6	352	14.0	.153	.116
AUG 10...	1000	613	760	80	6.6	7.4	387	25.0	.270	.206

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999 04...	84	22.3	6.93	2.5	28.1	54	48.3	<.1	9.2	20.1
FEB 2000 16...	88	23.6	7.12	2.3	58.7	44	113	<.1	8.2	17.5
MAY 02...	91	24.0	7.67	1.9	33.0	55	61.0	.1	8.3	19.7
AUG 10...	99	25.9	8.24	2.8	32.4	67	57.1	.1	12.7	20.6

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 04...	.34	.78	<.03	<.030	2.1	1.7	1.35	.007	.180	.297
FEB 2000 16...	.39	.46	.12	.100	1.9	1.8	1.41	.019	.098	.160
MAY 02...	.33	.46	.08	.070	1.5	1.4	1.07	.009	.130	.135
AUG 10...	.52	.78	<.03	<.030	2.4	2.2	1.65	.015	.221	.398

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999 04...	6.0	1.0	E2.0	22	189	176	68	--	--
FEB 2000 16...	4.0	.4	E1.5	12	286	264	44	--	--
MAY 02...	5.0	.4	E1.2	--	207	194	60	18	7
AUG 10...	7.1	1.1	<1.2	--	239	207	92	28	17

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1146	1700	2300	380
JUL 2000				
10...	1125	170	0	30
17...	1106	2400	1500	400

E Estimated value.
< Actual value is known to be less than the value shown.

01389860 DIAMOND BROOK AT FAIR LAWN, NJ

LOCATION.--Lat 40°56'52", long 74°08'31", Bergen County, Hydrologic Unit 02030103, in Columbia Terrace Park in Fair Lawn, 0.3 mi southwest of intersection of State Highway 208 and Maple Avenue, and 0.5 mi upstream of mouth.

DRAINAGE AREA.--3.04 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999 16...	1000	755	90	10.9	8.0	595	6.5	.054	.042	220
FEB 2000 02...	1000	763	80	11.0	8.1	756	2.0	.040	.030	210
MAY 18...	1000	764	83	8.6	7.8	593	14.0	.051	.035	200
AUG 01...	1030	764	85	8.0	7.3	266	18.5	.148	.112	78

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999 16...	65.4	14.5	1.9	36.1	151	80.2	<.1	17.5	26.2
FEB 2000 02...	61.1	13.5	2.2	69.0	141	134	.1	17.5	27.2
MAY 18...	58.5	13.3	1.9	34.3	138	82.7	<.1	16.3	24.4
AUG 01...	23.0	5.05	2.0	15.5	59	30.8	<.1	7.8	11.1

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999 16...	.17	.26	.03	.040	2.6	2.5	2.32	.005	.019
FEB 2000 02...	.14	.12	<.03	<.030	3.1	3.1	2.94	.008	.012
MAY 18...	.30	.39	.03	.040	2.9	2.8	2.54	.027	.038
AUG 01...	.45	.58	.06	.040	1.9	1.7	1.29	.015	.060

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999 16...	.030	2.2	.3	E1.0	<1	342	343	37	--
FEB 2000 02...	.021	1.7	<.2	<1.0	<1	418	422	33	--
MAY 18...	.056	2.4	.4	E1.7	--	345	325	30	4
AUG 01...	.109	4.7	.9	E2.8	--	156	136	20	12

E Estimated value.
< Actual value is known to be less than the value shown.

01389860 DIAMOND BROOK AT FAIR LAWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 01...	1030	<3	72.4	<1	20	<1.0	11	6

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 01...	520	7	45	<.3	2	<1	<1	<20

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 02...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 02...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 02...	<.10	E.1	<.2	<.20	<.10	<.10	.2	<.10	<.10	<.20	<.20

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 18...	1000	<.002	<.002	.009	.005	<.002	E.005	<.003	.004	<.004	<.002	E.005

E Estimated value.
< Actual value is known to be less than the value shown.

01389860 DIAMOND BROOK AT FAIR LAWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 18...	.004	.019	<.002	<.003	<.004	<.002	<.005	<.010	.006	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 18...	<.006	.028	E.009	<.003	<.007	<.004	.008	E.007	<.007	<.001	.007

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000 29...	1212	2400	500	750
JUL 06...	1151	2200	500	540
JUL 2000 13...	1141	490	200	240
20...	1208	490	600	460
27...	1151	>24000	31000	6000

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01390445 WEST BRANCH SADDLE RIVER AT UPPER SADDLE RIVER, NJ

LOCATION.--Lat 41°04'24", long 74°05'55", Bergen County, Hydrologic Unit 02030103, at bridge on Old Stone Church Road, 390 ft east of intersection of West Saddle River Road and Old Stone Church Road, and 0.3 mi downstream from Anona Lake in Upper Saddle River.

DRAINAGE AREA.--3.12 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
04...	0800	757	87	10.1	7.8	381	8.5	.178	.138	130
FEB 2000										
02...	0800	752	88	12.4	8.6	1620	.5	.036	.027	270
MAY										
18...	0800	757	80	8.1	7.7	478	14.5	.082	.057	170
AUG										
07...	0930	755	100	9.1	8.0	461	19.5	.105	.078	160

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999									
04...	36.2	10.6	1.8	20.5	101	41.1	<.1	11.3	17.2
FEB 2000									
02...	74.1	21.7	1.7	209	143	410	<.1	13.0	24.6
MAY									
18...	45.7	13.3	1.4	31.6	133	72.7	<.1	13.5	16.0
AUG									
07...	43.8	12.4	1.4	28.1	119	62.0	<.1	12.6	14.4

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
04...	.24	.40	<.03	<.030	1.4	1.2	1.01	<.003	.029
FEB 2000									
02...	.12	.16	<.03	<.030	2.0	1.9	1.82	<.003	.011
MAY									
18...	.23	.29	<.03	<.030	1.6	1.5	1.28	.012	.034
AUG									
07...	.23	.30	<.03	<.030	1.5	1.4	1.18	.004	.044

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
04...	.086	5.5	.3	E1.1	1	216	204	40	--
FEB 2000									
02...	.017	1.5	<.2	<1.0	<1	904	847	39	--
MAY									
18...	.046	3.1	.2	E1.1	--	286	280	41	4
AUG									
07...	.057	3.3	.4	>2.3	--	270	251	36	16

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01390445 WEST BRANCH SADDLE RIVER AT UPPER SADDLE RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 07...	0930	<3	84.3	<1	38	<1.0	<1	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 07...	170	<1	36	<.3	<1	<1	<1	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 02...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 02...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 02...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 18...	0800	<.002	<.002	.016	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.012

E Estimated value.
< Actual value is known to be less than the value shown.

01390445 WEST BRANCH SADDLE RIVER AT UPPER SADDLE RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
18...	.012	<.003	<.002	<.003	<.004	<.002	<.005	<.010	.007	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
18...	<.006	.009	E.008	<.003	<.007	<.004	.011	<.010	<.007	<.001	.005

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000					JUL 2000				
06...	1012	230	200	410	20...	1009	270	<100	80
13...	1000	20	<100	100	27...	1004	9200	2500	4100

E Estimated value.
< Actual value is known to be less than the value shown.

01391500 SADDLE RIVER AT LODI, NJ

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, Hydrologic Unit 02030103, on left bank 560 ft upstream from bridge on Outwater Lane in Lodi and 3.2 mi upstream from mouth. Water-quality samples collected at bridge on Outwater Lane at high flows.

DRAINAGE AREA.--54.6 mi^2.

PERIOD OF RECORD.--Water years 1962 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 17...	0800	58	759	70	8.9	7.9	752	5.0	.108	.085
FEB 2000 15...	0800	228	758	83	11.2	8.1	737	2.5	.150	.116
MAY 17...	0800	70	763	63	6.3	7.7	710	15.5	.122	.092
SEP 13...	0800	139	759	59	5.2	7.5	614	21.5	.161	.125

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 17...	220	60.5	16.4	5.0	55.9	140	106	.2	14.1	31.0
FEB 2000 15...	120	35.2	8.42	2.8	80.2	69	148	<.1	7.1	18.7
MAY 17...	190	51.8	14.0	4.4	55.6	122	113	<.1	12.4	27.9
SEP 13...	160	43.8	11.7	3.7	44.2	102	90.4	E.1	9.1	23.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 17...	1.0	1.2	.57	.600	6.9	6.7	5.66	.178	.875	.915
FEB 2000 15...	.74	1.1	--	.410	3.3	3.0	2.27	.070	.205	.281
MAY 17...	1.1	1.3	.53	.490	6.4	6.3	5.14	.249	.752	.809
SEP 13...	.80	1.1	.27	.270	5.4	5.1	4.31	.284	.612	.745

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 17...	3.9	.4	2.2	3	408	399	114	--	--
FEB 2000 15...	5.3	.6	4.6	22	361	352	47	--	--
MAY 17...	4.5	.5	E1.9	--	410	376	97	1.4	7
SEP 13...	4.7	.6	3.9	--	320	307	E9	8.0	21

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
17...	0800	<.002	<.002	.014	<.002	<.002	E.039	<.010	E.004	<.004	<.002	E.011

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
17...	.024	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
17...	<.006	.012	E.010	<.003	<.007	<.004	.010	<.010	<.007	<.001	E.002

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
29...	1153	490	700	200	13...	1122	2400	1100	140
JUL					20...	1141	790	900	220
06...	1126	5400	700	150	27...	1131	>24000	1100	6600

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

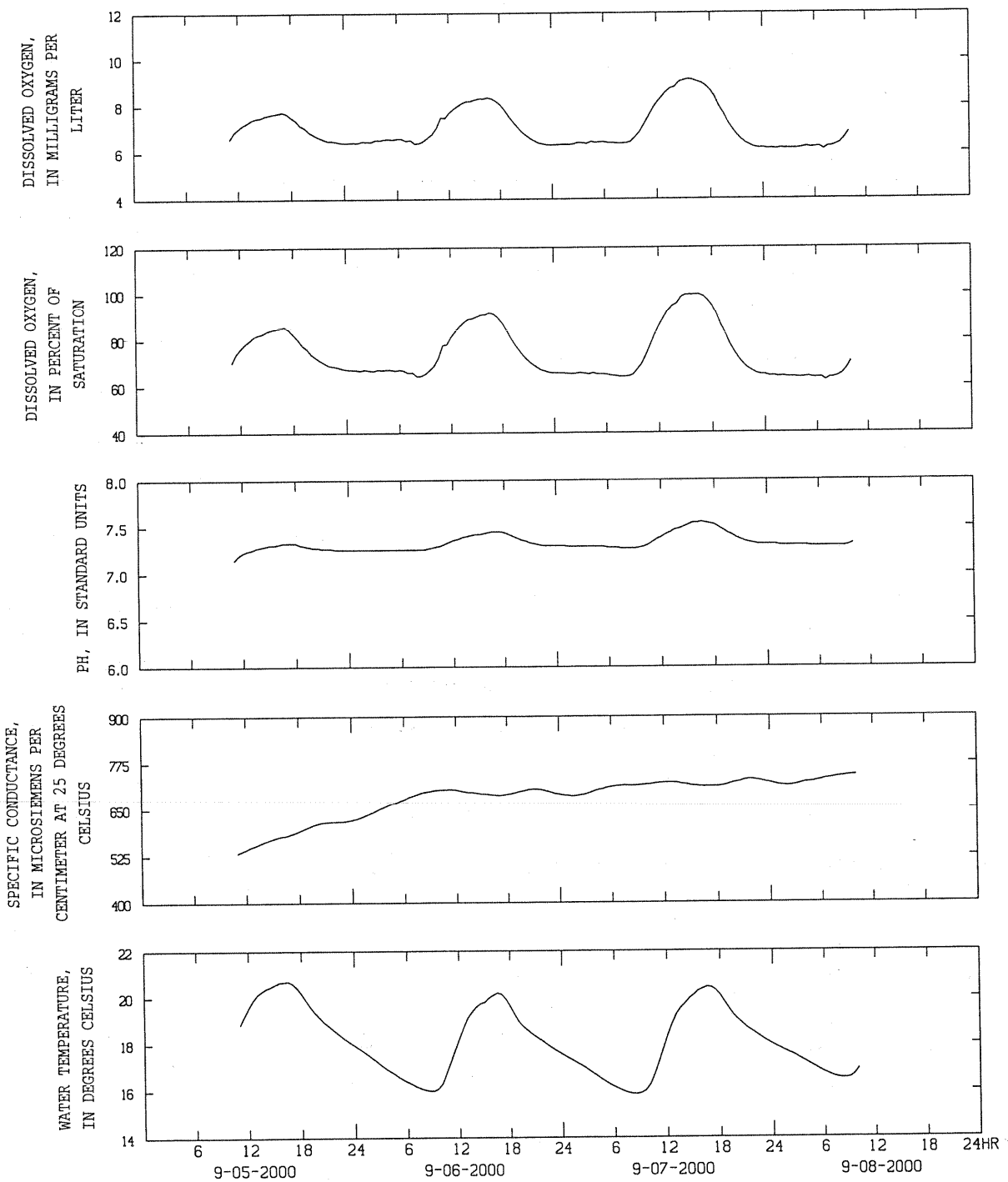


Figure 32. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01391500 Saddle River at Lodi.

01394500 RAHWAY RIVER NEAR SPRINGFIELD

LOCATION.--Lat 40°41'11", long 74°18'44", Union County, Hydrologic Unit 02030104, on left bank 50 ft downstream from bridge on eastbound U.S. Highway 22, 100 ft downstream from Pope Brook, and 1.5 mi south of Springfield.

DRAINAGE AREA.--25.5 mi^2.

PERIOD OF RECORD.--Water years 1978 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
04...	1100	17	768	69	7.9	7.5	468	9.5	.165	.128
FEB 2000										
01...	1115	17	759	89	12.4	7.6	4330	1.0	.087	.063
MAY										
04...	1100	18	770	73	7.6	7.5	660	14.0	.073	.055
AUG										
02...	1100	23	762	71	6.4	7.6	516	20.5	.107	.078

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
04...	150	46.1	9.61	2.6	30.0	102	64.9	<.1	16.2	27.1
FEB 2000										
01...	260	78.6	14.3	5.5	755	77	1320	<.1	12.3	28.4
MAY										
04...	190	56.3	12.2	2.3	51.8	101	122	<.1	13.1	30.4
AUG										
02...	150	43.9	9.42	2.1	37.6	96	82.6	<.1	15.8	24.5

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
04...	.32	.54	.03	.040	1.7	1.5	1.15	.011	.036	.086
FEB 2000										
01...	.75	.76	.38	.320	2.2	2.2	1.43	.032	.014	.063
MAY										
04...	.29	.38	.07	.080	1.4	1.3	1.00	.020	.025	.060
AUG										
02...	.38	.67	.14	.210	1.9	1.6	1.19	.020	.045	.110

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
04...	5.1	.5	E1.8	4	277	263	62	--	--
FEB 2000									
01...	E2.7	.5	2.9	3	2300	2260	71	--	--
MAY									
04...	3.0	.5	2.8	--	387	353	70	.89	18
AUG									
02...	3.6	1.0	E1.4	--	312	279	65	.43	7

E Estimated value.
< Actual value is known to be less than the value shown.

01394500 RAHWAY RIVER NEAR SPRINGFIELD--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	1025	2400	1800	410
09...	1051	2800	3200	760
16...	1045	5400	17000	1300
23...	1023	1700	1700	320
30...	1000	3500	1100	1600

01395000 RAHWAY RIVER AT RAHWAY, NJ

LOCATION.--Lat 40°37'05", long 74°17'00", Union County, Hydrologic Unit 02030104, on left bank 100 ft upstream from St. Georges Avenue bridge in Rahway and 0.9 mi upstream from Robinsons Branch.

DRAINAGE AREA.--40.9 mi^2.

PERIOD OF RECORD.--Water years 1923-24, 1952, 1962, 1967-70, 1979 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria for the Environmental samples were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Analyses of the split and concurrent replicate samples were performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1999									
30...	0800	ENVIRONMENTAL	17	769	70	8.5	7.4	372	7.5
MAR 2000									
21...	0900	ENVIRONMENTAL	25	770	90	10.8	8.2	587	8.0
JUN									
20...	0800	ENVIRONMENTAL	17	763	71	6.5	7.7	556	19.5
20...	*0801*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
20...	*0900*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--
AUG									
29...	0730	ENVIRONMENTAL	29	765	68	6.0	7.6	404	21.5

DATE	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999											
30...	.198	.156	120	37.6	7.07	2.4	19.8	92	37.3	<.1	11.4
MAR 2000											
21...	.110	.082	150	45.3	8.62	1.7	45.9	96	92.5	<.1	11.5
JUN											
20...	.102	.080	180	55.4	10.3	1.9	33.7	120	73.8	<.1	16.1
20...	--	--	*100*	*32.0*	*5.90*	*2.6*	*16.0*	*79*	*26.0*	*<.5*	--
20...	--	--	*100*	*32.0*	*5.90*	*2.6*	*16.0*	*78*	*25.0*	*<.5*	--
AUG											
29...	.128	.094	130	39.4	6.94	2.2	22.8	87	48.8	<.1	9.6

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999										
30...	27.5	.36	.49	<.03	<.030	.97	.85	.483	<.003	.065
MAR 2000										
21...	32.5	.25	.39	<.03	<.030	1.5	1.4	1.13	.010	.020
JUN										
20...	35.7	.34	.44	.03	<.030	1.7	1.6	1.25	.026	.064
20...	*24.0*	*.63*	*.78*	*.09*	*.080*	*1.1*	*.92*	*.290*	*<.050*	*.100*
20...	*27.0*	*.62*	*.62*	*.09*	*.090*	*.94*	*.94*	*.320*	*<.050*	*.090*
AUG										
29...	27.1	.43	.72	.16	<.030	1.6	1.3	.875	.011	.052

< Actual value is known to be less than the value shown.

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999										
30...	.107	6.5	.4	2.7	2	220	200	55	--	--
MAR 2000										
21...	.063	3.8	.4	E1.3	4	319	300	54	--	--
JUN										
20...	.113	3.5	.4	<1.0	--	334	304	73	.20	4
20...	*.170*	*9.8*	--	--	*3*	*187*	*155*	*M*	--	--
20...	*.120*	*8.9*	--	--	*3*	*187*	*157*	*M*	--	--
AUG										
29...	.134	4.5	1.2	<1.2	--	236	213	53	.70	9

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
AUG 2000								
29...	0730	E2	72.8	<1	57	<1.0	2	6

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000								
29...	490	6	118	<.3	1	<1	<1	19

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
MAR 2000												
21...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
MAR 2000												
21...	<.20	<.10	<.2	.71	<.10	.18	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 2000											
21...	<.10	1.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
20...	0800	<.002	<.002	.020	<.002	<.002	E.020	<.003	.006	<.004	<.002	E.012

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
20...	.059	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.008	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
20...	<.006	<.004	.031	<.003	<.007	<.004	.024	E.008	<.007	<.001	E.004

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000					AUG 2000				
02...	1100	1100	100	160	16...	1118	--	600	200
09...	1033	1300	2000	1000	23...	1045	310	100	80
					30...	1110	220	200	20

E Estimated value.

< Actual value is known to be less than the value shown.

01396003 ROBINSONS BRANCH AT ST. GEORGES AVENUE AT RAHWAY, NJ

LOCATION.--Lat 40°36'38", long 74°17'11", Union County, Hydrologic Unit 02030104, at bridge on St. Georges Avenue, 0.4 mi south of the intersection of St. Georges Avenue, West Grand Avenue, and Westfield Avenue in Rahway, and 0.7 mi downstream of Milton Lake.

DRAINAGE AREA.--21.7 mi^2.

PERIOD OF RECORD.--December 1999 to September 2000.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria for the Environmental samples were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Analyses of the split and replicate samples were performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
DEC 1999 01...	1000	ENVIRONMENTAL	772	87	11.5	7.6	330	4.0
MAR 2000 21...	1000	ENVIRONMENTAL	774	91	11.1	7.6	355	7.5
JUN 20...	0930	ENVIRONMENTAL	768	71	6.4	7.6	298	20.5
20...	*0930*	*SPLIT REPLICATE*	--	--	--	--	--	--
20...	*0931*	*CONCURRENT REPLICATE*	--	--	--	--	--	--
SEP 06...	1000	ENVIRONMENTAL	776	79	7.5	7.7	240	18.5

DATE	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
DEC 1999 01...	.247	.191	120	37.7	6.98	3.0	13.7	76	23.7	<.1
MAR 2000 21...	.221	.167	86	26.4	4.78	1.9	31.4	54	54.3	<.1
JUN 20...	.255	.195	100	32.3	5.86	2.2	16.2	81	26.5	<.1
20...	--	--	*190*	*56.0*	*11.0*	*2.4*	*34.0*	*117*	*75.0*	*<.5*
20...	--	--	*180*	*55.0*	*11.0*	*2.3*	*33.0*	*117*	*73.0*	*<.5*
SEP 06...	.245	.181	84	26.1	4.53	2.4	11.0	62	17.1	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
DEC 1999 01...	8.0	43.4	.51	.74	.06	.050	1.2	.99	.472	.013
MAR 2000 21...	4.9	26.9	.45	.61	<.03	<.030	1.4	1.3	.816	.014
JUN 20...	2.9	22.7	.56	.63	.07	.070	1.1	1.1	.519	.057
20...	--	*39.0*	*.50*	*E.41*	*E.13*	*.160*	--	*1.3*	*.780*	*.060*
20...	--	*39.0*	*.60*	*E.40*	*E.13*	*.140*	--	*1.4*	*.750*	*.060*
SEP 06...	4.5	16.9	.48	.70	<.03	<.030	1.1	.89	.412	.014

< Actual value is known to be less than the value shown.

01396003 ROBINSONS BRANCH AT ST. GEORGES AVENUE AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999										
01...	.063	.103	7.3	.5	E2.2	2	208	184	66	--
MAR 2000										
21...	.026	.076	6.3	.4	E1.5	8	204	187	51	--
JUN										
20...	.107	.137	7.2	.5	E1.4	--	184	160	72	5
20...	*.060*	*E.110*	*5.4*	*--*	*--*	*7*	*328*	*291*	*M*	*--*
20...	*.060*	*E.090*	*5.8*	*--*	*--*	*5*	*349*	*287*	*M*	*--*
SEP										
06...	.069	.106	7.4	.5	E1.5	--	143	121	67	2

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
SEP 2000											
06...	1000	--	--	--	--	--	--	<3	38.7	<1	57
06...	1000	7.34	91	1.2	220	2.8	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000											
06...	<1.0	<1	3	210	<1	49	<.3	<1	<1	<1	2
06...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
SEP 2000											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	1	.1	9.3	4.3	17	7800	37	410	.03	9.6	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
SEP 2000											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	80	<50	<50	<50	<50	<50	<50	80	250	230	240

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	120	210	270	<50	590	180	<50	<50	<50	<50	<50

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01396003 ROBINSONS BRANCH AT ST. GEORGES AVENUE AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
06...	--	--	--	--	--	--	--	--	--	--
06...	<50	<50	E23	<50	<50	320	<50	<50	460	0

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
MAR 2000												
21...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
MAR 2000												
21...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 2000											
21...	<.10	.3	<.2	<.20	<.10	<.10	.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
20...	0930	<.002	<.002	.043	<.002	<.002	E.009	<.003	.006	<.004	<.002	E.026

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
20...	.122	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.017	<.004	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01396003 ROBINSONS BRANCH AT ST. GEORGES AVENUE AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
20...	<.006	<.004	.045	<.003	<.007	<.004	.011	E.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000					AUG 2000				
02...	1110	490	400	150	16...	1135	130	<100	160
09...	1021	16000	4500	7000	23...	1100	490	1100	90
					30...	1120	2400	1200	1600

E Estimated value.
< Actual value is known to be less than the value shown.

01396550 SPRUCE RUN AT NEWPORT, NJ

LOCATION.--Lat 40°43'29", long 74°54'34", Hunterdon County, Hydrologic Unit 02030105, at bridge on Newport Road, 1.2 mi northwest of Woodglen, and 6.4 mi upstream from Spruce Run Reservoir.

DRAINAGE AREA.--5.67 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 04...	0940	9.3	748	100	11.9	7.4	116	7.0	.150	.117
FEB 2000 17...	0920	18	756	100	14.3	7.2	108	.5	.097	.076
MAY 08...	1150	7.3	742	103	9.0	7.8	127	20.5	.082	.064
AUG 21...	1240	3.1	752	96	9.3	7.9	138	16.0	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999 04...	38	8.64	3.91	1.0	5.7	24	9.2	<.1	16.8	13.9
FEB 2000 17...	31	7.29	3.18	.8	6.6	16	11.5	<.1	13.5	12.2
MAY 08...	41	9.65	4.16	.9	6.8	29	10.1	<.1	12.4	11.9
AUG 21...	47	11.0	4.67	.9	6.6	37	9.5	.1	16.3	10.2

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 04...	.22	.24	<.03	<.030	.52	.50	.286	<.003	E.004	.012
FEB 2000 17...	.19	.24	<.03	<.030	1.1	1.0	.847	<.003	.010	.013
MAY 08...	.13	.19	<.03	<.030	.63	.58	.449	<.003	E.004	.009
AUG 21...	.18	.22	<.03	<.030	.68	.65	.468	<.003	.009	.012

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999 04...	4.6	.2	<1.0	1	84	75	<16	--	--
FEB 2000 17...	3.1	.2	<1.0	<1	70	69	<16	--	--
MAY 08...	2.6	.4	<1.0	--	85	75	<16	.05	3
AUG 21...	--	<.2	<1.0	--	91	84	<16	.02	2

E Estimated value.
< Actual value is known to be less than the value shown.

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000								
21...	1240	<3	16.9	<1	<12	<1.0	E1	1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000								
21...	210	<1	6	<.3	<1	<1	<1	<1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000												
17...	0920	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL WATER UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL WATER UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
17...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
17...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
08...	1150	<.002	<.002	.011	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.024

E Estimated value.
< Actual value is known to be less than the value shown.

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 08...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 08...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	0900	20	<100	30
13...	0835	330	100	150
20...	0900	<20	<100	50
27...	0930	2400	2600	3200
AUG 2000				
03...	0925	60	200	140

< Actual value is known to be less than the value shown.

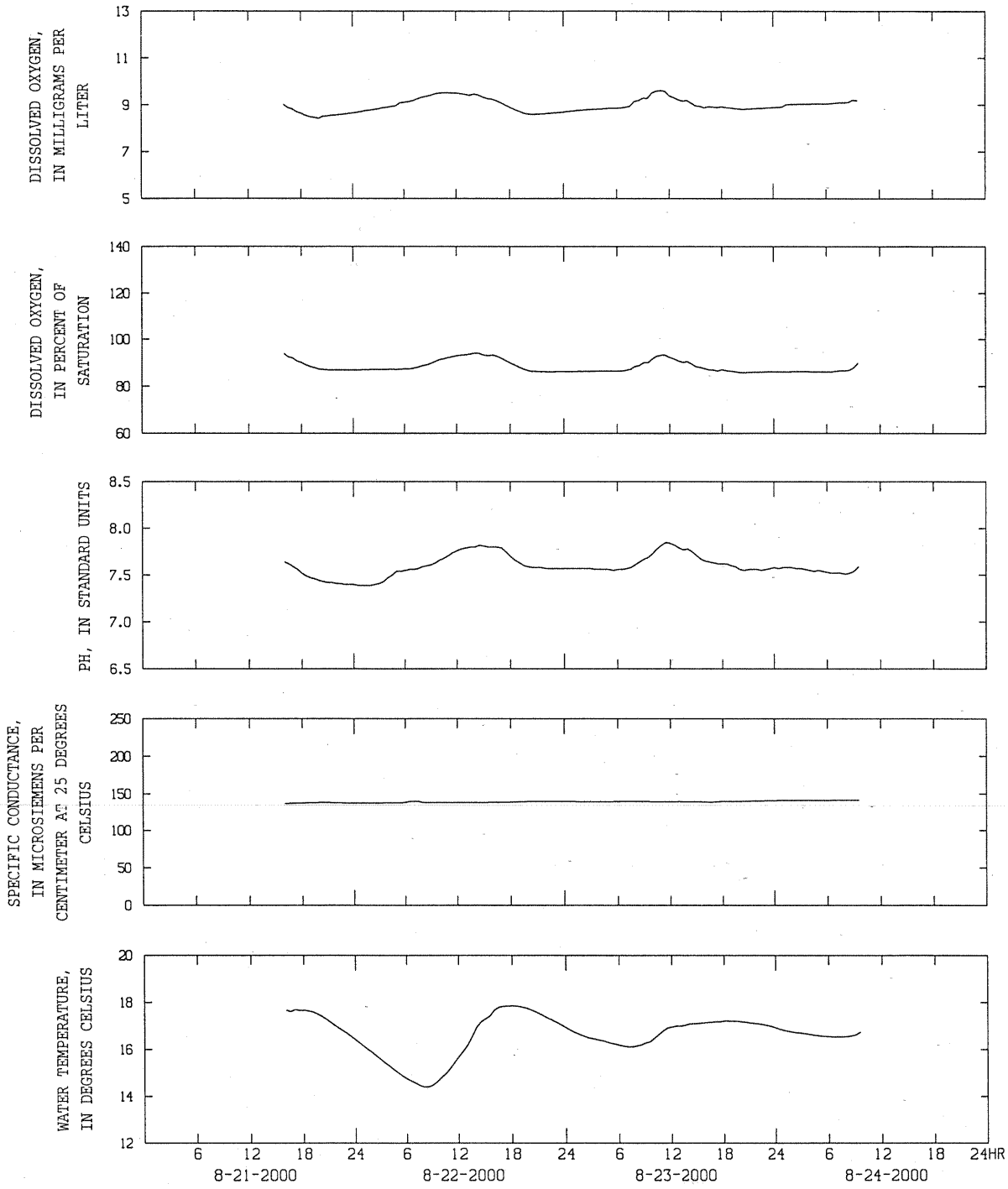


Figure 33. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01396550 Spruce Run at Newport.

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ

LOCATION.--Lat 40°38'51", long 74°58'09", Hunterdon County, Hydrologic Unit 02030105, on left bank downstream side of bridge on Jutland Road, 0.2 mi south of Van Syckel, and 0.3 mi upstream from Spruce Run Reservoir, 0.8 mi north of Perryville.

DRAINAGE AREA.--11.8 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1997 to August 1998.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
DEC 1999										
09...	1100	9.7	766	104	13.4	7.9	220	5.0	.045	.034
FEB 2000										
02...	1030	7.7	757	94	13.1	7.7	315	1.5	.028	.021
MAY										
24...	1030	67	742	97	9.7	7.6	171	14.0	.213	.158
AUG										
24...	1040	7.3	756	94	9.0	7.8	245	17.0	.051	.038

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 1999										
09...	80	20.5	7.03	1.2	9.5	58	18.4	<.1	15.6	16.0
FEB 2000										
02...	87	22.0	7.76	1.2	24.2	55	48.3	<.1	17.4	15.6
MAY										
24...	50	13.1	4.15	1.3	12.4	38	18.7	<.1	10.9	11.1
AUG										
24...	85	21.5	7.56	1.4	11.4	71	21.4	<.1	16.9	12.3

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
DEC 1999										
09...	E.10	E.10	<.03	<.030	--	--	.893	<.003	E.005	.009
FEB 2000										
02...	.10	.14	<.03	<.030	1.4	1.4	1.25	<.003	.008	.009
MAY										
24...	.47	.50	.06	.040	.96	.94	.465	.013	.021	.058
AUG										
24...	.17	.16	<.03	<.030	1.1	1.1	.965	<.003	.020	.022

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999									
09...	1.7	<.2	E1.6	3	127	127	E11	--	--
FEB 2000									
02...	1.2	<.2	2.2	<1	182	175	E14	--	--
MAY									
24...	6.0	.4	3.0	--	113	96	E14	2.6	14
AUG									
24...	1.9	<.2	<1.0	--	142	139	E15	.03	1

E Estimated value.
< Actual value is known to be less than the value shown.

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	0900	330	200	280
13...	0900	20	<100	20
20...	0830	330	400	290
27...	0830	3500	2800	3100
AUG 2000				
03...	0900	1300	1200	600

< Actual value is known to be less than the value shown.

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION.--Lat 40°28'22", long 74°49'40", Hunterdon County, Hydrologic Unit 02030105, on left bank 50 ft downstream from bridge on Everitts Road, 0.6 mi southwest of Reaville, 1.5 mi downstream from Third Neshanic River, and 2.2 mi upstream from Back Brook.

DRAINAGE AREA.--25.7 mi^2.

PERIOD OF RECORD.--Water years 1957, 1962, 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1997 to August 1998.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
17...	1000	7.0	760	109	15.0	8.5	292	2.0	.051	.038
FEB 2000										
17...	1000	92	775	119	17.2	7.6	242	1.0	.098	.076
JUN										
01...	0900	11	761	104	10.1	8.2	270	16.5	.066	.051
AUG										
30...	1000	3.9	767	87	7.9	7.9	317	20.5	.076	.058

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
17...	110	28.4	10.3	1.6	14.0	75	18.7	<.1	9.9	37.4
FEB 2000										
17...	64	16.2	5.71	1.9	17.8	31	34.2	<.1	10.0	18.6
JUN										
01...	95	23.7	8.61	1.8	14.4	64	22.0	<.1	9.4	28.7
AUG										
30...	120	28.9	10.7	2.1	14.7	89	17.3	<.1	6.9	33.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
17...	.15	.25	.06	.030	2.0	1.9	1.74	<.003	<.050	<.050
FEB 2000										
17...	.26	.60	<.03	<.030	2.8	2.5	2.19	<.003	E.039	.163
JUN										
01...	.26	.29	<.03	<.030	1.8	1.8	1.56	.017	E.030	.058
AUG										
30...	.31	.31	.37	<.030	1.3	1.3	1.01	.014	E.034	E.037

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
17...	2.1	<.2	E1.8	1	170	173	42	--	--
FEB 2000									
17...	3.3	.3	E2.0	6	136	133	E12	--	--
JUN									
01...	2.8	.4	E2.1	--	157	154	39	.04	1
AUG									
30...	2.8	.3	<1.0	--	182	172	42	.02	2

E Estimated value.
< Actual value is known to be less than the value shown.

01398000 NESHANIC RIVER AT REAVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	1150	130	300	50
13...	1115	20	<100	40
20...	1115	170	<100	20
27...	1150	70	400	220
AUG 2000				
03...	1050	220	300	80

< Actual value is known to be less than the value shown.

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ

LOCATION.--Lat 40°32'48", long 74°41'48", Somerset County, Hydrologic Unit 02030105, at bridge on Studdiford Drive at South Branch, 0.8 mi upstream from mouth, and 2.7 mi southeast of Readington.

DRAINAGE AREA.--265 mi^2.

PERIOD OF RECORD.--Water years 1976-83, 1998 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	1210	156	765	103	12.5	7.7	296	7.0	.078	.059
FEB 2000										
17...	0910	700	770	97	13.9	7.5	245	1.0	.101	.080
MAY										
10...	1200	122	753	71	6.1	7.8	295	22.5	.079	.062
AUG										
02...	1350	580	759	117	9.8	8.2	277	24.0	.109	.083

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	100	24.9	10.1	2.2	15.8	72	27.3	.1	7.0	24.3
FEB 2000										
17...	63	15.8	5.72	1.8	17.1	35	34.8	<.1	9.4	16.0
MAY										
10...	92	22.0	8.99	2.0	16.2	69	29.6	<.1	7.0	20.2
AUG										
02...	86	20.7	8.30	2.3	15.0	64	26.2	<.1	11.0	17.9

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	.19	.34	<.03	.040	2.1	1.9	1.76	.005	.042	.049
FEB 2000										
17...	.32	.50	.04	<.030	2.6	2.4	2.13	.007	.055	.112
MAY										
10...	.42	.57	.06	.050	1.5	1.4	.954	.038	.060	.076
AUG										
02...	.33	.45	<.03	<.030	1.9	1.8	1.44	.013	.098	.121

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
08...	3.0	.3	E1.7	<1	170	163	33	--	--
FEB 2000									
17...	3.4	.5	E1.6	24	136	131	17	--	--
MAY									
10...	3.3	.4	E1.7	--	169	151	33	1.7	5
AUG									
02...	3.6	.3	<1.4	--	159	146	39	17	11

E Estimated value.
< Actual value is known to be less than the value shown.

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1045	110	100	30
JUL				
03...	0945	790	<100	40
JUL 2000				
10...	0945	170	0	50
17...	1000	1100	2100	520
24...	1013	80	100	80

< Actual value is known to be less than the value shown.

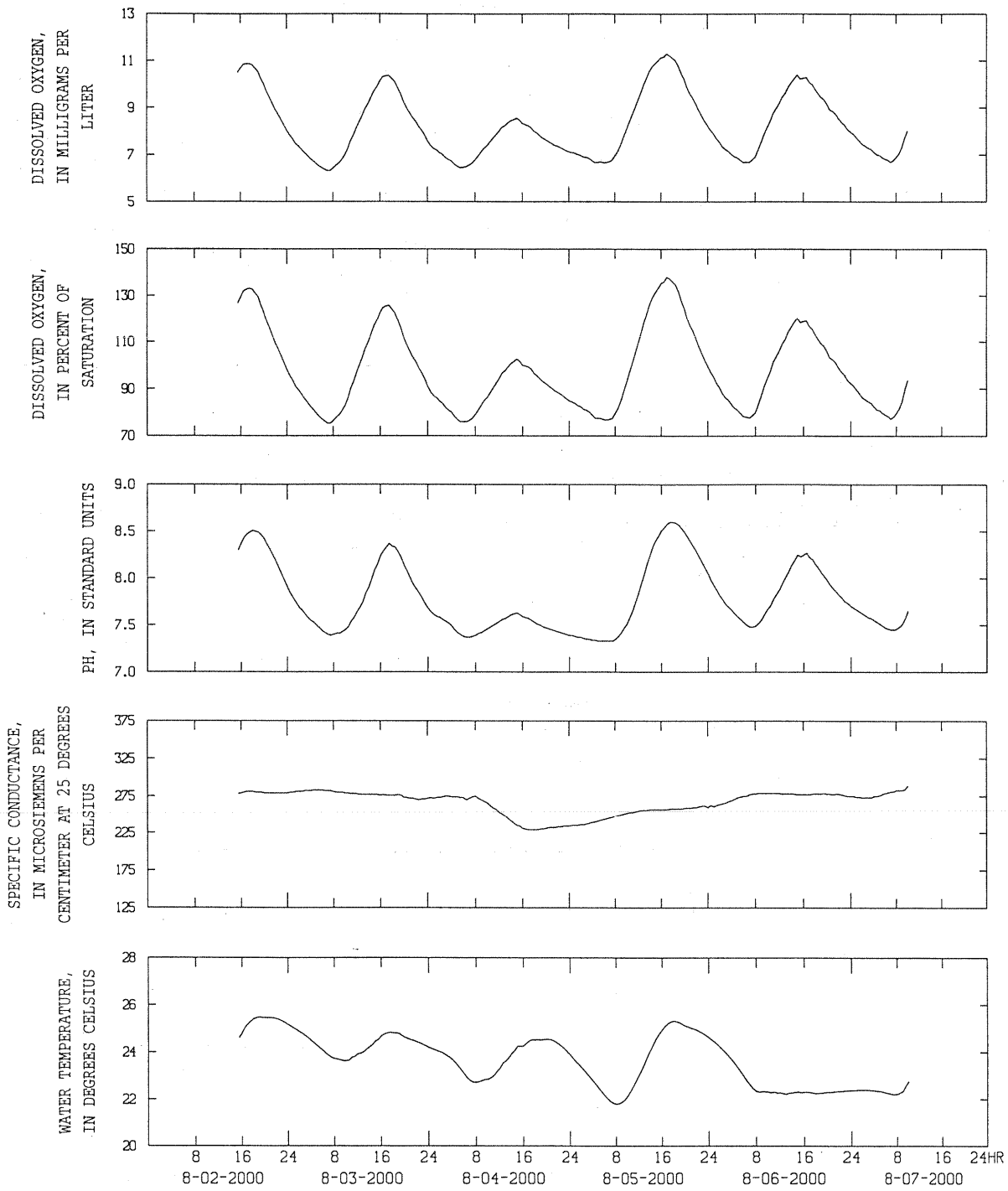


Figure 34. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01398102 South Branch Raritan River at South Branch.

01399100 MIDDLE BROOK AT BURNT MILLS, NJ

LOCATION.--Lat 40°38'50", long 74°40'52", Somerset County, Hydrologic Unit 02030105, at bridge on Cutting Whitney Road, 200 ft above mouth, and 0.8 mi northeast of Burnt Mills.

DRAINAGE AREA.--6.67 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
08...	1100	766	86	10.8	8.2	289	6.0	.100	.076	110
FEB 2000										
09...	1000	768	111	16.3	8.0	334	.0	.046	.036	120
MAY										
25...	1000	750	99	9.8	7.5	187	15.0	.359	.278	67
AUG										
24...	1100	765	91	8.5	8.0	277	19.0	.094	.070	100

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
08...	28.9	9.03	2.9	13.3	85	20.3	.1	8.8	26.9
FEB 2000									
09...	32.2	10.2	1.8	18.8	81	34.9	<.1	10.6	26.9
MAY									
25...	17.9	5.31	2.9	7.8	52	12.3	<.1	8.7	12.6
AUG									
24...	27.2	8.13	3.2	12.0	88	17.8	<.1	6.0	19.0

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
08...	.20	.31	.03	<.030	.81	.70	.501	<.003	.035
FEB 2000									
09...	.11	.11	<.03	<.030	1.1	1.1	1.02	<.003	.012
MAY									
25...	.78	.82	.05	<.030	1.6	1.5	.732	.023	.127
AUG									
24...	.32	.46	.03	<.030	1.0	.86	.544	<.003	.035

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
08...	.057	3.7	.3	2.5	4	174	163	86	--
FEB 2000									
09...	.017	1.9	<.2	E1.8	7	196	189	83	--
MAY									
25...	.201	9.8	2.2	E2.0	--	130	102	46	34
AUG									
24...	.051	3.7	.2	E1.2	--	155	149	91	2

E Estimated value.
< Actual value is known to be less than the value shown.

01399100 MIDDLE BROOK AT BURNT MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 24...	1100	<3	58.0	<1	82	<1.0	E1	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 24...	180	<1	57	<.3	<1	<1	<1	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 09...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 09...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 09...	<.10	1.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 25...	1000	.005	<.002	.082	E.002	<.002	E.008	<.003	<.004	<.004	<.002	E.030

E Estimated value.
< Actual value is known to be less than the value shown.

01399100 MIDDLE BROOK AT BURNT MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
25...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	.007	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
25...	<.006	<.004	E.002	<.003	<.007	<.004	E.005	<.010	<.007	<.001	E.001

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	1200	220	100	150	10...	1215	60	0	80
JUL					17...	1100	490	900	360
03...	1215	170	100	70	24...	1236	130	<100	70

E Estimated value.
< Actual value is known to be less than the value shown.

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ

LOCATION.--Lat 40°38'04", long 74°41'13", Somerset County, Hydrologic Unit 02030105, at bridge on Burnt Mills Road in Burnt Mills, 1,400 ft upstream from mouth, and 2.4 mi southwest of Greater Cross Roads.

DRAINAGE AREA.--100 mi^2.

PERIOD OF RECORD.--Water years 1964, 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	0915	63	764	102	13.1	7.6	277	5.0	.147	.114
FEB 2000										
17...	1230	240	758	101	14.1	7.5	214	1.5	.118	.092
MAY										
10...	0930	78	751	84	7.3	7.8	266	21.5	.147	.112
AUG										
08...	1045	69	756	99	8.4	7.2	258	23.0	.196	.151

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	88	21.3	8.37	2.1	16.7	62	29.4	.1	11.7	20.2
FEB 2000										
17...	58	14.4	5.42	1.8	15.6	32	32.1	<.1	11.8	14.8
MAY										
10...	85	20.8	7.96	1.8	14.6	65	28.3	<.1	10.3	14.4
AUG										
08...	83	20.6	7.76	1.9	15.3	64	27.6	.1	16.4	12.0

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	.22	.29	<.03	<.030	1.0	.94	.724	.004	.048	.054
FEB 2000										
17...	.26	.33	<.03	<.030	1.4	1.3	1.08	.006	.026	.054
MAY										
10...	.37	.43	.08	.080	1.4	1.3	.950	.015	.057	.077
AUG										
08...	.30	.36	<.03	<.030	1.4	1.4	1.06	<.003	.092	.106

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
08...	4.8	.2	<1.0	1	166	150	37	--	--
FEB 2000									
17...	3.7	.5	E1.1	3	128	120	19	--	--
MAY									
10...	4.2	.4	3.4	--	158	141	38	.86	4
AUG									
08...	4.9	<.2	E1.2	--	163	144	43	.39	2

E Estimated value.
< Actual value is known to be less than the value shown.

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1215	220	300	90
JUL				
03...	1145	330	200	90
JUL 2000				
10...	1124	490	0	100
17...	1020	940	900	130
24...	1142	1300	200	610

01399900 CHAMBERS BROOK AT NORTH BRANCH DEPOT, NJ

LOCATION.--Lat 40°35'32", long 74°41'00", Somerset County, Hydrologic Unit 02030105, at bridge on Station Road in North Branch Depot, 0.3 mi upstream from mouth, and 3.0 mi northwest of Raritan.

DRAINAGE AREA.--10.2 mi^2.

PERIOD OF RECORD.--Water years 1959 to 1964, 1977 to 1978, and current year .

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
09...	1030	771	98	13.5	7.6	239	2.5	.071	.054	79
FEB 2000										
24...	0930	770	91	12.1	7.2	265	4.0	.076	.058	72
MAY										
24...	1015	752	85	8.6	7.3	158	14.0	.285	.221	49
AUG										
10...	1000	761	84	7.7	7.6	295	19.5	.102	.075	97

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
09...	19.9	7.25	2.0	13.5	49	16.9	<.1	15.1	32.6
FEB 2000									
24...	17.6	6.81	1.8	21.6	33	43.0	<.1	11.9	22.5
MAY									
24...	12.6	4.29	2.5	10.0	36	13.8	<.1	8.7	13.1
AUG									
10...	24.4	8.70	2.7	18.1	68	22.7	<.1	10.9	37.3

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
09...	.15	.21	<.03	<.030	2.0	1.9	1.77	<.003	.050
FEB 2000									
24...	.20	.19	<.03	--	1.8	1.8	1.58	--	.042
MAY									
24...	.59	.81	.06	.050	1.5	1.3	.723	.014	.081
AUG									
10...	.25	.34	<.03	<.030	1.0	.93	.673	<.003	.073

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
09...	E.042	2.6	.2	2.1	4	146	144	62	--
FEB 2000									
24...	.056	2.5	.2	E1.2	2	158	152	42	--
MAY									
24...	.181	8.4	.9	2.3	--	111	90	42	61
AUG									
10...	.087	3.6	.3	E1.0	--	192	168	91	2

E Estimated value.
< Actual value is known to be less than the value shown.

01399900 CHAMBERS BROOK AT NORTH BRANCH DEPOT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
10...	1000	--	--	--	--	--	--	<3	66.1	<1	90
10...	1000	7.20	220	4.6	1700	3.6	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000											
10...	<1.0	E1	2	170	<1	69	<.3	<1	<1	<1	3
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	4	.3	33	22	80	42000	79	1200	.06	44	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	140	80	<50	<50	<50	<50	<50	130	440	360	340

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	110	310	440	<50	860	180	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
10...	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	E7	<50	<50	340	<50	60	800	2

E Estimated value.
< Actual value is known to be less than the value shown.

01399900 CHAMBERS BROOK AT NORTH BRANCH DEPOT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
24...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
24...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
24...	<.10	.4	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
24...	1015	<.002	<.002	.028	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.023

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
24...	.012	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
24...	<.006	<.014	E.010	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01399900 CHAMBERS BROOK AT NORTH BRANCH DEPOT, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1120	790	200	80
JUL 2000				
10...	1045	490	0	590
17...	1145	3500	1700	600
24...	1109	490	600	270

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, Hydrologic Unit 02030105, on right bank, 400 ft upstream from U.S. Highway 202, 1.4 mi upstream from confluence with South Branch, and 2.7 mi west of Raritan.

DRAINAGE AREA.--190 mi^2.

PERIOD OF RECORD.--Water years 1923-25, 1960-76, 1978-80, 1997 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
DEC 1999										
01...	1100	165	771	102	14.1	7.7	258	2.5	.146	.113
FEB 2000										
24...	1100	417	770	98	13.1	7.5	305	3.5	.097	.075
MAY										
24...	1045	1590	751	88	8.9	7.5	167	14.0	.321	.246
AUG										
30...	1100	174	765	97	8.8	7.7	248	20.5	.164	.125

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999										
01...	84	20.8	7.72	2.1	15.2	55	29.2	<.1	12.5	21.3
FEB 2000										
24...	77	19.6	6.90	1.7	25.3	42	51.8	<.1	11.7	16.6
MAY										
24...	54	13.7	4.76	1.9	9.9	39	16.2	<.1	9.8	11.5
AUG										
30...	84	21.7	7.27	2.2	15.0	60	23.5	<.1	13.3	16.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 1999										
01...	.25	.33	<.03	<.030	1.2	1.1	.897	<.003	.030	.043
FEB 2000										
24...	.26	.25	<.03	<.030	1.4	1.4	1.16	.004	.028	.048
MAY										
24...	.67	1.1	.06	.030	1.7	1.3	.617	.018	.077	.262
AUG										
30...	.46	.39	<.03	<.030	1.4	1.4	.964	.003	.072	.085

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
01...	4.5	.2	2.8	<1	150	146	46	--	--
FEB 2000									
24...	3.0	.4	E1.2	4	171	164	30	--	--
MAY									
24...	9.4	3.0	3.1	--	119	94	36	563	131
AUG									
30...	4.5	.3	<1.2	--	154	140	62	2.3	5

E Estimated value.
< Actual value is known to be less than the value shown.

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	1110	1100	1100	630	10...	1030	130	0	50
JUL					17...	1010	1400	1200	160
03...	1030	330	<100	20	24...	1047	490	200	160

< Actual value is known to be less than the value shown.

01400585 ROCKY BROOK AT PERRINEVILLE, NJ

LOCATION.--Lat 40°13'38", long 74°26'22", Monmouth County, Hydrologic Unit 02030105, at bridge on Sweetmans Lane (County Route 1) in Perrineville, at outlet of Perrineville Lake, and 1.9 mi east of Roosevelt.

DRAINAGE AREA.--2.83 mi^2.

PERIOD OF RECORD.--Water years 1998 and current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
18...	1100	766	102	12.8	8.2	141	6.0	.045	.035	28
FEB 2000										
29...	0930	764	93	11.2	6.8	208	7.5	.032	.025	26
MAY										
16...	1030	764	92	8.4	7.2	140	20.0	.136	.109	26
AUG										
10...	1100	756	99	7.8	7.4	114	27.0	.188	.149	20

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999									
18...	4.99	3.70	2.7	12.3	11	24.0	<.1	4.3	8.1
FEB 2000									
29...	5.09	3.16	2.3	26.4	8	46.8	<.1	3.6	8.6
MAY									
16...	4.58	3.57	2.4	13.3	13	24.6	.1	4.8	6.7
AUG									
10...	3.98	2.54	2.7	11.3	12	19.4	<.1	4.4	4.8

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
18...	.15	.12	.07	<.030	1.7	1.7	1.58	<.003	E.004
FEB 2000									
29...	.24	.25	<.03	<.030	2.0	2.0	1.71	.010	<.007
MAY									
16...	.45	.59	.09	.090	1.8	1.7	1.23	.011	.021
AUG									
10...	.33	.57	<.03	<.030	1.0	.80	.464	.008	.015

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
18...	.012	1.7	.3	E1.2	3	73	74	E15	--
FEB 2000									
29...	.017	1.2	.3	<1.0	<1	110	108	E11	--
MAY									
16...	.038	3.3	.3	2.1	--	80	73	18	4
AUG									
10...	.054	4.9	.7	E2.2	--	80	59	20	8

E Estimated value.
< Actual value is known to be less than the value shown.

01400585 ROCKY BROOK AT PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
10...	1100	6.41	--	--	--	--	--	E2	40.2	<1	16
10...	1100	6.40	710	7.5	1100	8.9	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000											
10...	<1.0	E1	1	1150	<1	52	<.3	2	<1	<1	3
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	3	<.2	25	4.5	<32	22000	13	110	.15	8.3	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	40	<50	<50	<50	<50	<50	<50	<50	60	70	70

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	50	100	<50	120	<50	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
10...	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<5	<50	<50	70	<50	<50	130	5

E Estimated value.
< Actual value is known to be less than the value shown.

01400585 ROCKY BROOK AT PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
29...	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	DIBROMOCHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
29...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
29...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
16...	1030	.012	<.002	.036	<.002	<.002	E.020	<.003	<.004	<.004	E.001	E.023

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
16...	.009	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
16...	<.006	<.004	E.003	<.003	<.007	<.004	.011	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01400585 ROCKY BROOK AT PERRINEVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	1035	20	<100	90
10...	1035	<20	<100	90
17...	1020	20	<100	50
24...	1030	40	100	40
31...	1047	70	<100	60

< Actual value is known to be less than the value shown.

01400640 MILLSTONE RIVER NEAR GROVERS MILL, NJ

LOCATION.--Lat 40°18'48", long 74°35'22", Mercer County, Hydrologic Unit 02030105, at bridge on Cranbury Road near Grovers Mill, 1.4 mi southeast of Plainsboro and 2.0 mi upstream from Cranbury Brook.

DRAINAGE AREA.--43.4 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year. Site location was 01400650 during water years 1976-95, 1997-98.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria for the Environmental samples were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Analyses of the split and replicate samples were performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
NOV 1999									
30...	1120	ENVIRONMENTAL	22	771	90	11.1	--	260	7.0
MAR 2000									
21...	0900	ENVIRONMENTAL	74	770	89	10.9	7.4	223	7.0
21...	*0900*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
21...	*0901*	*CONCURRENT REPLICATE*	--	--	--	--	*7.4*	*223*	--
JUN									
20...	0840	ENVIRONMENTAL	31	765	82	7.6	7.4	248	19.0
20...	*0840*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
20...	*0841*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--
AUG									
22...	1240	ENVIRONMENTAL	28	769	97	8.8	7.2	253	20.5

DATE	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
NOV 1999											
30...	.078	.060	56	12.9	5.68	4.3	23.0	29	27.6	.1	10.6
MAR 2000											
21...	.074	.056	45	10.6	4.49	3.0	19.8	16	30.7	.1	9.1
21...	--	--	*47*	*11.0*	*4.80*	*3.5*	*21.0*	*16*	*31.0*	*.2*	--
21...	--	--	*47*	*11.0*	*4.80*	*3.5*	*21.0*	*16*	*32.0*	*.2*	--
JUN											
20...	.128	.104	50	11.5	5.10	3.8	30.7	39	29.6	.2	8.4
20...	--	--	*48*	*11.0*	*5.10*	*4.3*	*30.0*	*38*	*31.0*	*<.5*	--
20...	--	--	*49*	*11.0*	*5.20*	*4.3*	*31.0*	*37*	*31.0*	*<.5*	--
AUG											
22...	.128	.100	48	11.6	4.73	3.7	22.5	29	25.9	.2	10.2

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999										
30...	33.9	.28	.43	<.03	<.030	3.6	3.5	3.19	<.003	.030
MAR 2000										
21...	27.2	.30	.37	.06	<.030	3.2	3.1	2.84	.003	.017
21...	*29.0*	*.40*	*.50*	*.07*	*.100*	*2.2*	*2.1*	*1.70*	*<.050*	*<.020*
21...	*30.0*	*.20*	*.30*	*.07*	*.070*	*1.9*	*1.8*	*1.60*	*<.050*	*<.020*
JUN										
20...	23.4	.38	.56	.04	.050	4.9	4.7	4.33	.024	.071
20...	*24.0*	*.81*	*.70*	*.09*	*.090*	*3.8*	*3.9*	*3.10*	*<.050*	*.060*
20...	*25.0*	*.69*	*.83*	*.09*	*.090*	*3.6*	*3.5*	*2.80*	*<.050*	*.060*
AUG										
22...	23.6	.37	.51	<.03	<.030	4.8	4.7	4.32	.011	.048

< Actual value is known to be less than the value shown.

01400640 MILLSTONE RIVER NEAR GROVERS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999										
30...	.080	3.2	.4	E1.4	5	158	150	41	--	--
MAR 2000										
21...	.057	2.8	.5	3.2	4	132	128	27	--	--
21...	*.050*	*3.8*	--	--	*<10*	*136*	*118*	*30*	--	--
21...	*.050*	*3.8*	--	--	*<10*	*140*	*119*	*31*	--	--
JUN										
20...	.136	4.1	.5	<1.1	--	165	155	74	.14	2
20...	*.130*	*7.1*	--	--	*7*	*159*	*142*	*M*	--	--
20...	*.130*	*7.1*	--	--	*8*	*164*	*142*	*M*	--	--
AUG										
22...	.133	3.9	.3	<1.0	--	152	139	54	2.2	28

DATE	TIME	SAMPLE TYPE	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)
MAR 2000								
21...	0900	ENVIRONMENTAL	<.10	<.10	<.10	<.2	<.10	<.10
21...	*0900*	*SPLIT REPLICATE*	--	--	--	--	--	--
21...	*0901*	*CONCURRENT REPLICATE*	--	--	--	--	--	--

DATE	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)
MAR 2000										
21...	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.12	.89
21...	*<1.00*	*<1.00*	*<1.00*	--	--	*<1.00*	--	--	--	*<1.00*
21...	*<1.00*	*<1.00*	*<1.00*	--	--	*<1.00*	--	--	--	*<1.00*

DATE	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 2000									
21...	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.8
21...	--	--	--	--	--	--	--	--	*<1.0*
21...	--	--	--	--	--	--	--	--	*<1.0*

DATE	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
MAR 2000									
21...	<.2	<.20	<.10	<.10	3.1	<.10	3.18	<.20	<.2
21...	--	*<1.00*	*<1.00*	*<1.00*	--	--	--	--	--
21...	--	*<1.00*	*<1.00*	*<1.00*	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01401200 DUCK POND RUN AT CLARKSVILLE, NJ

LOCATION.--Lat 40°18'24", long 74°40'06", Mercer County, Hydrologic Unit 02030105, at bridge on US Route 1, 0.5 mi upstream from Delaware and Raritan Canal, and 0.9 mi northeast of Clarksville.

DRAINAGE AREA.--5.21 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
03...	1200	753	40	4.2	6.5	157	12.5	.436	.347	46
FEB 2000										
03...	1030	758	77	10.8	6.6	535	1.1	.201	.154	77
MAY										
03...	1100	768	91	9.7	6.8	194	13.0	.264	.205	56
AUG										
14...	0930	757	78	7.2	7.3	93	19.0	.232	.170	13

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
03...	9.89	5.28	3.3	9.8	20	22.9	<.1	10.5	15.7
FEB 2000									
03...	18.6	7.31	2.3	66.6	16	133	<.1	11.6	19.4
MAY									
03...	12.3	6.03	2.1	12.5	20	28.9	<.1	8.3	18.4
AUG									
14...	3.84	.84	.9	4.6	13	6.0	<.1	1.5	4.1

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
03...	<.10	.55	.05	.060	--	--	<.037	<.003	<.007
FEB 2000									
03...	.37	.43	<.03	<.030	2.4	2.3	1.97	.004	.008
MAY									
03...	.35	.49	<.03	<.030	2.3	2.2	1.81	.006	E.005
AUG									
14...	.48	1.1	>.22	>.180	1.4	.75	.268	.014	.038

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	.049	11	.4	E3.1	6	117	89	29	--
FEB 2000									
03...	.031	5.2	1.0	E1.6	8	304	277	25	--
MAY									
03...	.029	6.1	.4	E1.3	--	132	109	21	7
AUG									
14...	.162	7.1	>4.0	>4.5	--	41	31	18	73

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01401200 DUCK POND RUN AT CLARKSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
14...	0930	--	--	--	--	--	--	E1	54.9	<1	21
14...	0930	6.89	160	3.6	50	3.5	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
14...	<1.0	5	21	2330	14	168	<.3	3	<1	<1	93
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<1	.1	13	3.2	9	8700	34	95	.01	5.9	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	40	<50	<50	<50	<50	<50	<50	<50	80	80	80

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<50	90	100	<50	220	60	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
14...	--	--	--	--	--	--	--	--	--	--
14...	<50	<50	E6	<50	<50	130	<50	<50	170	2

E Estimated value.
< Actual value is known to be less than the value shown.

01401200 DUCK POND RUN AT CLARKSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
03...	1030	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.16	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
03...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
03...	<.10	.5	<.2	E.11	<.10	<.10	<.1	.15	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
03...	1100	<.002	<.002	.014	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.019

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
MAY 2000												
03...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003	<.006

DATE	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUTHYLAZINE, WATER, DISS, REC (UG/L) (04022)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
03...	<.004	E.010	<.003	<.007	<.004	.007	<.010	<.007	E.003	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01401200 DUCK POND RUN AT CLARKSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	1335	2400	1200	110
28...	1015	220	100	100
JUL 2000				
11...	1205	490	1600	810
18...	1202	5400	1300	800
25...	1102	>24000	19000	5400

> Actual value is known to be greater than the value shown.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ

LOCATION.--Lat 40°22'10", long 74°36'59", Middlesex County, Hydrologic Unit 02030105, at bridge on Mapleton Road, at Penn Central Railroad bridge, 0.3 mi south of Kingston, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--9.0 mi^2.

PERIOD OF RECORD.--Water years 1976-82, 1998 to current year.

REMARKS.--For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria for the Environmental samples were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Analyses of the split and concurrent samples were performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assesment.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
NOV 1999									
23...	1140	ENVIRONMENTAL	1.8	758	87	9.2	6.9	209	12.5
MAR 2000									
21...	1030	ENVIRONMENTAL	13	771	92	11.6	7.0	266	6.0
JUN									
20...	0930	ENVIRONMENTAL	5.2	763	82	8.0	7.0	229	16.5
20...	*0930*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
20...	*0931*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--
AUG									
03...	0950	ENVIRONMENTAL	9.1	760	79	6.9	7.1	189	22.0

DATE	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999											
23...	.075	.058	73	16.7	7.48	2.7	15.0	39	26.8	<.1	14.0
MAR 2000											
21...	.134	.102	63	14.5	6.54	1.9	19.1	25	38.3	<.1	13.2
JUN											
20...	.253	.204	60	13.9	6.22	2.6	16.5	36	25.6	.1	12.7
20...	--	--	*61*	*14.0*	*6.40*	*3.0*	*16.0*	*35*	*27.0*	*<.5*	--
20...	--	--	*61*	*14.0*	*6.30*	*3.0*	*16.0*	*36*	*27.0*	*<.5*	--
AUG											
03...	.274	.209	56	13.7	5.37	2.9	14.8	34	21.9	<.1	12.2

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999										
23...	18.5	.18	.37	<.03	<.030	4.5	4.3	4.11	.007	E.005
MAR 2000										
21...	28.1	.24	.26	<.03	<.030	1.7	1.7	1.47	<.003	E.006
JUN										
20...	18.6	.55	..56	<.03	<.030	2.9	2.9	2.32	.011	.030
20...	*20.0*	*.73*	*.50*	*.11*	*.110*	*1.8*	*2.0*	*1.30*	*<.050*	*.020*
20...	*20.0*	*.68*	*.66*	*.14*	*.110*	*2.0*	*2.0*	*1.30*	*<.050*	*.020*
AUG										
03...	21.4	.54	.65	.10	<.030	2.2	2.1	1.53	.008	.037

E Estimated value.
< Actual value is known to be less than the value shown.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999										
23...	.013	2.7	.3	E1.8	2	150	143	26	--	--
MAR 2000										
21...	.025	3.7	.2	<1.0	5	155	143	24	--	--
JUN										
20...	.066	5.8	.4	<1.0	--	152	128	35	.11	8
20...	*.060*	*8.9*	--	--	*4*	*143*	*113*	*M*	--	--
20...	*.060*	*8.3*	--	--	*4*	*150*	*114*	*M*	--	--
AUG										
03...	.066	6.9	.2	<1.0	--	140	119	48	.15	6

DATE	TIME	SAMPLE TYPE	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)
MAR 2000								
21...	1030	ENVIRONMENTAL	<.10	<.10	<.10	<.2	<.10	<.10
21...	*1030*	*SPLIT REPLICATE*	--	--	--	--	--	--
21...	*1031*	*CONCURRENT REPLICATE*	--	--	--	--	--	--

DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)
MAR 2000										
21...	<.10	.21	.35	<.10	<.20	<.20	<.10	<.2	.13	.13
21...	*<1.00*	*<1.00*	*<1.00*	--	--	*<1.00*	--	--	--	*<1.00*
21...	*<1.00*	*<1.00*	*<1.00*	--	--	*<1.00*	--	--	--	*<1.00*

DATE	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 2000									
21...	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.3
21...	--	--	--	--	--	--	--	--	*<1.0*
21...	--	--	--	--	--	--	--	--	*<1.0*

DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 2000									
21...	<.2	<.20	<.10	<.10	.2	<.10	<.10	<.20	<.2
21...	--	*<1.00*	*<1.00*	*<1.00*	--	--	--	--	--
21...	--	*<1.00*	*<1.00*	*<1.00*	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1145	490	<100	260
JUL 2000				
12...	1000	1100	500	60
19...	0955	490	300	120
26...	1015	>24000	17000	9100

< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ

LOCATION.--Lat 40°28'30", long 74°34'34", Somerset County, Hydrologic Unit 02030105, on left bank 30 ft downstream from highway bridge at Blackwells Mills, and 0.3 mi downstream from Six Mile Run.

DRAINAGE AREA.--258 mi^2.

PERIOD OF RECORD.--Water years 1962-69, 1973, 1976-80, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
DEC 1999										
09...	1000	248	770	83	10.4	8.2	261	6.0	.133	.103
FEB 2000										
01...	1000	218	760	87	12.3	7.7	516	1.0	.067	.052
MAY										
24...	1000	1610	752	91	9.1	7.2	162	15.0	.210	.158
AUG										
31...	1000	87	768	60	5.1	7.4	318	24.0	.127	.094

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999										
09...	76	18.0	7.58	3.6	16.0	41	23.8	.1	12.9	31.5
FEB 2000										
01...	98	22.8	9.99	3.6	54.5	40	93.3	.2	13.9	36.9
MAY										
24...	44	10.6	4.29	2.6	10.5	27	15.3	<.1	9.4	--
AUG										
31...	84	18.4	9.24	4.7	22.8	47	31.1	.2	10.2	31.7

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 1999										
09...	.37	.51	.04	.050	3.3	3.2	2.84	.013	.206	.243
FEB 2000										
01...	.64	.63	.28	.230	4.9	4.9	4.27	.025	.294	.324
MAY										
24...	.60	1.4	.25	.170	2.6	1.9	1.26	.026	.121	.589
AUG										
31...	.50	.47	.10	.130	3.9	4.0	3.46	.025	.558	.540

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
09...	4.5	.4	2.6	7	151	151	59	--	--
FEB 2000									
01...	2.9	.2	E2.0	1	279	279	65	--	--
MAY									
24...	6.4	>4.0	2.9	--	107	--	41	--	--
AUG									
31...	4.0	.2	<1.0	--	183	172	97	.26	1

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
28...	1000	220	<100	10
JUL				
03...	0910	130	200	60
JUL 2000				
10...	0915	260	0	70
17...	0930	5400	3400	5400
24...	0945	330	100	30

< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ

LOCATION.--Lat 40°33'34", long 74°31'41", Somerset County, Hydrologic Unit 02030105, at Queens Bridge on Main street in Bound Brook, 1.7 mi upstream from Fieldsville Dam.

DRAINAGE AREA.--804 mi^2.

PERIOD OF RECORD.--Water years 1964-69, 1971-73, 1978, 1981 to current year. Published as "at Bound Brook" (station 01403000) 1964-66, and as "below Calco Dam at Bound Brook" (station 01403060) 1967-69.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1997 to June 1998.

REMARKS.--Instantaneous discharges are determined at Raritan River below Calco Dam at Bound Brook (station 01403060). For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Some field data and samples for laboratory analysis (12 of 16 samples) were collected as part of the LINJ NAWQA Study; field data and samples for laboratory analysis on 11/08, 02/08, 05/04, and 08/31 were provided by the New Jersey Department of Environmental Protection as part of the Ambient Stream Monitoring Program. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, on those dates were performed by the New Jersey Department of Health, Public Health, and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--LINJ NAWQA and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)
OCT 1999										
27...	0945	ENVIRONMENTAL	E449	765	101	11.2	7.5	291	11.0	--
NOV										
08...	1000	ENVIRONMENTAL	E325	769	124	14.5	8.0	268	9.0	.103
29...	1120	ENVIRONMENTAL	E890	770	97	11.3	7.0	245	9.0	--
DEC										
20...	1120	ENVIRONMENTAL	E668	760	98	12.7	6.8	250	4.5	--
FEB 2000										
07...	1100	ENVIRONMENTAL	E235	762	111	15.3	7.3	569	2.0	--
08...	0930	ENVIRONMENTAL	E264	777	99	14.6	7.7	541	.5	.056
24...	*0940*	*FIELD BLANK*	--	--	--	--	--	--	--	--
24...	1110	ENVIRONMENTAL	E1920	770	109	14.1	7.7	308	5.0	--
MAR										
30...	1130	ENVIRONMENTAL	E1160	760	104	11.3	7.4	258	11.5	--
APR										
20...	1010	ENVIRONMENTAL	E890	765	107	11.4	8.2	268	12.5	--
MAY										
04...	1100	ENVIRONMENTAL	E438	771	117	11.4	7.7	273	17.0	.096
JUN										
08...	*0950*	*FIELD BLANK*	--	--	--	--	--	--	--	--
08...	1100	ENVIRONMENTAL	E688	769	108	10.1	7.0	266	19.0	--
23...	0950	ENVIRONMENTAL	E710	762	74	6.3	7.0	280	23.5	--
JUL										
18...	0920	ENVIRONMENTAL	E249	758	92	7.7	7.2	324	24.0	--
AUG										
14...	1140	ENVIRONMENTAL	E1830	765	91	8.3	7.1	220	20.0	--
31...	1000	ENVIRONMENTAL	E418	768	131	11.1	7.6	289	24.0	.127
SEP										
07...	1030	ENVIRONMENTAL	E330	776	103	9.6	7.0	300	19.5	--

E Estimated value.
< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 1999												
27...	--	99	24.4	9.17	3.2	22.2	--	52	63	28.4	<.1	8.2
NOV												
08...	.081	82	20.1	7.75	3.0	18.3	52	--	--	24.1	.1	6.2
29...	--	74	18.4	6.85	3.2	15.5	--	44	54	22.6	<.1	10.4
DEC												
20...	--	75	18.4	6.99	2.2	14.6	--	38	46	21.7	<.1	10.9
FEB 2000												
07...	--	120	29.1	10.4	3.4	60.3	--	43	52	106	.1	10.9
08...	.044	110	26.2	10.1	3.4	57.3	41	--	--	106	.1	11.8
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	76	19.3	6.81	2.2	28.3	--	35	42	53.4	.1	10.1
MAR												
30...	--	70	17.2	6.54	2.3	18.7	--	39	48	33.0	<.1	9.8
APR												
20...	--	73	18.0	6.90	2.1	19.5	--	42	51	34.1	.1	7.8
MAY												
04...	.070	76	18.2	7.39	2.7	20.6	45	--	--	31.3	.1	7.8
JUN												
08...	--	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*	*<.1*
08...	--	75	18.2	7.23	2.2	18.4	--	51	62	29.0	.1	8.9
23...	--	79	19.0	7.63	2.7	19.0	--	51	62	29.4	.1	9.7
JUL												
18...	--	79	19.8	7.26	3.2	23.1	--	44	36	31.7	.2	6.4
AUG												
14...	--	60	14.9	5.49	2.8	13.7	--	40	49	19.7	<.1	9.3
31...	.095	87	21.3	8.27	3.3	17.4	57	--	--	26.4	.2	9.6
SEP												
07...	--	86	21.4	7.88	3.4	20.9	--	52	64	28.7	.2	9.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 1999											
27...	37.7	.29	.47	--	<.020	2.9	2.7	2.43	<.010	.185	.153
NOV											
08...	30.9	.26	.54	.06	<.030	2.4	2.1	1.81	.007	.093	--
29...	25.6	.43	.50	--	.063	2.6	2.5	2.10	.016	.112	.076
DEC											
20...	29.2	.28	.45	--	.078	3.1	3.0	2.69	.011	.125	.097
FEB 2000											
07...	38.7	.40	.44	--	.134	4.3	4.2	3.85	.021	.262	.230
08...	33.3	.46	.51	.11	.140	3.9	3.9	3.42	.023	.180	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	22.8	.32	.46	--	.084	2.6	2.4	2.11	<.010	.102	.084
MAR											
30...	23.0	.29	.32	--	.032	2.1	2.1	1.81	.011	.102	.085
APR											
20...	21.6	.35	.44	--	.055	1.8	1.7	1.40	<.010	.094	.126
MAY											
04...	27.1	.32	.58	<.03	<.030	2.5	2.2	1.87	.008	.168	--
JUN											
08...	*<.3*	*<.10*	*<.10*	--	*<.020*	--	--	*<.050*	*<.010*	*<.006*	*<.010*
08...	23.2	.44	.51	--	.036	2.0	1.9	1.48	.018	.178	.012
23...	23.1	.45	.69	--	.076	2.2	2.0	1.50	.023	.195	.170
JUL											
18...	35.4	.56	.65	--	.100	3.2	3.1	2.57	.023	.340	.323
AUG											
14...	18.4	.56	.71	--	.099	2.5	2.3	1.76	.020	.121	.098
31...	26.4	.52	.46	<.03	<.030	2.5	2.5	2.01	.009	.252	--
SEP											
07...	31.4	.45	.54	--	.024	2.9	2.8	2.34	.013	.238	.198

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999											
27...	--	3.6	.4	--	--	177	176	90	70	38	4
NOV											
08...	.155	3.5	.2	2.6	1	160	150	64	--	--	--
29...	.144	5.1	.4	--	--	150	139	56	80	37	6
DEC											
20...	.160	4.1	.2	--	--	153	139	54	80	41	6
FEB 2000											
07...	.313	2.8	.8	--	--	309	303	85	40	90	6
08...	.228	2.4	.3	2.2	1	296	288	49	--	--	--
24...	*--*	*<.33*	*.2*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	*--*
24...	.123	2.9	.4	--	--	189	174	37	50	48	9
MAR											
30...	.140	3.7	.6	--	--	149	143	42	90	41	M
APR											
20...	.127	4.0	.3	--	--	157	145	44	100	26	4
MAY											
04...	.223	3.7	.9	2.6	--	164	150	57	--	--	9
JUN											
08...	*<.008*	*--*	*--*	*--*	*--*	*<10*	*--*	*<16*	*<10*	*<2*	*--*
08...	.225	4.1	.3	--	--	160	148	57	90	33	6
23...	.266	4.4	.8	--	--	167	149	62	70	36	71
JUL											
18...	.414	4.7	.5	--	--	186	157	97	40	34	12
AUG											
14...	.177	5.5	.6	--	--	143	122	52	140	34	22
31...	.248	4.4	.2	<1.3	--	169	156	78	--	--	3
SEP											
07...	.273	4.4	<.2	--	--	188	165	97	70	42	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000								
31...	1000	<3	42.0	<1	72	<1.0	E1	3

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000								
31...	240	<1	37	<.3	<1	<1	<1	11

E Estimated value.
< Actual value is known to be less than the value shown.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were anlayzed for volatile organic compounds (VOCs) using laboratory schedule 2020 (listed in its entirety, with minimum reporting levels, in the "Explanation of Records" section in the Introduction). The sample on 02/08 was analyzed by schedule 1307. Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)
OCT 1999									
27...	0945	ENVIRONMENTAL	<.06	<.12	<.13	<.08	<.14	<14	<.2
FEB 2000									
07...	0936	FIELD BLANK	<.03	<.06	<.07	<.04	<.07	<7	<.1
07...	0940	FIELD BLANK	<.03	<.06	<.07	<.04	<.07	E1	<.1
07...	1100	ENVIRONMENTAL	E.01	<.06	<.07	<.04	<.07	E2	<.1
08...	0930	ENVIRONMENTAL	<.10	--	<.10	<.10	<.10	--	--
APR									
20...	1010	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E1	<.1

DATE	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
OCT 1999											
27...	<.4	<.11	<.09	E.02	<.10	<.06	<.4	<.08	E.03	E.07	<.12
FEB 2000											
07...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
07...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
07...	M	<.06	<.04	E.05	E.03	<.03	<.2	<.04	.15	1.58	<.06
08...	--	--	--	<.10	<.10	--	--	--	<.10	<.10	<.20
APR											
20...	E.1	<.06	<.04	E.04	E.05	<.03	<.2	<.04	E.08	1.36	<.06

DATE	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROETHANE TOTAL (UG/L) (34311)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999											
27...	<.14	<.12	E.03	E.2	<.2	1.08	E.02	.45	<.3	<.11	<.2
FEB 2000											
07...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
07...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
07...	<.07	<.06	E.05	E.1	<.1	.97	E.02	.32	M	<.05	<.1
08...	--	<.20	<.10	E.1	--	.68	<.10	.23	<.2	<.10	<.2
APR											
20...	<.07	<.06	E.04	M	<.1	.36	E.01	.11	M	<.05	<.1

DATE	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISODURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISOBUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
27...	E.01	<.12	<4	<.4	.6	<1.0	<.8	<3	<.7	<.12
FEB 2000										
07...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
07...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
07...	<.03	<.06	<2	<.2	.6	<.5	<.4	<2	<.4	<.06
08...	<.10	<.10	--	--	.4	--	<.2	--	--	<.20
APR										
20...	<.03	<.06	<2	<.2	.3	<.5	M	<2	<.4	<.06

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT 1999										
27...	<.5	<.08	<.08	<.14	<.08	M	<.12	E.04	E.02	<.18
FEB 2000										
07...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*<.1*	*<.06*	*<.05*	*<.04*	*<.09*
07...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*<.1*	*<.06*	*<.05*	*<.04*	*<.09*
07...	<.2	<.04	<.04	<.07	<.04	E.1	<.06	E.08	E.04	<.09
08...	--	--	<.10	--	<.10	<.1	--	<.10	<.10	<.20
APR										
20...	<.2	<.04	<.04	<.07	<.04	M	<.06	.16	E.02	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
27...	0945	ENVIRONMENTAL	<.002	E.004	.019	<.002	<.002	<.003
NOV								
29...	1120	ENVIRONMENTAL	<.002	<.002	.020	<.002	<.002	<.003
DEC								
20...	1120	ENVIRONMENTAL	<.002	<.002	.018	<.002	<.002	<.003
FEB 2000								
07...	1100	ENVIRONMENTAL	<.002	<.008	.014	<.002	<.002	<.003
24...	*0940*	*FIELD BLANK*	*<.002*	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*
24...	1110	ENVIRONMENTAL	<.002	.006	.017	<.002	<.002	<.003
MAR								
30...	1130	ENVIRONMENTAL	<.002	<.002	.019	<.002	<.002	E.008
APR								
20...	1010	ENVIRONMENTAL	<.002	<.002	.014	<.002	<.002	<.006
MAY								
04...	1100	ENVIRONMENTAL	<.002	.005	.014	<.004	<.002	E.008
JUN								
08...	1100	ENVIRONMENTAL	.017	<.002	.228	<.002	<.002	E.014
23...	0950	ENVIRONMENTAL	<.020	<.006	.177	<.002	<.002	E.013
JUL								
18...	0920	ENVIRONMENTAL	<.002	<.010	.206	<.002	<.002	E.014
AUG								
14...	1140	ENVIRONMENTAL	<.002	<.002	.031	<.002	<.002	E.017
SEP								
07...	1030	ENVIRONMENTAL	<.002	<.002	.021	<.002	<.002	E.007

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)
OCT 1999										
27...	<.003	<.004	<.004	<.002	E.028	.004	<.001	<.002	<.003	<.004
NOV										
29...	<.003	<.004	<.004	<.002	E.018	<.002	<.001	<.002	<.003	<.004
DEC										
20...	<.003	<.004	<.004	<.002	E.021	<.002	<.001	<.002	<.003	<.004
FEB 2000										
07...	<.003	<.004	<.004	<.002	E.021	<.002	<.001	<.002	<.003	<.004
24...	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*	*<.004*
24...	<.003	<.004	<.004	<.002	E.026	<.002	<.001	<.002	<.003	<.004
MAR										
30...	<.003	<.004	<.004	<.002	E.025	.006	<.001	<.002	<.003	<.004
APR										
20...	<.003	<.004	<.004	<.002	E.019	.006	<.001	<.002	<.003	<.004
MAY										
04...	<.003	<.004	<.004	E.003	E.018	.005	<.001	<.002	<.003	<.004
JUN										
08...	<.003	<.004	.007	E.001	E.039	.022	<.001	<.002	<.003	<.004
23...	<.003	<.006	.010	E.002	E.033	.016	<.001	<.002	<.003	<.004
JUL										
18...	<.040	<.004	<.010	<.002	E.033	.040	<.001	<.002	<.003	<.004
AUG										
14...	<.003	<.004	<.004	<.004	E.033	.067	<.001	<.002	<.003	<.004
SEP										
07...	<.003	<.004	<.004	<.002	E.028	.016	<.001	<.002	<.003	<.004

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT 1999									
27...	<.002	<.005	<.001	.021	<.004	<.003	<.006	<.004	E.012
NOV									
29...	<.002	<.005	<.001	.018	<.004	<.003	<.006	<.004	E.013
DEC									
20...	<.002	<.005	<.001	.021	<.004	<.003	<.006	<.004	E.010
FEB 2000									
07...	<.002	<.005	<.001	.028	<.004	<.003	<.006	<.004	E.011
24...	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*	*<.004*	*<.018*
24...	<.002	<.005	<.001	.028	<.004	<.003	<.006	<.004	E.009
MAR									
30...	<.002	<.005	<.001	.032	<.004	<.003	<.006	.010	.024
APR									
20...	<.002	<.005	<.001	.021	<.004	<.003	<.006	<.004	<.018
MAY									
04...	<.002	<.005	<.001	.022	<.004	<.003	<.006	<.007	E.014
JUN									
08...	<.002	<.005	<.001	.089	<.004	<.003	<.006	.005	<.020
23...	<.002	<.005	<.010	.136	<.004	<.003	<.006	<.006	<.040
JUL									
18...	<.002	<.005	<.001	.262	<.004	<.003	<.006	<.004	.053
AUG									
14...	<.002	<.005	<.001	.031	<.004	<.003	<.006	<.007	.021
SEP									
07...	<.002	<.005	<.001	.017	<.004	<.003	<.006	<.004	.020

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
27...	<.003	<.007	<.004	.005	<.010	<.007	E.008	<.001	<.002
NOV									
29...	<.003	<.007	<.004	<.007	<.010	<.007	--	<.001	<.002
DEC									
20...	<.003	<.007	<.004	<.005	E.005	<.007	--	<.001	<.002
FEB 2000									
07...	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	<.002
24...	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*--*	*<.001*	*<.002*
24...	<.003	<.007	<.004	.005	<.010	<.007	--	<.001	<.002
MAR									
30...	<.003	<.007	<.004	.019	<.010	<.007	--	<.001	<.002
APR									
20...	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002
MAY									
04...	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.004
JUN									
08...	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
23...	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	E.004
JUL									
18...	<.003	<.007	<.004	.006	E.008	<.007	--	<.001	<.002
AUG									
14...	<.003	<.007	<.004	.018	<.010	<.007	--	<.001	<.002
SEP									
07...	<.003	<.007	<.004	.037	E.005	<.007	--	<.001	E.003

E Estimated value.
< Actual value is known to be less than the value shown.

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ

LOCATION.--Lat 40°34'51", long 74°29'58", Middlesex County, Hydrologic Unit 02030105, at bridge on State Route 28, 0.3 mi upstream from Green Brook, 0.9 mi northeast of Middlesex, and 2.4 mi west of the intersection of State Route 28 and Washington Avenue in Dunellen.

DRAINAGE AREA.--23.9 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1130	81	751	74	7.4	7.4	317	14.5	.190	.015
FEB 2000										
17...	1220	24	772	101	13.8	7.6	608	3.0	.145	.108
MAY										
08...	1200	8.5	755	66	5.5	7.7	563	24.0	.134	.099
AUG										
10...	1140	12	757	60	4.9	7.6	468	25.0	.176	.127

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	110	33.8	6.68	2.6	14.6	75	25.7	<.1	9.6	42.2
FEB 2000										
17...	140	41.5	8.57	2.2	54.4	67	118	<.1	11.4	40.7
MAY										
08...	200	59.5	12.3	2.7	26.9	129	55.7	.1	10.3	68.4
AUG										
10...	160	46.6	9.88	2.8	25.6	107	42.5	.1	16.1	50.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
03...	.24	.66	E.03	E.030	1.2	.78	.537	.013	.057	.150
FEB 2000										
17...	.41	.63	.14	.130	2.3	2.1	1.68	.019	.021	.072
MAY										
08...	.60	.70	.17	.190	1.2	1.1	.487	.034	.062	.125
AUG										
10...	.47	.56	.04	<.030	1.2	1.1	.646	.012	.076	.100

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	6.1	.8	3.0	23	196	182	100	--	--
FEB 2000									
17...	4.9	.6	E1.8	4	338	324	78	--	--
MAY									
08...	4.9	.4	E1.6	--	340	316	150	.13	6
AUG									
10...	6.0	.2	<1.0	--	294	261	168	.27	8

E Estimated value.
< Actual value is known to be less than the value shown.

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	0930	790	800	260
JUL				
05...	0945	2200	900	680
JUL 2000				
12...	0950	330	400	80
19...	0955	790	200	160
26...	1010	5400	900	9100

01405285 BARCLAY BROOK NEAR ENGLISHTOWN, NJ

LOCATION.--Lat 40°20'53", long 74°21'27", Middlesex County, Hydrologic Unit 02030105, at bridge on Old Bridge-Englishtown Road, 0.6 mi southwest of Redshaw Corner, 0.8 mi upstream of mouth, 2.3 mi southwest of Moeris Corner, and 3.5 mi north of Englishtown.

DRAINAGE AREA.--4.94 mi^2.

PERIOD OF RECORD.--Water years 1976 to 1982 and current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
02...	1000	768	112	16.0	3.6	274	1.0	.056	.042	34
FEB 2000										
08...	1000	776	--	--	3.6	346	.0	.092	.075	41
MAY										
03...	1100	770	83	9.1	3.6	268	11.5	.075	.065	34
AUG										
09...	1000	760	84	7.2	3.5	288	23.0	.315	.257	33

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC 1999									
02...	8.04	3.41	1.8	10.4	16.6	<.1	10.5	68.1	.37
FEB 2000									
08...	10.1	3.93	1.9	26.1	49.4	<.1	10.1	63.7	.42
MAY									
03...	8.19	3.28	1.9	10.7	18.5	<.1	8.9	65.2	.31
AUG									
09...	8.12	3.03	2.3	8.8	13.3	<.1	10.6	64.3	.53

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 1999									
02...	.35	.18	.160	--	--	E.024	<.003	.010	.009
FEB 2000									
08...	.40	.24	.250	.49	.50	.083	<.003	<.007	E.004
MAY									
03...	.42	.21	.170	.47	.36	.054	<.003	<.007	.013
AUG									
09...	.57	.23	.230	.62	.58	.049	E.003	<.007	E.006

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
02...	2.4	.3	E1.7	10	116	40	3710	336	--
FEB 2000									
08...	2.2	.2	E1.2	10	177	29	--	--	--
MAY									
03...	2.6	.3	<1.0	--	120	40	--	--	9
AUG									
09...	3.1	.2	<1.4	--	114	58	--	--	2

E Estimated value.
< Actual value is known to be less than the value shown.

01405285 BARCLAY BROOK NEAR ENGLISHTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
09...	0900	5.60	150	3.0	130	12	<.2	--	--	--	--
09...	1000	--	--	--	--	--	--	<3	33.0	<1	56

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<1.0	E1	3	3910	3	264	<.3	11	<1	<1	69

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
09...	1	<.1	6.5	<.7	E2	7000	4.9	5.4	<.01	<1.4	<1
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
09...	E4	<50	<50	<50	<50	<50	<50	<50	60	60	50
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
09...	<50	60	70	<50	140	<50	<50	<50	<50	<50	<50
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
09...	<50	<50	<5	<50	<50	50	<50	<50	120	3
09...	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01405285 BARCLAY BROOK NEAR ENGLISHTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
08...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
08...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
08...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
03...	1100	<.002	<.002	<.001	<.002	<.002	<.020	<.003	<.004	<.004	<.002	<.002

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
03...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
03...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01405285 BARCLAY BROOK NEAR ENGLISHTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1025	<20	<100	<10
JUL				
05...	0955	50	<100	10
JUL 2000				
12...	1000	20	<100	40
19...	1005	<20	<100	10
26...	0935	16000	28000	7800

< Actual value is known to be less than the value shown.

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ

LOCATION.--Lat 40°17'46", long 74°23'53", Middlesex County, Hydrologic Unit 02030105, at bridge on Federal Road, 2.6 mi north of Manalapan, 3.1 mi southwest of Matchaponix, 3.3 mi downstream from Still House Brook, and 4.1 mi northeast of Applegarth.

DRAINAGE AREA.--20.9 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitirite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	1120	14	768	89	9.8	5.2	198	11.5	.027	.021
FEB 2000										
22...	0910	41	771	99	13.8	5.7	116	2.0	.026	.021
MAY										
11...	0820	24	756	85	8.3	6.6	183	16.0	.100	.076
AUG										
09...	1210	20	760	91	7.6	6.8	166	24.0	.164	.122

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
22...	42	9.87	4.21	3.0	13.5	3	28.6	.1	13.8	30.6
FEB 2000										
22...	36	8.68	3.48	2.5	13.7	2	28.2	.1	10.0	26.9
MAY										
11...	35	8.27	3.51	2.8	14.6	8	30.6	.2	8.9	18.8
AUG										
09...	34	8.41	3.26	3.0	11.8	10	24.0	.2	11.5	18.5

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
22...	.20	.24	<.03	<.030	.93	.89	.688	.011	<.007	.028
FEB 2000										
22...	.22	.64	.09	.100	1.8	1.4	1.14	<.003	<.007	.066
MAY										
11...	.40	.74	.12	.110	1.4	1.0	.652	.008	.009	.111
AUG										
09...	.39	.48	.03	<.030	1.1	.99	.600	<.003	.016	.105

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
22...	1.5	.3	E2.0	3	118	109	20	--	--
FEB 2000									
22...	1.6	.5	<1.0	8	105	100	E15	--	--
MAY									
11...	3.4	1.9	3.1	--	112	96	22	.88	14
AUG									
09...	4.5	.5	<1.2	--	113	89	27	.76	14

E Estimated value.
< Actual value is known to be less than the value shown.

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1040	490	800	380
JUL				
05...	1020	330	100	310
JUL 2000				
12...	1020	230	200	410
19...	1030	490	400	240
26...	1005	>24000	4700	6300

> Actual value is known to be greater than the value shown.

01407630 POPLAR BROOK AT DEAL, NJ

LOCATION.--Lat 40°15'23", long 73°59'48", Monmouth County, Hydrologic Unit 02030104, at bridge on Almyr Avenue in Deal, 0.2 mi south of intersection of Almyr Avenue and Roosevelt Avenue, and 0.4 mi upstream of mouth.

DRAINAGE AREA.--3.36 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
18...	1000	772	75	9.8	7.3	248	4.5	.083	.067	93
FEB 2000										
15...	1000	764	87	11.3	6.9	310	4.5	.109	.090	75
MAY										
16...	1000	768	84	8.9	7.6	243	13.0	.090	.066	84
AUG										
30...	0930	768	94	8.8	7.3	237	19.0	.094	.072	77

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999									
18...	32.7	2.64	2.8	9.3	53	19.4	.4	23.3	34.3
FEB 2000									
15...	25.7	2.66	2.7	27.4	24	51.1	.3	17.6	41.9
MAY									
16...	29.4	2.47	2.8	11.6	49	25.5	.3	19.8	29.0
AUG									
30...	27.1	2.31	2.8	11.0	47	21.2	.3	22.0	26.8

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
18...	.17	.31	.07	.050	.41	.28	.102	<.003	.010
FEB 2000									
15...	.28	.36	.11	.120	.71	.63	.346	<.003	.007
MAY									
16...	.30	.46	.10	.150	.69	.54	.238	.005	.026
AUG									
30...	.30	.28	.06	<.030	.61	.63	.329	.007	.026

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
18...	.412	2.3	.5	<1.0	19	161	157	37	--
FEB 2000									
15...	.165	2.5	<.2	E1.3	11	200	186	29	--
MAY									
16...	.183	3.0	.3	E2.2	--	167	152	29	7
AUG									
30...	.163	2.8	.4	<1.0	--	164	143	35	3

E Estimated value.
< Actual value is known to be less than the value shown.

01407630 POPLAR BROOK AT DEAL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
30...	0930	--	--	--	--	--	--	<3	24.5	<1	38
30...	0930	7.00	100	1.2	2400	2.9	.3	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000											
30...	<1.0	<1	<1	2100	<1	66	<.3	2	<1	<1	6
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
AUG 2000											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	4	.3	46	2.3	9	36000	130	81	<.01	7.5	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	80	<50	<50	<50	<50	<50	<50	E10	E30	E30	E40

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	E10	E30	E40	M	90	E30	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
30...	--	--	--	--	--	--	--	--	--	--
30...	<50	<50	<5	<50	<50	50	M	<50	70	0

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01407630 POPLAR BROOK AT DEAL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000 15...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000 15...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000 15...	<.10	.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 16...	1000	<.002	<.002	.013	<.002	<.002	E.014	<.003	E.003	<.004	<.002	E.008

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 16...	.008	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 16...	<.006	.016	E.014	<.003	<.007	<.004	.006	E.004	<.007	<.001	E.001

E Estimated value.
< Actual value is known to be less than the value shown.

01407630 POPLAR BROOK AT DEAL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	0955	>24000	5000	3500
10...	1040	1300	1500	530
17...	1035	1300	500	210
24...	0945	340	900	330
31...	0950	3500	1000	80

> Actual value is known to be greater than the value shown.

01407720 JUMPING BROOK AT GREEN GROVE, NJ

LOCATION.--Lat 40°14'10", long 74°04'56", Monmouth County, Hydrologic Unit 02030104, at bridge on Essex Road, 160 ft southwest of intersection of Essex Road and Asbury Ave, 0.3 mi northwest of Green Grove, 0.3 mi southeast of Garden State Parkway, and 1.9 mi upstream of confluence with Hankins Brook.

DRAINAGE AREA.--2.58 mi^2.

PERIOD OF RECORD.--November 1999 to September 2000.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
17...	0930	761	60	7.5	6.0	200	6.0	.060	.047	41
FEB 2000										
02...	1000	762	--	11.9	5.9	--	.0	.079	.063	83
MAY										
18...	0930	764	72	7.3	5.9	232	15.0	.131	.092	29
SEP										
12...	1000	764	54	5.0	6.5	187	19.5	.128	.097	40

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
17...	11.4	3.00	2.5	17.7	7	26.8	<.1	8.1	33.0
FEB 2000									
02...	24.6	5.21	5.8	271	3	466	<.1	5.1	23.4
MAY									
18...	8.29	2.11	2.2	27.4	6	47.7	<.1	6.1	20.7
SEP									
12...	12.0	2.38	2.6	16.4	16	26.6	<.1	6.2	20.5

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
17...	.47	.44	.15	.120	.99	1.0	.548	<.003	.063
FEB 2000									
02...	.61	.70	.27	.290	1.2	1.1	.507	<.003	E.006
MAY									
18...	.30	.43	<.03	<.030	.75	.62	.322	<.003	E.006
SEP									
12...	.36	.53	.09	.070	1.1	.98	.614	<.003	E.005

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
17...	E.006	3.1	.4	E1.2	9	112	109	50	--
FEB 2000									
02...	.026	3.1	.5	2.4	10	856	806	27	--
MAY									
18...	.020	4.3	.7	E1.1	--	132	119	30	3
SEP									
12...	.061	5.7	.5	<1.8	--	104	99	35	17

E Estimated value.
< Actual value is known to be less than the value shown.

01407720 JUMPING BROOK AT GREEN GROVE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
SEP 2000										
12...	*0900*	*FIELD BLANK*	--	--	--	--	--	--	*<1*	--
12...	1000	ENVIRONMENTAL	E1	34.0	<1	40	<1.0	1	--	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000												
12...	--	*<1*	--	--	*<.2*	--	*<1*	--	--	--	*<1*	--
12...	4300	--	4	59	--	<.3	--	3	<1	<1	--	18

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000												
02...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
02...	<.20	<.10	<.2	.13	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
02...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.20

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
18...	0930	<.002	<.002	.036	E.004	<.002	E.021	<.003	.005	<.004	<.002	E.020

E Estimated value.
< Actual value is known to be less than the value shown.

01407720 JUMPING BROOK AT GREEN GROVE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DISSOLVED (UG/L) (39572)	DI-ELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DISSOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
18...	.016	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.010	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
18...	<.006	.014	.043	<.003	<.007	<.004	.011	<.010	<.007	<.001	E.004

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	1020	110	500	3100
10...	1100	170	100	240

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
17...	1105	170	100	110
24...	1000	200	100	50
31...	1015	330	500	50

E Estimated value.
< Actual value is known to be less than the value shown.

01407868 LONG BROOK AT WYCKOFF MILLS, NJ

LOCATION.--Lat 40°12'33", long 74°15'49", Monmouth County, Hydrologic Unit 02040301, at bridge on Strickland Road, 0.3 mi west of intersection with U.S. Route 9, 0.6 mi north of Wyckoff Mills, and 0.6 mi upstream of mouth and Manasquan River.

DRAINAGE AREA.--1.90 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
04...	1130	1.6	765	88	10.3	--	168	8.5	.193	.152
FEB 2000										
09...	1230	.57	762	97	14.0	6.7	471	.5	.050	.039
MAY										
03...	0920	.81	766	87	9.5	6.8	253	11.5	.092	.077
AUG										
07...	1210	1.3	759	78	6.7	7.1	159	22.5	.226	.170

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
04...	47	11.2	4.67	4.5	7.5	16	16.6	<.1	15.7	29.9
FEB 2000										
09...	93	23.3	8.52	5.8	46.7	14	93.9	<.1	9.3	50.9
MAY										
03...	77	18.0	7.68	3.9	11.8	20	24.6	.1	6.4	47.9
AUG										
07...	48	12.5	4.16	3.7	7.6	24	14.9	.1	6.0	21.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
04...	.31	.44	.03	<.030	.63	.50	.188	<.003	.024	.077
FEB 2000										
09...	.30	.31	.14	.120	2.2	2.2	1.86	.009	E.004	.025
MAY										
03...	.22	.38	.03	.030	1.2	1.1	.857	.007	E.003	.042
AUG										
07...	.48	.64	.03	<.030	1.1	.98	.506	.006	.039	.093

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
04...	5.3	.5	E1.2	4	108	101	28	--	--
FEB 2000									
09...	1.8	.3	<1.4	6	266	256	35	--	--
MAY									
03...	3.1	.3	E1.3	--	147	136	36	.01	6
AUG									
07...	6.0	<.2	<1.4	--	104	87	30	.00	1

E Estimated value.
< Actual value is known to be less than the value shown.

01407868 LONG BROOK AT WYCKOFF MILLS, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	0910	>24000	5100	3200
10...	0915	2400	1300	500
17...	0920	1300	700	130
24...	0926	16000	2900	380
31...	0938	790	900	300

> Actual value is known to be greater than the value shown.

01408000 MANASQUAN RIVER AT SQUANKUM, NJ

LOCATION.--Lat 40°09'47", Long 74°09'21", Monmouth County, Hydrologic Unit 02040301, on right bank 50 ft upstream from northbound bridge on State Highway 547 (Squankum Park Road) in Squankum, and 0.4 mi downstream from Marsh Bog Brook.

DRAINAGE AREA.--44.0 mi^2.

PERIOD OF RECORD.--Water years 1963-81, 1991 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1969 to September 1974.
pH: July 1969 to September 1974.
WATER TEMPERATURE: July 1969 to September 1974.
DISSOLVED OXYGEN: August 1969 to September 1974.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	1000	31	771	93	10.1	7.5	228	12.0	.027	.021
FEB 2000										
29...	1000	57	767	98	12.0	6.9	255	7.0	.031	.022
MAY										
23...	1000	76	758	89	9.3	7.0	195	13.0	.065	.041
AUG										
15...	1000	83	768	87	8.3	7.0	156	18.0	.115	.087

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
22...	84	27.9	3.38	2.9	7.8	39	18.4	.1	18.0	37.3
FEB 2000										
29...	64	20.2	3.36	2.9	18.4	20	35.4	.1	14.7	36.3
MAY										
23...	57	18.0	2.97	3.1	9.5	19	20.8	.1	14.3	29.7
AUG										
15...	45	14.4	2.22	3.3	7.1	21	12.9	.2	11.5	20.6

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
22...	.11	.17	<.03	<.030	.38	.31	.204	<.003	E.004	.025
FEB 2000										
29...	.16	.18	<.03	<.030	.73	.72	.557	<.003	E.003	.047
MAY										
23...	.26	.39	<.03	.050	.85	.73	.467	.006	E.004	.113
AUG										
15...	.34	.51	<.03	<.030	1.1	.88	.548	<.003	.022	.168

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
22...	1.4	.3	E1.4	2	149	140	25	--	--
FEB 2000									
29...	1.7	.3	E2.0	2	153	146	29	--	--
MAY									
23...	2.6	.8	2.0	--	125	112	33	2.8	14
AUG									
15...	4.0	1.3	E1.7	--	109	87	33	6.2	28

E Estimated value.
< Actual value is known to be less than the value shown.

01408000 MANASQUAN RIVER AT SQUANKUM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	1055	2400	2600	1500
10...	1145	170	400	230
17...	1135	790	300	180
24...	1045	400	300	90
31...	1045	700	500	180

E Estimated value.
< Actual value is known to be less than the value shown.

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

LOCATION.--Lat 40°12'45", long 74°10'07", Monmouth County, Hydrologic Unit 02040301, at bridge on Cranberry Bog Road, 0.6 mi upstream from Branch Mingamahone Brook, and 1.7 mi west of Earle.

DRAINAGE AREA.--3.32 mi^2.

PERIOD OF RECORD.--Water years 1971-74, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	1110	3.9	766	78	9.4	5.9	144	7.5	.114	.103
FEB 2000										
08...	1145	3.6	774	89	12.5	6.5	128	2.0	.064	.058
MAY										
11...	1050	6.5	756	79	8.1	6.2	104	14.0	.141	.112
AUG										
09...	0910	2.2	759	79	7.2	6.5	123	19.5	.256	.205

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	39	12.5	1.91	1.8	5.6	14	11.6	<.1	17.5	24.1
FEB 2000										
08...	32	9.85	1.73	1.6	6.3	9	12.1	<.1	15.4	20.2
MAY										
11...	25	7.73	1.41	1.8	5.5	7	11.0	<.1	12.5	16.6
AUG										
09...	35	11.6	1.55	1.7	5.4	16	10.1	.1	16.7	16.2

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	E.10	.11	.04	.030	--	--	<.037	.006	<.007	.035
FEB 2000										
08...	E.10	.13	<.03	<.030	.22	--	.089	<.003	E.003	.028
MAY										
11...	.14	.33	<.03	<.030	.41	.22	.081	<.003	<.007	.046
AUG										
09...	.22	.36	<.03	<.030	--	--	<.037	<.003	.015	.056

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
08...	2.3	.5	<1.0	11	94	84	21	--	--
FEB 2000									
08...	1.3	.4	E1.6	6	79	73	E9	--	--
MAY									
11...	3.4	2.9	2.1	--	73	61	22	.43	24
AUG									
09...	5.1	2.2	>4.4	--	102	73	25	.11	19

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	1040	460	300	140
10...	1125	220	100	100
17...	1120	90	300	20
24...	1025	80	100	30
31...	1016	170	300	260
31...	1030	330	400	40

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ

LOCATION.--Lat 40°06'35", long 74°13'10", Ocean County, Hydrologic Unit 02040301, at highway bridge on U.S. Route 9, 0.3 mi north of County Line Road in Lakewood, and 3.6 mi upstream from Muddy Ford Brook.

DRAINAGE AREA.--19.4 mi^2.

PERIOD OF RECORD.--Water years 1959-63, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	1050	17	766	85	10.2	5.9	137	7.5	.169	.131
FEB 2000										
09...	0850	20	760	95	13.8	6.4	192	.0	.104	.080
MAY										
03...	1020	17	768	88	9.1	6.7	142	14.0	.220	.179
AUG										
07...	0900	30	759	78	6.9	6.5	93	21.0	.320	.247

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	32	9.76	1.91	2.0	9.3	9	16.6	<.1	9.5	21.0
FEB 2000										
09...	31	9.35	1.85	2.1	19.9	9	35.9	<.1	9.2	16.2
MAY										
03...	28	8.64	1.68	2.0	11.9	12	21.0	<.1	5.9	13.4
AUG										
07...	21	6.34	1.20	1.5	6.9	9	11.5	<.1	6.6	9.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	.16	.28	.06	<.030	.55	.44	.277	<.003	E.006	.028
FEB 2000										
09...	.20	.27	<.03	.040	.87	.80	.599	<.003	E.005	.034
MAY										
03...	.21	.34	<.03	.040	.83	.70	.493	<.003	E.006	.039
AUG										
07...	.37	.58	<.03	<.030	.96	.75	.385	<.003	.030	.093

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
08...	4.7	.4	3.1	2	88	77	19	--	--
FEB 2000									
09...	3.0	.6	E1.5	8	110	103	17	--	--
MAY									
03...	5.1	.3	<1.0	--	85	74	24	.14	3
AUG									
07...	7.6	1.8	<1.3	--	73	50	17	1.0	13

E Estimated value.
< Actual value is known to be less than the value shown.

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
10...	0643	1300	500	290
15...	0945	5400	6400	2700
24...	0651	1400	400	200
31...	0644	1700	600	120

01408285 MAPLE ROOT BRANCH AT BOWMAN ROAD NEAR HOLMANSVILLE, NJ

LOCATION.--Lat 40°04'52", long 74°19'37", Ocean County, Hydrologic Unit 02040301, at bridge on Bowman Road, 0.7 mi upstream from mouth, 1.5 mi southwest of Holmansville, and 2.4 mi northeast of intersection of Bowman Road and Cassville-Toms River Road in Jackson Township.

DRAINAGE AREA.--5.63 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV 1999												
16...	1100	749	51	6.3	4.3	76	6.0	.667	.524	5	.76	.65
FEB 2000												
09...	0900	766	54	7.9	3.7	63	.0	.440	.347	4	.72	.65
JUN												
01...	1000	760	54	5.6	3.9	59	13.5	.782	.609	3	.46	.41
AUG												
29...	1000	766	29	2.7	4.1	56	18.5	.959	.754	2	.42	.34

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
NOV 1999												
16...	.3	2.8	<1	5.2	<.1	6.5	7.0	.34	.41	.05	.030	--
FEB 2000												
09...	.3	2.7	<1	4.8	<.1	6.0	9.8	.27	.30	<.03	<.030	.34
JUN												
01...	E.2	2.4	<1	4.8	<.1	5.2	6.4	.38	.38	<.03	<.030	--
AUG												
29...	E.2	2.1	<1	5.2	<.1	7.3	3.5	.58	.46	<.03	<.030	--

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999												
16...	--	<.037	<.003	E.005	E.007	14	.5	<1.0	1	39	E10	--
FEB 2000												
09...	.31	.041	E.003	.008	.011	--	.6	2.8	6	38	E8	--
JUN												
01...	--	<.037	<.003	.007	E.007	17	.3	<1.2	--	35	E12	1
AUG												
29...	--	E.021	E.003	.014	.018	18	.4	E2.1	--	51	<16	7

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
29...	1000	--	--	--	--	--	--	E1	13.6	<1	<12
29...	1000	4.60	61	1.1	490	5.0	<.2	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01408285 MAPLE ROOT BRANCH AT BOWMAN ROAD NEAR HOLMANSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
29...	<1.0	2	<1	1240	3	6	<.3	<1	<1	<1	11
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	<1	<.1	25	<.5	<2	1500	10	13	<.01	7.4	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	5	<50	<50	<50	<50	<50	<50	M	M	M	E10

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	E10	<50	E10	<50	E20	E10	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
29...	--	--	--	--	--	--	--	--	--	--
29...	<50	<50	<5	<50	<50	E10	<50	M	E20	2

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
09...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01408285 MAPLE ROOT BRANCH AT BOWMAN ROAD NEAR HOLMANSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 09...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 09...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000 01...	1000	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000 01...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000 01...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

< Actual value is known to be less than the value shown.

01408285 MAPLE ROOT BRANCH AT BOWMAN ROAD NEAR HOLMANSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
15...	1015	170	300	10
15...	1040	490	900	230
24...	0719	230	<100	80

< Actual value is known to be less than the value shown.

01408500 TOMS RIVER NEAR TOMS RIVER, NJ

LOCATION.--Lat 39°59'10", long 74°13'29", Ocean County, Hydrologic Unit 02040301, New Jersey Department of Environmental Protection Watershed Management Area 13, on left bank 500 ft downstream from bridge on State Route 527 (Oak Ridge Parkway), 1.9 mi downstream from Union Branch, and 2.6 mi northwest of community of Toms River.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1974 to September 1981.
WATER TEMPERATURE: November 1963 to May 1966, November 1974 to September 1981.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
DEC 1999										
08...	1000	190	772	91	11.2	5.3	81	7.0	.299	.236
FEB 2000										
15...	0800	211	765	104	13.5	5.4	85	4.5	.215	.168
JUN										
06...	1000	150	758	86	8.4	6.0	82	16.0	.354	.282
AUG										
08...	1000	205	763	82	7.2	4.7	74	22.0	.770	.601

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999										
08...	12	2.79	1.27	1.3	8.1	3	12.4	<.1	5.8	10.3
FEB 2000										
15...	12	2.75	1.25	1.1	8.9	<1	13.3	<.1	5.0	9.7
JUN										
06...	12	2.62	1.38	1.3	9.5	3	12.5	<.1	4.3	9.1
AUG										
08...	10	2.35	1.04	1.2	6.8	<1	9.8	<.1	5.1	8.0

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 1999										
08...	.36	.41	.09	.100	.83	.78	.422	<.003	E.004	.019
FEB 2000										
15...	.35	.43	.13	.140	.97	.89	.538	<.003	E.006	.013
JUN										
06...	.53	.57	.42	.240	1.2	1.1	.617	.008	.012	.037
AUG										
08...	.58	.67	.05	.070	.95	.86	.283	<.003	.012	.032

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
08...	6.6	.5	2.1	4	59	46	E15	--	--
FEB 2000									
15...	5.2	.3	E1.1	4	58	--	E13	--	--
JUN									
06...	6.7	.3	E1.0	--	59	45	19	1.8	4
AUG									
08...	16	1.3	E1.9	--	70	--	E15	8.7	16

E Estimated value.
< Actual value is known to be less than the value shown.

01408500 TOMS RIVER NEAR TOMS RIVER, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
10...	0700	220	300	20
24...	0700	20	200	60
31...	0710	20	<100	60

< Actual value is known to be less than the value shown.

01408830 CEDAR CREEK AT CEDAR CREST, NJ

LOCATION.--Lat 39°53'50", long 74°19'00", Ocean County, Hydrologic Unit 02040301, at bridge on Whiting-Lacey Road in Cedar Crest, 0.2 mi downstream from outlet of Bamber Lake, and 3.7 mi southeast of Keswick Grove.

DRAINAGE AREA.--20.1 mi^2.

PERIOD OF RECORD.--Water years 1977-78, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
17...	1120	22	760	94	12.3	--	27	4.0	.139	.110
FEB 2000										
17...	1210	25	772	96	12.6	4.7	31	4.5	.202	.161
MAY										
08...	1120	35	756	103	8.7	4.8	28	23.5	.189	.151
AUG										
02...	1240	39	760	96	8.0	4.6	30	24.5	.414	.327

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999									
17...	3	.56	.32	.4	1.9	1	4.0	<.1	5.7
FEB 2000									
17...	4	.70	.50	.4	2.4	1	3.9	<.1	5.0
MAY									
08...	3	.63	.44	.3	2.3	2	3.8	<.1	2.1
AUG									
02...	3	.63	.42	.3	2.2	<1	4.0	<.1	4.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999									
17...	3.1	E.10	.16	.03	<.030	<.037	<.003	<.007	<.008
FEB 2000									
17...	4.0	.10	.18	<.03	<.030	<.037	<.003	<.007	<.008
MAY									
08...	2.7	E.10	.13	<.03	<.030	E.021	<.003	<.007	<.008
AUG									
02...	2.4	.21	.21	<.03	<.030	<.037	<.003	<.007	E.004

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
17...	3.0	.2	<1.0	2	16	17	E13	--	--
FEB 2000									
17...	4.3	.2	<1.0	<1	25	18	<16	--	--
MAY									
08...	4.7	.3	<1.0	--	24	13	<16	.09	1
AUG									
02...	9.5	.3	<1.0	--	32	--	E9	.37	4

E Estimated value.
< Actual value is known to be less than the value shown.

01408830 CEDAR CREEK AT CEDAR CREST, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
10...	0710	40	<100	10
15...	1245	90	200	<10
24...	0730	20	<100	<10
31...	0645	<20	<100	10

< Actual value is known to be less than the value shown.

01409050 NORTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ

LOCATION.--Lat 39°51'27", long 74°13'21", Ocean County, Hydrologic Unit 02040301, at bridge on northbound lane of Garden State Parkway, 2.0 mi northwest of Forked River, 2.3 mi west of Murray Grove, and 3.1 mi above mouth.

DRAINAGE AREA.--13.4 mi^2.

PERIOD OF RECORD.--Water years 1962-65, 1999 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
DEC 1999												
01...	1000	770	91	11.8	4.0	50	5.0	.195	.155	4	.57	.69
MAR 2000												
01...	1000	765	96	12.0	4.2	51	6.0	.257	.202	4	.48	.63
MAY												
04...	1000	771	84	9.4	5.1	42	11.0	.231	.180	3	.49	.55
AUG												
02...	0830	764	74	7.0	4.2	41	18.0	.541	.429	3	.36	.45

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
DEC 1999												
01...	.4	3.2	<1	5.6	<.1	5.1	5.0	E.10	E.10	<.03	<.030	--
MAR 2000												
01...	.4	3.0	<1	4.4	<.1	4.6	4.8	.15	.14	<.03	<.030	--
MAY												
04...	.3	3.0	<1	5.1	<.1	2.5	4.6	E.10	.13	<.03	<.030	--
AUG												
02...	.3	2.7	--	5.1	<.1	5.0	2.9	.25	.26	<.03	<.030	.30

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999												
01...	--	.043	<.003	E.005	<.008	4.8	<.2	E1.2	<1	34	<16	--
MAR 2000												
01...	--	E.030	<.003	<.007	<.008	5.9	<.2	<1.0	<1	29	<16	--
MAY												
04...	--	E.026	<.003	<.007	<.008	5.2	<.2	<1.2	--	25	E11	1
AUG												
02...	.29	.041	.010	<.007	<.008	11	<.2	<1.0	--	36	E9	2

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
02...	0830	--	--	--	--	--	--	<3	14.0	<1	<12
02...	0830	4.90	20	.8	<40	.8	<.2	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01409050 NORTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
02...	<1.0	<1	<1	220	1	3	<.3	<1	<1	<1	4
02...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	<1	<.1	1.2	<.2	<2	1600	3.5	6.0	<.01	E.5	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	<3	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	<50	<50	<50	<50	E20	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
02...	--	--	--	--	--	--	--	--	--	--
02...	<50	<50	<5	<50	<50	M	<50	<50	E10	0

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
MAR 2000												
01...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01409050 NORTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
MAR 2000												
01...	<.20	<.10	<.2	.46	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
MAR 2000											
01...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
04...	1000	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
04...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
04...	<.006	<.004	<.018	<.003	<.007	<.004	<.008	<.010	<.007	<.001	<.002

< Actual value is known to be less than the value shown.

01409050 NORTH BRANCH FORKED RIVER NEAR FORKED RIVER, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLIFORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTEROCOCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
15...	1115	140	100	10

01409375 MULLICA RIVER NEAR ATCO, NJ

LOCATION.--Lat 39°47'08", long 74°51'38", Camden County, Hydrologic Unit 02040301, at bridge on Jackson-Medford Road, and 1.8 mi northeast of CONRAIL railroad tracks and Atco Street in Atco.

DRAINAGE AREA.--3.22 mi^2.

PERIOD OF RECORD.--Water years 1977-78, 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1129	.60	754	95	9.2	6.7	110	16.5	16	3.72
FEB 2000										
24...	1050	2.1	767	99	11.8	6.7	--	8.0	19	4.56
JUN										
27...	1230	.21	759	92	7.0	7.2	123	29.5	18	4.30
SEP										
12...	1220	.97	756	101	8.1	6.0	100	26.0	14	3.03

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	1.70	18.2	8.9	.42	<.029	.49	.064	<.010	.010	68
FEB 2000										
24...	1.78	26.7	9.0	.26	<.029	.71	.453	<.010	.012	76
JUN										
27...	1.77	20.1	5.4	.49	.039	--	<.037	<.010	.015	76
SEP										
12...	1.59	17.0	6.2	.45	E.020	--	<.037	<.010	.014	63

E Estimated value.
< Actual value is known to be less than the value shown.

01409387 MULLICA RIVER AT OUTLET OF ATSION LAKE, AT ATSION, NJ

LOCATION.--Lat 39°44'25", long 74°43'37", Burlington County, Hydrologic Unit 02040301, at bridge on U.S. Route 206 in Atsion, at outlet of Atsion Lake, and 0.2 mi upstream from Wesickaman Creek.

DRAINAGE AREA.--26.7 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
15...	0930	30	754	96	11.0	4.5	55	9.0	.152	.115
FEB 2000										
09...	0920	32	766	88	11.7	4.5	56	3.5	.174	.132
MAY										
02...	1210	2.3	759	93	9.0	5.4	47	17.0	.246	.194
AUG										
17...	1150	58	763	92	7.9	4.6	42	23.0	.347	.270

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
15...	7	1.41	.80	.6	3.2	<1	5.7	<.1	5.0	8.8
FEB 2000										
09...	7	1.38	.80	.7	3.3	<1	6.3	<.1	4.9	7.5
MAY										
02...	6	1.40	.65	.6	3.5	1	6.6	<.1	3.4	5.6
AUG										
17...	5	1.15	.57	.5	2.8	<1	5.4	<.1	5.2	3.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
15...	.13	.16	.07	.060	.25	.22	.094	<.003	<.007	<.008
FEB 2000										
09...	.21	.16	<.03	<.030	.30	.35	.140	<.003	<.007	E.004
MAY										
02...	.17	.25	<.03	<.030	.33	.24	.075	<.003	<.007	E.007
AUG										
17...	.27	.45	<.03	<.030	.49	.31	.041	<.003	<.007	.014

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
15...	4.1	.3	E1.1	2	26	--	18	--	--
FEB 2000									
09...	4.6	.3	<1.4	5	30	--	21	--	--
MAY									
02...	5.7	.7	E1.8	--	29	23	E14	.03	6
AUG									
17...	8.2	2.8	E1.0	--	36	--	E15	1.1	7

E Estimated value.
< Actual value is known to be less than the value shown.

01409401 HAYS MILL CREEK AT ATCO, NJ

LOCATION.--Lat 39°45'32", long 74°53'02", Camden County, Hydrologic Unit 02040301, at bridge on U.S. Route 30, at outlet of Atco Lake in Atco, and 3.3 mi southeast of Berlin.

DRAINAGE AREA.--3.80 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1045	.68	756	85	8.3	6.8	118	16.0	23	4.84
FEB 2000										
24...	1010	2.2	767	101	12.0	6.5	--	8.0	25	5.75
JUN										
27...	1020	2.3	758	38	3.0	7.0	98	27.0	22	4.88
SEP										
12...	1110	1.6	758	63	5.2	6.0	98	24.5	18	3.60

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	2.53	18.6	9.2	.31	E.019	.59	.280	<.010	.010	67
FEB 2000										
24...	2.57	43.2	8.2	.79	<.029	1.7	.900	<.010	.011	104
JUN										
27...	2.27	16.1	4.6	.42	.040	--	E.035	<.010	.017	73
SEP										
12...	2.14	17.6	4.4	.53	E.024	--	<.037	<.010	.033	58

E Estimated value.
< Actual value is known to be less than the value shown.

01409402 HAYS MILL CREEK NEAR CHESILHURST, NJ

LOCATION.--Lat 39°45'02", long 74°50'28", Camden County, Hydrologic Unit 02040301, at bridge on Tremont Avenue in Wharton State Forest, 0.3 mi northeast of Burnt Mill Road, and 2.0 mi northeast of Chesilhurst.

DRAINAGE AREA.--7.13 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1257	6.0	751	77	7.8	6.3	104	14.0	17	3.52
FEB 2000										
24...	1210	11	767	86	10.0	6.2	--	9.0	18	4.08
JUN										
27...	1120	6.1	760	81	7.3	7.0	102	20.0	17	3.89
SEP										
12...	1310	5.4	755	86	8.1	5.7	96	18.0	15	3.33

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	1.92	16.5	6.3	.24	<.029	1.2	.992	<.010	E.006	65
FEB 2000										
24...	1.90	27.0	7.4	.22	<.029	1.5	1.24	<.010	.008	78
JUN										
27...	1.86	14.6	3.8	.30	.038	1.3	1.00	<.010	.016	62
SEP										
12...	1.73	15.0	4.2	.17	<.029	1.3	1.16	.024	.008	52

E Estimated value.
< Actual value is known to be less than the value shown.

0140940370 SLEEPER BRANCH NEAR ATSION, NJ

LOCATION.--Lat 39°43'42", long 74°46'12", Camden County, Hydrologic Unit 02040301, at bridge on Burnt House Road, 500 ft downstream from Saltars Ditch, and 2.3 mi west of Atsion.

DRAINAGE AREA.--16.1 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1332	16	753	83	8.5	4.9	58	13.5	9	1.81
FEB 2000										
24...	1230	25	768	101	12.2	4.9	85	7.5	11	2.27
JUN										
27...	1210	13	759	87	7.6	6.5	63	22.0	11	2.19
SEP										
12...	1220	10	762	92	8.6	6.6	62	19.0	11	2.21

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	1.16	9.9	4.6	.24	E.017	.59	.346	<.010	<.008	45
FEB 2000										
24...	1.31	14.1	6.2	.28	<.029	.93	.654	<.010	E.006	52
JUN										
27...	1.27	9.9	2.6	.34	.035	.86	.516	<.010	.019	52
SEP										
12...	1.28	9.7	2.8	.18	E.019	.90	.723	<.010	.008	37

E Estimated value.
< Actual value is known to be less than the value shown.

0140940480 CLARK BRANCH NEAR ATSION, NJ

LOCATION.--Lat 39°42'53", long 74°46'25", Camden County, Hydrologic Unit 02040301, at railroad bridge, 0.2 mi downstream from Price Branch tributary, and 2.8 mi west of Atsion.

DRAINAGE AREA.--6.42 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1234	3.0	755	41	4.4	3.8	50	12.0	9	1.92
FEB 2000										
24...	1150	7.0	768	90	11.8	4.7	62	4.5	12	2.37
JUN										
27...	1120	1.8	758	48	4.2	4.8	45	21.5	7	1.50
SEP										
12...	1100	.37	762	52	4.9	4.9	38	18.5	6	1.35

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	1.09	6.2	5.7	.35	<.029	--	<.037	<.010	<.008	45
FEB 2000										
24...	1.40	6.1	9.4	.19	<.029	.43	.241	<.010	<.008	36
JUN										
27...	.76	6.9	1.6	.64	.038	--	E.023	<.010	.010	62
SEP										
12...	.72	6.0	1.2	.53	.037	--	E.032	<.010	.012	54

E Estimated value.
< Actual value is known to be less than the value shown.

01409408 PUMP BRANCH NEAR WATERFORD WORKS, NJ

LOCATION.--Lat 39°41'59", long 74°50'40", Camden County, Hydrologic Unit 02040301, at bridge on Old White Horse Pike, 0.5 mi downstream from lake at Camp Ha-Lu-Wa-Sa, and 1.6 mi south of Waterford Works.

DRAINAGE AREA.--9.78 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	0915	6.3	756	70	6.9	6.3	82	16.0	16	2.68
FEB 2000										
24...	0900	1.2	767	61	7.0	6.0	81	9.5	16	2.86
JUN										
27...	0930	7.7	758	55	4.4	6.5	79	26.0	17	3.05
SEP										
12...	0940	7.8	756	49	4.2	--	83	23.0	17	2.86

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	2.31	13.0	3.1	.26	.044	1.1	.792	<.010	.012	46
FEB 2000										
24...	2.14	15.7	2.5	.19	.073	2.1	1.92	<.010	.008	48
JUN										
27...	2.22	12.6	2.0	.54	.067	.82	.275	<.010	.020	59
SEP										
12...	2.38	12.8	2.4	.39	.035	.68	.285	<.010	.018	46

< Actual value is known to be less than the value shown.

0140940950 BLUE ANCHOR BROOK AT ELM, NJ

LOCATION.--Lat 39°40'11", long 74°50'06", Camden County, Hydrologic Unit 02040301, at bridge on U.S. Route 30 at Elm, at outlet of Winslow Lake, and 1.4 mi upstream from confluence with Pump Branch.

DRAINAGE AREA.--4.86 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories on dates: 11-17, 2-7, 5-2, and 8-15. Field data and samples for laboratory analyses on dates: 11-2, 2-24, 6-27, and 9-12, were collected in cooperation with the New Jersey Pinelands Commission.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and New Jersey Pinelands Commission Network site, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
02...	0903	2.4	757	94	9.2	6.3	81	16.0	--	--
17...	1250	1.7	758	95	12.1	6.8	79	5.0	.155	.123
FEB 2000										
07...	1150	1.9	762	108	14.0	6.7	139	4.5	.088	.072
24...	0920	3.5	767	105	12.5	6.9	82	8.0	--	--
MAY										
02...	0930	3.8	755	104	10.0	7.5	72	17.0	.227	.187
JUN										
27...	0920	4.7	757	75	5.8	6.9	66	28.5	--	--
AUG										
15...	1250	6.0	761	100	8.5	--	56	23.5	.177	.141
SEP										
12...	0850	1.9	762	86	7.1	6.9	66	25.0	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
02...	14	3.06	1.57	--	--	--	10.1	--	--	8.8
17...	13	2.71	1.43	1.9	7.8	11	11.0	<.1	1.6	7.3
FEB 2000										
07...	16	3.67	1.75	1.6	16.4	9	27.8	<.1	1.8	5.6
24...	13	2.97	1.32	--	--	--	11.3	--	--	6.2
MAY										
02...	14	3.19	1.52	1.5	6.5	11	8.8	<.1	1.6	5.5
JUN										
27...	12	2.68	1.36	--	--	--	8.6	--	--	2.6
AUG										
15...	11	2.30	1.32	1.1	5.5	9	7.8	<.1	2.2	3.6
SEP										
12...	12	2.46	1.49	--	--	--	8.5	--	--	6.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV 1999										
02...	--	.31	--	.047	.52	--	.207	--	--	<.010
17...	.28	.44	.07	.080	.70	.54	.263	.004	.012	--
FEB 2000										
07...	.15	.20	<.03	<.030	1.1	1.0	.850	<.003	E.004	--
24...	--	.34	--	E.024	.84	--	.500	--	--	<.010
MAY										
02...	.30	.51	<.03	<.030	.68	.48	.174	<.003	.016	--
JUN										
27...	--	.96	--	.076	--	--	<.037	--	--	<.010
AUG										
15...	.29	.42	<.03	>.100	--	--	E.022	<.003	.017	--
SEP										
12...	--	.46	--	.078	--	--	<.037	--	--	<.010

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

0140940950 BLUE ANCHOR BROOK AT ELM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999										
02...	.028	--	--	--	--	51	--	--	--	--
17...	.033	3.4	.8	E1.0	<1	47	41	24	--	--
FEB 2000										
07...	.013	1.9	.2	E1.2	<1	79	68	E12	--	--
24...	.027	--	--	--	--	41	--	--	--	--
MAY										
02...	.038	5.2	1.1	E1.0	--	45	36	17	.06	6
JUN										
27...	.110	--	--	--	--	45	--	--	--	--
AUG										
15...	.044	3.7	<.2	E1.6	--	41	29	E16	.07	4
SEP										
12...	.040	--	--	--	--	36	--	--	--	--

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
01...	1000	<20	<100	10
08...	1015	<20	<100	10
15...	1010	20	200	10
22...	1030	<20	<100	<10
29...	1115	<20	<100	<10

E Estimated value.
< Actual value is known to be less than the value shown.

0140940970 ALBERTSON BRANCH NEAR ELM, NJ

LOCATION.--Lat 39°41'34", long 74°48'24", Camden County, Hydrologic Unit 02040301, at bridge on Fleming Pike, 0.4 mi downstream from confluence of Blue Anchor Brook and Pump Branch, and 1.6 mi northeast of Elm.

DRAINAGE AREA.--17.1 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999										
02...	1057	17	756	76	7.7	5.7	74	14.5	15	2.71
FEB 2000										
24...	1000	18	769	90	10.9	6.0	85	7.5	15	2.89
JUN										
27...	1010	20	757	76	6.5	6.5	74	23.0	16	3.02
SEP										
12...	0940	13	762	77	7.0	6.5	71	20.0	15	2.88

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
NOV 1999										
02...	1.95	11.0	5.9	.22	<.029	.81	.595	<.010	E.004	44
FEB 2000										
24...	1.83	12.5	6.1	.15	--	1.2	1.06	<.010	.008	46
JUN										
27...	2.01	10.6	3.2	.34	.031	.61	.267	<.010	.016	52
SEP										
12...	1.99	10.4	3.8	.27	E.018	.60	.323	<.010	.016	42

E Estimated value.
< Actual value is known to be less than the value shown.

01409416 HAMMONTON CREEK AT WESTCOATVILLE, NJ

LOCATION.--Lat 39°38'02", long 74°43'05", Atlantic County, Hydrologic Unit 02040301, at bridge on Chestnut Road in Wescoatville, 1.1 mi southwest of Nesco, 1.7 mi upstream from Norton Branch, and 3.8 mi southwest of Batsto.

DRAINAGE AREA.--9.57 mi^2.

PERIOD OF RECORD.--Water years 1974 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

REVISIONS.--WDR NJ-83-1: Drainage area.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
29...	1240	8.4	768	86	10.1	6.6	122	8.5	.165	.131
FEB 2000										
14...	1230	17	761	94	11.3	6.4	129	7.5	.134	.105
MAY										
22...	0930	10	759	56	5.8	5.8	120	14.0	.260	.198
AUG										
21...	1220	10	766	84	8.1	6.1	123	17.5	.149	.119

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
29...	22	5.08	2.27	4.8	9.7	11	15.8	<.1	6.4	12.8
FEB 2000										
14...	25	5.70	2.56	4.0	8.9	6	16.1	.1	6.7	13.1
MAY										
22...	20	4.74	2.05	3.5	11.0	11	16.5	.1	6.8	10.6
AUG										
21...	22	5.12	2.21	3.9	10.4	14	15.8	<.1	6.8	10.1

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
29...	.25	.32	<.03	<.030	1.4	1.3	1.05	<.003	.154	.213
FEB 2000										
14...	.24	.41	.04	.030	2.4	2.3	2.03	.004	.074	.169
MAY										
22...	.40	.45	.04	.040	1.2	1.1	.747	<.003	.217	.295
AUG										
21...	.26	.30	<.03	<.030	1.1	1.1	.851	<.003	.150	.204

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
29...	4.3	.3	E1.2	<1	76	68	46	--	--
FEB 2000									
14...	4.0	.7	E1.2	10	81	70	29	--	--
MAY									
22...	6.2	.4	2.0	--	80	65	46	.11	4
AUG									
21...	3.7	.4	<1.0	--	76	67	48	.08	3

E Estimated value.
< Actual value is known to be less than the value shown.

County Route

01409500 BATSTO RIVER AT BATSTO, NJ

LOCATION.--Lat 39°38'33", long 74°39'00", Burlington County, Hydrologic Unit 02040301, on right bank 30 ft downstream from bridge on State Highway 542 at Batsto, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--67.8 mi^2.

PERIOD OF RECORD.--Water years 1925, 1956, 1962-63, 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
09...	1100	83	766	81	9.7	4.8	40	8.0	.168	.129
FEB 2000										
08...	1130	87	770	89	11.8	4.8	37	4.0	.095	.071
MAY										
02...	1130	90	759	91	9.1	5.5	41	15.0	.249	.199
AUG										
09...	1130	74	760	84	6.9	5.6	44	25.0	.261	.201

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
09...	7	1.42	.87	.9	2.7	2	5.4	<.1	5.9	5.8
FEB 2000										
08...	6	1.23	.73	.6	2.5	2	4.8	<.1	6.6	5.1
MAY										
02...	8	1.72	.95	.8	3.1	3	5.9	<.1	2.7	5.0
AUG										
09...	9	1.93	1.03	1.0	3.2	2	6.4	<.1	4.0	4.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
09...	.24	.34	<.03	<.030	.42	.32	.080	<.003	<.007	E.006
FEB 2000										
08...	.11	.20	<.03	<.030	.41	.31	.201	<.003	E.003	E.004
MAY										
02...	.18	.28	.03	<.030	.35	.25	.071	<.003	E.003	.011
AUG										
09...	.23	.33	<.03	<.030	--	--	E.022	<.003	<.007	.010

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	4.5	.5	E1.1	1	34	25	E15	--	--
FEB 2000									
08...	2.8	.3	E1.5	<1	31	24	<16	--	--
MAY									
02...	5.3	.5	E1.4	--	29	22	E11	.39	2
AUG									
09...	6.0	.6	<1.1	--	45	23	E11	.36	2

E Estimated value.
< Actual value is known to be less than the value shown.

01409600 LANDING CREEK NEAR EGG HARBOR CITY, NJ

LOCATION.--Lat 39°33'25", long 74°36'10", Atlantic County, Hydrologic Unit 02040301, at bridge on US Route 30, 200 ft upstream from outflow of Egg Harbor City Lake, 3.0 mi northeast of Egg Harbor City, and 3.1 mi north of Germania.

DRAINAGE AREA.--14.7 mi^2.

PERIOD OF RECORD.--Water years 1974, 1976 to 1978 and current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
NOV 1999												
16...	1130	755	55	6.5	4.4	75	7.5	.202	.153	11	2.09	1.44
FEB 2000												
02...	1130	765	75	10.5	4.2	208	1.5	.176	.129	16	3.21	2.05
JUN												
07...	1130	765	54	5.5	4.7	64	14.5	.480	.374	9	1.85	1.10
SEP												
06...	1100	772	44	4.4	4.7	60	16.0	.562	.441	9	1.85	1.12

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
NOV 1999												
16...	.9	4.8	<1	8.8	<.1	12.3	10.1	.18	.31	.04	.060	.91
FEB 2000												
02...	.8	21.2	<1	42.7	<.1	10.4	10.7	.15	.17	<.03	<.030	.58
JUN												
07...	.7	5.2	<1	8.2	<.1	10.0	7.1	.41	.53	.06	.060	.95
SEP												
06...	.9	4.7	<1	8.4	<.1	11.4	5.8	.39	.53	.07	.050	1.0

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999												
16...	.77	.593	<.003	<.007	.009	5.1	.5	E1.2	3	49	E14	--
FEB 2000												
02...	.56	.408	<.003	<.007	E.006	5.1	.3	<1.0	<1	104	E16	--
JUN												
07...	.84	.426	<.003	.009	.026	9.5	1.3	<1.6	--	53	E14	1
SEP												
06...	.89	.501	.011	.008	.029	10	.8	<1.0	--	57	16	4

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
SEP 2000										
06...	1100	ENVIRONMENTAL	<3	27.9	<1	14	<1.0	E1	--	1
06...	*1100*	*FIELD BLANK*	--	--	--	--	--	--	*<1*	--

E Estimated value.
< Actual value is known to be less than the value shown.

01409600 LANDING CREEK NEAR EGG HARBOR CITY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000												
06...	2250	--	3	14	--	<.3	--	2	<1	<1	--	8
06...	--	*<1*	--	--	*<.2*	--	*<1*	--	--	--	*<1*	--

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000												
02...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.17	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
02...	<.20	<.10	<.2	.17	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
02...	<.10	E.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
07...	1130	<.002	<.002	E.003	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
07...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01409600 LANDING CREEK NEAR EGG HARBOR CITY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
07...	<.006	<.004	E.002	<.003	<.007	<.004	E.003	E.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01409690 WEST BRANCH WADING RIVER AT CHATSWORTH, NJ

LOCATION.--Lat 39°48'51", long 74°32'50", Burlington County, Hydrologic Unit 02040301, at bridge on State Highway 532 in Chatsworth, 150 ft downstream from outlet of Chatsworth Lake, and 2.0 mi northwest of Dukes Bridge.

DRAINAGE AREA.--9.24 mi^2.

PERIOD OF RECORD.--Water years 1977 to 1978 and current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV 1999												
04...	1100	766	98	10.5	4.1	59	12.5	.264	.199	3	.51	.45
FEB 2000												
09...	1030	766	76	10.1	5.4	42	3.5	.262	.201	6	1.15	.80
MAY												
23...	1100	756	75	7.7	4.2	53	14.0	.199	.142	3	.42	.37
AUG												
15...	1100	762	94	8.3	4.3	45	21.5	.338	.257	2	.46	.31

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV 1999												
04...	.4	2.8	<1	5.4	<.1	4.2	5.8	.16	.32	<.03	.030	<.037
FEB 2000												
09...	.4	3.2	1	5.8	<.1	6.5	6.2	.27	.40	.03	.050	E.023
MAY												
23...	.5	2.6	--	5.3	<.1	3.5	5.6	.16	.28	<.03	<.030	<.037
AUG												
15...	.3	2.2	--	4.4	<.1	3.4	4.6	.26	.43	<.03	<.030	<.037

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999											
04...	<.003	<.007	E.006	6.5	.4	<1.0	<1	31	--	E10	--
FEB 2000											
09...	<.003	E.005	E.007	5.9	.7	E1.6	6	35	25	E10	--
MAY											
23...	<.003	<.007	.011	5.6	.9	<1.0	--	27	--	<16	4
AUG											
15...	<.003	E.003	.021	8.2	1.9	<1.3	--	34	--	E9	3

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
15...	1100	--	--	--	--	--	--	4	10.5	<1	<12
15...	1100	4.50	10	.8	<40	.9	<.2	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01409690 WEST BRANCH WADING RIVER AT CHATSWORTH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
15...	<1.0	E1	<1	1780	1	10	<.3	<1	<1	<1	7
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	<1	<.1	3.1	<.5	5	1400	290	4.9	<.01	E1.1	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	E3	90	<50	<50	<50	<50	<50	90	430	200	290

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	50	300	400	<50	770	90	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
15...	--	--	--	--	--	--	--	--	--	--
15...	<50	<50	<5	<50	<50	120	<50	<50	600	0

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLOROWATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLOROWATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLOROWATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
09...	1030	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

E Estimated value.
< Actual value is known to be less than the value shown.

01409690 WEST BRANCH WADING RIVER AT CHATSWORTH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
09...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
09...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
23...	1100	<.002	<.002	.012	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.010

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
23...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
23...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ

LOCATION.--Lat 39°40'30", long 74°32'28", Burlington County, Hydrologic Unit 02040301, at bridge on State Highway 563 in Maxwell, 1.6 mi southeast of Washington, 1.8 mi southwest of Jenkins, and 2.2 mi upstream from confluence with Oswego River.

DRAINAGE AREA.--85.9 mi^2.

PERIOD OF RECORD.--Water years 1976-93, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
29...	1010	74	768	89	10.8	4.5	43	7.5	.221	.176
FEB 2000										
14...	1015	137	751	94	11.8	4.5	42	5.0	.208	.163
MAY										
22...	1250	93	758	86	8.9	4.7	42	13.5	.182	.133
AUG										
21...	0940	102	767	82	8.0	3.8	47	17.0	.465	.375

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999									
29...	3	.63	.43	1.2	2.3	1	4.4	<.1	6.3
FEB 2000									
14...	3	.64	.41	.7	2.2	<1	3.8	<.1	5.7
MAY									
22...	3	.63	.40	.9	2.2	--	4.5	<.1	5.4
AUG									
21...	3	.53	.35	.9	2.2	--	4.3	<.1	5.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999									
29...	5.7	.10	.19	<.03	<.030	<.037	<.003	E.005	.026
FEB 2000									
14...	4.7	E.10	.17	.05	<.030	E.032	<.003	.007	.023
MAY									
22...	5.3	.16	.37	<.03	<.030	<.037	<.003	E.003	.063
AUG									
21...	4.9	.24	.37	<.03	<.030	<.037	<.003	E.004	.034

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
29...	4.6	1.2	E1.8	3	34	22	E7	--	--
FEB 2000									
14...	4.7	.4	E2.0	7	31	--	E11	--	--
MAY									
22...	4.3	2.3	E1.9	--	24	--	E11	--	--
AUG									
21...	9.3	1.5	<1.2	--	28	--	E10	1.8	6

E Estimated value.
< Actual value is known to be less than the value shown.

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ

LOCATION.--Lat 39°37'23", long 74°26'30", Burlington County, Hydrologic Unit 02040301, on left bank upstream from bridge on Stage Road, 0.7 mi west of Lake Absegami, 2.2 mi north of New Gretna, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--8.11 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Management Area 14..

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
17...	1100	14	764	73	9.1	4.3	37	6.0	.094	.075
FEB 2000										
24...	1040	18	771	76	9.6	4.4	44	6.0	.158	.123
MAY										
17...	1045	14	769	67	7.0	4.5	36	13.5	.127	.098
AUG										
16...	1020	46	760	61	5.6	4.2	48	19.5	.945	.744

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999									
17...	3	.39	.42	.6	2.4	<1	4.8	<.1	9.4
FEB 2000									
24...	4	.49	.57	.5	2.9	2	5.0	<.1	7.0
MAY									
17...	3	.36	.41	.4	2.7	<1	5.0	<.1	6.2
AUG									
16...	3	.51	.46	.4	2.8	--	4.7	<.1	4.9

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999									
17...	4.8	E.10	.11	<.03	.030	<.037	<.003	<.007	<.008
FEB 2000									
24...	5.1	.10	.10	.06	<.030	<.037	<.003	<.007	<.008
MAY									
17...	3.8	E.10	E.10	<.03	<.030	<.037	<.003	<.007	<.008
AUG									
16...	3.2	.49	.38	<.03	<.030	<.037	<.003	E.003	E.005

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
17...	2.0	.2	<1.0	<1	21	--	E13	--	--
FEB 2000									
24...	3.7	.3	E1.9	<1	26	23	<16	--	--
MAY									
17...	2.6	.3	<1.0	--	22	--	E9	.03	1
AUG									
16...	19	.3	E2.1	--	52	--	16	1.7	14

E Estimated value.
< Actual value is known to be less than the value shown.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD NEAR CECIL, NJ

LOCATION.--Lat 39°38'36", long 74°58'40", Gloucester County, Hydrologic Unit 02040302, at bridge on Blue Bell Road, 1.2 mi upstream of Timber Lakes and 2.0 mi west of Cecil.

DRAINAGE AREA.--4.51 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Mixed Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Mangagement Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
16...	0930	2.1	749	76	9.1	5.7	52	7.0	.183	.146
FEB 2000										
07...	1220	2.6	761	91	11.4	6.1	68	5.5	.140	.111
MAY										
10...	1130	3.5	751	89	7.8	6.3	64	21.0	.364	.287
AUG										
15...	0920	4.1	755	71	6.7	6.0	53	18.0	.498	.390

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
16...	17	3.45	1.95	1.6	3.4	7	7.1	<.1	8.1	6.0
FEB 2000										
07...	16	3.31	1.79	1.7	3.8	5	7.4	<.1	7.5	5.8
MAY										
10...	17	3.72	1.93	1.8	3.8	11	7.3	<.1	5.0	4.4
AUG										
15...	14	3.05	1.60	1.2	3.3	6	6.2	<.1	7.8	4.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
16...	.16	.28	.03	.040	1.7	1.6	1.42	<.003	E.005	.011
FEB 2000										
07...	.14	.22	<.03	<.030	1.8	1.7	1.58	<.003	E.004	.010
MAY										
10...	.37	.58	.03	.040	1.6	1.4	1.00	.003	E.005	.014
AUG										
15...	.41	.48	<.03	<.030	1.2	1.1	.671	<.003	.010	.022

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
16...	3.6	.3	E1.4	2	46	42	E11	--	--
FEB 2000									
07...	3.5	.4	2.8	<1	40	41	E10	--	--
MAY									
10...	6.9	1.4	2.0	--	55	39	E13	.02	2
AUG									
15...	11	.7	<1.0	--	63	34	E15	.03	3

E Estimated value.
< Actual value is known to be less than the value shown.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD NEAR CECIL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)
AUG 2000										
15...	*0830*	*FIELD BLANK*	--	--	--	--	--	--	--	--
15...	0920	ENVIRONMENTAL	--	--	--	--	--	<3	47.0	<1
15...	0920	BED MATERIAL	6.27	1.8	<40	4.4	<.2	--	--	--

DATE	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, DISSOLVED (UG/L AS NI) (01065)
AUG 2000												
15...	--	--	--	*<1*	--	--	*<1*	--	--	*<.2*	--	*<1*
15...	<12	<1.0	<1	--	<1	1270	--	<1	32	--	<.3	--
15...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)
AUG 2000												
15...	--	--	--	*<1*	--	--	--	--	--	--	--	--
15...	1	<1	<1	--	5	--	--	--	--	--	--	--
15...	--	--	--	--	--	<1	<.1	6.7	2.1	2	2100	41

DATE	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)
AUG 2000												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	33	.51	E3.0	<1	20	<50	<50	<50	<50	<50	<50	M

DATE	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)
AUG 2000												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	M	E10	E10	<50	E10	E10	<50	E20	<50	<50	<50	<50

DATE	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000												
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<50	<50	<50	<50	<5	<50	<50	E10	<50	<50	E20	2

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD NEAR CECIL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000 07...	1220	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000 07...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000 07...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 10...	1130	<.002	<.002	E.004	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 10...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.017	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 10...	<.006	<.004	E.008	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD NEAR CECIL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
11...	1120	3500	1900	2300
18...	1100	230	500	200
25...	1115	170	200	170
AUG 2000				
01...	1100	1300	500	470
08...	1105	110	100	160

01411050 HOSPITALITY BRANCH NEAR CECIL, NJ

LOCATION.--Lat 39°37'14", long 74°55'39", Gloucester County, Hydrologic Unit 02040302, at bridge on Coles Mills Road (County Route 538). 0.3 mi south of intersection of Coles Mills Road and U.S. Route 322, 0.5 mi upstream of Diamond Lake, and 2.2 mi southeast of Cecil.

DRAINAGE AREA.--14.2 mi^2.

PERIOD OF RECORD.--December 1999 to September 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
15...	0900	761	87	10.6	6.0	51	7.0	.316	.254	13
FEB 2000										
16...	0900	760	85	11.1	6.2	63	4.0	.181	.143	15
MAY										
24...	0800	747	85	8.1	6.7	66	16.5	.355	.273	15
SEP										
13...	0900	756	84	6.9	6.9	55	25.0	.141	.103	13

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
15...	2.51	1.54	1.3	3.6	7	6.5	<.1	4.4	5.2
FEB 2000									
16...	3.09	1.67	1.4	4.8	6	8.5	<.1	4.4	5.8
MAY									
24...	3.18	1.83	1.6	4.3	10	7.7	<.1	2.0	4.5
SEP									
13...	2.39	1.60	1.6	4.0	10	7.2	<.2	1.4	3.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
15...	.25	.36	<.03	<.030	.85	.74	.489	<.003	E.003
FEB 2000									
16...	.19	.25	.03	.030	1.1	1.0	.838	<.003	E.004
MAY									
24...	.43	.36	.03	<.030	.63	.69	.268	.004	E.006
SEP									
13...	.31	.49	<.03	.040	--	--	E.033	<.003	E.006

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
15...	.014	6.9	.3	2.6	4	44	31	E13	--
FEB 2000									
16...	.014	4.0	.2	<1.0	3	47	37	E16	--
MAY									
24...	.014	7.2	<.2	E1.1	--	47	32	20	2
SEP									
13...	.016	4.9	.2	E1.7	--	36	28	E11	3

E Estimated value.
< Actual value is known to be less than the value shown.

01411050 HOSPITALITY BRANCH NEAR CECIL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
SEP 2000											
13...	0900	--	--	--	--	--	--	<2	36.8	<1	14
13...	1000	6.90	68	4.0	<40	1.8	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000											
13...	<1.0	E1	<1	690	<1	6	<.3	<1	<1	<1	4
13...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
SEP 2000											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	<1	<.1	2.6	.2	<2	5500	8.4	4.3	<.01	E.7	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
SEP 2000											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	3	<50	<50	<50	<50	E10	<50	E10	E20	E30	E30

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	E20	E20	E20	E20	E20	E20	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
13...	--	--	--	--	--	--	--	--	--	--
13...	<50	E10	<5	<50	<50	E20	<50	<50	E20	1

E Estimated value.
< Actual value is known to be less than the value shown.

01411050 HOSPITALITY BRANCH NEAR CECIL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000 16...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000 16...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000 16...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 24...	0800	<.002	<.002	.015	<.002	<.002	E.007	<.003	<.004	<.004	<.002	E.009

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 24...	.005	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 24...	<.006	<.004	E.008	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01411050 HOSPITALITY BRANCH NEAR CECIL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
11...	1145	50	<100	60
18...	1115	90	100	80
25...	1130	20	100	<10
AUG 2000				
01...	1115	120	100	70
08...	1115	60	100	20

< Actual value is known to be less than the value shown.

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ

LOCATION.--Lat 39°30'50", long 74°46'47", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322 in Weymouth, 0.5 mi upstream from Deep Run, and 20.9 mi upstream from mouth.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	1010	118	768	92	10.2	6.1	54	11.0	.182	.142
FEB 2000										
08...	1140	162	775	90	12.2	5.8	82	3.5	.208	.161
MAY										
09...	1140	155	756	93	8.1	--	53	21.5	.374	.292
AUG										
23...	1020	114	765	82	7.9	6.3	55	17.5	.416	.327

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
22...	10	1.94	1.23	1.1	4.5	4	8.3	<.1	7.4	5.4
FEB 2000										
08...	12	2.40	1.40	1.1	7.9	3	13.8	<.1	7.8	6.2
MAY										
09...	7	1.30	.93	.6	4.5	<1	8.1	<.1	2.0	5.1
AUG										
23...	10	1.99	1.11	1.1	5.4	5	7.7	<.1	7.4	3.5

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
22...	.20	.28	.04	.030	.80	.72	.524	<.003	E.005	.012
FEB 2000										
08...	.25	.31	<.03	<.030	.93	.88	.627	<.003	E.003	.011
MAY										
09...	.23	.24	<.03	<.030	.60	.59	.359	<.003	E.003	E.005
AUG										
23...	.31	.38	<.03	<.030	.83	.75	.446	.003	.008	.023

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
22...	4.1	.3	E1.5	4	46	35	38	--	--
FEB 2000									
08...	2.3	.5	E1.2	<1	52	45	26	--	--
MAY									
09...	8.1	.3	<1.0	--	42	--	E14	2.0	5
AUG									
23...	8.3	.5	<1.2	--	51	33	42	.46	2

E Estimated value.
< Actual value is known to be less than the value shown.

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ

LOCATION.--Lat 39°28'08", long 74°41'34", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322, 1.1 mi east from intersection of U.S. Route 50, 2.2 mi northeast of Mays Landing, and 2.8 mi upstream from Watering Race Branch.

DRAINAGE AREA.--16.3 mi^2.

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
17...	1010	7.8	758	76	9.4	4.2	53	6.0	.209	.163
FEB 2000										
08...	1000	15	775	79	10.7	4.5	109	3.5	.261	.201
MAY										
09...	1000	11	756	73	7.0	--	57	17.0	.298	.231
AUG										
24...	1120	8.2	762	79	7.7	4.8	49	16.5	.260	.203

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
17...	8	1.39	1.07	.7	3.5	1	7.2	<.1	9.8	6.1
FEB 2000										
08...	12	2.51	1.50	.9	9.9	1	18.6	<.1	8.6	7.1
MAY										
09...	10	1.94	1.16	.9	4.9	4	8.1	<.1	4.0	4.5
AUG										
24...	8	1.50	1.04	.7	4.1	1	7.1	<.1	8.5	4.0

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
17...	.12	.24	<.03	<.030	.83	.70	.588	<.003	<.007	E.004
FEB 2000										
08...	.26	.36	.07	.040	.90	.80	.534	<.003	E.005	.011
MAY										
09...	.24	.39	<.03	<.030	.81	.66	.424	<.003	E.005	.024
AUG										
24...	.22	.25	<.03	<.030	.86	.83	.609	<.003	.007	.010

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
17...	5.0	.2	E1.5	1	38	33	E13	--	--
FEB 2000									
08...	6.4	<.2	E1.4	<1	63	52	<16	--	--
MAY									
09...	6.4	.9	<1.0	--	48	30	33	.04	1
AUG									
24...	5.9	.2	<1.0	--	41	30	E9	.02	1

E Estimated value.
< Actual value is known to be less than the value shown.

01411400 FISHING CREEK AT RIO GRANDE, NJ

LOCATION.--Lat 39°01'39", long 74°53'48", Cape May County, Hydrologic Unit 02040206, at bridge on State Route 47 at Wildwood Pumping Station, and 1.4 mi northwest of Rio Grande.

DRAINAGE AREA.--2.29 mi^2.

PERIOD OF RECORD.--Water years 1965, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
30...	1010	4.8	773	67	8.1	6.6	208	7.5	1.04	.805
FEB 2000										
15...	1230	.78	765	76	10.0	6.3	132	4.0	.517	.400
MAY										
11...	1200	.86	758	56	4.9	6.8	145	22.0	1.02	.797
AUG										
23...	1030	1.1	768	59	5.1	6.7	130	23.0	1.43	1.12

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
30...	56	14.6	4.87	2.3	14.3	16	24.7	<.1	11.0	32.3
FEB 2000										
15...	31	8.08	2.74	1.3	10.3	16	18.0	<.1	8.0	12.8
MAY										
11...	36	9.30	3.18	1.9	11.6	18	21.2	<.1	.9	10.9
AUG										
23...	37	10.3	2.84	1.3	9.8	21	16.9	<.1	13.0	6.5

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
30...	.95	1.2	.08	<.030	--	--	<.037	<.003	.017	.061
FEB 2000										
15...	.41	.57	.15	.050	.72	.56	.154	.003	E.006	.010
MAY										
11...	.84	.90	.17	.070	.98	.92	.079	.007	.009	.016
AUG										
23...	.88	1.3	<.03	.050	--	--	<.037	.005	.015	.050

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
30...	25	1.1	2.8	8	160	114	31	--	--
FEB 2000									
15...	12	.2	E1.5	6	102	71	18	--	--
MAY									
11...	22	.4	E1.6	--	117	70	35	.01	2
AUG									
23...	30	.8	3.7	--	140	73	28	.01	4

E Estimated value.
< Actual value is known to be less than the value shown.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ

LOCATION.--Lat 39°11'34", long 74°49'33", Cape May County, Hydrologic Unit 02040206, at outlet of Johnson Pond, on State Route 47, and 0.1 mi west of Dennisville.

DRAINAGE AREA.--4.00 mi^2.

PERIOD OF RECORD.--December 1999 to September 2000.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
07...	0800	761	81	9.3	6.6	77	9.0	.153	.119	14
FEB 2000										
23...	0800	771	93	11.7	6.3	61	6.0	.157	.119	13
JUN										
06...	0900	758	99	8.4	6.6	143	23.0	.143	.107	19
SEP										
12...	0800	762	90	7.6	6.5	70	24.0	.246	.189	12

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
07...	1.67	2.40	2.0	6.3	6	11.9	<.1	4.0	8.5
FEB 2000									
23...	1.97	1.96	1.6	5.9	5	9.8	<.1	4.4	7.2
JUN									
06...	2.32	3.18	2.1	16.9	6	29.3	<.1	2.1	9.1
SEP									
12...	1.72	1.88	1.6	6.7	5	10.4	<.1	3.3	6.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
07...	.34	.55	.07	.060	.64	.43	.089	<.003	.009
FEB 2000									
23...	.26	.34	<.03	<.030	.69	.62	.357	<.003	E.004
JUN									
06...	.31	.39	.16	<.030	--	--	<.037	<.003	E.004
SEP									
12...	.34	.47	.08	.030	--	--	E.031	.003	E.006

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
07...	.029	5.4	.3	2.3	2	50	41	E15	--
FEB 2000									
23...	.019	4.8	.2	<1.0	2	66	37	E12	--
JUN									
06...	.030	4.5	.8	E1.9	--	79	69	22	3
SEP									
12...	.020	6.4	<.2	3.4	--	44	35	18	5

E Estimated value.
< Actual value is known to be less than the value shown.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)
SEP 2000									
12...	*0745*	*FIELD BLANK*	--	--	--	--	--	--	--
12...	0800	ENVIRONMENTAL	--	--	--	--	--	--	<3
12...	0800	BED MATERIAL	6.30	180	4.5	<40	6.6	4.5	--

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
SEP 2000											
12...	--	--	--	--	--	*<1*	--	--	*<1*	--	--
12...	91.0	<1	17	<1.0	E1	--	1	200	--	<1	11
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)
SEP 2000											
12...	*<.2*	--	*<1*	--	--	--	*<1*	--	--	--	--
12...	--	<.3	--	1	<1	<1	--	8	--	--	--
12...	--	--	--	--	--	--	--	--	<1	<.1	2.2

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)
SEP 2000										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	.5	E1	500	7.0	7.0	<.01	E.9	<1	5	<50

DATE	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
SEP 2000										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	<50	<50	<50	<50	<50	M	E10	E10	E10	<50

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	<50	M	<50	E20	E10	<50	<50	<50	<50	E20

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	<50	<50	<5	<50	<50	M	<50	<50	E10	0

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
23...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
23...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
23...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYLATRAZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
06...	0900	<.002	<.002	.008	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
06...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
06...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01411444 WEST CREEK NEAR LEESBURG, NJ

LOCATION.--Lat 39°15'36", long 74°54'42", Cumberland County, Hydrologic Unit 02040206, at bridge on State Route 550, 1.5 mi upstream of Hands Millpond, 2.4 mi south of Halberton, and 4.0 mi east of Leesburg.

DRAINAGE AREA.--6.64 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
30...	1240	10	771	74	9.7	4.6	61	4.5	.251	.191
FEB 2000										
14...	1020	9.5	751	75	10.3	4.2	58	1.5	.268	.204
MAY										
16...	1020	7.7	765	75	7.6	4.3	46	15.0	.503	.392
AUG										
23...	1310	5.6	767	86	7.2	4.3	48	24.5	.676	.518

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
30...	3	.37	.62	.6	2.8	<1	5.2	<.1	11.8	6.1
FEB 2000										
14...	4	.49	.67	.6	2.4	<1	3.9	<.1	8.4	5.6
MAY										
16...	3	.35	.44	.7	2.4	--	5.2	<.1	8.0	2.7
AUG										
23...	3	.51	.54	.4	2.4	--	5.3	<.1	7.7	3.4

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
30...	.14	.29	.04	<.030	--	--	<.037	<.003	<.007
FEB 2000									
14...	.13	.23	<.03	<.030	.34	.24	.115	.003	<.007
MAY									
16...	.33	.37	<.03	<.030	--	--	<.037	<.003	E.005
AUG									
23...	.36	.39	<.03	<.030	--	--	<.037	<.003	<.007

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
30...	E.007	6.0	--	<1.0	5	36	E14	--	--
FEB 2000									
14...	E.006	6.9	.2	<1.0	3	40	E11	--	--
MAY									
16...	.009	11	.4	E1.9	--	41	E13	.04	2
AUG									
23...	E.005	15	<.2	E1.5	--	49	E14	.03	2

E Estimated value.
< Actual value is known to be less than the value shown.

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 23...	1310	<3	24.1	<1	15	<1.0	E1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 23...	550	1	15	<.3	1	<1	<1	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 14...	1020	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 14...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 14...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 16...	1020	<.002	<.002	.007	<.002	<.002	E.003	<.003	<.004	<.004	<.002	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DISSOLVED (UG/L) (39572)	DI-ELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DISSOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
16...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	0807	40	<100	<10

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
03...	0652	<20	<100	<10
11...	0738	110	100	<10
18...	0800	50	100	<10

E Estimated value.
< Actual value is known to be less than the value shown.

01411466 INDIAN BRANCH NEAR MALAGA, NJ

LOCATION.--Lat 39°35'27", long 75°03'36", Gloucester County, Hydrologic Unit 02040206, at bridge on U.S. Route 47 (Delsea Drive), 0.4 mi upstream of Malaga Lake, and 1.4 mi north of Malaga.

DRAINAGE AREA.--6.50 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
16...	1230	4.4	750	67	7.9	4.6	54	7.5	.365	.284
FEB 2000										
07...	1000	5.8	760	80	10.8	4.4	57	3.0	.411	.342
MAY										
10...	0910	6.5	755	56	5.3	4.5	48	17.5	.583	.463
AUG										
14...	0940	3.1	758	64	6.2	4.6	43	16.5	.685	.540

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
16...	7	1.10	.96	.9	2.8	<1	5.5	<.1	9.6	4.3
FEB 2000										
07...	7	1.21	1.02	.8	2.8	2	5.4	<.1	8.2	5.8
MAY										
10...	7	1.15	.89	.9	3.1	<1	6.0	<.1	2.8	3.6
AUG										
14...	7	1.17	.91	.9	2.8	<1	5.4	<.1	8.8	3.1

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
16...	.19	.29	.04	.040	.81	.71	.523	<.003	<.007	E.006
FEB 2000										
07...	.23	.23	<.03	<.030	.95	.94	.719	<.003	E.003	E.004
MAY										
10...	.32	.36	<.03	<.030	.88	.84	.521	<.003	<.007	<.008
AUG										
14...	.42	.47	.04	<.030	.93	.88	.456	<.003	.008	.012

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
16...	8.2	.3	E1.1	2	37	--	E10	--	--
FEB 2000									
07...	7.8	<.2	<1.0	<1	36	29	E8	--	--
MAY									
10...	12	.3	E1.6	--	39	--	E11	.03	2
AUG									
14...	13	.3	<1.2	--	57	--	E12	.05	6

E Estimated value.
< Actual value is known to be less than the value shown.

01411466 INDIAN BRANCH NEAR MALAGA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
11...	1100	20	<100	30
18...	1045	<20	<100	80
25...	1100	20	200	60
AUG 2000				
01...	1040	790	800	10
08...	1050	80	200	40

< Actual value is known to be less than the value shown.

01411500 MAURICE RIVER AT NORMA, NJ

LOCATION.--Lat 39°29'44", long 75°04'38", Salem County, Hydrologic Unit 02040206, at bridge on Almond Road (State Route 540) in Norma, 0.8 mi downstream from Blackwater Branch, and 2.9 mi west of Vineland.

DRAINAGE AREA.--112.0 mi^2.

PERIOD OF RECORD.--Water years 1953, 1962-63, 1965 to September 1997, December 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
18...	1040	100	769	92	11.5	6.6	84	6.0	.270	.210
FEB 2000										
08...	1310	135	773	96	12.8	6.3	105	4.0	.166	.128
MAY										
15...	1120	135	755	86	7.7	6.6	83	20.0	.500	.394
AUG										
21...	1210	105	769	89	8.3	6.6	88	19.5	.375	.293

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
18...	21	4.33	2.58	1.8	5.8	9	10.8	<.1	7.7	6.9
FEB 2000										
08...	21	4.43	2.53	1.8	7.8	6	14.2	<.1	7.9	8.0
MAY										
15...	21	4.35	2.51	2.0	5.6	9	10.2	<.1	3.9	5.9
AUG										
21...	20	4.08	2.29	1.9	6.3	9	10.2	<.1	5.9	5.8

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
18...	.32	.35	.04	<.030	2.1	2.1	1.75	<.003	E.004	.009
FEB 2000										
08...	.19	.29	<.03	<.030	2.4	2.3	2.13	<.003	E.005	.009
MAY										
15...	.50	.53	<.03	<.030	1.9	1.8	1.32	.003	.007	.020
AUG										
21...	.37	.40	<.03	<.030	1.9	1.9	1.50	<.003	.008	.021

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
18...	6.2	.3	<1.0	4	60	53	27	--	--
FEB 2000									
08...	4.1	.3	<1.0	<1	67	59	25	--	--
MAY									
15...	9.9	.4	2.0	--	71	46	25	.51	1
AUG									
21...	8.0	.4	<1.1	--	64	48	37	.71	2

E Estimated value.
< Actual value is known to be less than the value shown.

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ

LOCATION.--Lat 39°20'14", long 75°03'04", Cumberland County, Hydrologic Unit 02040206, 0.3 mi upstream from mouth and Buckshutem Creek, 1.1 mi west of community of Laurel Lake, and 2.5 mi southeast of Millville Municipal Airport.

DRAINAGE AREA.--3.19 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction. Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved nitrite, total ammonia, dissolved ammonia, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
30...	1010	2.3	772	79	10.0	4.9	23	6.0	.100	.080
FEB 2000										
14...	1310	1.7	753	85	10.1	4.9	36	7.5	.212	.167
MAY										
16...	1310	1.5	764	96	10.2	5.2	25	13.0	.125	.098
AUG										
29...	0900	1.0	764	71	6.9	4.3	24	17.0	.108	.086

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
30...	4	.58	.63	.4	2.3	2	4.5	<.1	7.3	2.4
FEB 2000										
14...	5	.77	.80	.5	2.4	<1	3.9	<.1	6.7	3.9
MAY										
16...	3	.44	.47	.4	2.1	1	4.2	<.1	5.1	1.6
AUG										
29...	3	.47	.48	.4	2.0	1	4.2	<.1	7.1	1.5

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
30...	E.10	.14	<.03	<.030	.25	--	.110	<.003	<.007	E.004
FEB 2000										
14...	.19	.25	<.03	<.030	.40	.34	.146	.003	<.007	E.006
MAY										
16...	.13	.22	<.03	<.030	.26	.17	.045	<.003	E.003	.010
AUG										
29...	E.10	.13	.05	<.030	.25	--	.126	<.003	<.007	E.004

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
30...	2.3	<.2	<1.0	<1	26	20	17	--	--
FEB 2000									
14...	5.2	.2	<1.1	5	35	--	E8	--	--
MAY									
16...	2.6	.3	E1.9	--	21	15	<16	.01	4
AUG									
29...	2.4	.3	E1.9	--	24	18	<16	.00	1

E Estimated value.
< Actual value is known to be less than the value shown.

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
29...	0900	--	--	--	--	--	--	5	13.3	<1	<12
29...	0900	4.20	100	1.4	<40	5.0	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000											
29...	<1.0	E1	<1	120	<1	E3	<.3	<1	<1	<1	4
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	<1	<.1	8.3	<.6	<3	330	35	7.4	<.01	3.4	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	<4	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
29...	--	--	--	--	--	--	--	--	--	--	--
29...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
29...	--	--	--	--	--	--	--	--	--	--
29...	<50	<50	<5	<50	<50	<50	<50	<50	<50	1

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
16...	1310	<.002	<.002	.006	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
16...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	0915	110	<100	80

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
03...	0758	<20	<100	60
11...	0858	20	300	120
18...	0913	20	100	230

< Actual value is known to be less than the value shown.

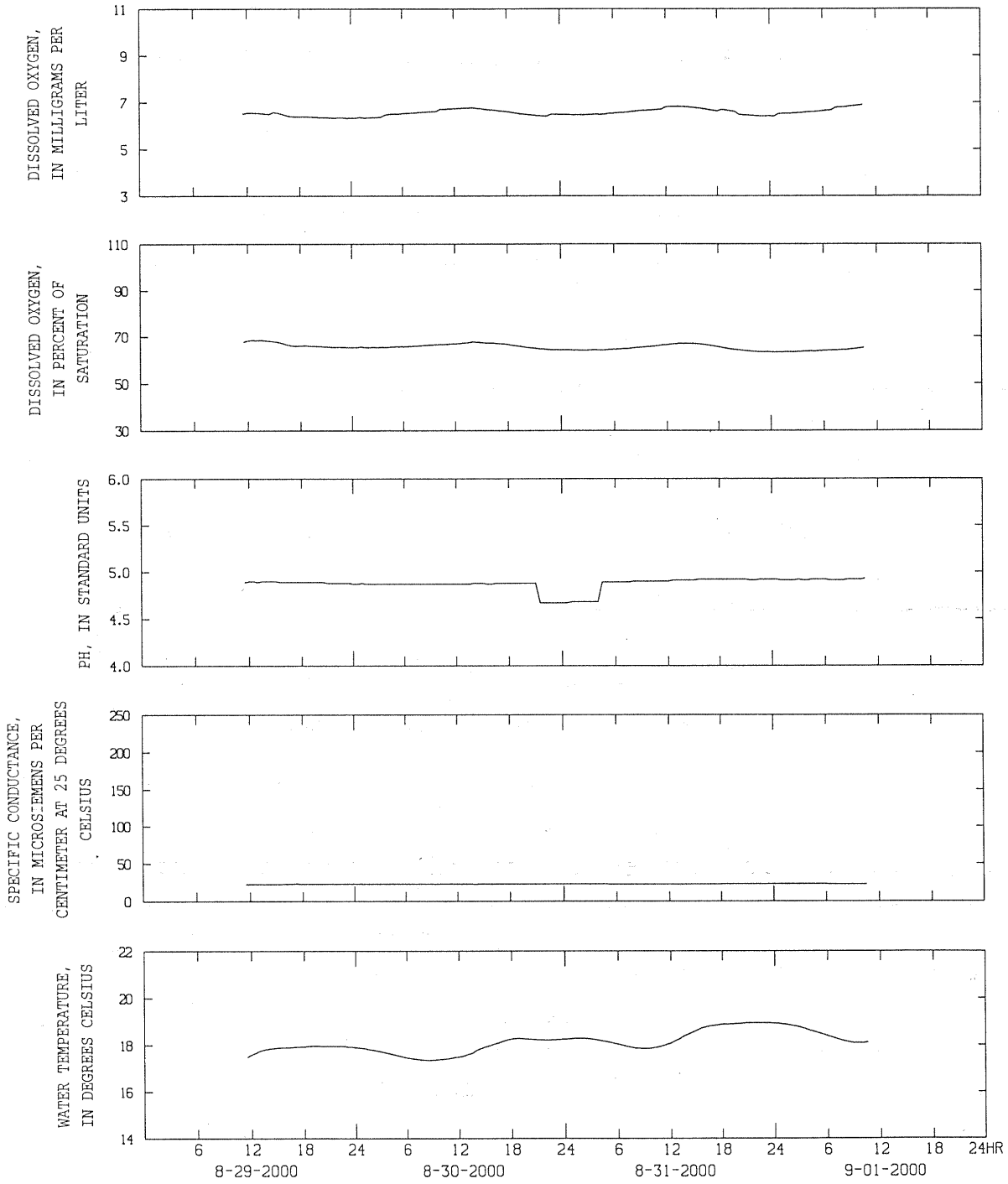


Figure 35. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01411955 Gravelly Run at Laurel Lake.

01412200 PAGES RUN AT NEWPORT, NJ

LOCATION.--Lat 39°18'18", long 75°09'52", Cumberland County, Hydrologic Unit 02040206, at bridge on County Highway 553, 0.1 mi north of Frames Corner, 0.6 mi downstream of Shaws Mill Pond, and 0.9 mi northeast of Newport.

DRAINAGE AREA.--3.86 mi^2.

PERIOD OF RECORD.--December 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
09...	0800	769	77	9.7	6.5	51	6.0	.113	.090	10
FEB 2000										
24...	0800	767	78	9.9	6.3	53	5.5	.085	.066	10
JUN										
07...	0900	766	84	8.1	5.9	49	17.5	.076	.057	9
AUG										
09...	0930	762	81	6.6	5.9	45	25.5	.106	.077	9

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
09...	1.75	1.33	1.3	3.5	5	6.5	<.1	5.1	5.7
FEB 2000									
24...	2.03	1.30	1.3	3.7	5	6.5	<.1	6.6	6.2
JUN									
07...	1.68	1.21	1.0	3.5	3	6.3	<.1	2.8	6.3
AUG									
09...	1.56	1.14	1.2	3.3	3	6.3	<.1	2.6	5.1

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
09...	--	.28	<.03	<.030	.43	--	.149	<.003	E.005
FEB 2000									
24...	.21	.21	<.03	<.030	.48	.48	.269	<.003	E.003
JUN									
07...	.25	.75	.17	.120	.88	.38	.127	<.003	E.003
AUG									
09...	.21	.29	.03	<.030	.40	.32	.105	<.003	E.003

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
09...	.025	2.9	.4	E1.7	6	30	29	17	--
FEB 2000									
24...	.008	2.6	.2	E1.5	<1	37	32	E13	--
JUN									
07...	.094	2.5	1.1	E1.8	--	30	25	E13	39
AUG									
09...	.018	3.3	.5	<1.2	--	33	24	18	4

E Estimated value.
< Actual value is known to be less than the value shown.

01412200 PAGES RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
09...	0930	--	--	--	--	--	--	<3	38.7	<1	16
09...	0930	6.00	52	.9	90	2.2	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
09...	<1.0	<1	<1	950	<1	19	<.3	<1	<1	<1	3
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<1	<.2	4.4	<1.0	24	1700	18	8.4	.01	<2.0	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	7	80	<50	<50	<50	70	<50	120	270	230	180

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	80	210	300	<50	540	110	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/G) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
09...	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	E5	<50	60	420	<50	50	500	0

E Estimated value.
< Actual value is known to be less than the value shown.

01412200 PAGES RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000												
24...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
24...	<.20	<.10	<.2	<.10	.32	<.10	<.2	<.2	E.1	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
24...	<.10	.2	<.2	<.20	<.10	<.10	<.1	<.10	.37	<.20	<.2

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	0930	50	<100	80

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
03...	0813	50	<100	70
11...	0911	110	100	80
18...	0926	20	100	20

E Estimated value.
< Actual value is known to be less than the value shown.

01412800 COHANSEY RIVER AT SEELEY, NJ

LOCATION.--Lat 39°28'21", long 75°15'21", Cumberland County, Hydrologic Unit 02040206, on right bank just downstream from bridge on Silver Lake Road, 0.6 mi south of Seeley, 2.6 mi east of Shiloh, 4.1 mi north of Bridgeton, and 22.5 mi upstream from mouth.

DRAINAGE AREA.--28.0 mi^2.

PERIOD OF RECORD.--Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
23...	1150	23	769	84	8.8	6.1	241	13.5	.072	.057
FEB 2000										
08...	1010	24	773	99	13.3	6.8	218	3.5	.050	.039
MAY										
15...	0910	24	755	81	7.6	6.8	201	18.0	.098	.074
AUG										
21...	0940	21	755	83	7.9	6.7	214	17.0	.116	.091

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
23...	64	12.5	7.97	7.6	11.5	21	24.7	<.1	10.2	25.3
FEB 2000										
08...	61	12.2	7.44	4.4	10.5	--	23.6	<.1	10.4	25.9
MAY										
15...	62	12.3	7.54	4.6	9.8	18	23.3	<.1	6.7	22.9
AUG										
21...	56	11.1	6.84	6.2	10.6	15	21.5	<.1	9.2	23.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
23...	.45	.55	.19	.190	5.7	5.6	5.11	.029	.010	.056
FEB 2000										
08...	.31	.49	.06	.100	6.4	6.3	5.95	.012	E.004	.062
MAY										
15...	.31	.39	.07	.050	5.1	5.0	4.69	.015	.009	.038
AUG										
21...	.32	.40	<.03	<.030	5.1	5.1	4.73	.011	.008	.079

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
23...	2.2	.3	2.1	6	144	135	E15	--	--
FEB 2000									
08...	1.7	.6	E1.4	8	131	--	E11	--	--
MAY									
15...	3.1	.3	E1.9	--	144	118	E15	.45	7
AUG									
21...	3.4	.5	<1.9	--	135	119	20	1.0	18

E Estimated value.
< Actual value is known to be less than the value shown.

01412800 COHANSEY RIVER AT SEELEY, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	1022	>24000	400	3600
JUL 2000				
03...	0915	330	200	150
11...	1012	130	300	240
18...	1035	<20	200	110

< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01413065 CANTON DRAIN AT MASKELLS MILL, NJ

LOCATION.--Lat 39°29'09", long 75°23'59", Salem County, Hydrologic Unit 02040206, at bridge on Maskells Mill Road at Maskells Mill, 100 ft downstream from outlet of Maskells Mill Pond, 1.3 mi northeast of Canton, and 2.2 mi southeast of Harmersville.

DRAINAGE AREA.--6.53 mi^2.

PERIOD OF RECORD.--December 1999 to September 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
08...	0900	768	58	7.2	5.3	61	6.5	.335	.259	14
FEB 2000										
17...	0800	769	75	10.2	6.1	80	3.0	.237	.183	18
JUN										
01...	0800	761	59	5.5	5.8	49	18.5	.407	.315	10
SEP										
14...	0930	765	88	7.6	6.1	49	23.0	.479	.373	10

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
08...	2.40	1.95	1.5	4.1	3	8.9	<.1	8.3	10.8
FEB 2000									
17...	3.41	2.42	1.7	4.4	3	8.3	<.1	8.2	13.3
JUN									
01...	1.59	1.35	.9	3.7	3	6.6	<.1	2.5	5.3
SEP									
14...	1.52	1.39	1.2	4.2	4	7.2	<.1	3.8	4.6

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
08...	.30	.40	<.03	.050	--	--	E.026	<.003	E.006
FEB 2000									
17...	.27	.39	.04	<.030	.74	.61	.346	<.003	.011
JUN									
01...	.39	.57	<.03	<.030	--	--	<.037	<.003	.013
SEP									
14...	.37	.56	<.03	<.030	--	--	<.037	<.003	.007

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
08...	.022	8.2	.3	2.0	2	60	40	35	--
FEB 2000									
17...	.031	6.5	.3	2.1	<1	58	45	23	--
JUN									
01...	.045	9.1	.9	2.9	--	39	24	32	2
SEP									
14...	.029	9.8	.7	3.0	--	55	26	36	8

E Estimated value.
< Actual value is known to be less than the value shown.

01413065 CANTON DRAIN AT MASKELLS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
SEP 2000											
14...	0930	--	--	--	--	--	--	<3	25.0	<1	39
14...	0930	6.30	370	3.4	140	1.3	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
SEP 2000											
14...	<1.0	E1	<1	1500	<1	17	<.3	1	<1	<1	5
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
SEP 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<1	<.1	5.8	.8	E2	4800	5.8	5.1	.02	E1.8	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
SEP 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	7	<50	<50	<50	<50	<50	<50	E20	E20	E20	E20

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	<50	E10	E20	<50	E30	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
14...	--	--	--	--	--	--	--	--	--	--
14...	<50	<50	<5	<50	<50	E20	<50	<50	E30	5

E Estimated value.
< Actual value is known to be less than the value shown.

01413065 CANTON DRAIN AT MASKELLS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
17...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	DIBROMOCHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
17...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
17...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
01...	0800	<.002	<.002	.015	<.002	<.002	E.064	<.003	<.004	<.004	<.002	E.007

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
01...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.012	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
01...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01413065 CANTON DRAIN AT MASKELLS MILL, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
05...	0915	<20	<100	<10
11...	0910	<20	<100	40
18...	0930	<20	<100	20
25...	0910	<20	<100	<10
AUG 2000				
01...	0905	<20	<100	10

< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS,

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, PA, Hydrologic Unit 02040104, on right bank 250 ft downstream from bridge (on U.S. Highways 6 and 209) between Port Jervis, NY and Matamoras, PA, 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River.

DRAINAGE AREA.--3,070 mi^2.

PERIOD OF RECORD.--Water years 1957-60, 1964 to January 1994, June 1997, 1999 to current year.
CHEMICAL DATA: 1958-59 (e), 1964-65 (c), 1966 (a), 1967-68 (c), 1969-76 (d), 1987 (b), 1988-89 (c), 1990-91 (b), 1992, 1997 (a), 1999 to current year (d).
MINOR ELEMENTS DATA: 1970, 1972-73 (a), 1974-76 (c), 1987 (b), 1988-89 (c), 1990-91 (b), 1992 (a).
PESTICIDE DATA: 1974 (a), 1987 (b), 1988-89 (c), 1990 (b), 1997 (a), 1999 to current year (d).
ORGANIC DATA: OC--1974 (b), 1975 (d), 1999 to current year (d).
NUTRIENT DATA: 1968 (a), 1969-76 (d), 1987 (b), 1988-89 (c), 1990 (b), 1999 to current year (d).
BIOLOGICAL DATA:
Bacteria--1973-76 (d).
Phytoplankton--1974 (b), 1975-76 (c).
Periphyton--1976 (a).
SEDIMENT DATA: 1959, 1976 (c), 1988 (b), 1989 (c), 1990-91 (b), 1992 (a), 1999 to current year (d).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1973.
SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960, March 1970 to June 1976.
WATER TEMPERATURE: February 1957 to September 1960, January to September 1973, June 1974 to January 1994, October 1998 to current year.

INSTRUMENTATION.-- Thermocoupler to data logger; recorded every 15 minutes.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). Interruptions in the daily record were due to instrument malfunction. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" in the "Explanation of Records" section in the Introduction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum (water years 1957-59, 1973-81, 1983-84, 1988- 93, 1999-2000), 30.5 °C, July 5, 1999; minimum (water years 1958-60, 1973, 1975-93, 1999-2000), 0.0°C on many days during winter periods, except 1984.
SUSPENDED-SEDIMENT CONCENTRATION (water years 1957-60, 1970-76): Maximum daily mean, 760 mg/L, June 29, 1973; minimum daily mean, less than 1 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE (water years 1957-60, 1970-76): Maximum daily, 187,000 tons, June 29, 1973; minimum daily, 1 ton, Aug. 29, 1957.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT 1999									
04...	1320	ENVIRONMENTAL	2080	752	--	--	7.2	78	15.5
NOV									
01...	1420	ENVIRONMENTAL	1770	762	116	12.6	7.7	80	19.5
30...	1500	ENVIRONMENTAL	4630	761	111	14.1	7.1	61	1.0
JAN 2000									
03...	*1439*	*FIELD BLANK*	--	--	--	--	--	--	--
03...	1440	ENVIRONMENTAL	2170	752	112	15.1	6.9	74	15.0
03...	*1441*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
MAR									
01...	1240	ENVIRONMENTAL	15400	749	87	11.6	6.9	68	13.0
APR									
03...	1350	ENVIRONMENTAL	6120	749	119	13.5	7.0	77	22.0
MAY									
01...	1540	ENVIRONMENTAL	6480	--	--	--	6.5	72	32.0
24...	1440	ENVIRONMENTAL	15900	736	109	10.7	7.3	64	29.0
JUN									
27...	1000	ENVIRONMENTAL	5940	746	106	8.9	7.2	71	29.0
JUL									
31...	1100	ENVIRONMENTAL	2320	752	97	8.4	7.4	82	26.5
SEP									
07...	1010	ENVIRONMENTAL	2030	760	114	10.5	7.6	84	16.0

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT 1999											
04...	15.0	22	6.51	1.34	.8	5.5	11	14	8.8	<.1	1.1
NOV											
01...	11.5	22	6.47	1.33	.6	5.3	11	14	9.1	<.1	1.0
30...	5.0	17	5.11	1.12	.7	3.2	10	12	5.9	<.1	3.4
JAN 2000											
03...	--	--	*.02*	*<.01*	*<.2*	*<.1*	--	--	*<.3*	*<.1*	*<.1*
03...	2.5	21	6.14	1.29	.6	5.0	9	11	8.7	<.1	2.6
03...	--	*21*	*6.18*	*1.29*	*.6*	*5.0*	--	--	*8.6*	*<.1*	*2.6*
MAR											
01...	3.0	16	4.78	1.03	.7	5.2	6	7	8.4	<.1	3.2
APR											
03...	9.0	19	5.71	1.25	.5	5.2	11	13	8.6	<.1	2.0
MAY											
01...	13.0	18	5.43	1.17	.6	5.2	9	10	8.4	<.1	2.0
24...	14.5	17	5.19	1.05	.6	4.2	11	13	6.4	<.1	2.6
JUN											
27...	22.5	20	6.12	1.24	.7	4.6	13	16	6.9	<.1	1.8
JUL											
31...	22.0	22	6.58	1.31	.8	5.7	--	--	9.0	<.1	1.3
SEP											
07...	19.0	24	7.23	1.36	.8	5.8	15	18	9.3	<.1	1.2

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 1999											
04...	8.4	<.020	E.10	.21	--	<.050	--	<.010	E.004	<.010	.010
NOV											
01...	7.9	<.020	.16	.30	--	<.050	--	<.010	<.006	<.010	.011
30...	7.9	<.020	.16	.24	.46	.296	.53	<.010	.006	<.010	.023
JAN 2000											
03...	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*	*<.008*
03...	8.5	<.020	.14	.13	.39	.254	.38	<.010	E.004	<.010	E.006
03...	*8.4*	*<.020*	*.15*	*.13*	*.41*	*.258*	*.38*	*<.010*	*E.003*	*<.010*	*E.006*
MAR											
01...	6.4	<.020	.14	.22	.57	.430	.65	<.010	.011	<.010	.030
APR											
03...	6.9	<.020	.12	.17	.37	.247	.42	<.010	E.004	<.010	.008
MAY											
01...	6.6	<.020	.15	.30	.32	.169	.47	<.010	E.004	<.010	.012
24...	7.0	<.020	.17	.26	.35	.179	.44	<.010	.009	<.010	.027
JUN											
27...	6.6	<.020	.16	.24	.26	.102	.34	<.010	.007	.014	.022
JUL											
31...	6.1	<.020	.19	.23	.39	.200	.43	<.010	.011	<.010	.023
SEP											
07...	5.7	<.020	.18	.22	.27	.090	.31	<.010	.011	.010	.015

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999										
04...	44	39	1	<16	30	9	3.0	<.2	4.5	1
NOV										
01...	47	39	<1	E9	20	6	2.2	<.2	2.8	1
30...	46	34	4	E9	30	5	3.2	<.2	28	2
JAN 2000										
03...	*<10*	--	--	*<16*	*<10*	*E1*	--	--	--	*M*
03...	44	40	--	<16	20	5	2.1	.2	6.5	1
03...	*44*	--	--	*<16*	*20*	*5*	--	--	--	--
MAR										
01...	43	35	12	<16	30	18	2.8	.4	489	12
APR										
03...	38	38	2	<16	20	9	2.0	.2	33	2
MAY										
01...	42	35	--	E9	40	9	2.3	<.2	16	1
24...	44	34	10	<16	40	9	2.8	.3	387	9
JUN										
27...	44	36	4	E8	60	7	2.9	.2	39	2
JUL										
31...	49	41	3	E14	40	12	2.8	<.2	27	4
SEP										
07...	58	41	1	E12	80	9	2.8	<.2	6.7	1

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)
NOV 1999										
01...	1420	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAR 2000										
01...	1240	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAY										
24...	1440	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
JUN										
27...	1000	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)
NOV 1999										
01...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MAR 2000										
01...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MAY										
24...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
JUN										
27...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

E Estimated value.
< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV 1999										
01...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAR 2000										
01...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAY										
24...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN										
27...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV 1999										
01...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAR 2000										
01...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAY										
24...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JUN										
27...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06

DATE	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
NOV 1999										
01...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
MAR 2000										
01...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
MAY										
24...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
JUN										
27...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
04...	1320	ENVIRONMENTAL	<.002	<.002	E.004	<.002	<.002	<.003
NOV								
01...	1420	ENVIRONMENTAL	<.002	<.002	E.004	<.002	<.002	<.003
30...	1500	ENVIRONMENTAL	<.002	<.002	<.001	<.002	<.002	<.003
JAN 2000								
03...	1440	ENVIRONMENTAL	<.002	<.002	<.001	<.002	<.002	<.003
MAR								
01...	1240	ENVIRONMENTAL	<.002	<.002	E.004	<.002	<.002	<.003
APR								
03...	1350	ENVIRONMENTAL	<.002	<.002	.004	<.002	<.002	<.003
MAY								
01...	1540	ENVIRONMENTAL	<.002	<.002	E.004	<.002	<.002	<.003
01...	*1541*	*SPLIT REPLICATE*	*<.002*	*<.002*	*E.004*	*<.002*	*<.002*	*<.003*
24...	1440	ENVIRONMENTAL	<.002	<.002	.026	<.002	<.002	<.003
JUN								
27...	1000	ENVIRONMENTAL	<.002	<.002	.052	<.002	<.002	E.018
JUL								
31...	1100	ENVIRONMENTAL	<.002	<.002	.015	<.002	<.002	<.003
SEP								
07...	1010	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 1999									
04...	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.002	<.003
NOV									
01...	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.002	<.003
30...	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
JAN 2000									
03...	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
MAR									
01...	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.002	<.003
APR									
03...	<.003	<.004	<.004	<.002	E.005	<.002	<.001	<.002	<.003
MAY									
01...	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
01...	*<.003*	*<.004*	*<.004*	*<.002*	*E.004*	*<.002*	*<.001*	*<.002*	*<.003*
24...	<.003	E.003	<.004	<.002	E.006	<.002	<.001	<.002	<.003
JUN									
27...	<.003	<.004	<.004	E.002	E.007	E.001	<.001	<.002	<.003
JUL									
31...	<.003	<.004	<.004	<.002	E.006	<.002	<.001	<.002	<.003
SEP									
07...	<.003	<.004	<.004	<.002	E.005	<.002	<.001	<.002	<.003

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT 1999									
04...	<.004	<.002	<.005	<.001	E.003	<.004	<.003	<.006	<.004
NOV									
01...	<.004	<.002	<.005	<.001	E.003	<.004	<.003	E.002	<.004
30...	<.004	<.002	<.005	<.001	E.004	<.004	<.003	<.006	<.004
JAN 2000									
03...	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006	<.004
MAR									
01...	<.004	<.002	<.005	<.001	.005	<.004	<.003	<.006	<.004
APR									
03...	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006	<.004
MAY									
01...	<.004	<.002	<.005	<.001	.005	<.004	<.003	<.006	<.004
01...	*<.004*	*<.002*	*<.005*	*<.001*	*.005*	*<.004*	*<.003*	*<.006*	*<.004*
24...	<.004	<.002	<.005	<.001	.011	<.004	<.003	<.006	<.004
JUN									
27...	<.004	<.002	<.005	E.002	.015	<.004	<.003	E.001	<.004
JUL									
31...	<.004	<.002	<.005	<.001	.013	<.004	<.003	E.002	<.004
SEP									
07...	<.004	<.002	<.005	<.010	E.004	<.004	<.003	<.006	<.004

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
04...	E.003	<.003	<.007	<.004	E.003	<.010	<.007	<.001	<.002
NOV									
01...	<.018	<.003	<.007	<.004	E.004	<.010	<.007	<.001	<.002
30...	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
JAN 2000									
03...	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
MAR									
01...	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
APR									
03...	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
MAY									
01...	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
01...	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.001*	*<.002*
24...	<.018	<.003	<.007	<.004	E.004	<.010	<.007	<.001	E.001
JUN									
27...	E.004	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
JUL									
31...	<.018	<.003	<.007	<.004	E.003	<.010	<.025	<.001	<.002
SEP									
07...	<.018	<.003	<.007	<.004	E.004	<.010	<.007	<.001	E.003

E Estimated value.
< Actual value is known to be less than the value shown.

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	8.5	6.0	7.5	---	---	---
2	---	---	---	---	---	---	9.0	8.0	8.5	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	4.5	3.0	3.5	---	---	---	---	---	---
15	---	---	---	6.0	3.5	4.5	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	6.0	5.0	6.0	---	---	---	---	---	---
18	---	---	---	5.0	3.5	4.0	---	---	---	---	---	---
19	---	---	---	5.0	3.0	4.0	---	---	---	---	---	---
20	---	---	---	6.0	4.0	5.0	---	---	---	---	---	---
21	---	---	---	6.0	5.5	5.5	---	---	---	---	---	---
22	---	---	---	7.0	5.5	6.5	---	---	---	---	---	---
23	---	---	---	9.0	6.5	7.5	---	---	---	---	---	---
24	---	---	---	10.5	8.0	9.0	---	---	---	---	---	---
25	---	---	---	10.5	8.5	9.5	---	---	---	15.5	14.0	14.5
26	---	---	---	12.0	9.5	11.0	---	---	---	15.0	14.0	15.0
27	---	---	---	11.0	9.5	10.5	---	---	---	15.0	13.5	14.5
28	---	---	---	10.5	9.5	10.0	---	---	---	15.5	14.0	14.5
29	---	---	---	10.0	8.5	9.0	---	---	---	15.5	15.0	15.0
30	---	---	---	8.5	7.5	8.0	---	---	---	16.0	14.5	15.5
31	---	---	---	8.0	6.5	7.5	---	---	---	17.5	15.5	16.5
MONTH	---	---	---	12.0	3.0	7.0	9.0	6.0	8.0	17.5	13.5	15.0

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, on left bank 50 ft downstream from covered bridge, 300 ft upstream from small tributary, 2.2 mi downstream from confluence of East and West Branches, and 2.2 mi southwest of Claryville.

DRAINAGE AREA.--66.6 mi^2.

PERIOD OF RECORD.-- Water years 1965-66, 1969, 1971, 1973-75, 1985-87, June 1998, May 1999 - current year.
CHEMICAL DATA: 1965 (a), 1966 (b), 1969, 1971 (a), 1973-75 (b), 1985 (a), 1986 (b), 1987 (c), May 1999 - current year (a).
NUTRIENT DATA: 1985 (a), 1986 (b), 1987 (c), 1998 (e), May 1999 - current year (a).

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

WATER-QUALITY DATA, OCTOBER 1999 TO OCTOBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
JUN 2000										
26...	1420	247	717	108	9.8	6.7	24	27.5	17.0	7
OCT										
16...	1040	60	729	93	10.0	6.4	27	9.5	10.0	9

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
JUN 2000										
26...	2.08	.53	.2	1.0	2	3	1.5	<.1	2.1	4.7
OCT										
16...	2.52	.64	.3	1.1	4	4	1.5	E.1	2.5	4.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
JUN 2000										
26...	E.10	E.10	<.020	--	<.050	<.010	<.006	<.010	<.008	1.8
OCT										
16...	E.10	.10	<.041	.14	.052	<.006	<.006	<.018	E.002	1.0

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
JUN 2000									
26...	<.2	18	14	<1	<16	E10	5	3.8	6
OCT									
16...	<.2	20	16	<1	<13	<10	E2	.16	1

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000												
26...	1420	<.002	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003
OCT												
16...	1040	<.004	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006

E Estimated value.
< Actual value is known to be less than the value shown.

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
26...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003
OCT											
16...	<.005	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
26...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
OCT											
16...	<.002	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	<.002	<.009

< Actual value is known to be less than the value shown.

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, on right bank 1,500 ft upstream from toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

DRAINAGE AREA.--3,480 mi^2.

PERIOD OF RECORD.--Water years 1956-73, 1976-78, July 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.-- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
03...	1045	3870	744	90	9.6	7.2	91	11.5	.080	.060
MAR 2000										
01...	0815	11500	753	91	12.3	7.0	76	2.5	.097	.074
MAY										
23...	1000	14700	750	96	10.2	7.3	70	12.0	.083	.054
AUG										
01...	0930	4290	753	91	8.0	7.4	84	21.0	.138	.106

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
03...	24	7.18	1.38	.8	7.4	14	12.7	<.1	1.9	7.3
MAR 2000										
01...	16	4.74	1.04	.7	5.8	7	10.1	<.1	3.6	6.6
MAY										
23...	18	5.39	1.13	.7	4.5	11	7.8	<.1	2.8	6.4
AUG										
01...	26	7.92	1.60	.7	6.3	19	10.1	<.1	2.5	7.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
03...	.24	.23	.12	.070	.34	.35	.108	<.003	.011	.011
MAR 2000										
01...	.24	.94	<.03	<.030	1.4	.67	.432	<.003	.012	.037
MAY										
23...	.19	.19	.06	<.030	.39	.39	.195	.003	.010	.019
AUG										
01...	.21	.29	<.03	<.030	.41	.34	.125	.005	.020	.033

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
03...	3.2	.5	E1.4	5	50	48	E8	--	--
MAR 2000									
01...	3.1	.4	E1.1	16	46	39	E12	--	--
MAY									
23...	2.7	.4	<1.2	--	45	36	<16	--	--
AUG									
01...	3.6	.3	E1.0	--	56	49	E9	42	4

E Estimated value.
< Actual value is known to be less than the value shown.

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1030	80	<100	10
JUL 2000				
06...	1030	<20	<100	20
19...	1030	20	<100	20
26...	1045	<20	<100	40

< Actual value is known to be less than the value shown.

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ

LOCATION.--Lat 41°06'24", long 74°57'09", Sussex County, Hydrologic Unit 02040104, on right bank 1.0 mi upstream from Flatbrookville, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--64.0 mi^2.

PERIOD OF RECORD.--Water years 1923-24, 1956-57, 1959-80, 1993, 1995, 1997 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction. Fish community data for this site and other sites are presented in Water-Quality at Miscellaneous Sites.

COOPERATION.--Field measurements and samples for laboratory analysis on Dec. 2, Feb. 9, May 23, and Aug. 1, were provided by the New Jersey Department of Environmental Protection. Determinations of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. Coli, and enterococci bacteria on those dates were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Other field data and samples for laboratory analysis were provided by the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999												
02...	1130	58	762	108	15.2	7.7	176	--	1.5	.078	.060	69
FEB 2000												
09...	1130	40	759	94	13.7	7.9	218	--	.0	.039	.030	86
MAY												
23...	1100	123	749	103	10.9	7.9	174	--	12.0	.117	.081	65
24...	1010	157	739	154	15.6	7.7	163	25.0	13.5	--	--	59
AUG												
01...	1130	139	757	100	9.3	7.6	145	--	18.5	.155	.119	52
OCT												
05...	1150	27	717	112	10.9	7.6	251	14.5	13.5	--	--	97

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC 1999												
02...	19.9	4.78	.5	7.4	51	--	--	14.4	<.1	5.5	13.3	.12
FEB 2000												
09...	24.8	5.81	.7	9.1	65	--	--	16.5	<.1	6.3	14.9	E.10
MAY												
23...	19.4	4.13	.5	7.9	52	--	--	14.3	<.1	4.9	9.6	.19
24...	17.4	3.88	.5	7.9	--	46	56	13.0	<.1	4.5	10.2	.14
AUG												
01...	15.1	3.45	.5	6.3	45	--	--	10.0	<.1	5.1	9.4	.24
OCT												
05...	27.9	6.52	.7	10.2	--	85	103	16.8	<.2	3.2	13.5	.12

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
DEC 1999											
02...	.17	<.03	<.030	.24	.19	.076	<.003	<.007	--	E.004	2.6
FEB 2000											
09...	E.10	.03	<.030	--	--	.245	<.003	E.004	--	E.005	1.4
MAY											
23...	.29	.03	<.030	.40	.30	.112	.003	.007	--	.011	3.5
24...	.20	--	<.020	.30	.24	.104	<.010	.007	<.010	.014	3.4
AUG											
01...	.24	<.03	<.030	.31	.31	.069	.003	.012	--	.020	4.1
OCT											
05...	.14	--	<.020	--	--	<.050	<.010	E.005	<.010	.010	1.9

E Estimated value.
< Actual value is known to be less than the value shown.

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999											
02...	<.2	2.0	2	100	97	--	<16	--	--	--	--
FEB 2000											
09...	.2	<1.3	3	120	118	--	E10	--	--	--	--
MAY											
23...	.2	<1.3	--	104	92	--	E11	--	--	.93	3
24...	<.2	--	--	100	86	4	E8	140	10	1.4	3
AUG											
01...	.2	E2.1	--	88	77	--	E8	--	--	2.0	5
OCT											
05...	<.2	--	--	139	129	1	E11	30	10	.19	2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
24...	1010	<.002	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006
OCT												
05...	1150	<.004	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
24...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.001	<.004	<.003
OCT											
05...	<.005	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
24...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
OCT											
05...	E.002	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	<.002	<.009

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1140	20	<100	<10

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	1110	50	100	20
19...	1110	50	<100	10
26...	1120	<20	<100	30

E Estimated value.
< Actual value is known to be less than the value shown.

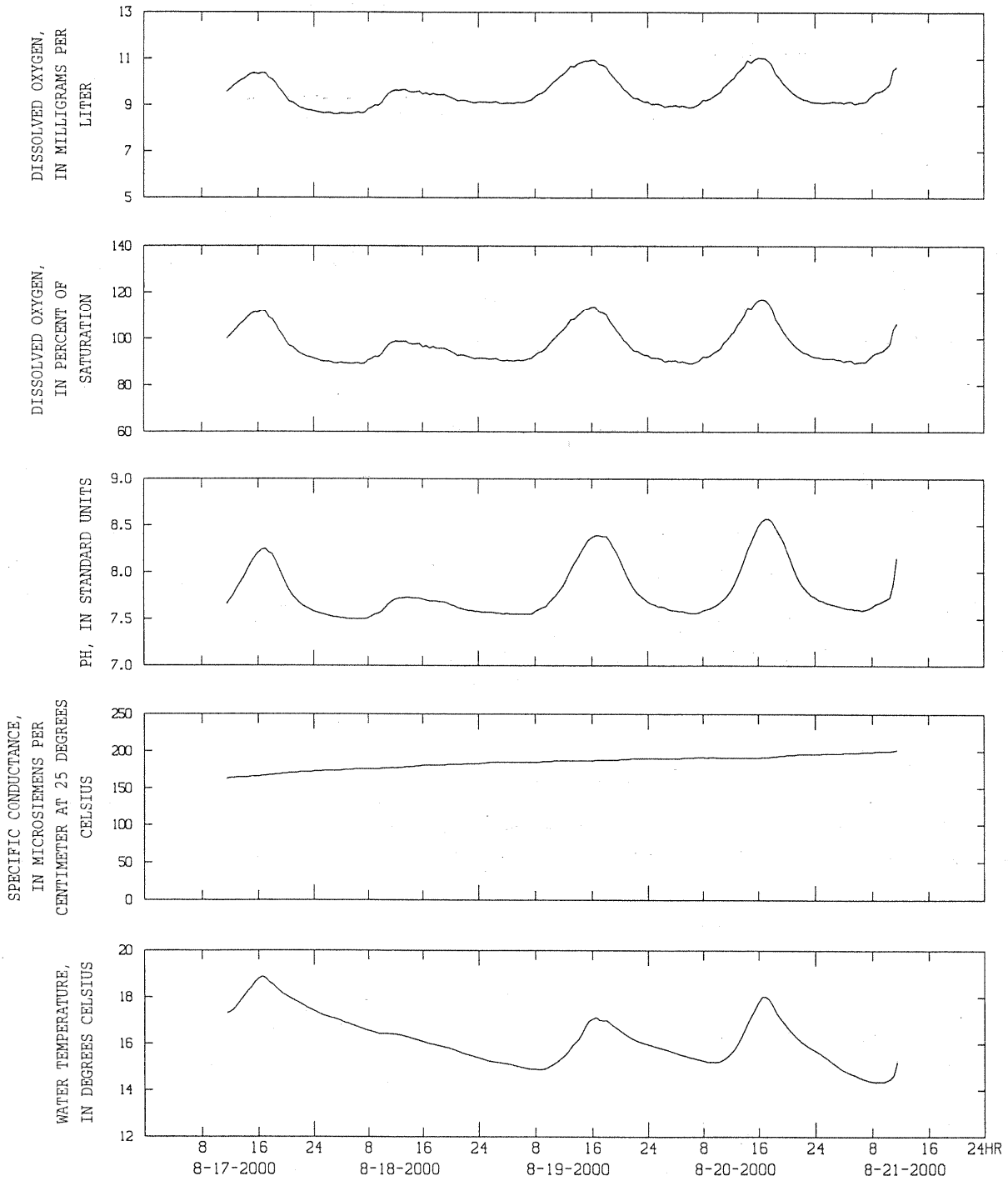


Figure 36. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01440000 Flat Brook near Flatbrookville.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ

LOCATION.--Lat 40°58'14", long 75°07'35", Warren County, Hydrologic Unit 02040104, 300 ft upstream from mouth and Delaware River, 0.6 mi northwest of Arrow Island, and 0.6 mi southeast of Delaware Water Gap Toll Bridge on Interstate 80.

DRAINAGE AREA.--3.56 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
15...	1120	3.8	745	97	11.5	6.8	27	7.0	.017	.012
FEB 2000										
23...	0950	6.8	763	101	13.8	6.4	35	2.5	.014	.010
MAY										
01...	0950	8.9	756	101	12.0	6.9	33	7.5	.023	.025
AUG										
17...	1110	2.0	753	96	9.5	6.8	34	15.5	.021	.016

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
NOV 1999									
15...	11	2.83	1.06	.4	.8	5	1.2	<.1	5.0
FEB 2000									
23...	11	2.75	1.03	.4	.7	5	.9	<.1	4.4
MAY									
01...	11	2.87	1.03	.4	.7	5	1.1	<.1	4.2
AUG									
17...	13	3.17	1.14	.4	.8	5	1.4	<.1	4.8

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999									
15...	7.3	M	.71	<.03	<.030	<.037	<.003	<.007	<.008
FEB 2000									
23...	7.6	.11	<.10	<.03	<.030	E.029	<.003	<.007	<.008
MAY									
01...	7.7	M	<.10	<.03	<.030	E.018	<.003	<.007	<.008
AUG									
17...	6.9	E.10	E.10	<.03	<.030	.102	<.003	E.003	<.008

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
15...	.77	<.2	E1.9	<1	20	22	<16	--	--
FEB 2000									
23...	.60	.2	<1.0	<1	23	21	<16	--	--
MAY									
01...	.84	<.2	<1.0	--	26	21	E8	.03	1
AUG									
17...	.88	<.2	E1.0	--	24	22	E10	--	<1

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 17...	1110	<3	15.6	<1	<12	<1.0	<1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 17...	<20	<1	E2	<.3	1	<1	<1	6

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 23...	0950	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 23...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 23...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 01...	0950	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
01...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
01...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	0825	<20	<100	80
09...	1040	<20	<100	50
16...	0900	<20	<100	40
23...	0910	<20	<100	20
30...	0825	<20	<100	60

< Actual value is known to be less than the value shown.

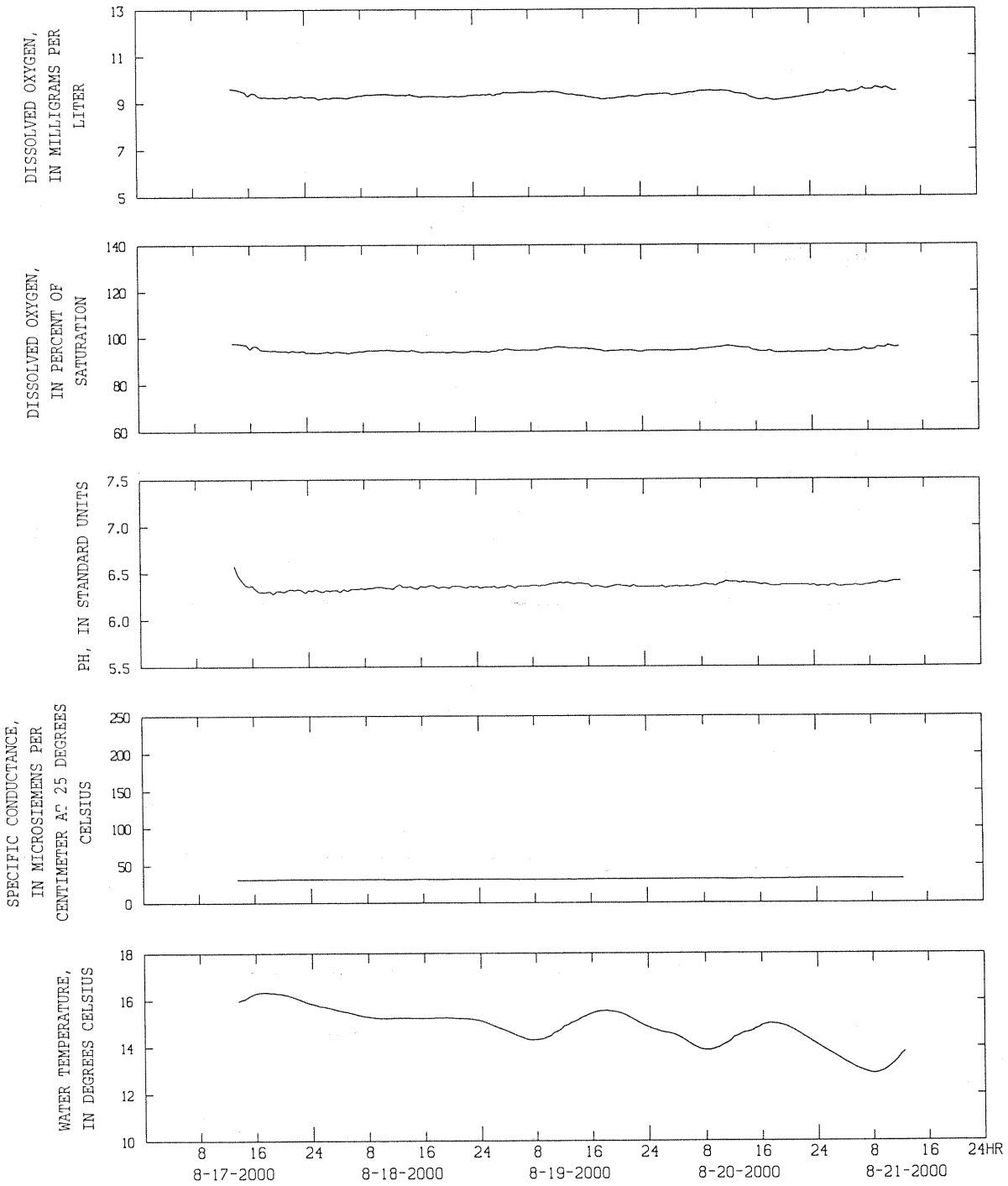


Figure 37. Reconnaissaince Study -- Field characteristics and concentrations of constituents in surface water monitored at 01442760 Dunnfield Creek at Dunnfield.

01443000 DELAWARE RIVER AT PORTLAND, PA

LOCATION.--Lat 40°55'26", long 75°05'46", Northampton County, Hydrologic Unit 02040105, at walkbridge connecting Portland, PA and Columbia, NJ, and 0.5 mi upstream from Paulins Kill.

DRAINAGE AREA.--4,165 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
15...	1250	2980	747	103	12.4	--	97	6.5	.074	.056
FEB 2000										
23...	1150	5350	764	109	15.8	7.2	109	.5	.060	.045
MAY										
01...	1240	8920	755	104	11.1	7.5	78	12.0	.073	.062
AUG										
01...	0930	7280	756	90	7.9	7.3	96	21.5	.106	.081

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
15...	26	7.91	1.59	.7	6.0	18	10.4	<.1	1.9	8.2
FEB 2000										
23...	27	8.16	1.61	.7	8.2	15	14.3	<.1	3.9	8.3
MAY										
01...	23	6.91	1.42	.6	5.2	15	9.2	<.1	2.2	7.3
AUG										
01...	22	6.66	1.32	.8	6.2	16	9.9	<.1	1.8	6.9

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
15...	.10	.14	.07	.030	.19	.16	.054	<.003	E.004	E.007
FEB 2000										
23...	.18	.13	<.03	<.030	.56	.61	.429	<.003	.008	.014
MAY										
01...	.12	.19	<.03	<.030	.35	.28	.164	<.003	E.004	.013
AUG										
01...	.23	.30	<.03	<.030	.52	.46	.225	<.003	.018	.030

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
15...	2.6	<.2	E1.1	<1	49	48	<16	--	--
FEB 2000									
23...	2.1	.2	<1.0	<1	66	56	<16	--	--
MAY									
01...	2.3	.7	E1.2	--	53	43	<16	108	4
AUG									
01...	3.2	.4	E1.4	--	53	44	E10	77	4

E Estimated value.
< Actual value is known to be less than the value shown.

01443000 DELAWARE RIVER AT PORTLAND, PA--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	0845	40	200	90
09...	1020	<20	<100	10
16...	0925	50	100	20
23...	0945	<20	<100	10
30...	0850	<20	<100	30

< Actual value is known to be less than the value shown.

01443370 DRY BROOK AT COUNTY ROUTE 519 NEAR BRANCHVILLE, NJ

LOCATION.--Lat 41°10'09", long 74°44'10", Sussex County, Hydrologic Unit 02040105, at bridge on County Route 519, 0.8 mi south of intersection of County Routes 519 and 636, 1.6 mi east of Culvers Lake, 1.4 mi northeast of Branchville, and 3.0 mi downstream of Branchville Reservoir.

DRAINAGE AREA.--2.69 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
18...	1130	754	103	14.1	8.0	200	2.0	.082	.062	56
FEB 2000										
08...	1130	759	107	15.6	7.2	219	.0	.067	.052	62
MAY										
25...	1130	735	80	7.5	7.1	173	16.5	.193	.150	45
AUG										
10...	1130	745	74	6.3	7.2	221	22.0	.327	.255	65

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999									
18...	16.9	3.39	1.0	13.7	25	26.7	<.1	4.8	23.1
FEB 2000									
08...	18.8	3.62	1.2	14.9	32	30.7	<.1	8.1	19.4
MAY									
25...	13.7	2.65	.6	13.8	31	25.0	<.1	5.4	9.8
AUG									
10...	20.1	3.62	1.0	15.7	55	26.9	.1	7.7	5.6

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
NOV 1999									
18...	.22	.26	.04	<.030	.33	.28	.064	<.003	E.006
FEB 2000									
08...	.20	.25	<.03	.040	.48	.44	.239	<.003	E.006
MAY									
25...	.37	.48	<.03	<.030	.51	.41	.037	.003	.018
AUG									
10...	.42	.48	<.03	<.030	.52	.46	.043	<.003	.025

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
18...	.016	2.9	.3	<1.0	2	112	105	E10	--
FEB 2000									
08...	.015	2.1	.2	E1.4	<1	129	117	<16	--
MAY									
25...	.043	5.3	.4	<1.0	--	109	90	E8	2
AUG									
10...	.078	6.7	.3	<1.0	--	137	114	E11	12

E Estimated value.
< Actual value is known to be less than the value shown.

01443370 DRY BROOK AT COUNTY ROUTE 519 NEAR BRANCHVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 10...	1130	<3	9.5	<1	<12	<1.0	<1	1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 10...	1740	<1	351	<.3	1	<1	<1	3

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 08...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 08...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 08...	<.10	.3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 25...	1130	<.002	<.002	.010	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.009

< Actual value is known to be less than the value shown.

01443370 DRY BROOK AT COUNTY ROUTE 519 NEAR BRANCHVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
25...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.003	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
25...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
28...	1240	330	300	700	10...	1125	490	0	170
JUL					17...	1130	330	<100	210
03...	1120	790	100	230	24...	1145	2800	1300	180

E Estimated value.
< Actual value is known to be less than the value shown.

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'44", long 74°57'15", Warren County, Hydrologic Unit 02040105, on right bank 1,200 ft upstream from bridge on State Highway 94 in Blairstown, 1,400 ft upstream from Blairs Creek, and 10 mi upstream from mouth. Water-quality samples collected at bridge, 1,200 ft downstream from gage, at high flows.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--Water years 1921, 1925, 1957-60, 1962-63, 1976 to current year.

REMARKS.--Field data and samples for laboratory analysis on 05/31 were provided by the Delaware River Basin National Water Quality Assessment Program (DELR NAWQA). Additional water quality data collected as part of DELR NAWQA synoptic study are listed in the section "Water Quality and Miscellaneous Sites."

COOPERATION.--Field data and samples for laboratory analyses on 11/09, 02/07, 05/16, and 09/14 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Other field data and samples for laboratory analysis were provided by the DELR NAWQA.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 1999												
09...	1000	93	761	108	13.1	8.3	448	7.0	.121	.090	170	44.1
FEB 2000												
07...	1000	87	756	112	16.2	8.2	456	.0	.075	.056	170	40.9
MAY												
16...	1100	150	758	104	10.4	8.3	427	15.0	.145	.123	160	38.5
31...	0900	130	758	99	9.9	8.0	400	15.2	--	--	150	37.9
SEP												
14...	0800	150	753	85	7.8	8.1	397	19.0	.148	.110	140	36.0

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 1999											
09...	15.6	1.5	23.5	138	--	--	45.8	.1	2.8	27.4	.27
FEB 2000											
07...	15.4	1.4	26.8	135	--	--	50.3	<.1	6.2	20.7	.43
MAY											
16...	14.5	1.2	22.7	140	--	--	42.9	<.1	4.3	17.2	.32
31...	12.9	1.1	20.1	--	122	149	38.9	<.1	4.7	15.3	.39
SEP											
14...	12.6	1.5	25.0	120	--	--	43.0	<.1	4.3	14.4	.36

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV 1999											
09...	.41	.04	.050	.84	.69	.426	.003	E.006	--	.018	4.4
FEB 2000											
07...	.46	.17	.150	1.3	1.3	.864	.008	.012	--	.020	3.1
MAY											
16...	.39	.04	<.030	1.0	.95	.630	.006	.016	--	.035	4.3
31...	.44	--	<.020	.92	.87	.482	<.010	.020	.011	.042	4.9
SEP											
14...	.55	.47	<.030	.99	.80	.439	<.003	.031	--	.048	4.8

< Actual value is known to be less than the value shown.

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999											
09...	.4	2.9	2	262	245	--	E15	--	--	--	--
FEB 2000											
07...	.2	<1.0	<1	248	247	--	E15	--	--	--	--
MAY											
16...	.4	2.1	--	238	228	--	E13	--	--	1.3	3
31...	--	--	--	226	206	7	E12	80	16	2.4	7
SEP											
14...	.2	2.5	--	228	211	--	E13	--	--	2.3	6

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
31...	0900	<.002	<.002	.011	E.001	<.002	<.003	<.003	<.004	<.004	<.002	E.010

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
31...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
31...	<.006	<.004	E.008	<.003	<.007	<.004	E.002	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES

Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000					AUG 2000				
02...	0800	790	500	170	16...	0835	330	300	110
09...	1050	130	300	90	23...	0835	130	200	50
					30...	0800	130	100	60

E Estimated value.
< Actual value is known to be less than the value shown.

01445000 PEQUEST RIVER AT HUNTSVILLE, NJ

LOCATION.--Lat 40°58'50", long 74°46'35", Sussex County, Hydrologic Unit 02040105, at bridge on Pequest Road in Huntsville, 0.3 mi west of intersection of Pequest Road and Route 603, and 0.4 mi downstream of East Branch.

DRAINAGE AREA.--31.4 mi^2.

PERIOD OF RECORD.--November 1999 to September 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
09...	1130	752	99	11.9	7.7	453	7.0	.215	.162	180
FEB 2000										
29...	1130	755	98	13.4	7.8	367	2.0	.165	.126	140
MAY										
31...	1100	755	110	10.9	8.1	492	15.5	.168	.128	200
SEP										
07...	1100	758	91	8.9	8.0	488	16.0	.187	.141	200

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
09...	42.0	18.1	1.4	22.7	144	49.3	<.1	8.0	18.3
FEB 2000									
29...	32.8	15.0	1.0	17.0	121	31.9	<.1	6.6	14.3
MAY									
31...	46.9	20.8	.9	22.2	186	41.9	<.1	5.4	11.7
SEP									
07...	46.1	21.2	1.4	21.1	185	39.1	<.1	9.0	10.6

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
09...	.33	.50	<.03	<.030	.80	.63	.299	<.003	E.005
FEB 2000									
29...	.31	.46	<.03	<.030	.93	.79	.471	.003	.010
MAY									
31...	.29	.37	<.03	<.030	.81	.73	.442	.004	.009
SEP									
07...	.34	.39	>.04	>.040	.68	.62	.290	.012	.013

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	.013	6.5	.3	E1.8	2	264	248	E11	--
FEB 2000									
29...	.028	4.7	.5	E1.7	7	200	194	E10	--
MAY									
31...	.017	4.6	.3	E2.2	--	276	264	E12	1
SEP									
07...	.017	5.4	.2	<1.2	--	277	261	E14	2

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01445000 PEQUEST RIVER AT HUNTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
SEP 2000											
07...	1100	--	--	--	--	--	--	<3	14.6	<1	<12
07...	1100	7.62	180	2.2	2800	6.6	4.8	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
SEP 2000											
07...	<1.0	<1	<1	100	<1	19	<.3	<1	<1	<1	<1
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	<1	<.1	9.3	2.9	4	8000	6.3	210	.01	7.6	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	30	<50	<50	<50	<50	<50	<50	E10	E10	E20	E20

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
SEP 2000											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	E10	E10	E20	<50	E40	E10	<50	<50	<50	<50	M

DATE	NAPTHAL ENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
SEP 2000										
07...	--	--	--	--	--	--	--	--	--	--
07...	<50	<50	<5	<50	<50	E10	<50	M	E30	1

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01445000 PEQUEST RIVER AT HUNTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000 29...	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000 29...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000 29...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 31...	1100	<.002	<.002	.013	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.009

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 31...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 31...	<.006	<.004	E.010	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01445000 PEQUEST RIVER AT HUNTSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
29...	1300	330	100	10
JUL 2000				
06...	1210	80	<100	70
19...	1210	140	300	40
26...	1215	330	600	270

< Actual value is known to be less than the value shown.

01446400 PEQUEST RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'45", long 75°04'44", Warren County, Hydrologic Unit 02040105, at last highway bridge before mouth, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--Water years 1957, 1962, 1976-82, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
15...	1000	125	749	109	13.2	8.0	497	6.5	.136	.104
FEB 2000										
22...	1050	210	768	105	14.6	8.3	517	2.0	.115	.086
MAY										
04...	0930	310	762	97	10.1	8.4	471	13.5	.122	.093
AUG										
01...	1200	E820	756	97	8.6	8.0	302	20.5	.387	.299

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
15...	230	53.7	23.7	1.5	19.2	193	34.3	<.1	5.4	25.9
FEB 2000										
22...	210	48.6	20.8	1.5	20.7	178	42.3	<.1	6.1	27.9
MAY										
04...	200	48.2	20.4	1.2	15.9	178	31.5	<.1	4.6	19.1
AUG										
01...	120	29.7	12.1	3.4	8.9	106	16.0	<.1	6.7	15.6

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
15...	.23	.31	.06	<.030	1.2	1.1	.853	.005	.014	.021
FEB 2000										
22...	.30	.42	<.03	<.030	1.7	1.6	1.26	.009	.017	.039
MAY										
04...	.27	.42	.03	<.030	1.2	1.1	.790	.004	.024	.043
AUG										
01...	.83	1.2	<.03	.030	2.4	2.0	1.18	.030	.170	.329

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
15...	4.3	<.2	E1.9	1	282	283	16	--	--
FEB 2000									
22...	3.8	.3	E1.0	<1	293	281	E12	--	--
MAY									
04...	3.8	.6	E1.6	--	266	251	E11	6.6	8
AUG									
01...	9.3	2.9	E2.9	--	187	161	20	--	96

E Estimated value.
< Actual value is known to be less than the value shown.

01446400 PEQUEST RIVER AT BELVIDERE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	1030	2200	1500	860
09...	1005	700	400	260
16...	1020	2200	1000	160
23...	0915	790	500	50
30...	0910	1300	1100	140

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, PA, Hydrologic Unit 02040106, on left bank 54 ft downstream from wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi downstream from Mill Creek, and 1.1 mi southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi^2.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). Fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites.

PERIOD OF RECORD.--Water years 1996 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1999 to June 1999.

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes), located 50 ft downstream from bridge.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
OCT 1999									
05...	1350	ENVIRONMENTAL	181	755	101	10.6	7.7	185	11.0
NOV									
02...	1350	ENVIRONMENTAL	33	739	118	12.4	8.0	197	18.0
DEC									
01...	1600	ENVIRONMENTAL	88	763	104	14.1	7.6	183	-1.0
JAN 2000									
04...	1350	ENVIRONMENTAL	46	740	108	12.5	7.6	183	18.0
FEB									
02...	1530	ENVIRONMENTAL	E30	753	--	--	7.4	192	.0
MAR									
07...	1440	ENVIRONMENTAL	88	753	110	12.5	7.6	178	18.5
17...	1240	ENVIRONMENTAL	265	754	106	12.7	7.4	174	2.5
APR									
04...	0900	ENVIRONMENTAL	200	739	101	10.2	7.3	163	14.0
MAY									
02...	1430	ENVIRONMENTAL	73	--	--	--	8.9	166	19.5
02...	*1431*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
24...	1440	ENVIRONMENTAL	220	743	110	10.2	7.5	162	E20.0
JUN									
28...	*1009*	*FIELD BLANK*	--	--	--	--	--	--	--
28...	1010	ENVIRONMENTAL	71	750	--	--	7.9	192	26.0
AUG									
01...	0950	ENVIRONMENTAL	342	751	102	9.0	7.6	148	21.5
29...	1030	ENVIRONMENTAL	32	760	108	9.8	7.9	202	22.0
SEP									
19...	1810	ENVIRONMENTAL	41	749	102	9.8	7.8	184	18.0

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT 1999											
05...	13.0	64	17.7	4.83	1.5	6.2	28	34	--	10.8	<.1
NOV											
02...	12.0	75	20.4	5.72	1.2	6.0	46	56	--	11.4	<.1
DEC											
01...	2.5	71	19.7	5.41	1.1	5.1	26	32	--	10.1	<.1
JAN 2000											
04...	8.0	68	18.6	5.29	1.2	5.4	24	30	--	10.9	<.1
FEB											
02...	.0	66	18.1	5.14	.9	6.9	25	30	--	12.6	<.1
MAR											
07...	9.5	64	17.2	5.04	.9	5.8	23	28	--	12.6	<.1
17...	7.0	57	15.5	4.37	1.2	6.6	21	26	--	13.8	<.1
APR											
04...	13.5	58	15.9	4.43	1.3	5.1	24	29	--	9.9	<.1
MAY											
02...	17.0	65	17.9	4.86	1.0	5.5	28	26	4	9.9	<.1
02...	--	*65*	*18.1*	*4.92*	*1.0*	*5.7*	--	--	--	*9.9*	*<.1*
24...	17.5	60	16.8	4.43	1.3	5.7	30	37	--	9.1	<.1
JUN											
28...	--	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*
28...	20.0	72	19.7	5.52	1.2	6.1	40	49	--	10.7	<.1
AUG											
01...	20.5	55	15.8	3.90	2.7	4.7	38	46	--	8.1	<.1
29...	20.0	80	22.5	5.91	1.7	6.2	52	63	--	10.7	<.1
SEP											
19...	16.5	72	20.1	5.23	1.6	5.7	47	57	--	10.2	<.1

E Estimated value.
< Actual value is known to be less than the value shown.

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 1999											
05...	7.8	22.1	<.020	.28	.32	4.6	4.28	4.6	<.010	.013	<.010
NOV											
02...	3.4	22.9	<.020	.16	.21	3.6	3.41	3.6	<.010	<.006	<.010
DEC											
01...	7.9	21.8	<.020	.13	.16	5.6	5.44	5.6	<.010	E.004	<.010
JAN 2000											
04...	6.9	21.5	<.020	.10	.12	5.3	5.22	5.3	<.010	.007	<.010
FEB											
02...	7.5	20.9	<.020	E.10	.13	--	4.98	5.1	<.010	E.004	<.010
MAR											
07...	6.6	18.0	<.020	.17	.17	5.4	5.18	5.4	<.010	E.005	.011
17...	5.9	15.7	<.020	.26	.23	4.7	4.41	4.6	<.010	.010	<.010
APR											
04...	5.6	15.8	.025	.14	.24	4.3	4.17	4.4	<.010	.010	<.010
MAY											
02...	4.1	17.2	<.020	.19	.20	3.6	3.39	3.6	.014	E.005	<.010
02...	*4.2*	*17.1*	*<.020*	*.17*	*.24*	*3.5*	*3.36*	*3.6*	*.011*	*E.004*	*<.010*
24...	7.1	15.6	.022	.29	.53	3.3	3.00	3.5	.012	.020	.012
JUN											
28...	*<.1*	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*
28...	6.7	17.1	<.020	.20	.24	3.8	3.58	3.8	<.010	.011	<.010
AUG											
01...	5.6	11.8	.032	.40	1.3	1.6	1.25	2.5	<.010	.042	.025
29...	5.4	17.1	<.020	.28	.25	2.8	2.48	2.7	<.010	.011	<.010
SEP											
19...	4.7	16.2	<.020	.17	.23	2.1	1.96	2.2	<.010	.011	<.010

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999											
05...	.024	120	107	5	E9	20	3	3.5	<.2	1.2	2
NOV											
02...	E.004	112	114	1	E15	E10	3	2.0	<.2	.10	1
DEC											
01...	E.007	120	111	3	E11	E10	5	1.6	<.2	.43	2
JAN 2000											
04...	.015	110	108	--	E11	E10	5	1.1	.2	.22	2
FEB											
02...	.011	109	109	--	E13	E10	4	.78	<.2	--	2
MAR											
07...	.010	108	103	3	E9	E10	4	1.9	<.2	.62	3
17...	.031	112	96	29	E11	20	5	2.4	.5	11	15
APR											
04...	.035	92	91	30	E10	10	4	2.0	.3	11	21
MAY											
02...	.009	104	92	--	E8	20	3	2.0	<.2	.51	3
02...	*.008*	*105*	--	--	*E12*	*20*	*3*	--	--	--	*M*
24...	--	104	92	66	16	50	11	4.7	.4	39	65
JUN											
28...	*<.008*	*<10*	--	--	*<16*	*<10*	*<2*	--	--	--	*M*
28...	.024	117	107	14	E15	40	10	2.3	<.2	1.4	8
AUG											
01...	.355	102	81	360	18	40	11	5.1	>4.0	326	353
29...	.018	122	112	4	18	10	4	2.6	<.2	--	--
SEP											
19...	.019	108	100	16	E14	10	8	2.3	.3	1.1	10

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.
M Presence of material verified but not quantified

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)
NOV 1999										
02...	1350	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
FEB 2000										
02...	1530	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAR										
17...	1240	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
JUN										
28...	1010	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)
NOV 1999										
02...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
FEB 2000										
02...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06	<.07
MAR										
17...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
JUN										
28...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROETHANE TOTAL (UG/L) (34311)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV 1999										
02...	<.06	<.03	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1
FEB 2000										
02...	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
MAR										
17...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN										
28...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISODURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	METHYLETHYLKETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISOBUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV 1999										
02...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
FEB 2000										
02...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAR										
17...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUN										
28...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06

E Estimated value.
< Actual value is known to be less than the value shown.

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
NOV 1999										
02...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
FEB 2000										
02...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
MAR										
17...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
JUN										
28...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
05...	1350	ENVIRONMENTAL	<.002	.008	.020	E.001	<.002	<.003
NOV								
02...	1350	ENVIRONMENTAL	<.002	<.002	.012	<.002	<.002	<.003
DEC								
01...	1600	ENVIRONMENTAL	<.002	<.002	.011	<.002	<.002	<.003
JAN 2000								
04...	1350	ENVIRONMENTAL	<.002	E.004	.010	E.001	<.002	<.003
FEB								
02...	1530	ENVIRONMENTAL	<.002	<.002	.011	<.002	<.002	<.003
MAR								
07...	*1439*	*FIELD BLANK*	*<.002*	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*
07...	1440	ENVIRONMENTAL	<.002	<.005	.011	<.002	<.002	<.003
17...	1240	ENVIRONMENTAL	<.002	.016	.013	<.002	<.002	<.003
APR								
04...	0900	ENVIRONMENTAL	<.002	.051	.016	<.002	<.002	<.003
04...	*0901*	*SPLIT REPLICATE*	*<.002*	*.050*	*.015*	*<.002*	*<.002*	*<.003*
MAY								
02...	1430	ENVIRONMENTAL	.007	E.003	.027	<.002	<.002	<.003
02...	*1431*	*SPLIT REPLICATE*	*.006*	*.004*	*.029*	*<.002*	*<.002*	*<.003*
24...	1440	ENVIRONMENTAL	.014	.010	.720	<.002	<.002	E.006
JUN								
28...	1010	ENVIRONMENTAL	E.003	<.002	.114	<.002	<.002	<.003
AUG								
01...	0950	ENVIRONMENTAL	<.002	<.002	.080	<.002	<.002	<.003
29...	1030	ENVIRONMENTAL	.024	<.002	.141	<.002	<.002	<.003
SEP								
19...	1810	ENVIRONMENTAL	<.002	<.002	.021	<.002	<.002	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 1999									
05...	<.003	<.004	<.004	<.002	E.034	<.002	E.002	<.002	<.003
NOV									
02...	<.003	<.004	<.004	<.002	E.020	<.002	<.001	<.002	<.003
DEC									
01...	<.003	<.004	<.004	<.002	E.017	<.002	<.001	<.002	<.003
JAN 2000									
04...	<.003	<.004	<.004	<.002	E.017	<.002	E.002	<.002	<.003
FEB									
02...	<.003	<.004	<.004	<.002	E.017	<.002	<.001	<.002	<.003
MAR									
07...	*<.013*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*
07...	<.003	<.004	<.004	<.002	E.026	<.002	<.001	<.002	<.003
17...	<.003	<.004	<.004	E.002	E.019	<.002	<.001	<.002	<.003
APR									
04...	<.045	<.004	<.004	.009	E.026	<.002	<.005	<.002	<.003
04...	*<.003*	*<.004*	*<.004*	*.009*	*E.026*	*<.002*	*<.003*	*<.002*	*<.003*
MAY									
02...	<.003	<.004	<.004	E.002	E.026	<.002	<.001	<.002	<.003
02...	*<.003*	*<.004*	*<.004*	*E.002*	*E.027*	*<.002*	*<.001*	*<.002*	*<.003*
24...	<.003	<.004	<.004	.004	E.11	<.002	<.001	<.002	<.003
JUN									
28...	<.003	<.004	.005	E.002	E.049	E.001	<.001	<.002	<.003
AUG									
01...	<.003	<.004	.088	<.002	E.026	.018	<.001	<.002	<.003
29...	<.003	<.004	<.020	<.002	E.034	<.002	<.001	<.002	<.003
SEP									
19...	<.003	<.004	<.004	<.002	E.017	.004	<.001	<.002	<.003

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT 1999									
05...	<.004	<.002	<.005	<.001	.042	<.004	<.003	E.001	<.004
NOV									
02...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
DEC									
01...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
JAN 2000									
04...	<.004	<.002	<.005	<.001	.009	<.004	<.003	E.001	<.004
FEB									
02...	<.004	<.002	<.005	<.001	.012	<.004	<.003	<.006	<.004
MAR									
07...	*<.004*	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*	*<.004*
07...	<.004	<.002	<.005	<.001	.015	<.004	<.003	<.006	<.004
17...	<.004	<.002	<.005	<.001	.024	<.004	<.003	E.002	<.004
APR									
04...	<.004	<.002	<.005	<.001	.029	<.004	<.003	E.002	<.004
04...	*<.004*	*<.002*	*<.005*	*<.001*	*.029*	*<.004*	*<.003*	*E.002*	*<.004*
MAY									
02...	<.004	<.002	<.005	<.001	.024	<.004	<.003	<.006	<.004
02...	*<.013*	*<.002*	*<.005*	*<.001*	*.023*	*<.004*	*<.003*	*<.006*	*<.004*
24...	<.004	<.002	<.005	<.001	.383	.008	<.003	<.006	.009
JUN									
28...	<.004	<.002	<.005	<.001	.045	.005	<.003	E.001	<.004
AUG									
01...	<.004	<.002	<.005	<.001	.052	<.004	<.003	<.006	<.004
29...	<.004	<.002	<.005	<.001	.207	<.004	<.003	<.006	<.004
SEP									
19...	<.004	<.002	<.005	<.001	.012	<.004	<.003	<.006	<.004

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
05...	E.002	<.003	<.007	<.004	.005	E.004	<.007	<.001	<.002
NOV									
02...	E.002	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
DEC									
01...	<.018	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
JAN 2000									
04...	E.002	<.003	<.007	<.004	E.004	<.010	<.007	<.001	<.002
FEB									
02...	<.018	<.003	<.007	<.004	.005	<.010	<.007	<.001	<.002
MAR									
07...	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.001*	*<.002*
07...	<.018	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
17...	E.004	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
APR									
04...	<.018	<.003	<.007	<.004	.185	<.010	<.007	<.001	<.002
04...	*E.002*	*<.003*	*<.007*	*<.004*	*.183*	*<.010*	*<.007*	*<.001*	*<.002*
MAY									
02...	<.018	<.003	<.007	<.004	.015	<.010	<.007	<.001	<.002
02...	*<.018*	*<.003*	*<.007*	*<.004*	*.015*	*<.010*	*<.007*	*<.001*	*<.002*
24...	<.018	<.003	<.007	<.004	.019	<.010	<.007	<.001	<.002
JUN									
28...	<.018	<.003	<.007	<.004	.007	<.010	<.007	<.001	<.002
AUG									
01...	<.018	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002
29...	<.018	<.003	<.007	<.004	.012	<.010	<.007	<.001	<.002
SEP									
19...	E.004	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA

LOCATION.--Lat 40°40'09", long 75°14'12", Northampton County, PA, Hydrologic Unit 02040106, on right bank 140 ft upstream from highway bridge in Hugh Moore Parkway at Glendon, 1.9 mi upstream from mouth and 2.0 mi southeast of Easton.

DRAINAGE AREA.--1,359 mi^2.

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

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located 10 ft upstream from bridge.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to April 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: maximum, 12.0 °C, Apr. 3, 4, 5, 1999, but may have been higher during period of missing record; minimum, -1.0 °C, Feb. 24, but may have been lower during period of missing record.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT 1999									
05...	0900	ENVIRONMENTAL	3490	760	--	--	7.4	185	10.0
NOV									
02...	0940	ENVIRONMENTAL	1270	754	117	12.3	7.8	267	16.5
DEC									
01...	1020	ENVIRONMENTAL	4570	768	104	13.5	7.4	129	.0
01...	*1021*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
JAN 2000									
04...	0920	ENVIRONMENTAL	1810	751	108	13.2	7.7	228	16.0
FEB									
02...	1100	ENVIRONMENTAL	1350	757	100	14.1	7.7	269	-2.0
28...	1820	ENVIRONMENTAL	10300	761	95	11.8	7.6	173	7.5
MAR									
07...	0910	ENVIRONMENTAL	3320	765	103	12.7	7.5	174	10.5
APR									
04...	1330	ENVIRONMENTAL	4040	745	110	11.4	7.7	195	15.0
MAY									
02...	1010	ENVIRONMENTAL	2480	--	--	--	6.8	241	18.0
24...	1040	ENVIRONMENTAL	5790	750	105	10.6	7.0	207	20.0
JUN									
27...	1810	ENVIRONMENTAL	3790	753	108	9.3	7.6	173	26.5
JUL									
31...	1700	ENVIRONMENTAL	3340	757	83	7.2	7.7	191	26.5
SEP									
07...	1510	ENVIRONMENTAL	861	763	140	12.6	8.0	347	22.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 1999											
05...	14.0	56	14.0	5.00	1.5	10.8	32	39	14.7	<.1	4.9
NOV											
02...	12.5	93	22.1	9.14	2.2	14.6	57	69	20.9	<.1	5.6
DEC											
01...	4.5	39	9.48	3.65	1.0	7.4	17	21	12.3	<.1	4.7
01...	--	*39*	*9.54*	*3.67*	*1.0*	*7.4*	--	--	*12.8*	*<.1*	*4.8*
JAN 2000											
04...	6.0	80	19.7	7.56	2.0	11.7	43	52	18.5	<.1	5.8
FEB											
02...	1.0	81	19.4	7.88	1.9	17.2	53	65	25.8	<.1	5.6
28...	6.0	46	12.4	3.60	1.3	12.3	21	26	21.6	<.1	4.9
MAR											
07...	6.5	53	13.1	4.91	1.2	11.0	28	35	17.6	<.1	4.9
APR											
04...	13.0	59	14.7	5.44	1.6	9.1	37	45	16.1	<.1	4.5
MAY											
02...	14.0	82	20.2	7.64	1.8	13.0	49	60	19.2	<.1	4.6
24...	14.5	60	15.6	5.21	1.4	10.1	46	56	14.8	<.1	5.2
JUN											
27...	22.0	59	15.0	5.15	1.6	9.5	34	42	13.9	<.1	5.3
JUL											
31...	22.5	64	15.6	5.95	1.5	9.8	38	46	14.5	<.1	4.7
SEP											
07...	20.5	120	28.3	11.6	3.1	18.6	80	98	26.5	.1	5.2

< Actual value is known to be less than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT 1999											
05...	22.8	.081	.31	.37	1.9	1.56	1.9	.014	.086	.062	.118
NOV											
02...	29.6	.041	.21	.28	2.1	1.92	2.2	.014	.191	.155	.205
DEC											
01...	15.3	.027	.14	.45	1.2	1.01	1.5	<.010	.053	.041	.071
01...	*15.0*	*.026*	*.23*	*.39*	*1.3*	*1.02*	*1.4*	*<.010*	*.053*	*.040*	*.070*
JAN 2000											
04...	25.5	.112	.22	.26	2.4	2.17	2.4	.023	.161	.137	.179
FEB											
02...	27.2	.100	.24	.29	2.3	2.02	2.3	.020	.181	.129	.197
28...	13.5	.051	.25	1.5	1.9	1.60	3.1	<.010	.041	.029	.218
MAR											
07...	17.7	.105	.33	.32	1.7	1.37	1.7	.011	.085	.072	.101
APR											
04...	21.5	.063	.14	.17	1.7	1.60	1.8	.010	.069	.055	.087
MAY											
02...	25.1	.090	.27	.49	2.0	1.75	2.2	.023	.122	.094	.136
24...	19.2	.110	.25	.60	1.6	1.37	2.0	.016	.067	.060	--
JUN											
27...	19.3	.068	.28	.41	1.5	1.27	1.7	.013	.091	.068	.134
JUL											
31...	20.7	.028	.16	.30	1.4	1.22	1.5	.010	.076	.056	.123
SEP											
07...	36.2	.164	.41	.48	2.9	2.47	2.9	.051	.267	.234	.280

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999										
05...	115	100	9	E15	40	47	4.2	.4	189	20
NOV										
02...	157	147	1	29	20	25	2.4	.2	4.1	1
DEC										
01...	82	69	4	E14	70	28	4.2	.2	62	5
01...	*82*	*--*	*--*	*17*	*60*	*27*	*--*	*--*	*--*	*5*
JAN 2000										
04...	134	127	--	22	20	44	1.7	<.2	36	7
FEB										
02...	165	146	1	31	20	37	1.7	<.2	5.8	2
28...	97	90	150	E11	30	44	2.8	>4.0	4340	156
MAR										
07...	101	94	3	E10	30	42	2.0	.4	24	3
APR										
04...	110	102	7	E14	10	32	1.7	.4	44	4
MAY										
02...	136	129	--	20	30	36	2.5	.2	11	2
24...	107	105	54	17	40	23	2.9	.6	381	24
JUN										
27...	107	96	32	19	60	24	3.3	.5	146	14
JUL										
31...	118	101	19	23	20	11	2.2	.7	112	12
SEP										
07...	212	190	3	39	40	17	2.1	--	3.5	2

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were anlayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)
OCT 1999									
05...	0900	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	E.02
NOV									
02...	0940	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.05
DEC									
01...	1020	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.02
JAN 2000									
04...	0920	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.04
FEB									
02...	1100	ENVIRONMENTAL	<.2	E.01	M	<.07	E1	<.1	E.03
02...	*1101*	*CONCURRENT REPLICATE*	*<.2*	*E.01*	*E.01*	*<.07*	*E1*	*<.1*	*E.03*
28...	1820	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
MAR									
07...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E1	<.1	E.02
APR									
04...	1330	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.02
MAY									
02...	1010	ENVIRONMENTAL	<.2	E.01	E.01	<.07	E2	<.1	E.04
24...	1040	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	E.02
JUN									
27...	*1808*	*CANNISTER BLANK*	*<.2*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.03*
27...	*1809*	*FIELD BLANK*	*<.2*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.03*
27...	1810	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.02
JUL									
31...	1700	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.02
SEP									
07...	1510	ENVIRONMENTAL	<.2	E.01	E.01	<.07	<7	<.1	E.05

DATE	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
OCT 1999											
05...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
NOV											
02...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
DEC											
01...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JAN 2000											
04...	<.06	E.03	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.03	<.06
FEB											
02...	<.06	<.06	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.02	<.06
02...	*<.06*	*<.06*	*<.04*	*<.05*	*E.01*	*<.03*	*<.2*	*<.04*	*<.05*	*E.02*	*<.06*
28...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
MAR											
07...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
APR											
04...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAY											
02...	<.06	<.06	M	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
24...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
JUN											
27...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
27...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
27...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUL											
31...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
SEP											
07...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	E.04

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999											
05...	<.07	<.06	<.03	<.2	<.1	E.08	.11	<.05	<.2	<.05	<.1
NOV											
02...	<.07	<.06	<.03	<.2	<.1	.19	.19	E.03	<.2	<.05	<.1
DEC											
01...	<.07	<.06	<.03	<.2	<.1	E.05	E.08	<.05	<.2	<.05	<.1
JAN 2000											
04...	<.07	<.06	<.03	<.2	<.1	.10	.16	<.05	<.2	<.05	<.1
FEB											
02...	<.07	<.06	<.03	<.2	<.1	.10	.12	E.01	<.2	<.05	<.1
02...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*.10*	*.12*	*E.01*	*<.2*	*<.05*	*<.1*
28...	<.07	<.06	<.03	<.2	<.1	E.02	E.03	<.05	<.2	<.05	<.1
MAR											
07...	<.07	<.06	<.03	<.2	<.1	E.06	E.09	<.05	<.2	<.05	<.1
APR											
04...	<.07	<.06	<.03	<.2	<.1	E.06	E.08	<.05	<.2	<.05	<.1
MAY											
02...	<.07	<.06	<.03	<.2	<.1	.12	.18	<.05	<.2	<.05	<.1
24...	<.07	<.06	<.03	<.2	<.1	E.07	E.07	<.05	<.2	<.05	<.1
JUN											
27...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
27...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
27...	<.07	<.06	<.03	<.2	<.1	E.08	E.06	<.05	<.2	<.05	<.1
JUL											
31...	<.07	<.06	<.03	<.2	<.1	E.07	E.08	<.05	<.2	<.05	<.1
SEP											
07...	<.07	<.06	<.03	<.2	<.1	.17	.30	E.01	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
NOV										
02...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
DEC										
01...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JAN 2000										
04...	E.01	<.06	<2	<.2	.2	<.5	<.4	<2	<.4	E.05
FEB										
02...	<.03	<.06	<2	<.2	E.1	<.5	M	<2	<.4	<.06
02...	*<.03*	*<.06*	*<2*	*<.2*	*E.1*	*<.5*	*M*	*<2*	*<.4*	*<.06*
28...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAR										
07...	<.03	<.06	<2	<.2	M	<.5	<.4	<2	<.4	<.06
APR										
04...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAY										
02...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	E.02
24...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JUN										
27...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
27...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
27...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUL										
31...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SEP										
07...	<.03	<.06	<2	<.2	M	<.5	<.4	<2	<.4	<.06

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT 1999										
05...	<.2	E.02	<.04	<.07	<.04	M	<.06	<.05	.18	<.09
NOV										
02...	<.2	<.04	<.04	<.07	<.04	E.1	<.06	<.05	.32	<.09
DEC										
01...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.12	<.09
JAN 2000										
04...	<.2	E.02	<.04	<.07	<.04	E.1	<.06	<.05	.27	<.09
FEB										
02...	<.2	E.01	<.04	<.07	<.04	E.1	<.06	E.05	.21	<.09
02...	*<.2*	*E.01*	*<.04*	*<.07*	*<.04*	*E.1*	*<.06*	*E.05*	*.20*	*<.09*
28...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.06	<.09
MAR										
07...	<.2	E.03	<.04	<.07	<.04	M	<.06	<.05	.12	<.09
APR										
04...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.14	<.09
MAY										
02...	<.2	E.01	<.04	<.07	<.04	E.1	<.06	<.05	.25	<.09
24...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.12	<.09
JUN										
27...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*<.1*	*<.06*	*<.05*	*<.04*	*<.09*
27...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*<.1*	*<.06*	*<.05*	*<.04*	*<.09*
27...	<.2	E.03	<.04	<.07	<.04	M	<.06	E.07	.11	<.09
JUL										
31...	<.2	E.02	<.04	<.07	<.04	M	<.06	<.05	.10	<.09
SEP										
07...	<.2	E.01	<.04	<.07	<.04	E.1	<.06	<.05	.34	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAMPLE TYPE	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
05...	0900	ENVIRONMENTAL	<.002	<.002	.019	<.002	<.002	E.005
NOV								
02...	0940	ENVIRONMENTAL	<.002	<.002	.036	<.002	<.002	<.003
DEC								
01...	1020	ENVIRONMENTAL	<.002	<.002	.013	<.002	<.002	<.003
JAN 2000								
04...	0920	ENVIRONMENTAL	<.002	<.002	.026	<.002	<.002	<.003
FEB								
02...	1100	ENVIRONMENTAL	<.002	<.002	.033	<.002	<.002	<.003
28...	1820	ENVIRONMENTAL	<.002	<.002	.012	<.002	<.002	E.008
MAR								
07...	0910	ENVIRONMENTAL	<.002	<.002	.017	<.002	<.002	<.003
APR								
04...	1330	ENVIRONMENTAL	<.002	<.002	.022	<.002	<.002	E.006
MAY								
02...	1010	ENVIRONMENTAL	<.002	<.002	.032	<.002	<.002	E.007
02...	*1011*	*SPLIT REPLICATE*	*<.002*	*<.002*	*.032*	*<.002*	*<.002*	*<.007*
24...	1040	ENVIRONMENTAL	.015	<.002	.167	<.002	<.002	E.006
JUN								
27...	1810	ENVIRONMENTAL	.006	E.003	.178	<.002	<.002	E.013
JUL								
31...	*1659*	*FIELD BLANK*	*<.002*	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*
31...	1700	ENVIRONMENTAL	<.002	<.002	.034	<.002	<.002	E.007
SEP								
07...	1510	ENVIRONMENTAL	<.002	<.002	.044	<.002	<.002	E.004

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 1999									
05...	<.003	<.004	<.004	<.002	E.027	E.003	<.001	<.002	<.003
NOV									
02...	<.003	<.004	<.004	<.002	E.042	<.002	<.001	<.002	<.003
DEC									
01...	<.003	<.004	<.004	<.002	E.013	<.002	<.001	<.002	<.003
JAN 2000									
04...	<.003	<.004	<.004	<.002	E.032	<.002	<.001	<.002	<.003
FEB									
02...	<.003	<.004	<.004	<.002	E.040	<.002	<.001	<.002	<.003
28...	<.003	<.004	<.004	<.002	E.019	<.002	<.001	<.002	<.003
MAR									
07...	<.003	<.004	<.004	<.002	E.030	<.002	<.001	<.002	<.003
APR									
04...	<.025	<.004	<.004	<.002	E.027	<.002	<.001	<.002	<.003
MAY									
02...	<.020	<.004	<.004	<.002	E.044	<.002	<.001	<.002	<.003
02...	*<.015*	*<.004*	*<.004*	*<.002*	*E.042*	*<.002*	*<.001*	*<.002*	*<.003*
24...	<.003	.005	.014	<.002	E.032	.006	<.001	<.002	<.003
JUN									
27...	<.003	E.002	.007	<.002	E.037	.008	<.001	<.002	<.003
JUL									
31...	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*
31...	<.003	<.004	<.004	<.002	E.031	.005	<.001	<.002	<.003
SEP									
07...	<.003	<.004	<.004	<.002	E.068	E.003	<.001	<.002	<.003

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT 1999									
05...	<.004	<.002	<.005	<.001	.011	<.004	<.003	<.006	<.004
NOV									
02...	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006	<.004
DEC									
01...	<.004	<.002	<.005	<.001	.006	<.004	<.003	<.006	<.004
JAN 2000									
04...	<.004	<.002	<.005	<.001	.009	<.004	<.003	E.001	<.004
FEB									
02...	<.004	<.002	<.005	<.013	.011	<.004	<.003	<.006	<.004
28...	<.004	<.002	<.005	<.001	.023	<.004	<.003	<.006	<.004
MAR									
07...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.004
APR									
04...	<.004	<.002	<.005	<.001	.012	<.004	<.003	E.002	<.004
MAY									
02...	<.004	<.002	<.005	<.001	.012	<.004	<.003	<.006	<.004
02...	*<.004*	*<.002*	*<.005*	*<.001*	*.012*	*<.004*	*<.003*	*<.006*	*<.004*
24...	<.004	<.002	<.005	<.001	.063	<.004	<.003	<.006	.013
JUN									
27...	<.004	<.002	<.005	<.001	.090	<.004	E.004	<.006	.007
JUL									
31...	*<.004*	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*	*<.004*
31...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
SEP									
07...	<.004	<.002	<.020	<.001	.009	<.004	<.003	<.006	<.004

E Estimated value.
< Actual value is known to be less than the value shown.

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
05...	E.005	<.003	<.007	<.004	.007	<.010	<.007	<.001	<.002
NOV									
02...	E.007	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
DEC									
01...	<.018	<.003	<.007	<.004	.007	<.010	<.007	<.001	<.002
JAN 2000									
04...	E.003	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
FEB									
02...	E.005	<.003	<.007	<.004	.011	<.010	<.007	<.001	<.002
28...	E.007	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
MAR									
07...	<.018	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002
APR									
04...	<.018	<.003	<.007	<.004	.011	<.010	<.007	<.001	<.002
MAY									
02...	<.018	<.003	<.007	<.004	.015	<.010	<.030	<.001	<.002
02...	*<.018*	*<.003*	*<.007*	*<.004*	*.014*	*<.010*	*<.007*	*<.001*	*<.002*
24...	<.018	<.003	<.007	<.004	.042	.013	<.007	<.001	E.001
JUN									
27...	E.006	<.003	<.007	<.004	.018	E.003	<.007	<.001	<.002
JUL									
31...	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.001*	*<.002*
31...	E.002	<.003	<.007	<.004	.011	<.010	<.007	<.001	<.002
SEP									
07...	E.012	<.003	<.007	<.004	.020	<.010	<.007	<.001	E.003

E Estimated value.
< Actual value is known to be less than the value shown.

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'32", long 75°11'20", Warren County, Hydrologic Unit 02040105, at bridge on State Highway 13 in Riegelsville, 0.2 mi north of Mount Joy, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--156 mi^2.

PERIOD OF RECORD.--Water years 1962, 1976 to current year.

REMARKS.--Water-quality samples do not include Riegelsville Paper Company bypass.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999 04...	1130	229	760	103	11.9	8.0	346	9.0	.108	.086
FEB 2000 15...	0920	352	760	99	13.4	7.6	362	2.5	.080	.063
MAY 04...	1130	318	764	108	10.9	8.5	377	15.0	.052	.037
AUG 02...	1230	320	758	103	9.3	8.1	320	20.0	.122	.094

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999 04...	120	27.6	13.2	2.0	21.4	96	37.5	<.1	9.3	18.1
FEB 2000 15...	100	22.8	10.4	1.9	30.1	69	57.2	<.1	8.8	15.5
MAY 04...	130	27.9	13.5	1.6	22.0	97	43.7	<.1	7.0	17.0
AUG 02...	110	24.4	11.4	1.6	16.9	90	33.7	<.1	9.5	14.1

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999 04...	.65	.82	.08	.070	2.4	2.2	1.57	.010	.010	.025
FEB 2000 15...	.77	1.2	.13	.100	2.9	2.5	1.77	.009	.034	.114
MAY 04...	.50	.62	<.03	<.030	2.2	2.1	1.62	.005	.010	.026
AUG 02...	.57	.84	<.03	<.030	2.3	2.1	1.49	.007	.039	.095

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999 04...	3.8	.3	<1.0	3	203	194	23	--	--
FEB 2000 15...	3.2	1.9	2.5	37	216	196	17	--	--
MAY 04...	2.2	.5	E1.7	--	212	198	E15	8.8	10
AUG 02...	3.9	1.5	<1.4	--	188	172	22	31	36

E Estimated value.
< Actual value is known to be less than the value shown.

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	0940	5400	5700	2600
09...	0920	790	300	260
16...	0935	790	700	290
23...	0915	790	100	150
30...	1015	170	200	550

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, Hydrologic Unit 02040105, just upstream from suspension bridge at Riegelsville, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct.1, 1931). Water-quality samples are collected from the bridge and do not include flow of the Musconetcong River.

DRAINAGE AREA.--6,328 mi^2.

PERIOD OF RECORD.--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
17...	1100	5050	762	106	13.4	7.7	189	5.5	.068	.052
FEB 2000										
07...	1000	5220	761	101	14.0	7.7	181	2.0	.055	.042
MAY										
17...	1100	15300	762	90	8.9	7.5	108	16.0	.104	.088
AUG										
29...	1100	4520	761	103	8.9	8.0	222	22.5	.069	.052

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
17...	65	17.1	5.48	1.4	10.2	45	15.5	<.1	3.3	17.5
FEB 2000										
07...	62	16.3	5.32	1.2	11.4	42	18.4	<.1	4.7	16.3
MAY										
17...	37	9.85	3.06	.8	6.9	26	10.2	<.1	3.1	10.7
AUG										
29...	75	18.9	6.80	1.4	11.5	56	16.2	<.1	3.1	19.6

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
17...	.16	.26	.05	<.030	1.1	.99	.827	.007	.056	.067
FEB 2000										
07...	.14	.17	<.03	<.030	1.2	1.2	1.07	.006	.053	.064
MAY										
17...	.19	.31	.03	<.030	.79	.68	.480	.005	.035	.058
AUG										
29...	.24	.28	.06	<.030	1.2	1.1	.907	.004	.064	.075

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
17...	2.6	.3	E1.6	<1	103	101	21	--	--
FEB 2000									
07...	2.4	.2	E1.0	<1	117	103	18	--	--
MAY									
17...	2.9	.4	<1.0	--	69	63	E8	372	9
AUG									
29...	2.8	.4	<1.0	--	124	115	16	16	1

E Estimated value.
< Actual value is known to be less than the value shown.

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
02...	0950	16	6900	8400
09...	0915	1300	<100	30
16...	0930	330	100	40
23...	0905	70	200	60
30...	1005	110	<100	20

< Actual value is known to be less than the value shown.

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ

LOCATION.--Lat 40°32'32", long 75°02'49", Hunterdon County, Hydrologic Unit 02040105, 1.3 mi north of Frenchtown, 2.1 mi upstream from Delaware River, and 3.1 mi southeast of Milford.

DRAINAGE AREA.--10.1 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
04...	0840	15	759	97	11.4	7.3	180	8.0	.089	.069
FEB 2000										
15...	1230	58	758	96	13.8	6.9	146	.5	.116	.092
MAY										
08...	0900	5.8	755	95	8.7	7.6	180	19.0	.055	.043
AUG										
02...	0930	7.8	757	92	8.2	7.6	143	20.5	.175	.140

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
04...	63	15.7	5.77	1.9	10.0	41	12.3	<.1	11.2	18.7
FEB 2000										
15...	41	10.3	3.70	1.9	9.5	21	18.4	<.1	7.4	11.2
MAY										
08...	62	15.8	5.51	1.7	8.7	44	11.4	<.1	6.6	14.0
AUG										
02...	49	12.7	4.17	2.0	6.7	40	9.3	<.1	10.9	8.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
04...	.17	.31	E.03	<.030	2.7	2.6	2.40	<.003	.023	.028
FEB 2000										
15...	.27	.45	.06	.050	2.3	2.2	1.90	.003	.053	.090
MAY										
08...	.19	.25	<.03	<.030	2.2	2.1	1.96	.012	.035	.044
AUG										
02...	.36	.52	<.03	.040	1.7	1.5	1.13	<.003	.066	.128

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
04...	3.0	.2	E1.6	<1	115	111	41	--	--
FEB 2000									
15...	4.0	.4	2.0	14	92	83	22	--	--
MAY									
08...	2.2	.5	1.9	--	108	99	--	.07	4
AUG									
02...	4.5	1.7	E1.0	--	95	84	25	.81	38

E Estimated value.
< Actual value is known to be less than the value shown.

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	1000	50	<100	210
13...	0930	70	<100	120
20...	0930	70	100	150
27...	1030	1300	1100	2700
AUG 2000				
03...	1000	130	100	600

< Actual value is known to be less than the value shown.

01458710 COPPER CREEK NEAR FRENCHTOWN, NJ

LOCATION.--Lat 40°30'39", long 75°02'43", Hunterdon County, Hydrologic Unit 02040105, at bridge on Horseshoe Bend Road, 1.1 mi upstream from mouth, 0.8 mi south of intersection of Horseshoe Bend Road and County Route 610, and 1.2 mi southeast of Frenchtown.

DRAINAGE AREA.--2.52 mi^2.

PERIOD OF RECORD.--December 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
08...	1045	770	103	13.1	7.9	177	5.5	.066	.049	62
FEB 2000										
23...	1015	770	96	13.2	7.1	161	2.5	.065	.050	51
JUN										
06...	1030	756	91	9.3	7.5	185	14.0	.061	.046	66
AUG										
07...	1030	758	120	10.8	7.6	227	20.0	.058	.043	86

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 1999									
08...	14.7	6.22	2.2	6.8	38	7.4	<.1	11.0	22.6
FEB 2000									
23...	11.9	5.11	1.9	9.8	29	14.4	<.1	9.2	15.7
JUN									
06...	15.7	6.51	2.3	8.2	44	9.2	<.1	10.4	21.3
AUG									
07...	21.5	7.75	2.6	8.2	57	14.6	<.1	11.5	22.8

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
DEC 1999									
08...	.18	.25	.07	<.030	3.3	3.3	3.10	<.003	.060
FEB 2000									
23...	.31	.23	<.03	<.030	2.5	2.6	2.30	<.003	.072
JUN									
06...	.22	.25	<.03	<.030	2.1	2.1	1.83	<.003	.098
AUG									
07...	.20	.22	<.03	<.030	1.3	1.3	1.12	<.003	.093

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999									
08...	.069	2.7	<.2	E1.9	2	109	107	36	--
FEB 2000									
23...	.077	2.4	<.2	3.3	<1	104	95	35	--
JUN									
06...	.106	2.5	.3	E1.5	--	113	108	41	2
AUG									
07...	.096	2.4	.3	E1.0	--	136	128	43	7

E Estimated value.
< Actual value is known to be less than the value shown.

01458710 COPPER CREEK NEAR FRENCHTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 07...	1030	<3	58.0	<1	43	<1.0	<1	1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 07...	<20	<1	5	<.3	<1	<1	<1	<1

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 23...	1015	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL WATER UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL WATER UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 23...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 23...	<.10	.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 2000 06...	1030	<.002	<.002	.023	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.034

< Actual value is known to be less than the value shown.

01458710 COPPER CREEK NEAR FRENCHTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DISSOLVED (UG/L) (39572)	DI-ELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DISSOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
JUN 2000											
06...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.079	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
JUN 2000											
06...	<.006	<.004	E.004	<.003	<.007	<.004	E.003	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	1020	50	<100	70
13...	1000	330	200	540
20...	0945	60	<100	140
27...	1100	3500	1800	3100
AUG 2000				
03...	1015	9200	1800	600

E Estimated value.
< Actual value is known to be less than the value shown.

01461000 DELAWARE RIVER AT LUMBERVILLE, PA

LOCATION.--Lat 40°24'27", long 75°02'16", Bucks County, Hydrologic Unit 02040105, at pedestrian bridge at Lumberville, 1.4 mi upstream from Lockatong Creek.

DRAINAGE AREA.--6,598 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
DEC 1999										
07...	1030	9650	764	96	11.8	7.7	163	6.5	.085	.065
MAR 2000										
01...	1000	43400	762	94	12.6	7.1	109	3.0	.098	.075
MAY										
04...	1100	11000	768	104	10.7	7.9	146	14.5	.065	.050
SEP										
07...	1030	4250	772	97	8.8	8.2	233	20.5	.073	.055

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 1999										
07...	54	13.8	4.62	1.2	8.5	37	13.9	<.1	4.8	15.6
MAR 2000										
01...	29	7.88	2.21	.9	7.8	16	13.4	<.1	4.1	9.2
MAY										
04...	54	14.2	4.54	.8	8.4	37	13.7	<.1	2.7	13.9
SEP										
07...	80	20.3	7.15	1.5	12.0	60	17.7	<.1	2.5	18.7

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
DEC 1999										
07...	.15	.23	<.03	<.030	1.1	1.1	.917	<.003	.037	.050
MAR 2000										
01...	.26	.64	.03	<.030	1.4	.98	.716	<.003	.021	.119
MAY										
04...	.16	.24	<.03	--	.84	.76	.602	<.003	.027	.040
SEP										
07...	.22	.29	.04	<.030	1.1	1.1	.855	.023	.056	.061

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999									
07...	2.9	.3	E1.6	<1	95	89	E13	--	--
MAR 2000									
01...	3.1	3.2	E1.5	43	66	58	E9	--	--
MAY									
04...	2.3	.4	E1.4	--	90	83	E13	125	4
SEP									
07...	2.7	.2	<1.2	--	132	120	17	3.4	M

E Estimated value.
< Actual value is known to be less than the value shown.

01461000 DELAWARE RIVER AT LUMBERVILLE, PA--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
06...	1045	230	100	80
13...	1040	140	<100	70
20...	1030	5400	700	420
27...	1125	230	400	210
AUG 2000				
03...	1030	490	900	500

< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, Hydrologic Unit 02040105, New Jersey Department of Environmental Protection Watershed Management Area 11, on left bank 450 ft upstream from Calhoun Street Bridge at Trenton, 0.5 mi upstream from Assunpink Creek, and at mile 134.5.

DRAINAGE AREA.--6,780 mi^2.

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

PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: October 1962 to current year. Recorded as once daily during 1979.
pH: June 1968 to current year. Recorded as once daily during 1979.
SPECIFIC CONDUCTANCE: October 1963 to current year. Recorded as once daily during years 1964 to 1968, 1979.
SUSPENDED SEDIMENT DISCHARGE: September 1949 to September 1981.
WATER TEMPERATURE: October 1944 to current year. Recorded as once daily during years 1945 to 1953, 1962, 1964, 1979.
TURBIDITY: November 1999 to September 2000.

INSTRUMENTATION.--
TEMPERATURE MONITOR (graphic recorder at gage house, in situ system):
October 1953 to September 1961.
TEMPERATURE / DISSOLVED-OXYGEN MONITOR:
October 1962 to September 1965: graphic recorder; only dissolved-oxygen concentration recorded during water year 1964.
October 1965 to May 1968: digital recorder.
WATER-QUALITY MONITOR (continuous pumping system, measurements recorded hourly):
June 1968 to August 1975: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
November 1975 to November 1978: water withdrawn from river through PVC pipe to gage house outside Trenton Water Filtration Plant, Trenton, NJ.
December 1979 to September 1986: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
WATER-QUALITY MONITOR (in situ system, measurements recorded hourly):
October 1986 to September 1995: probes located inside raw-water intake of Trenton Water Filtration Plant, Trenton, NJ.
October 1995 to current year: monitor suspended within stilling well of Morrisville Water Filtration Plant, Morrisville, PA., 1600 feet upstream from the gage house.

REMARKS.--Nutrient samples on Nov. 29 at 1101, Mar. 09 at 1201, May 26 at 0911, and Aug. 28 at 1041 were collected to fulfill the requirements of the Ambient Stream Monitoring Program. Missing continuous water-quality records are the result of instrument malfunction or interruption of flow through the filtration plant. Unpublished records of suspended-sediment discharge for the period Oct. 1, 1981, to Mar. 31, 1982, are available at the U.S. Geological Survey Office in West Trenton, NJ. For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section. Beginning October, 1999, pH daily value tables will report maximum, minimum and median values.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. Coli, enterococci bacteria, and dissolved hexavalent chromium on Nov. 29 at 1102, Mar. 09 at 1202, May 26 at 0912, and Aug. 28 at 1042 were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Samples were collected in conjunction with those for the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

EXTREMES FOR PERIOD OF DAILY RECORD.--
DISSOLVED OXYGEN: maximum, 20.0 mg/L, Feb. 11, 1989; minimum, 4.0 mg/L, Nov. 9, 1972, Sept. 9, 1995.
pH: maximum, 10.3, Aug. 9, 10, 1983; minimum 5.3, June 22, 1972.
SPECIFIC CONDUCTANCE: maximum, 468 uS/cm, Jan. 11, 1999; minimum, 63 uS/cm, July 7, 1984.
WATER TEMPERATURE: maximum, 34.0°C, June 18, 1957; minimum -0.6°C, on many days during winter months in water years 1954-57.
TURBIDITY: maximum, 460 ntu, May 19, 2000; minimum, 0 ntu, on many days in water year 2000.

EXTREMES FOR CURRENT YEAR.--
DISSOLVED OXYGEN: Maximum, 15.7 mg/L, Feb. 10; minimum, 6.4 mg/L, Sept. 17.
pH: Maximum, 9.1 units, Oct. 31, Nov. 1, July 12; minimum, 6.7 units, May 2.
SPECIFIC CONDUCTANCE: Maximum, 253 microsiemens/cm, Sept. 15; minimum, 93 microsiemens/cm, June 9.
WATER TEMPERATURE: Maximum, 27.0°C, Aug. 10, Sept. 2-4; minimum, 0.0°C, on many days during January and February.
TURBIDITY: Maximum, 460 ntu, May 19; minimum, 0 ntu, on many days.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1999										
05...	1610	ENVIRONMENTAL	9750	763	110	10.8	7.9	182	15.0	16.1
NOV										
03...	1420	ENVIRONMENTAL	8610	757	101	10.6	8.0	202	11.0	13.2
29...	1100	ENVIRONMENTAL	22800	769	108	12.5	7.4	119	8.0	9.2
29...	1101	ENVIRONMENTAL	--	--	--	--	--	--	--	--
29...	1102	ENVIRONMENTAL	--	--	--	--	--	--	--	--
JAN 2000										
12...	1130	ENVIRONMENTAL	11800	766	106	13.9	7.8	186	9.0	4.3
FEB										
15...	1110	ENVIRONMENTAL	E8300	765	117	16.2	7.7	224	5.0	2.0
15...	*1111*	*REPLICATE*	--	--	--	--	--	--	--	--
28...	0930	ENVIRONMENTAL	29600	762	106	14.6	6.9	153	9.5	2.1
29...	1530	ENVIRONMENTAL	62400	765	--	--	7.0	123	12.5	--
MAR										
02...	0830	ENVIRONMENTAL	36500	757	91	12.0	7.2	115	8.5	3.6
09...	1200	ENVIRONMENTAL	16800	754	108	12.6	7.5	145	19.0	8.3
09...	1201	ENVIRONMENTAL	--	--	--	--	--	--	--	--
09...	1202	ENVIRONMENTAL	--	--	--	--	--	--	--	--
APR										
04...	0900	ENVIRONMENTAL	14900	--	--	10.8	7.6	154	16.5	11.8
MAY										
01...	1230	ENVIRONMENTAL	14600	--	--	--	7.8	151	22.5	12.8
26...	*0908*	*FIELD BLANK*	--	--	--	--	--	--	--	--
26...	*0909*	*FIELD BLANK*	--	--	--	--	--	--	--	--
26...	0910	ENVIRONMENTAL	40600	759	--	E10.4	7.2	105	20.0	E16.1
26...	0911	ENVIRONMENTAL	--	--	--	--	--	--	--	--
26...	0912	ENVIRONMENTAL	--	--	--	--	--	--	--	--
JUN										
28...	1000	ENVIRONMENTAL	E14400	765	87	7.3	7.4	153	25.0	24.3
AUG										
01...	1040	ENVIRONMENTAL	10400	766	100	8.5	7.7	194	27.0	23.9
28...	1040	ENVIRONMENTAL	5230	761	--	--	7.8	225	28.5	24.5
28...	1041	ENVIRONMENTAL	--	--	--	--	--	--	--	--
28...	1042	ENVIRONMENTAL	--	--	--	--	--	--	--	--

DATE	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT 1999												
05...	--	--	60	15.5	5.09	1.3	9.4	--	38	46	15.4	<.1
NOV												
03...	--	--	69	17.3	6.36	1.6	10.9	--	46	57	16.6	<.1
29...	.102	.079	38	10.5	2.91	1.1	7.3	26	24	29	12.4	<.1
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 2000												
12...	--	--	60	15.4	5.20	1.2	9.7	--	40	49	15.8	<.1
FEB												
15...	--	--	63	15.9	5.65	1.6	14.7	--	39	47	27.1	<.1
15...	--	--	*62*	*15.8*	*5.60*	*1.6*	*14.5*	--	--	--	*26.4*	*<.1*
28...	--	--	40	10.8	3.18	1.0	10.7	--	22	26	19.4	<.1
29...	--	--	30	8.48	2.26	.9	9.0	--	14	17	16.6	<.1
MAR												
02...	--	--	31	8.49	2.49	.9	7.8	--	16	20	13.1	<.1
09...	.065	.050	44	11.8	3.66	.9	8.9	28	26	32	14.8	<.1
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	--	--	45	8.79	5.67	1.0	12.2	--	32	40	14.1	<.1
MAY												
01...	--	--	48	12.4	4.02	1.0	8.3	--	31	38	14.2	<.1
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*
26...	.106	.081	31	8.60	2.41	.9	5.7	22	--	--	8.9	<.1
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
28...	--	--	52	13.6	4.34	1.0	8.2	--	37	45	12.2	<.1
AUG												
01...	--	--	61	15.2	5.53	1.3	10.0	--	42	52	14.9	<.1
28...	.074	.056	76	19.4	6.72	1.3	12.0	56	--	--	17.9	<.1
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 1999												
05...	3.6	18.4	.23	.30	--	<.020	1.2	1.1	.907	<.010	.045	.029
NOV												
03...	2.7	19.7	.21	.58	--	<.020	1.4	1.0	.804	<.010	.050	.032
29...	3.1	11.9	.21	.59	--	<.020	1.1	.68	.470	<.010	.021	<.010
29...	--	--	.20	--	--	--	--	.66	.460	--	.018	--
29...	--	--	--	--	<.03	<.030	--	--	--	<.003	--	--
JAN 2000												
12...	4.3	16.4	.16	.25	--	.020	1.3	1.2	1.03	<.010	.053	.039
FEB												
15...	4.2	16.2	.35	.41	--	.037	1.6	1.5	1.16	<.010	.051	.040
15...	*4.1*	*16.3*	*.28*	*.44*	--	*.029*	*1.6*	*1.5*	*1.17*	*<.010*	*.050*	*.038*
28...	4.4	11.5	.20	.86	--	.056	1.7	1.0	.819	<.010	.015	<.010
29...	3.9	9.3	.24	.73	--	.044	1.4	.95	.711	<.010	.025	<.010
MAR												
02...	4.1	9.6	.17	.37	--	<.020	1.1	.89	.719	<.010	.020	.012
09...	4.0	12.9	.13	.25	--	.021	1.0	.91	.785	<.010	.008	.023
09...	--	--	.19	--	--	--	--	.97	.779	--	.025	--
09...	--	--	--	--	<.03	<.030	--	--	--	<.003	--	--
APR												
04...	14.6	13.4	.14	.22	--	<.020	.99	.91	.766	<.010	.022	.016
MAY												
01...	2.9	13.6	.13	.25	--	<.020	.86	.74	.614	<.010	.020	.014
26...	--	--	*<.10*	--	--	--	--	--	*<.037*	--	*<.007*	--
26...	*<.1*	*<.3*	*<.10*	*<.10*	--	*<.020*	--	--	*<.050*	*<.010*	*<.006*	*<.010*
26...	3.6	10.1	.21	.55	--	<.020	1.0	.69	.472	<.010	.022	.016
26...	--	--	.37	--	--	--	--	.85	.475	--	.024	--
26...	--	--	--	--	<.03	.050	--	--	--	.005	--	--
JUN												
28...	3.6	12.8	.18	.33	--	<.020	1.1	.95	.763	<.010	.042	.031
AUG												
01...	3.8	17.7	.23	.39	--	<.020	1.2	1.0	.798	<.010	.067	.046
28...	2.7	17.9	.19	.25	--	<.020	.96	.90	.707	<.010	.048	.032
28...	--	--	.27	--	--	--	--	.99	.720	--	.049	--
28...	--	--	--	--	<.03	<.030	--	--	--	<.003	--	--

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999											
05...	.062	3.4	.3	--	--	109	96	--	6	155	6
NOV											
03...	.107	4.1	.8	--	--	122	107	--	--	232	10
29...	.088	3.3	1.7	--	24	72	66	4.0	26	1990	32
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	E1.5	--	--	--	--	--	--	--
JAN 2000											
12...	.070	2.4	.5	--	--	110	97	--	6	213	7
FEB											
15...	.106	2.9	.4	--	--	135	114	--	25	--	16
15...	*.091*	--	--	--	--	*134*	--	--	--	--	*15*
28...	.065	2.5	>4.0	--	--	86	78	--	47	6210	78
29...	.231	2.8	>4.0	--	--	71	62	--	--	34400	204
MAR											
02...	.071	2.9	.9	--	--	69	59	--	29	2970	30
09...	.039	2.3	.4	--	<10	86	76	1.5	4	200	4
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	5.9	--	--	--	--	--	--	--
APR											
04...	.034	2.1	.3	--	--	82	93	--	4	201	5
MAY											
01...	.040	2.5	--	--	--	87	78	--	4	351	9
26...	--	--	--	--	--	--	--	--	--	--	--
26...	*<.008*	--	--	--	--	*<10*	--	--	--	--	--
26...	.101	3.0	2.4	--	34	67	55	23	E41	5800	53
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	3.4	--	--	--	--	--	--	--
JUN											
28...	.075	3.0	.6	--	--	94	81	--	19	--	13
AUG											
01...	.099	3.5	.4	--	--	108	98	--	16	556	20
28...	.057	2.6	<.2	--	<10	125	115	1.4	1	25	2
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	E1.4	--	--	--	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 1999								
29...	1100	ENVIRONMENTAL	<3	29.5	<5	E10	E14	.1
MAR 2000								
09...	1200	ENVIRONMENTAL	<3	26.7	<1	E12	<12	<1.0
MAY								
26...	*0909*	*FIELD BLANK*	*<3*	*<.9*	*<1*	*<16*	*<12*	*<1.0*
26...	0910	ENVIRONMENTAL	<3	33.1	<1	E9	<12	<1.0
AUG								
28...	1040	ENVIRONMENTAL	<3	23.6	<1	24	18	<1.0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV 1999									
29...	<.8	E1	E1	4	30	600	<1	2	2
MAR 2000									
09...	<.8	3	E1	1	20	150	<1	<1	14
MAY									
26...	*<.8*	*<1*	*<1*	*<1*	*<10*	*<20*	*<1*	*<1*	*<2*
26...	<.8	E1	E1	3	40	980	<1	3	3
AUG									
28...	<.8	E1	E1	2	40	110	<1	<1	5

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV 1999									
29...	155	<.2	<.3	<1	3	<3	<1	<20	44
MAR 2000									
09...	30	<.2	<.3	<1	2	<1	<1	<20	15
MAY									
26...	*<3*	*<.2*	*<.3*	*<1*	*<1*	*<1*	*<1*	*<20*	*3*
26...	191	<.2	<.3	E1	2	<1	<1	<20	31
AUG									
28...	16	<.2	<.3	<1	<1	<1	<1	<20	6

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were anlayzed for volatile organic compounds (VOCs) using laboratory schedule 2020 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)
OCT 1999									
07...	1240	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	9	<.1
NOV									
03...	1420	ENVIRONMENTAL	M	<.06	<.07	<.04	<.07	10	<.1
29...	1100	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E5	<.1
JAN 2000									
12...	1130	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	16	<.1
FEB									
15...	1110	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	9	<.1
15...	*1111*	*REPLICATE*	*<.03*	*<.06*	*<.07*	*<.04*	*<.07*	*8*	*<.1*
28...	0930	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E3	<.1
29...	1530	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E2	<.1
MAR									
02...	0830	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E2	<.1
09...	1200	ENVIRONMENTAL	E.01	<.06	<.07	<.04	<.07	E4	<.1
APR									
04...	0900	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E5	<.1
MAY									
01...	1230	ENVIRONMENTAL	M	<.06	<.07	<.04	<.07	E4	M
26...	0910	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	E2	<.1
AUG									
01...	*1039*	*FIELD BLANK*	*<.03*	*<.06*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*
01...	1040	ENVIRONMENTAL	<.03	<.06	<.07	<.04	<.07	8	<.1

DATE	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
OCT 1999											
07...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
NOV											
03...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	M	<.06
29...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JAN 2000											
12...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
FEB											
15...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
15...	*<.2*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*E.01*	*<.06*
28...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
29...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
MAR											
02...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
09...	<.2	E.01	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	E.03
APR											
04...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAY											
01...	<.2	.13	E.03	<.05	<.05	<.03	<.2	E.01	<.05	E.04	<.06
26...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
AUG											
01...	*<.2*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
01...	<.2	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999											
07...	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1
NOV											
03...	<.07	<.06	<.03	<.2	<.1	E.03	E.01	<.05	<.2	<.05	<.1
29...	<.07	<.06	<.03	<.2	<.1	E.02	E.01	<.05	<.2	<.05	<.1
JAN 2000											
12...	<.07	<.06	<.03	<.2	<.1	E.05	<.04	<.05	<.2	<.05	<.1
FEB											
15...	<.07	<.06	<.03	<.2	<.1	E.04	E.02	<.05	<.2	<.05	<.1
15...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*E.04*	*E.02*	*<.05*	*<.2*	*<.05*	*<.1*
28...	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1
29...	E.01	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
MAR											
02...	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
09...	<.07	<.06	<.03	<.2	<.1	E.03	E.01	<.05	<.2	<.05	<.1
APR											
04...	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1
MAY											
01...	<.07	<.06	<.03	<.2	<.1	E.03	E.01	<.05	<.2	<.05	<.1
26...	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
AUG											
01...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
01...	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
07...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
NOV										
03...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
29...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JAN 2000										
12...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
FEB										
15...	<.03	<.06	<2	<.2	.2	<.5	<.4	<2	<.4	<.06
15...	*<.03*	*<.06*	*<2*	*<.2*	*.2*	*<.5*	*M*	*<2*	*<.4*	*<.06*
28...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
29...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAR										
02...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
09...	E.01	<.06	<2	<.2	E.1	<.5	M	<2	<.4	E.02
APR										
04...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAY										
01...	E.06	<.06	E4	<.2	.6	<.5	<.4	<2	<.4	.25
26...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
AUG										
01...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
01...	<.03	<.06	<2	<.2	.4	M	<.4	<2	<.4	<.06

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
OCT 1999										
07...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	E.02	E.02	<.09
NOV										
03...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.01	E.02	<.09
29...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.03	E.02	<.09
JAN 2000										
12...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.02	E.03	<.09
FEB										
15...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.03	E.03	<.09
15...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.03*	*E.03*	*<.09*
28...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.04	E.02	<.09
29...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	E.04	E.02	<.09
MAR										
02...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	E.02	<.04	<.09
09...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.04	E.02	<.09
APR										
04...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	E.04	<.04	<.09
MAY										
01...	<.2	<.04	.10	<.07	<.04	M	E.02	.32	E.03	<.09
26...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	E.03	E.01	<.09
AUG										
01...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*<.1*	*<.06*	*<.05*	*<.04*	*<.09*
01...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.01	E.02	<.09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
OCT 1999												
05...	1610	<.002	<.002	.017	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.019
NOV												
03...	1420	<.002	<.002	.022	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.027
29...	1100	<.002	<.002	.008	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.009
JAN 2000												
12...	1130	<.002	<.002	.019	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.021
FEB												
15...	1110	<.002	<.002	.016	<.002	<.002	<.003	<.003	<.004	<.008	<.002	E.021
28...	0930	<.002	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.012
29...	1530	<.002	<.002	.006	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.007
MAR												
09...	1200	<.002	<.002	.010	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.013
APR												
04...	0900	<.002	<.002	.013	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.019
MAY												
01...	1230	<.002	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.013
26...	0910	.010	<.002	.077	<.002	<.002	E.002	<.003	E.002	.007	E.001	E.020
JUN												
28...	1000	.005	.004	.090	<.002	<.002	E.004	<.003	<.004	.006	<.002	E.021
AUG												
01...	1040	<.002	<.002	.036	<.002	<.002	E.014	<.003	<.004	<.004	<.002	E.030
28...	1040	<.002	<.002	.024	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.029

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT 1999												
05...	<.007	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006
NOV												
03...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006
29...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
JAN 2000												
12...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006
FEB												
15...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006
28...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006
29...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006
MAR												
09...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
APR												
04...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006
MAY												
01...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
26...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.045	<.004	<.003	<.006
JUN												
28...	.005	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.068	<.004	<.003	<.006
AUG												
01...	.005	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003	<.006
28...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999											
05...	<.004	E.005	<.003	<.007	<.004	.012	<.010	<.007	--	<.001	<.002
NOV											
03...	<.004	E.007	<.003	<.007	<.004	.007	<.010	<.007	E.007	<.001	<.002
29...	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	--	<.001	<.002
JAN 2000											
12...	<.004	E.003	<.003	<.007	<.004	E.004	<.010	<.007	E.003	<.001	<.002
FEB											
15...	<.004	E.009	<.003	<.007	<.004	.008	<.010	<.007	--	<.001	<.002
28...	<.004	<.018	<.003	<.007	<.004	<.010	<.010	<.007	--	<.001	<.002
29...	<.004	E.004	<.003	<.007	<.004	.004	<.010	<.007	--	<.001	<.002
MAR											
09...	<.004	<.018	<.003	<.007	<.004	.006	<.010	<.007	.005	<.001	<.002
APR											
04...	<.004	<.018	<.003	<.007	<.004	.006	<.010	<.007	--	<.001	E.002
MAY											
01...	<.004	<.018	<.003	<.007	<.004	<.010	<.010	<.007	--	<.001	<.002
26...	.007	<.018	<.003	<.007	<.004	.015	E.003	<.007	--	<.001	<.002
JUN											
28...	<.004	E.012	<.003	<.007	<.004	.016	<.010	<.007	--	<.001	<.002
AUG											
01...	<.004	E.007	<.003	<.007	<.004	.036	<.010	<.007	--	<.001	<.002
28...	<.004	E.006	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected throughout the year and synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
NOV 1999				
29...	1102	330	--	270
MAR 2000				
09...	1202	20	--	10
MAY				
26...	0912	40	--	260
JUN				
27...	1038	20	<100	10
28...	0915	1300	100	100
JUL 2000				
11...	0943	<20	<100	20
18...	1046	3500	900	50
25...	1203	20	200	10
AUG				
28...	1042	130	--	<10

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.8	8.6	9.1	14.6	10.9	12.6	13.0	12.3	12.7	13.9	13.6	13.7
2	10.2	8.9	9.5	11.8	9.8	10.7	13.5	12.9	13.2	13.8	13.5	13.7
3	10.7	9.2	9.8	10.8	9.4	10.1	13.6	13.2	13.4	13.7	13.2	13.5
4	10.0	9.2	9.6	10.8	10.0	10.4	13.5	13.2	13.3	13.3	12.5	13.0
5	10.1	9.3	9.7	11.4	10.6	11.0	13.4	13.0	13.2	12.6	12.2	12.4
6	11.3	9.7	10.4	11.9	11.0	11.4	13.0	12.4	12.7	13.2	12.3	12.9
7	11.8	10.0	10.8	12.2	10.9	11.5	12.6	12.2	12.4	13.4	12.8	13.1
8	12.4	10.4	11.3	12.6	11.3	11.9	12.9	12.4	12.6	13.7	13.0	13.4
9	12.3	10.5	11.2	12.9	11.5	12.2	13.1	12.6	12.8	13.7	13.3	13.5
10	11.1	10.0	10.4	12.9	11.4	12.1	12.9	12.7	12.8	13.4	12.9	13.1
11	11.6	9.7	10.5	12.8	11.1	11.9	13.1	12.6	12.9	12.9	12.5	12.8
12	12.0	9.9	10.8	13.2	11.4	12.2	13.5	12.9	13.2	13.2	12.6	12.9
13	11.8	9.9	10.7	13.1	11.4	12.3	13.6	13.3	13.4	13.3	12.9	13.1
14	11.3	9.7	10.4	13.2	11.4	12.2	13.4	13.0	13.2	14.4	13.3	13.9
15	11.9	10.1	10.9	13.6	11.4	12.5	13.0	12.8	12.9	14.9	14.3	14.6
16	12.1	10.3	11.1	14.1	11.7	12.9	12.9	12.6	12.8	15.0	14.7	14.8
17	11.5	10.2	10.8	14.7	12.4	13.5	13.2	12.7	13.0	---	---	---
18	11.9	10.1	10.9	15.1	12.7	13.9	13.4	12.8	13.1	---	---	---
19	12.1	10.5	11.2	15.4	12.8	14.0	13.5	13.1	13.3	15.3	15.0	15.2
20	11.2	10.6	10.8	15.3	12.6	13.9	13.4	13.1	13.3	15.1	14.8	14.9
21	12.4	10.5	11.3	15.2	12.1	13.6	13.3	12.8	13.1	15.1	14.8	14.9
22	12.5	10.7	11.5	13.5	11.7	12.7	13.3	12.9	13.2	15.3	15.0	15.2
23	12.4	10.5	11.4	14.0	11.3	12.6	13.6	13.1	13.4	15.5	15.0	15.2
24	12.5	10.7	11.6	13.7	11.1	12.3	13.7	13.1	13.4	15.3	14.8	15.1
25	13.3	10.9	12.1	12.1	10.7	11.4	14.2	13.5	13.9	14.9	14.4	14.7
26	13.9	11.3	12.5	12.4	10.3	11.1	14.4	14.0	14.2	14.7	14.4	14.6
27	13.8	11.3	12.4	11.5	10.1	10.7	14.4	14.1	14.3	15.0	14.5	14.8
28	14.1	11.4	12.6	11.2	10.5	10.8	14.4	14.1	14.2	15.4	14.8	15.2
29	14.6	11.5	12.9	11.6	11.1	11.4	14.2	14.0	14.1	15.6	15.0	15.3
30	14.8	11.4	12.9	12.3	11.6	12.0	14.1	13.9	14.0	15.6	15.1	15.4
31	14.7	11.2	12.7	---	---	---	13.9	13.6	13.7	15.4	14.8	15.2
MONTH	14.8	8.6	11.1	15.4	9.4	12.1	14.4	12.2	13.3	15.6	12.2	14.1

< Actual value is known to be less than the value shown.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	15.2	14.7	15.0	---	---	---	12.0	11.4	11.7	11.6	10.4	11.1
2	15.3	14.8	15.0	---	---	---	11.9	11.3	11.6	11.1	9.8	10.5
3	15.3	14.7	15.0	13.7	13.6	13.6	11.5	11.0	11.2	11.5	9.7	10.5
4	15.1	14.5	14.9	13.7	13.4	13.6	11.2	10.3	10.7	11.6	9.5	10.5
5	15.0	14.4	14.7	13.5	13.2	13.4	11.3	10.2	10.8	11.6	9.1	10.3
6	15.1	14.5	14.8	13.5	13.1	13.3	11.4	10.6	11.0	11.6	8.5	10.0
7	15.1	14.5	14.8	13.3	12.9	13.1	11.3	10.9	11.1	11.0	8.4	9.8
8	15.4	14.8	15.0	12.9	12.4	12.7	11.9	10.9	11.4	11.1	7.7	9.4
9	15.6	15.0	15.3	12.4	12.0	12.3	11.9	10.7	11.3	11.0	7.7	9.4
10	15.7	14.8	15.1	12.2	11.8	12.0	12.2	11.0	11.6	9.4	7.1	8.0
11	15.2	14.4	14.7	12.0	11.7	11.8	12.1	10.9	11.6	10.0	6.8	8.5
12	15.2	14.3	14.7	12.4	11.7	12.0	12.9	11.2	12.1	9.0	7.5	8.2
13	15.4	15.1	15.3	12.9	12.4	12.7	13.5	11.9	12.7	8.8	7.5	8.1
14	15.4	14.4	15.1	13.2	12.8	13.0	13.6	12.0	12.8	8.6	7.7	8.0
15	15.3	14.6	14.9	13.1	12.8	13.0	12.9	11.7	12.2	8.6	7.9	8.3
16	15.1	14.4	14.9	12.8	12.1	12.5	13.4	11.4	12.1	8.9	8.2	8.7
17	15.4	14.5	15.0	12.1	11.8	12.0	11.9	10.8	11.2	9.0	8.5	8.8
18	15.3	14.8	15.0	12.7	11.9	12.4	12.0	10.6	11.3	9.0	8.4	8.7
19	15.2	14.8	15.0	13.0	12.6	12.8	12.9	11.0	11.8	8.6	8.2	8.4
20	15.4	14.7	15.2	12.9	12.6	12.8	12.2	10.9	11.6	9.2	8.4	8.8
21	15.6	14.6	15.2	12.8	12.5	12.6	11.5	10.8	11.2	9.7	9.1	9.4
22	15.6	14.6	15.2	12.6	12.3	12.5	11.2	9.5	10.9	9.9	9.5	9.7
23	15.4	14.5	15.0	12.5	11.9	12.3	11.5	9.5	11.0	10.0	9.6	9.9
24	15.2	14.2	14.8	11.9	11.4	11.7	11.8	10.9	11.5	9.9	9.2	9.6
25	14.8	13.7	14.2	11.4	10.9	11.3	11.5	10.7	11.3	9.4	8.9	9.2
26	14.1	13.2	13.6	11.1	10.6	10.9	11.8	11.2	11.4	9.0	8.5	8.8
27	13.9	13.3	13.5	11.0	10.6	10.8	11.5	10.7	11.1	9.1	7.6	8.6
28	13.8	13.1	13.5	10.8	10.4	10.5	11.9	11.0	11.5	9.3	8.5	9.0
29	15.0	13.6	14.2	11.0	10.3	10.7	12.1	11.3	11.7	9.6	9.0	9.3
30	---	---	---	11.6	10.9	11.3	12.1	11.1	11.5	9.8	9.1	9.4
31	---	---	---	11.9	11.4	11.7	---	---	---	9.9	9.2	9.5
MONTH	15.7	13.1	14.8	13.7	10.3	12.3	13.6	9.5	11.5	11.6	6.8	9.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	8.9	9.5	10.2	8.5	9.3	8.2	7.5	7.9	10.8	8.2	9.5
2	9.8	8.9	9.3	10.3	8.5	9.4	8.2	7.8	8.0	10.8	8.0	9.4
3	10.0	8.3	9.1	10.2	8.4	9.2	8.1	7.9	8.0	10.1	8.0	9.1
4	10.1	8.2	9.2	10.3	8.3	9.2	8.0	7.8	7.9	10.7	7.5	9.2
5	10.2	8.5	9.4	10.4	8.3	9.4	8.2	7.7	8.0	11.2	8.0	9.5
6	9.9	8.5	9.2	10.5	8.3	9.4	8.5	7.8	8.2	11.6	7.9	9.8
7	10.2	9.1	9.7	10.7	8.3	9.5	8.7	8.0	8.3	11.9	8.4	10.1
8	9.7	8.6	9.5	10.9	8.3	9.7	8.8	7.9	8.3	12.4	8.1	10.3
9	9.6	9.2	9.5	10.9	8.5	9.7	8.4	7.7	8.0	12.2	8.1	10.2
10	9.4	8.9	9.2	10.5	8.2	9.4	8.6	7.5	8.1	11.5	7.8	9.6
11	9.1	8.4	8.8	10.4	8.1	9.2	8.5	7.5	8.0	11.1	7.7	9.3
12	8.5	7.8	8.2	10.6	8.1	9.4	8.4	7.5	8.0	10.9	7.5	9.1
13	8.6	7.8	8.2	10.4	8.0	9.2	8.5	7.8	8.2	9.9	7.0	8.4
14	9.2	8.6	8.9	9.6	7.4	8.4	8.7	8.4	8.5	9.6	7.2	8.3
15	9.6	9.2	9.4	9.5	7.2	8.3	8.8	8.4	8.7	8.7	6.7	7.9
16	9.8	9.3	9.6	9.4	7.3	8.2	8.4	8.1	8.3	9.0	7.5	8.3
17	9.5	8.9	9.3	8.5	6.9	7.6	8.6	8.0	8.3	10.0	6.4	8.6
18	9.0	8.6	8.8	7.8	6.8	7.4	8.3	8.0	8.1	9.9	7.5	8.8
19	9.1	8.5	8.8	7.8	7.1	7.5	9.2	8.2	8.7	9.7	8.5	8.9
20	9.5	8.7	9.1	8.8	7.3	8.1	9.6	8.4	8.9	9.6	8.3	8.8
21	9.5	8.8	9.1	9.2	7.7	8.4	9.9	8.5	9.2	9.2	7.9	8.6
22	9.2	8.4	8.8	9.0	7.5	8.3	10.3	8.6	9.4	9.5	7.9	8.7
23	8.8	8.3	8.5	9.3	7.6	8.4	9.8	8.6	9.2	8.7	7.5	8.4
24	9.3	8.4	8.8	8.9	7.7	8.3	10.2	8.5	9.3	9.1	8.0	8.5
25	9.5	8.4	8.9	9.4	7.8	8.6	10.5	8.4	9.4	9.4	8.2	8.8
26	9.5	7.8	8.7	8.8	8.0	8.4	10.7	8.4	9.5	9.6	8.6	9.1
27	9.3	7.9	8.6	8.6	8.0	8.3	10.8	8.3	9.5	10.4	8.9	9.7
28	8.7	7.8	8.3	8.8	8.1	8.4	10.8	8.2	9.5	10.4	9.1	9.7
29	9.4	8.0	8.6	8.7	7.8	8.2	10.1	8.2	9.1	10.6	9.2	9.8
30	9.9	8.5	9.1	8.8	7.8	8.3	11.2	8.3	9.7	10.6	9.5	10.0
31	---	---	---	8.7	7.6	8.1	10.9	8.3	9.5	---	---	---
MONTH	10.2	7.8	9.0	10.9	6.8	8.7	11.2	7.5	8.6	12.4	6.4	9.1
YEAR	15.7	6.4	11.1									

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.7	7.9	9.1	7.9	8.6	7.3	7.2	7.2	7.7	7.6	7.6
2	8.0	7.6	7.7	8.6	7.7	8.1	7.4	7.3	7.3	7.7	7.6	7.6
3	8.2	7.7	7.8	8.0	7.3	7.7	7.4	7.3	7.4	7.7	7.6	7.6
4	7.9	7.7	7.8	7.7	7.5	7.6	7.5	7.4	7.4	7.7	7.6	7.6
5	7.8	7.6	7.7	7.5	7.3	7.4	7.6	7.4	7.5	7.7	7.4	7.6
6	8.3	7.6	7.9	7.7	7.3	7.5	7.5	7.4	7.5	8.0	7.5	7.7
7	8.4	7.8	8.0	7.9	7.4	7.6	7.5	7.4	7.5	8.1	7.7	7.7
8	8.6	7.8	8.1	8.0	7.5	7.7	7.6	7.5	7.5	7.8	7.7	7.7
9	8.6	7.9	8.1	8.1	7.5	7.7	7.6	7.5	7.5	7.8	7.7	7.7
10	8.1	7.6	7.9	8.3	7.5	7.8	7.5	7.5	7.5	7.7	7.6	7.7
11	8.4	7.6	7.9	8.3	7.5	7.8	7.7	7.5	7.6	7.8	7.6	7.7
12	8.5	7.7	8.0	8.4	7.6	8.0	7.7	7.6	7.6	7.8	7.7	7.7
13	8.5	7.7	8.0	8.5	7.6	8.0	7.6	7.6	7.6	7.7	7.5	7.5
14	8.3	7.6	7.9	8.5	7.6	8.0	7.6	7.5	7.5	7.6	7.5	7.5
15	8.3	7.6	7.9	8.7	7.6	8.2	7.5	7.4	7.5	7.6	7.5	7.6
16	8.4	7.7	7.9	8.7	7.7	8.2	7.6	7.5	7.6	7.6	7.5	7.6
17	8.1	7.7	7.8	8.7	7.8	8.3	7.6	7.5	7.6	---	---	---
18	8.5	7.6	8.0	8.8	7.8	8.3	7.6	7.4	7.5	---	---	---
19	8.5	7.8	8.0	8.8	7.7	8.4	7.6	7.4	7.5	7.8	7.7	7.7
20	8.0	7.7	7.8	8.9	7.8	8.5	7.5	7.5	7.5	7.8	7.7	7.7
21	8.4	7.6	7.9	8.9	7.7	8.5	7.6	7.4	7.5	7.7	7.7	7.7
22	8.5	7.8	8.1	8.6	7.7	8.2	7.6	7.5	7.6	7.8	7.6	7.7
23	8.6	7.8	8.1	8.7	7.6	8.2	7.6	7.5	7.5	7.7	7.6	7.7
24	8.5	7.8	8.1	8.7	7.6	8.2	7.6	7.5	7.5	7.7	7.6	7.7
25	8.7	7.8	8.2	8.3	7.7	7.9	7.6	7.4	7.5	7.8	7.6	7.7
26	8.8	7.9	8.3	8.3	7.5	7.8	7.6	7.5	7.5	7.7	7.6	7.7
27	8.8	8.0	8.4	8.0	7.6	7.7	7.6	7.5	7.6	7.8	7.7	7.8
28	8.9	7.9	8.4	7.6	7.3	7.5	7.7	7.6	7.6	7.8	7.7	7.8
29	9.0	7.9	8.5	7.3	7.2	7.2	7.7	7.6	7.6	7.8	7.7	7.8
30	9.0	7.9	8.5	7.2	7.2	7.2	7.7	7.6	7.6	7.8	7.7	7.8
31	9.1	7.9	8.6	---	---	---	7.6	7.6	7.6	7.8	7.7	7.8
MAX	9.1	8.0	8.6	9.1	7.9	8.6	7.7	7.6	7.6	8.1	7.7	7.8
MIN	7.8	7.6	7.7	7.2	7.2	7.2	7.3	7.2	7.2	7.6	7.4	7.5

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.7	7.8	7.2	6.9	7.1	7.9	7.5	7.7	8.1	7.6	7.8
2	8.0	7.8	7.9	---	---	---	7.9	7.6	7.7	8.1	6.7	7.8
3	8.0	7.8	7.9	7.4	7.2	7.3	8.0	7.6	7.8	8.4	7.1	7.9
4	7.9	7.7	7.9	7.4	7.3	7.3	8.0	7.6	7.8	8.5	7.2	8.0
5	7.9	7.7	7.8	7.4	7.3	7.4	8.1	7.7	7.9	8.7	7.5	8.2
6	8.0	7.7	7.9	7.5	7.4	7.4	8.0	7.6	7.8	8.8	7.7	8.3
7	8.1	7.9	8.0	7.5	7.4	7.5	7.7	7.4	7.6	8.8	7.4	8.3
8	8.2	8.0	8.1	7.6	7.4	7.5	8.1	7.4	7.6	8.9	7.6	8.3
9	8.3	8.0	8.2	7.6	7.5	7.5	8.2	7.5	7.8	8.9	7.5	8.6
10	8.4	8.0	8.2	7.6	7.4	7.5	8.3	7.6	8.0	8.6	7.6	8.0
11	8.2	7.9	8.1	7.6	7.4	7.4	8.0	7.5	7.7	8.4	7.3	7.8
12	8.1	7.9	8.0	7.4	7.3	7.4	8.3	7.5	7.7	8.0	7.4	7.6
13	8.4	8.1	8.2	7.4	7.2	7.3	8.6	7.6	7.9	7.5	7.1	7.3
14	8.2	8.0	8.1	7.3	7.2	7.2	8.8	7.6	8.2	7.3	7.1	7.2
15	8.1	7.9	8.0	7.4	7.2	7.3	8.6	7.6	8.2	7.2	7.1	7.1
16	8.1	7.8	8.0	7.4	7.3	7.3	8.8	7.6	8.2	7.4	7.1	7.2
17	8.1	7.8	7.9	7.5	7.4	7.4	8.5	7.7	7.9	7.5	7.2	7.3
18	8.0	7.7	7.7	7.5	7.5	7.5	8.0	7.6	7.7	7.5	7.3	7.4
19	7.7	7.5	7.6	7.5	7.4	7.4	8.6	7.7	7.9	7.4	7.3	7.3
20	8.1	7.6	7.7	7.5	7.4	7.4	8.2	7.5	7.7	7.4	7.3	7.3
21	8.2	7.8	8.0	7.5	7.4	7.5	7.7	7.4	7.5	7.4	7.3	7.3
22	8.3	7.9	8.1	7.6	7.5	7.5	7.6	7.4	7.5	7.3	7.2	7.3
23	8.3	8.0	8.2	7.6	7.5	7.5	7.6	7.4	7.5	7.3	7.2	7.3
24	8.5	8.0	8.2	7.7	7.5	7.5	7.6	7.4	7.5	7.3	7.2	7.3
25	8.5	7.9	8.1	7.7	7.5	7.6	7.6	7.3	7.5	7.3	7.2	7.2
26	8.2	7.6	7.8	7.8	7.5	7.7	7.8	7.5	7.6	7.2	7.0	7.1
27	7.8	7.6	7.7	7.9	7.6	7.8	7.7	7.4	7.6	7.1	7.0	7.0
28	7.6	7.2	7.3	7.9	7.7	7.7	7.8	7.5	7.7	7.2	7.1	7.1
29	7.4	7.1	7.2	7.8	7.6	7.7	8.0	7.6	7.7	7.4	7.2	7.3
30	---	---	---	7.7	7.6	7.6	8.1	7.6	7.8	7.5	7.3	7.3
31	---	---	---	7.8	7.5	7.6	---	---	---	7.6	7.3	7.4
MAX	8.5	8.1	8.2	7.9	7.7	7.8	8.8	7.7	8.2	8.9	7.7	8.6
MIN	7.4	7.1	7.2	7.2	6.9	7.1	7.6	7.3	7.5	7.1	6.7	7.0

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.4	7.6	8.5	7.7	7.9	7.6	7.3	7.5	8.7	7.9	8.4
2	8.1	7.5	7.7	8.5	7.8	8.2	7.4	7.2	7.3	8.6	7.9	8.3
3	8.5	7.6	8.0	8.5	7.9	8.2	7.3	7.2	7.3	8.4	7.7	8.1
4	8.6	7.7	8.2	8.6	8.0	8.2	7.4	7.3	7.3	8.6	7.5	8.2
5	8.6	7.9	8.3	8.8	8.1	8.6	7.5	7.3	7.4	8.7	7.7	8.4
6	8.3	7.8	8.0	8.8	8.4	8.6	7.5	7.4	7.4	8.8	7.9	8.5
7	8.1	7.6	7.9	8.9	8.5	8.7	7.7	7.4	7.5	8.9	8.0	8.6
8	7.6	7.1	7.2	9.0	8.4	8.8	7.8	7.4	7.6	8.9	8.0	8.6
9	7.2	7.1	7.1	9.0	8.5	8.8	7.8	7.5	7.6	8.9	8.0	8.6
10	7.4	7.2	7.3	9.0	8.5	8.8	7.9	7.5	7.7	8.9	7.9	8.6
11	7.7	7.2	7.4	9.0	8.5	8.8	7.9	7.5	7.7	8.8	7.8	8.5
12	7.5	7.3	7.4	9.1	8.6	8.8	7.8	7.5	7.6	8.8	7.8	8.4
13	7.4	7.2	7.3	9.0	8.5	8.8	7.7	7.5	7.6	8.5	7.5	8.0
14	7.4	7.3	7.4	8.8	8.3	8.6	7.6	7.2	7.3	8.3	7.5	7.9
15	7.4	7.3	7.4	8.6	7.9	8.3	7.2	7.2	7.2	7.8	7.3	7.6
16	7.4	7.3	7.4	8.5	7.7	8.1	7.3	7.2	7.3	7.5	7.3	7.4
17	7.6	7.4	7.4	8.0	7.3	7.8	7.5	7.3	7.4	7.7	7.2	7.3
18	7.6	7.4	7.4	7.6	7.3	7.4	7.4	7.4	7.4	7.6	7.1	7.4
19	7.6	7.4	7.5	7.4	7.2	7.3	7.7	7.4	7.6	7.6	7.2	7.5
20	7.8	7.5	7.6	7.8	7.3	7.5	7.9	7.5	7.7	7.9	7.2	7.5
21	7.7	7.5	7.6	8.0	7.4	7.6	8.1	7.6	7.8	7.8	7.5	7.6
22	7.7	7.4	7.6	8.0	7.4	7.6	8.2	7.6	7.9	7.9	7.4	7.6
23	7.6	7.4	7.5	8.1	7.5	7.7	8.1	7.7	7.9	7.6	7.4	7.5
24	7.9	7.4	7.6	8.0	7.5	7.7	8.3	7.7	8.0	7.7	7.3	7.5
25	8.2	7.6	7.8	8.2	7.5	7.9	8.4	7.8	8.1	7.8	7.4	7.6
26	8.4	7.6	7.9	7.9	7.6	7.7	8.5	7.8	8.1	7.8	7.5	7.6
27	8.3	7.7	8.0	7.6	7.4	7.5	8.6	7.8	8.2	8.1	7.4	7.8
28	7.9	7.6	7.8	7.8	7.5	7.6	8.7	7.9	8.4	8.1	7.6	7.9
29	8.0	7.5	7.7	7.6	7.4	7.5	8.4	7.9	8.2	8.2	7.7	7.9
30	8.3	7.7	7.8	7.8	7.4	7.5	8.7	7.7	8.3	8.2	7.7	7.9
31	---	---	---	7.8	7.4	7.5	8.6	7.7	8.3	---	---	---
MAX	8.6	7.9	8.3	9.1	8.6	8.8	8.7	7.9	8.4	8.9	8.0	8.6
MIN	7.2	7.1	7.1	7.4	7.2	7.3	7.2	7.2	7.2	7.5	7.1	7.3

YEAR			
	MAX	MAXIMUM 9.1	MINIMUM 7.1
	MIN	MAXIMUM 8.6	MINIMUM 6.7
	MEDIAN	MAXIMUM 8.8	MINIMUM 7.0

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	219	201	210	200	194	198	121	116	118	185	181	183
2	201	180	186	206	198	202	127	121	123	184	177	180
3	192	182	188	239	204	209	135	126	130	182	173	177
4	185	176	179	218	183	208	146	135	142	181	173	178
5	183	175	180	183	157	167	153	145	150	206	179	185
6	187	182	186	163	152	155	159	152	155	237	182	188
7	192	181	187	166	153	158	162	153	157	215	177	185
8	181	176	177	167	158	163	165	161	163	177	173	176
9	185	179	181	171	163	166	164	160	162	179	174	176
10	191	183	185	177	170	172	165	161	163	182	178	180
11	192	182	185	184	174	178	172	164	167	191	182	185
12	183	178	180	191	184	187	177	172	175	193	173	184
13	182	174	178	193	190	191	179	176	177	173	145	156
14	175	158	168	196	191	194	179	173	176	151	145	148
15	161	156	158	196	194	195	180	162	170	157	149	154
16	170	161	166	201	196	198	199	173	179	165	155	159
17	171	166	169	200	196	198	173	158	167	---	---	---
18	168	163	166	203	198	200	177	148	155	---	---	---
19	174	167	171	208	200	204	151	148	150	198	168	191
20	178	172	174	211	207	208	157	150	155	209	197	201
21	182	178	181	214	209	210	165	155	159	211	203	207
22	185	181	182	219	212	215	173	162	167	206	192	202
23	186	183	184	219	214	216	177	153	158	206	171	201
24	188	185	186	215	213	214	156	153	154	208	202	205
25	187	180	183	218	212	214	170	153	157	207	188	203
26	190	184	187	218	213	215	162	157	158	204	201	202
27	193	188	190	222	214	219	174	162	167	203	181	196
28	188	186	187	222	156	198	177	171	173	209	200	203
29	193	188	190	156	118	129	177	173	175	209	205	207
30	193	190	191	122	118	121	183	176	178	209	203	206
31	194	191	192	---	---	---	184	179	181	208	204	205
MONTH	219	156	182	239	118	190	199	116	160	237	145	187

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	212	202	204	---	---	---	142	135	138	152	147	150
2	213	204	207	---	---	---	145	141	143	188	150	156
3	215	211	213	124	119	122	152	145	150	176	157	160
4	213	201	206	128	122	125	158	152	154	180	159	165
5	201	197	199	134	127	129	160	153	157	177	163	168
6	203	194	199	136	133	134	155	123	137	174	169	172
7	202	197	201	138	133	135	124	120	122	188	172	176
8	204	199	202	142	136	139	130	123	126	184	176	179
9	211	202	207	143	141	142	140	129	134	200	184	188
10	213	205	208	143	135	139	150	140	147	194	189	191
11	220	206	211	138	126	133	144	133	137	190	185	187
12	223	217	220	136	121	127	137	130	133	202	174	192
13	230	220	226	134	109	121	138	131	135	174	145	157
14	243	223	231	113	106	109	140	133	135	147	139	143
15	232	221	226	117	108	112	141	134	138	139	130	135
16	246	231	241	122	116	118	143	140	141	130	119	122
17	238	210	222	137	120	128	149	143	147	128	121	125
18	210	189	198	143	128	137	153	148	151	132	127	130
19	205	187	195	129	125	126	154	141	149	148	132	137
20	218	205	211	132	126	129	141	120	128	162	148	154
21	225	217	221	135	130	133	121	117	119	151	132	138
22	220	211	214	154	135	141	144	121	135	134	124	128
23	211	206	208	156	142	147	144	129	136	130	124	127
24	210	204	207	153	142	147	129	123	125	130	124	127
25	208	201	203	155	150	152	124	122	123	130	113	125
26	203	198	201	164	155	159	127	122	124	113	98	104
27	199	178	192	169	162	164	132	127	130	105	100	102
28	178	149	159	171	161	166	138	131	134	114	104	108
29	159	113	140	172	156	165	143	137	140	121	113	117
30	---	---	---	156	136	144	147	141	143	126	119	122
31	---	---	---	136	134	135	---	---	---	132	126	129
MONTH	246	113	206	172	106	136	160	117	137	202	98	146

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	138	132	135	165	157	161	201	186	194	245	237	241
2	146	138	143	165	157	161	187	166	175	245	240	243
3	154	146	151	170	157	164	180	163	169	247	239	242
4	160	153	157	173	164	168	186	169	176	247	236	240
5	167	157	162	182	171	175	185	179	182	239	223	231
6	175	166	171	189	182	184	189	180	185	223	216	219
7	180	163	176	190	182	185	193	187	189	223	218	221
8	163	96	113	189	184	186	202	189	198	230	223	226
9	102	93	97	197	188	195	206	193	201	234	224	228
10	108	99	102	207	197	203	193	184	187	240	233	237
11	115	107	110	212	204	209	195	188	190	244	238	241
12	131	115	122	223	211	216	195	177	189	244	238	241
13	142	130	135	230	220	227	201	190	195	247	235	240
14	142	131	136	231	226	228	201	139	162	252	244	246
15	132	125	129	236	224	229	164	140	152	253	224	240
16	126	120	122	236	229	233	179	163	171	224	181	195
17	129	123	125	243	214	234	186	175	180	182	178	180
18	132	127	129	214	150	174	191	185	188	197	182	190
19	148	131	137	150	135	140	199	190	194	198	178	190
20	143	137	140	154	140	147	206	199	203	196	158	185
21	140	137	138	160	152	156	213	205	209	207	196	203
22	151	136	141	171	160	165	221	210	216	212	204	208
23	157	147	153	191	171	181	229	221	225	206	197	201
24	152	142	146	191	185	187	231	224	227	205	197	201
25	147	144	146	194	189	192	232	225	228	214	205	211
26	158	147	153	203	192	196	234	224	231	223	212	216
27	165	155	159	205	193	200	226	217	220	239	222	232
28	161	153	157	224	202	214	222	217	220	245	238	242
29	154	150	152	202	180	190	227	221	225	238	226	231
30	160	149	156	181	175	179	232	226	230	226	220	222
31	---	---	---	201	175	185	240	231	235	---	---	---
MONTH	180	93	140	243	135	189	240	139	198	253	158	221
YEAR	253	93	174									

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	18.0	18.5	13.5	12.0	12.5	7.0	5.0	5.5	3.0	2.0	2.5
2	19.0	17.5	18.0	14.0	12.5	13.0	5.0	4.0	4.5	3.5	2.5	3.0
3	18.5	17.5	18.0	14.0	12.0	13.0	4.5	4.0	4.0	4.0	3.5	3.5
4	18.0	17.5	18.0	12.0	11.0	11.5	5.0	4.5	5.0	6.0	4.0	5.0
5	17.5	15.5	16.5	11.0	10.0	10.5	6.0	5.0	5.5	6.0	5.0	5.5
6	15.5	14.5	15.0	10.5	9.5	10.0	6.5	5.5	6.0	5.0	4.0	4.5
7	15.0	13.5	14.5	10.5	9.0	10.0	7.0	6.5	6.5	4.5	4.0	4.0
8	14.0	13.0	13.5	9.0	8.5	8.5	6.5	6.0	6.5	4.0	3.5	4.0
9	14.0	13.5	14.0	9.0	8.0	8.5	6.0	5.5	6.0	4.0	3.5	3.5
10	14.5	14.0	14.5	10.0	8.5	9.5	6.0	5.5	5.5	4.5	3.5	4.0
11	16.0	14.5	15.0	10.5	9.0	9.5	5.5	4.5	5.5	4.5	4.0	4.5
12	15.5	14.5	15.0	9.0	8.5	9.0	4.5	4.0	4.5	4.5	4.0	4.5
13	15.5	14.5	15.0	9.5	9.0	9.5	4.0	4.0	4.0	4.5	3.0	4.0
14	15.5	14.0	15.0	9.5	8.5	9.0	4.5	4.0	4.5	3.0	1.0	2.0
15	14.0	13.0	13.5	8.5	7.5	8.0	5.5	4.5	5.0	1.0	.5	1.0
16	14.5	13.0	13.5	7.5	5.5	6.5	6.0	5.5	5.5	1.5	.5	1.0
17	14.0	13.5	14.0	6.0	5.0	5.5	5.5	5.0	5.0	---	---	---
18	14.5	13.0	14.0	6.0	4.5	5.5	5.5	4.5	5.0	---	---	---
19	13.0	12.5	13.0	6.5	5.0	6.0	4.5	4.0	4.5	.0	.0	.0
20	12.5	12.5	12.5	8.0	6.0	7.0	4.5	4.0	4.0	.0	.0	.0
21	13.0	12.0	12.5	9.5	7.5	8.5	4.5	4.5	4.5	.0	.0	.0
22	13.0	12.0	12.5	9.5	9.0	9.0	4.5	4.0	4.5	.0	.0	.0
23	13.0	12.0	12.5	10.0	9.5	10.0	4.0	3.5	3.5	.0	.0	.0
24	12.0	11.0	11.5	11.0	10.0	10.5	3.5	2.5	3.0	.0	.0	.0
25	11.5	10.5	11.0	11.5	11.0	11.5	2.5	1.5	2.0	.0	.0	.0
26	11.5	10.5	11.0	12.5	11.0	11.5	1.5	1.0	1.0	.0	.0	.0
27	11.5	10.5	11.0	13.0	11.5	12.5	1.0	.5	.5	.0	.0	.0
28	11.5	10.5	10.5	11.5	10.0	11.0	1.0	.5	.5	.5	.0	.0
29	11.5	10.0	10.5	10.0	8.5	9.0	1.5	.5	1.0	.0	.0	.0
30	12.0	10.5	11.0	8.5	7.0	7.5	2.0	1.0	1.5	.0	.0	.0
31	13.0	11.0	12.0	---	---	---	2.5	2.0	2.0	.0	.0	.0
MONTH	19.0	10.0	14.0	14.0	4.5	9.5	7.0	.5	4.0	6.0	.0	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	3.5	2.5	3.0	10.0	8.5	9.5	14.0	12.0	13.0
2	.0	.0	.0	---	---	---	10.5	9.5	10.0	15.0	13.5	14.5
3	.0	.0	.0	4.5	4.0	4.5	11.5	10.5	11.0	16.0	14.0	15.0
4	.0	.0	.0	5.0	4.0	4.5	12.0	11.5	12.0	16.5	15.0	16.0
5	.0	.0	.0	5.5	4.5	5.0	12.0	11.0	11.5	18.5	16.5	17.5
6	.0	.0	.0	6.0	4.5	5.5	11.0	10.0	10.5	20.0	18.0	19.0
7	.0	.0	.0	7.0	5.0	6.0	11.0	10.0	10.5	21.5	19.0	20.0
8	.0	.0	.0	8.0	6.0	7.0	11.5	9.5	10.5	22.5	21.0	21.5
9	.0	.0	.0	9.0	7.5	8.0	11.5	9.5	10.0	24.0	22.0	23.0
10	.5	.0	.5	9.5	8.5	9.0	10.5	9.5	10.0	23.5	21.0	22.5
11	.5	.0	.5	9.0	8.0	8.5	10.0	9.0	9.5	21.5	20.0	21.0
12	.5	.5	.5	8.0	6.5	7.5	9.0	8.0	8.5	21.0	20.0	20.5
13	.5	.0	.5	6.5	5.0	5.5	9.0	7.5	8.5	20.5	19.0	20.0
14	2.5	.5	1.5	5.5	5.0	5.5	10.0	8.0	9.0	20.0	19.0	19.5
15	2.5	1.5	2.0	6.5	5.0	5.5	10.5	9.5	10.0	19.5	18.0	18.5
16	3.5	2.0	2.5	7.0	5.9	6.4	12.0	10.0	11.0	18.5	17.0	18.0
17	3.0	2.5	2.5	7.0	6.5	7.0	12.0	11.5	11.5	18.5	17.0	17.5
18	2.5	1.5	1.5	6.5	6.0	6.0	11.5	10.5	11.0	18.5	17.0	18.0
19	1.5	1.0	1.0	6.0	5.5	5.5	11.5	10.5	11.0	18.5	17.0	18.0
20	2.5	1.0	2.0	6.0	5.0	5.5	12.0	11.0	11.5	17.0	15.0	16.0
21	3.0	2.0	2.5	6.0	5.5	6.0	11.5	10.5	11.0	15.0	14.0	14.5
22	3.5	2.5	3.0	6.5	6.0	6.0	10.5	10.5	10.5	14.0	13.5	13.5
23	3.5	3.0	3.0	8.5	6.0	7.0	10.5	10.0	10.5	13.5	13.0	13.5
24	4.5	3.5	4.0	10.0	8.0	9.0	11.0	9.5	10.5	15.5	13.5	14.5
25	5.0	4.0	4.5	11.0	9.0	10.0	11.0	10.5	11.0	16.5	15.0	15.5
26	5.0	4.5	4.5	11.5	10.5	11.0	12.0	11.0	11.5	17.0	16.0	16.5
27	4.5	4.0	4.0	11.5	10.0	11.0	12.0	11.5	11.5	17.0	16.5	16.5
28	4.0	1.5	2.5	11.5	11.0	11.5	11.5	11.0	11.5	16.5	15.5	16.0
29	3.0	2.0	2.5	11.5	10.5	11.0	13.0	10.5	11.5	16.5	15.5	16.0
30	---	---	---	10.5	9.5	9.5	13.5	11.5	12.5	16.5	15.5	16.0
31	---	---	---	10.0	8.5	9.0	---	---	---	17.5	15.5	16.5
MONTH	5.0	.0	1.5	11.5	2.5	7.0	13.5	7.5	10.5	24.0	12.0	17.5

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	17.0	18.0	24.5	22.5	23.5	24.5	23.5	24.0	26.5	24.5	25.5
2	21.0	19.0	20.0	24.5	23.0	24.0	23.5	23.0	23.0	27.0	25.5	26.0
3	22.0	20.5	21.5	24.5	23.5	24.0	23.0	22.5	22.5	27.0	25.5	26.0
4	22.0	21.0	21.5	25.0	24.0	24.5	24.0	22.5	23.5	27.0	25.0	26.0
5	21.0	20.0	20.5	26.5	24.5	25.5	24.5	23.0	23.5	26.0	23.5	24.5
6	20.0	18.0	19.0	26.0	24.5	25.0	24.0	22.5	23.0	23.5	21.5	22.5
7	19.0	17.5	18.0	25.5	24.0	24.5	24.5	22.5	23.0	23.5	20.5	22.0
8	17.5	16.5	16.5	25.0	23.0	24.0	25.5	23.5	24.5	23.0	20.5	22.0
9	18.5	16.0	17.0	25.5	23.0	24.0	26.0	24.5	25.5	24.0	21.5	22.5
10	20.5	18.0	19.0	26.5	24.0	25.5	27.0	25.5	26.0	25.0	22.5	23.5
11	22.5	19.5	21.0	26.5	24.5	25.5	26.5	25.5	26.0	25.0	23.0	24.0
12	22.5	22.0	22.5	26.5	24.0	25.5	26.0	23.5	25.0	25.5	23.0	24.5
13	22.0	19.5	21.0	26.5	24.0	25.5	23.5	22.5	23.5	25.5	24.0	24.5
14	19.5	18.0	18.5	25.5	24.5	25.0	22.5	20.5	21.5	24.5	22.5	24.0
15	18.0	17.5	17.5	24.5	23.5	24.0	21.5	20.0	21.0	23.5	22.5	23.0
16	18.5	17.0	18.0	25.5	23.5	24.5	23.0	21.5	22.0	22.5	21.0	21.5
17	21.0	18.0	19.5	25.0	23.5	24.0	23.5	22.0	22.5	21.0	19.5	20.5
18	21.5	20.5	21.0	25.0	23.5	24.5	23.0	21.5	22.0	20.5	19.0	20.0
19	21.5	20.5	21.0	24.5	22.5	23.5	22.5	20.5	21.5	19.8	19.2	19.5
20	21.5	19.5	20.5	24.0	22.0	23.0	23.0	21.5	22.0	21.0	19.0	20.0
21	21.5	20.0	21.0	24.5	22.5	23.5	23.0	21.0	22.0	21.5	20.0	20.5
22	22.0	21.0	21.5	25.5	23.5	24.5	23.5	21.0	22.0	21.0	19.0	20.0
23	23.0	21.0	22.0	25.0	23.5	24.0	22.5	21.5	22.0	20.0	19.0	19.5
24	23.5	21.5	22.5	24.5	23.5	23.5	23.0	21.0	22.0	20.0	19.0	19.5
25	24.5	22.5	23.5	23.5	22.5	23.0	24.5	22.0	23.0	19.5	18.0	18.5
26	25.5	24.0	24.5	23.0	22.5	22.5	24.5	22.5	23.5	18.0	16.0	17.0
27	25.5	24.5	25.0	22.5	22.0	22.5	25.0	22.5	23.5	17.5	15.0	16.5
28	25.0	24.0	24.5	23.0	22.0	22.5	25.5	23.5	24.5	18.0	16.0	17.0
29	24.5	23.0	24.0	23.0	22.5	23.0	24.5	23.0	23.5	17.0	15.5	16.0
30	24.0	22.5	23.5	24.5	22.5	23.5	24.5	22.5	23.5	17.0	14.5	16.0
31	---	---	---	25.0	24.0	24.5	26.0	23.5	24.5	---	---	---
MONTH	25.5	16.0	21.0	26.5	22.0	24.0	27.0	20.0	23.0	27.0	14.5	21.5
YEAR	27.0	.0	13.0									

TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 20

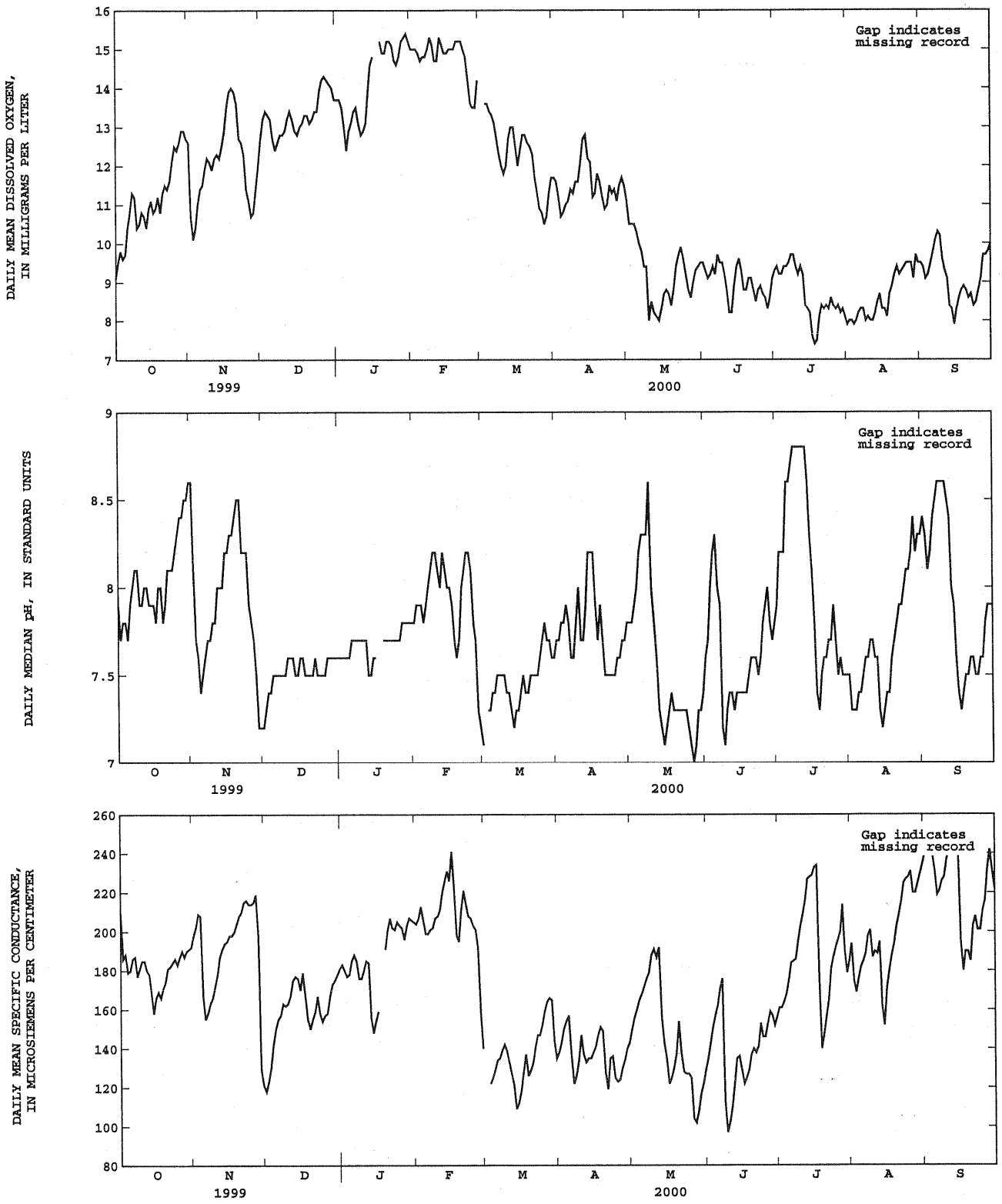
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	9	4	6	1	0	0
2	---	---	---	3	1	2	33	3	8	1	0	0
3	---	---	---	130	3	19	9	3	5	1	0	0
4	---	---	---	20	6	8	9	3	5	1	0	0
5	---	---	---	14	6	9	12	2	4	10	1	5
6	---	---	---	8	4	6	12	3	5	9	2	4
7	---	---	---	7	4	5	39	9	20	3	1	2
8	---	---	---	6	3	4	25	3	7	2	0	1
9	---	---	---	5	3	3	9	7	7	1	0	1
10	---	---	---	3	2	3	11	4	6	2	0	1
11	---	---	---	5	2	3	6	3	5	9	2	6
12	---	---	---	3	2	2	17	4	11	6	3	4
13	---	---	---	4	2	3	19	6	10	11	3	7
14	---	---	---	3	2	2	27	6	14	5	2	3
15	---	---	---	4	2	3	70	16	35	5	3	3
16	---	---	---	---	---	---	21	10	14	3	2	2
17	---	---	---	---	---	---	13	3	7	---	---	---
18	---	---	---	---	---	---	4	1	3	---	---	---
19	---	---	---	---	---	---	5	1	2	2	1	2
20	---	---	---	---	---	---	3	1	1	2	1	1
21	---	---	---	---	---	---	8	1	3	1	1	1
22	---	---	---	---	---	---	3	1	2	3	1	1
23	---	---	---	---	---	---	3	1	2	2	1	1
24	---	---	---	7	1	2	2	1	1	1	1	1
25	---	---	---	8	1	2	2	0	1	2	1	1
26	---	---	---	5	1	2	1	1	1	2	1	1
27	---	---	---	31	0	7	2	0	1	2	1	1
28	---	---	---	60	9	22	2	0	1	1	1	1
29	---	---	---	32	5	12	1	0	0	1	1	1
30	---	---	---	64	4	11	1	0	0	1	0	1
31	---	---	---	---	---	---	1	0	0	1	0	1
MONTH	---	---	---	130	0	6	70	0	6	11	0	2

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 20

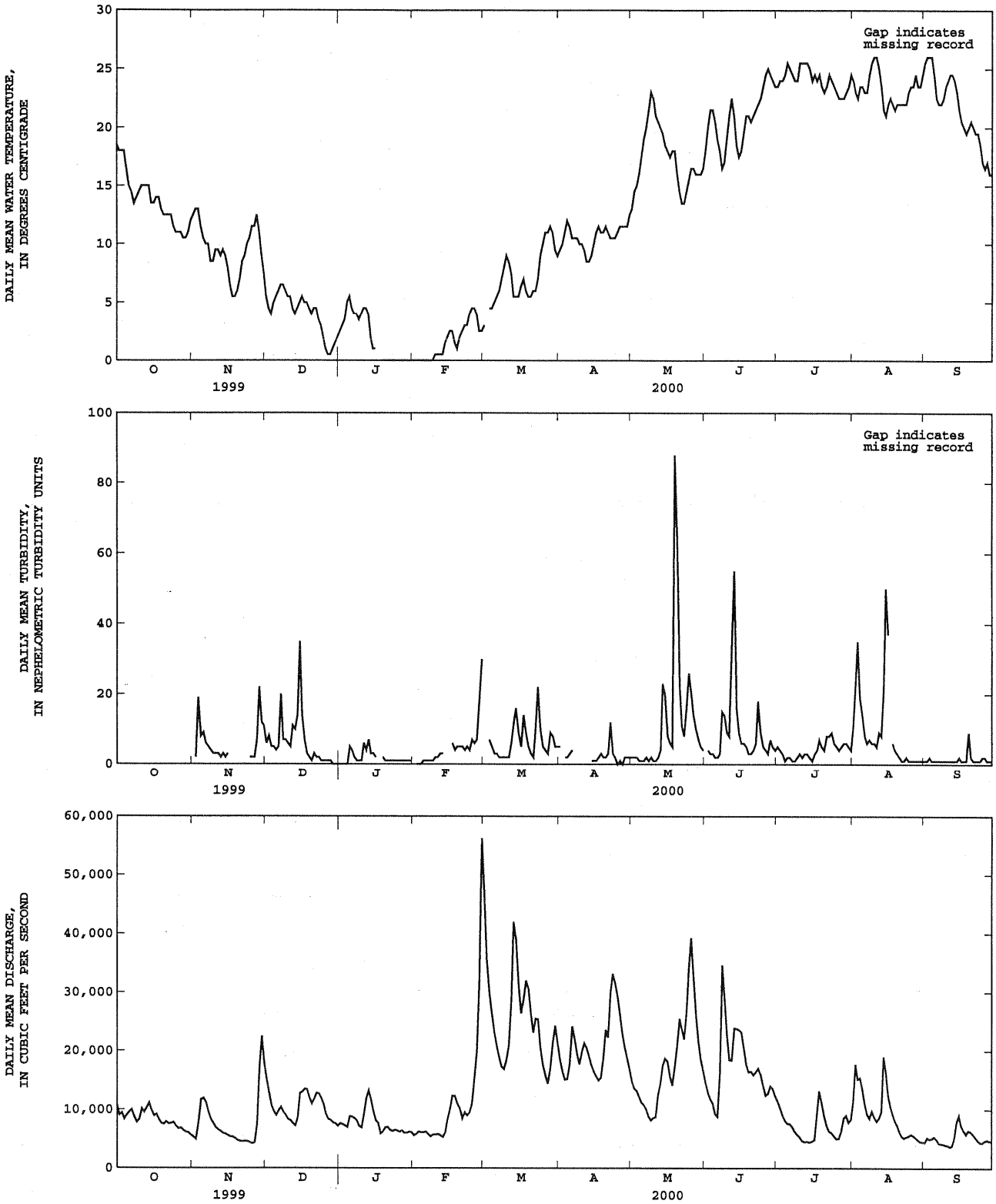
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	12	3	5	3	1	2
2	1	0	0	---	---	---	---	---	---	3	1	2
3	1	0	0	11	4	7	4	1	2	5	1	2
4	1	0	0	7	3	5	4	0	2	2	1	1
5	2	0	1	6	3	3	4	2	3	4	1	1
6	1	0	1	5	2	3	7	2	4	2	1	1
7	1	0	1	3	2	2	---	---	---	3	1	2
8	2	0	1	3	2	2	---	---	---	2	1	1
9	2	1	1	2	1	2	---	---	---	3	1	2
10	4	1	2	3	1	2	---	---	---	2	1	1
11	4	1	2	4	2	2	---	---	---	2	1	1
12	4	2	3	11	2	6	---	---	---	3	1	2
13	5	2	3	19	10	12	---	---	---	5	2	4
14	---	---	---	24	11	16	2	1	1	120	4	23
15	---	---	---	16	5	9	2	1	1	48	11	20
16	---	---	---	7	2	5	4	1	1	16	4	8
17	9	4	6	26	3	14	3	1	2	14	4	6
18	5	3	4	12	5	9	4	2	3	9	3	5
19	7	3	5	6	3	5	3	2	2	460	3	88
20	6	4	5	5	2	3	3	1	2	230	30	64
21	5	3	5	3	1	2	4	2	3	46	13	23
22	5	4	4	21	1	10	19	3	12	16	7	11
23	5	4	5	28	12	22	9	1	3	13	5	8
24	5	4	4	18	6	10	9	0	2	35	5	16
25	9	4	7	8	2	5	2	0	0	67	13	26
26	7	5	6	7	2	4	2	0	1	42	15	21
27	9	6	7	7	2	3	1	0	0	21	11	14
28	37	9	18	21	2	9	8	0	2	16	8	10
29	47	23	30	13	6	8	5	2	2	11	5	7
30	---	---	---	8	4	5	5	2	2	7	4	5
31	---	---	---	7	4	5	---	---	---	11	2	4
MONTH	47	0	5	28	1	7	19	0	2	460	1	12

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	11	3	5	51	2	11	2	0	1
2	14	2	4	9	2	4	75	4	23	1	0	1
3	8	2	3	5	2	3	62	17	35	6	1	2
4	6	2	3	2	1	1	36	13	19	3	1	1
5	5	2	2	6	1	2	19	10	14	2	0	1
6	6	1	2	6	1	2	19	6	8	2	0	1
7	9	1	3	6	0	1	12	5	6	1	0	1
8	33	5	15	4	1	1	10	4	7	2	1	1
9	22	8	14	8	0	2	9	4	6	2	0	1
10	14	5	9	17	1	3	10	4	6	2	0	1
11	14	5	8	17	0	2	9	3	5	2	1	1
12	160	4	33	9	1	3	38	3	9	3	0	1
13	120	18	55	6	1	3	14	5	8	2	0	1
14	32	6	16	20	0	2	49	9	21	3	0	1
15	15	4	9	3	1	1	97	17	50	5	0	1
16	14	3	6	14	1	3	89	20	37	3	1	2
17	10	3	6	10	2	4	---	---	---	2	0	1
18	7	2	5	17	3	7	11	3	6	3	0	1
19	7	2	3	15	3	5	7	2	4	15	1	1
20	6	2	3	11	3	4	7	2	3	45	3	9
21	7	2	4	10	4	8	6	1	2	4	1	2
22	30	2	6	11	5	8	3	1	1	2	1	1
23	59	8	18	13	7	9	2	1	1	6	1	1
24	19	5	9	10	4	6	4	1	2	1	1	1
25	10	3	5	8	4	5	3	1	1	13	0	1
26	7	3	4	7	3	4	2	1	1	4	0	2
27	6	2	3	10	4	5	2	0	1	3	1	2
28	15	4	7	10	4	6	2	0	1	2	1	1
29	9	3	5	11	4	6	2	0	1	2	1	1
30	10	2	4	8	4	5	3	1	1	1	1	1
31	---	---	---	7	2	4	1	0	1	---	---	---
MONTH	160	1	9	20	0	4	97	0	10	45	0	1
YEAR	460	0	6									



(Yearly hydrographs of daily mean values from the water-quality monitor)

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued



(Yearly hydrographs of daily mean values from the water-quality monitor)

Cross section of specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the Calhoun Street Bridge (distance from left bank looking downstream); and recorded hourly specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the water-quality monitor at the Morrisville Water Filtration Plant, Morrisville, PA.

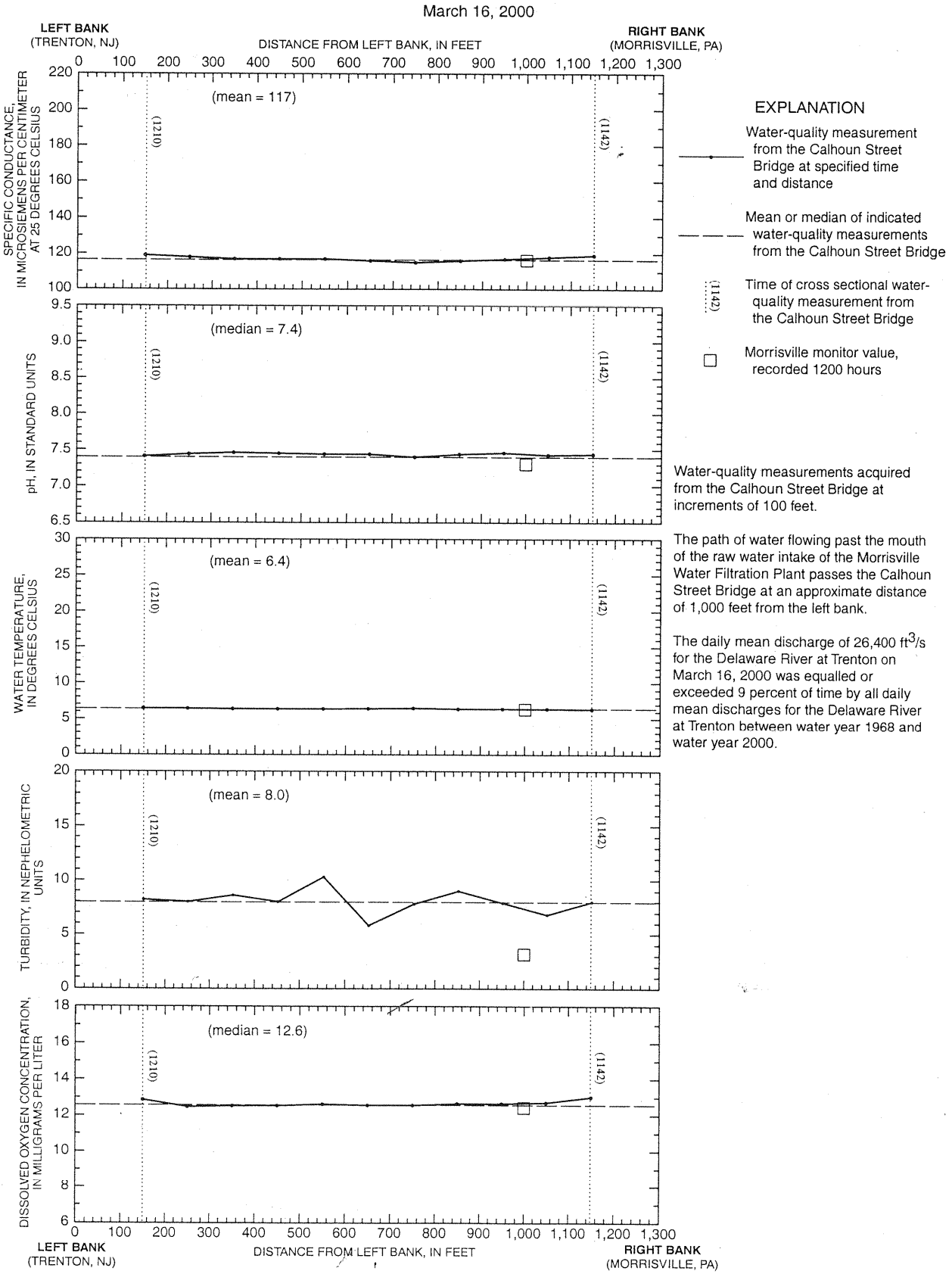


Figure 38. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, March 16, 2000.

Cross section of specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the Calhoun Street Bridge (distance from left bank looking downstream); and recorded hourly specific conductance, pH, water temperature, turbidity, and dissolved oxygen concentration measurements from the water-quality monitor at the Morrisville Water Filtration Plant, Morrisville, PA.

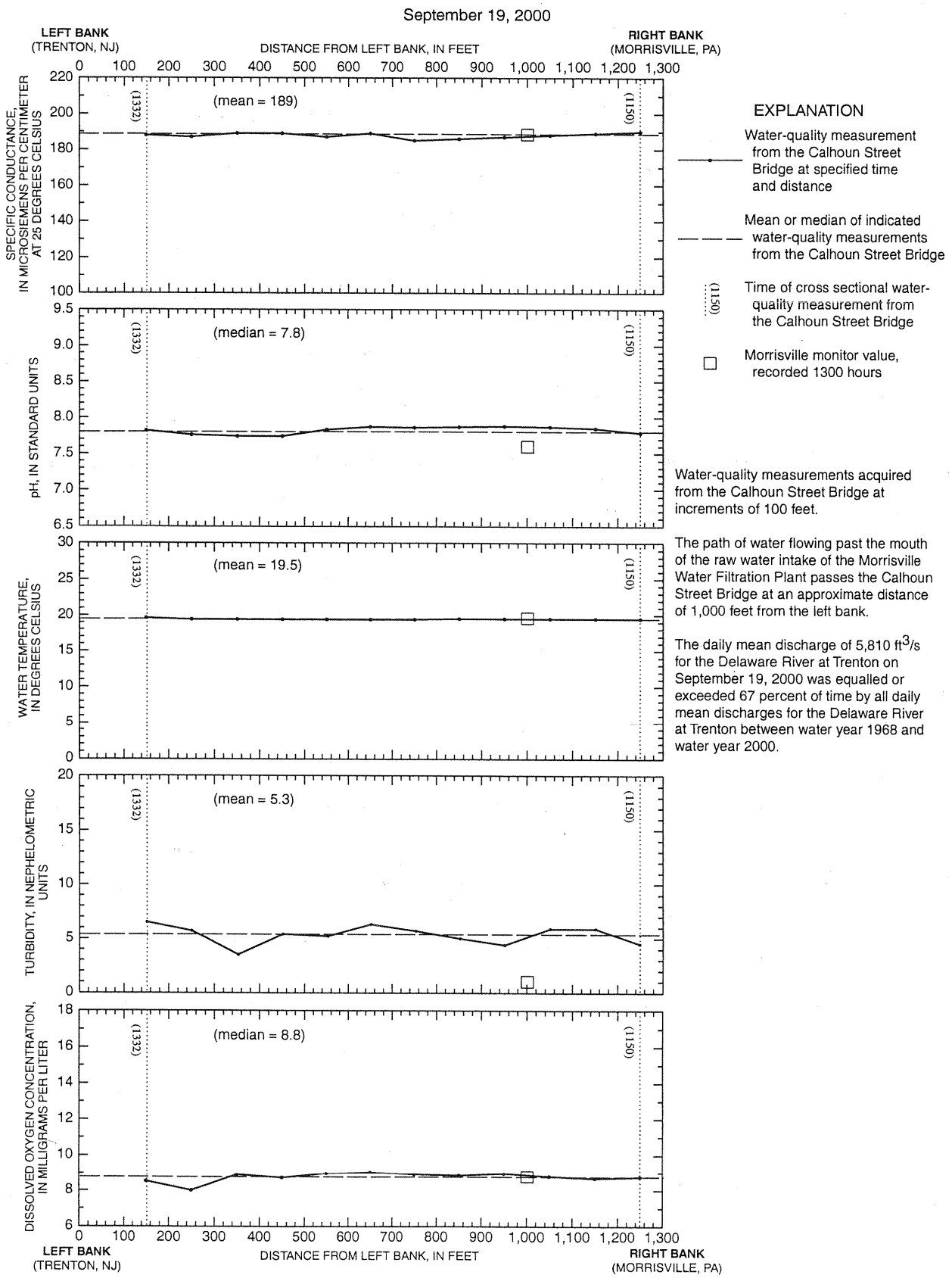


Figure 39. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, September 19, 2000.

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

LOCATION.--Lat 40°14'50", long 74°41'14", Mercer County, Hydrologic Unit 02040105, at bridge on State Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assunpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA.--10.7 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
04...	1252	3.5	766	69	7.9	6.8	165	9.5	.173	.135
FEB 2000										
09...	0840	3.4	767	90	12.9	6.3	402	1.0	.135	.106
MAY										
01...	1250	2.9	760	87	9.1	6.6	178	13.0	.224	.183
AUG										
03...	0800	E25	760	60	5.0	6.9	92	24.5	.383	.300

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
04...	43	9.96	4.44	3.2	9.5	20	18.2	<.1	8.9	20.3
FEB 2000										
09...	65	16.1	5.93	3.1	46.3	22	86.9	<.1	8.0	19.7
MAY										
01...	44	10.4	4.30	2.2	12.7	20	24.4	<.1	5.3	16.0
AUG										
03...	23	5.70	2.20	3.0	5.7	15	8.7	.1	3.9	9.6

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
04...	.31	.46	<.03	.030	1.3	1.1	.792	.006	.010	.036
FEB 2000										
09...	.33	.45	.08	.060	2.1	2.0	1.63	.006	E.006	.028
MAY										
01...	.37	.54	.03	.050	1.7	1.6	1.19	.010	.009	.046
AUG										
03...	.67	.80	.05	.030	1.1	.98	.307	.007	.049	.119

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
04...	5.4	.4	E1.6	2	103	90	30	--	--
FEB 2000									
09...	3.7	.3	2.8	7	217	206	22	--	--
MAY									
01...	5.4	.7	2.3	--	113	93	26	.04	5
AUG									
03...	8.9	1.1	E1.7	--	68	49	25	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	0953	790	400	250
28...	1136	490	700	340
JUL 2000				
11...	1142	330	300	590
18...	1228	490	600	750
25...	1133	2200	800	460

01464020 ASSUNPINK CREEK AT PEACE STREET AT TRENTON, NJ

LOCATION.--Lat 40°13'02", long 74°46'08", Mercer County, Hydrologic Unit 02040105, at bridge on Peace Street in Trenton, 0.3 mi northwest of Trent House, and 0.7 mi southeast of Trenton Filtration Plant.

DRAINAGE AREA.--91.4 mi^2.

PERIOD OF RECORD.--Water years 1963, 1976-78, 1998 to current year.

COOPERATION.--Determination of dissolved nitrite, total ammonia, dissolved ammonia, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	1320	52	770	--	9.5	7.4	--	13.0	.108	.081
FEB 2000										
22...	1320	E260	758	96	12.2	7.0	307	5.0	.138	.108
MAY										
03...	1100	90	770	91	9.3	7.6	293	15.0	.116	.088
AUG										
22...	1000	84	768	82	7.5	7.5	291	20.0	.178	.135

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
22...	99	23.6	9.74	4.9	27.5	48	44.6	.2	8.1	34.6
FEB 2000										
22...	68	16.2	6.61	3.2	27.0	28	53.4	.1	8.5	24.9
MAY										
03...	81	19.2	8.04	3.2	21.6	39	39.0	.2	6.5	26.7
AUG										
22...	79	17.4	8.53	3.4	19.8	48	32.6	.2	8.3	23.3

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
22...	.64	.83	.05	.060	6.0	5.8	5.20	.028	.800	.859
FEB 2000										
22...	.48	.71	.08	.080	2.7	2.5	1.98	.009	.082	.158
MAY										
03...	.50	.73	.15	.120	3.7	3.5	3.00	.022	.291	.432
AUG										
22...	.60	.71	.23	.040	3.7	3.6	2.96	.017	.334	.394

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
22...	4.3	.6	3.4	6	218	205	101	--	--
FEB 2000									
22...	4.5	<.2	2.1	7	174	165	36	--	--
MAY									
03...	4.4	.8	2.3	--	176	162	59	2.5	10
AUG									
22...	5.4	.5	E2.0	--	181	156	66	1.3	6

E Estimated value.
< Actual value is known to be less than the value shown.

01464020 ASSUNPINK CREEK AT PEACE STREET AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 22...	1000	<3	47.6	<1	66	<1.0	2	6

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 22...	900	2	96	<.3	2	<1	<1	14

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 22...	1320	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 22...	<.20	<.10	<.2	1.29	<.10	.25	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 22...	<.10	1.0	<.2	<.20	<.10	<.10	.3	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 03...	1100	<.002	<.005	.015	<.002	<.002	E.012	<.003	<.004	<.004	<.002	E.015

< Actual value is known to be less than the value shown.

01464020 ASSUNPINK CREEK AT PEACE STREET AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
03...	.011	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.119	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
03...	<.006	<.008	E.016	<.003	<.007	<.004	.009	.012	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000				
27...	1144	1100	1000	310
28...	0930	3500	800	360

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
11...	1028	1300	1400	180
18...	1247	2400	2100	620
25...	1218	2400	2000	250

E Estimated value.
< Actual value is known to be less than the value shown.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD AT GROVEVILLE, NJ

LOCATION.--Lat 40°10'02", long 74°40'40", Mercer County, Hydrologic Unit 02040201, at bridge on Groveville Road (Main Street) in Groveville, 1.2 mi upstream of Doctors Creek, and 2.2 mi northeast of Bordentown.

DRAINAGE AREA.--98.0 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Site is at head of tide, infrequently affected, but sampled at low tide. For definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	1223	86	767	88	10.2	7.1	168	9.0	.170	.134
FEB 2000										
22...	1200	177	774	--	14.8	6.8	--	3.5	.125	.098
MAY										
03...	0830	79	769	89	9.2	7.1	167	14.5	.106	.081
AUG										
03...	1220	99	759	86	7.2	7.3	161	24.0	.231	.181

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	51	15.0	3.32	2.9	6.6	20	14.7	.2	11.1	27.6
FEB 2000										
22...	40	11.2	2.81	2.3	8.0	11	16.9	<.1	8.0	22.7
MAY										
03...	55	16.3	3.55	2.5	7.4	22	15.8	.2	9.5	26.1
AUG										
03...	48	14.2	2.99	3.6	6.6	22	14.4	.1	9.3	22.7

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	.16	.24	<.03	.030	.66	.57	.414	<.003	.029	.090
FEB 2000										
22...	.27	.38	.08	.070	1.2	1.1	.788	.004	.017	.077
MAY										
03...	.18	.32	<.03	--	.94	.80	.619	<.003	.034	.108
AUG										
03...	.38	.60	<.03	<.030	1.2	.99	.609	.004	.036	.239

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
08...	4.5	.4	<1.0	5	107	95	25	--	--
FEB 2000									
22...	3.6	--	E1.7	3	96	82	16	--	--
MAY									
03...	3.4	.4	2.2	--	108	97	22	2.2	10
AUG									
03...	5.5	1.0	<1.0	--	109	90	31	11	40

E Estimated value.
< Actual value is known to be less than the value shown.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)
AUG 2000									
03...	*1200*	*FIELD BLANK*	--	--	--	--	--	--	--
03...	1220	ENVIRONMENTAL	--	--	--	--	--	--	E2
03...	1220	BED MATERIAL	6.60	1000	2.3	170	2.8	<.2	--

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
AUG 2000											
03...	--	--	--	--	--	*<1*	--	--	*<1*	--	--
03...	34.4	<1	28	<1.0	3	--	3	4200	--	2	78
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)
AUG 2000											
03...	*<.2*	--	*<1*	--	--	--	*<1*	--	--	--	--
03...	--	<.3	--	4	<1	<1	--	13	--	--	--
03...	--	--	--	--	--	--	--	--	4	.3	33

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)
AUG 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	6.0	E5	32000	13	230	.01	8.4	<1	80	<50

DATE	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	<50	<50	<50	E10	<50	M	M	E20	E20	<50

DATE	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	E10	E20	<50	E40	<50	<50	<50	<50	<50	<50

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	<50	<50	<5	<50	<50	E10	<50	<50	E30	2

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
22...	1200	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	DIBROMOCHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
22...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
22...	<.10	.3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
03...	0830	<.002	.022	.010	<.002	<.002	<.005	<.003	<.004	<.004	E.003	E.008

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
03...	<.005	<.001	<.002	<.003	<.004	<.002	.018	<.001	.124	<.004	.007

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
03...	E.002	<.004	E.009	<.003	<.007	<.004	.112	E.009	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUN 2000					JUL 2000				
27...	1420	490	200	80	11...	1117	490	500	130
28...	1050	170	200	210	18...	1118	490	400	200
					25...	1153	230	600	190

E Estimated value.
< Actual value is known to be less than the value shown.

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION.--Lat 40°10'37", long 74°35'57", Monmouth County, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Millpond dam.

DRAINAGE AREA.--17.4 mi^2.

PERIOD OF RECORD.--Water years 1976 to current year.

REMARKS.--Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator and Watershed Reconnassainee, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
08...	0936	13	766	77	9.0	7.1	202	9.0	.089	.068
FEB 2000										
09...	1045	16	766	101	14.1	6.6	231	2.0	.056	.047
MAY										
01...	0915	14	760	91	9.5	7.3	190	13.5	.084	.073
AUG										
09...	1230	14	757	75	6.1	7.0	156	25.5	.190	.150

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
08...	59	15.0	5.34	4.4	8.9	22	21.2	.2	9.6	28.8
FEB 2000										
09...	58	14.3	5.38	3.5	14.0	18	33.8	.1	11.2	25.9
MAY										
01...	52	12.9	4.83	2.7	10.0	19	23.6	.1	7.0	22.4
AUG										
09...	41	10.1	3.90	3.7	7.8	18	16.4	.2	9.6	16.7

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
08...	.42	.69	.19	.200	1.2	.93	.509	.010	E.006	.059
FEB 2000										
09...	.63	.76	.40	.390	2.0	1.9	1.23	.019	E.005	.039
MAY										
01...	.58	.76	.37	.380	1.4	1.3	.683	.010	.007	.052
AUG										
09...	.67	.73	.23	.250	1.3	1.2	.553	<.014	.021	.070

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
08...	3.4	.8	E1.8	3	119	109	32	--	--
FEB 2000									
09...	1.7	.3	E1.4	7	138	125	21	--	--
MAY									
01...	2.9	.7	3.3	--	116	98	30	.21	6
AUG									
09...	4.7	.3	<1.0	--	108	82	29	.24	6

E Estimated value.
< Actual value is known to be less than the value shown.

01464515 DOCTORS CREEK AT ALLENTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
03...	0945	330	300	240
10...	0945	80	100	100
17...	0958	130	100	20
24...	1002	70	100	50

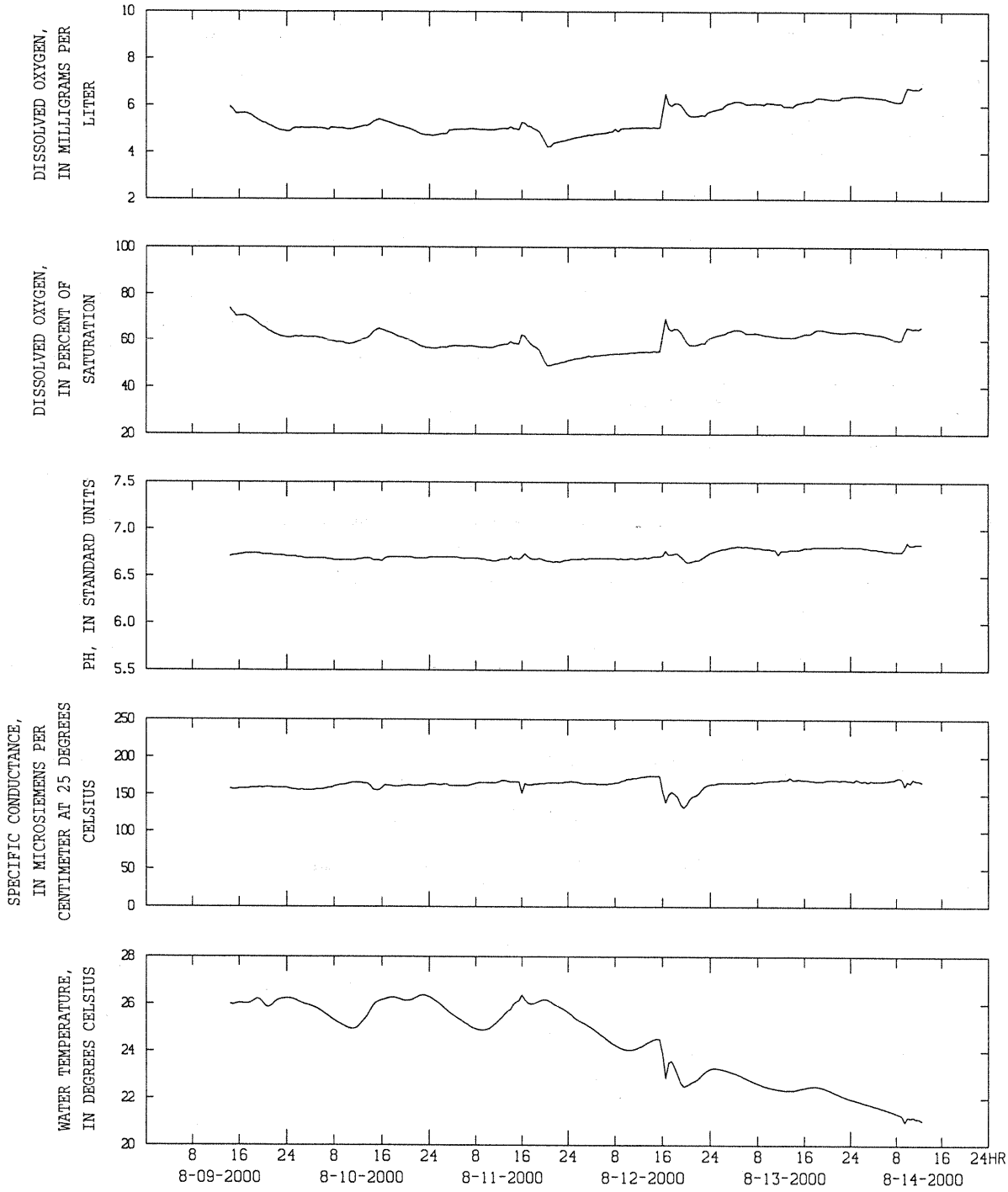


Figure 40. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01464515 Doctors Creek at Allentown.

01464529 BACONS CREEK NEAR MANSFIELD SQUARE, NJ

LOCATION.--Lat 40°06'27", long 74°41'06", Burlington County, Hydrologic Unit 02040201, at bridge on White Pine Road, 300 ft upstream from Fern Brook, 1.3 mi southeast of Mansfield Square, and 5.0 mi northeast of Columbus.

DRAINAGE AREA.--4.41 mi^2.

PERIOD OF RECORD.--Water years 1999 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
06...	1030	759	87	10.0	6.3	188	9.0	.044	.030	51
FEB 2000										
23...	1000	776	92	12.4	6.7	213	3.5	.024	.019	51
MAY										
02...	1045	760	89	9.7	6.1	223	11.5	.061	.045	56
AUG										
17...	0830	762	94	8.8	6.7	189	18.5	.086	.069	53

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
06...	12.4	4.80	2.6	8.8	3	20.5	.1	14.1	39.9
FEB 2000									
23...	11.7	5.37	2.6	11.1	2	24.2	<.1	12.1	38.8
MAY									
02...	13.1	5.56	3.0	12.8	3	28.3	.1	13.0	42.8
AUG									
17...	12.5	5.18	3.3	9.6	7	20.9	.2	14.2	34.2

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
06...	.28	.45	.13	.090	.77	.60	.315	<.003	.017
FEB 2000									
23...	.31	.30	.12	.120	1.2	1.2	.869	.009	E.003
MAY									
02...	.45	.60	.25	.230	1.2	1.1	.651	.016	E.006
AUG									
17...	.30	.40	.04	.050	1.0	.95	.650	.003	E.004

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
06...	.078	2.7	.4	<1.0	13	109	107	27	--
FEB 2000									
23...	.054	1.5	.3	<1.0	10	126	111	26	--
MAY									
02...	.066	3.3	.5	2.8	--	134	124	26	12
AUG									
17...	.094	2.3	.6	E1.3	--	118	107	35	18

E Estimated value.
< Actual value is known to be less than the value shown.

01464529 BACONS CREEK NEAR MANSFIELD SQUARE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 17...	0830	<3	32.4	<1	30	<1.0	E1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 17...	5020	<1	317	<.3	4	<1	<1	11

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 23...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 23...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 23...	<.10	.3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 02...	1045	<.002	<.002	.014	<.010	<.002	<.020	<.003	<.004	<.004	<.002	E.007

E Estimated value.
< Actual value is known to be less than the value shown.

01464529 BACONS CREEK NEAR MANSFIELD SQUARE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 02...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.023	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 02...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	.005

E Estimated value.
< Actual value is known to be less than the value shown.

01464583 NORTH BRANCH BARKERS BROOK NEAR JOBSTOWN, NJ

LOCATION.--Lat 40°01'58", long 74°40'12", Burlington County, Hydrologic Unit 02040201, at bridge on Juliustown-Georgetown Road (State Route 663), 1.3 mi east of Jobstown, 1.3 mi north of Juliustown, and 1.9 mi upstream of Barkers Brook.

DRAINAGE AREA.--1.72 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
15...	1210	.61	753	94	11.0	6.7	228	8.0	.145	.158
FEB 2000										
16...	1240	2.5	755	97	12.0	6.3	199	6.0	.119	.095
MAY										
16...	0920	.36	765	105	11.1	6.8	159	13.0	.849	.658
AUG										
03...	1100	3.5	760	9	.8	6.8	286	22.5	.721	.566

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
NOV 1999										
15...	75	23.5	4.00	5.8	6.4	10	16.8	.2	26.7	55.9
FEB 2000										
16...	56	16.7	3.51	5.2	7.8	8	19.7	.2	19.9	43.5
MAY										
16...	50	15.4	2.77	4.5	5.6	14	13.4	.2	21.8	32.1
AUG										
03...	85	25.3	5.39	14.6	9.2	50	24.0	.2	17.2	36.8

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
15...	.17	.24	.03	.030	.34	.27	.104	<.003	E.006	.064
FEB 2000										
16...	.34	.40	.06	.070	1.0	.96	.616	.003	.007	.055
MAY										
16...	.54	.63	<.03	<.030	.71	.62	.076	.003	.015	.027
AUG										
03...	3.2	3.7	.54	.520	3.8	3.3	.094	.018	.052	.244

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
15...	2.9	.2	E1.3	5	150	146	35	--	--
FEB 2000									
16...	3.5	<.2	<1.0	5	137	124	26	--	--
MAY									
16...	17	<.2	2.0	--	127	105	29	.01	6
AUG									
03...	25	1.6	>5.8	--	220	164	68	.23	24

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA

LOCATION.--Lat 40°13'45", long 75°07'12", Bucks County, Hydrologic Unit 02040201, on left bank just upstream from bridge on Valley Road, 1.1 mi east of Neshaminy, PA, 2.0 mi downstream from Park Creek, 3.0 mi downstream from Bradford Dam, and 6.8 mi upstream from confluence with Neshaminy Creek.

DRAINAGE AREA.--26.8 mi^2.

PERIOD OF RECORD.--November 1998 to current year.

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 minutes) located at gage.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction.Streambed sediment samples were collected during low-flow conditions to determine concentrations of trace metals and hydrophobic organic compounds. The bed sediment sample is a composite of the top 1-2 centimeters of material from at least 5 depositional areas within the stream reach. More information regarding methods can be found in Shelton and Capel, 1994, Guidleines for collecting and processing samples of stream bed sediments for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p. Bed sediment and fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: February 1999 to June 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: maximum, 29.0 °C, Jun. 2, 1999, but may have been higher during period of missing record; minimum, -0.5 °C, Mar. 8, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
OCT 1999									
05...	1120	ENVIRONMENTAL	72	759	93	9.2	7.8	370	17.0
19...	1250	ENVIRONMENTAL	13	764	145	15.4	8.5	454	16.5
NOV									
03...	0940	ENVIRONMENTAL	60	749	91	9.3	7.6	290	10.0
17...	*1329*	*FIELD BLANK*	--	--	--	--	--	--	--
17...	1330	ENVIRONMENTAL	7.5	758	192	24.7	8.6	498	9.0
DEC									
02...	1140	ENVIRONMENTAL	13	765	100	13.7	8.0	447	5.0
15...	1500	ENVIRONMENTAL	98	760	95	11.6	7.7	221	9.0
JAN 2000									
06...	1230	ENVIRONMENTAL	26	769	105	13.7	7.8	270	7.5
19...	1250	ENVIRONMENTAL	E11	753	108	15.5	8.6	470	1.5
FEB									
07...	1050	ENVIRONMENTAL	E11	758	103	14.9	8.0	947	5.5
14...	1420	ENVIRONMENTAL	E508	748	103	14.4	6.5	687	11.0
MAR									
08...	1040	ENVIRONMENTAL	16	754	62	6.9	8.3	502	25.5
08...	*1041*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
21...	1410	ENVIRONMENTAL	30	765	100	12.3	8.1	448	5.0
APR									
04...	1410	ENVIRONMENTAL	63	741	121	11.8	8.0	407	19.5
17...	1500	ENVIRONMENTAL	101	760	115	12.1	7.5	325	7.0
MAY									
02...	0910	ENVIRONMENTAL	19	755	89	8.9	7.8	475	17.0
17...	0800	ENVIRONMENTAL	11	760	90	8.8	7.7	447	18.0
30...	1550	ENVIRONMENTAL	13	762	--	--	8.4	451	18.0
JUN									
14...	1630	ENVIRONMENTAL	19	757	95	9.0	7.9	385	17.0
28...	1320	ENVIRONMENTAL	7.0	760	--	--	8.2	469	27.5
JUL									
10...	0850	ENVIRONMENTAL	3.1	750	69	5.7	8.0	612	26.0
AUG									
01...	1420	ENVIRONMENTAL	181	760	93	7.9	7.6	222	27.0
15...	0930	ENVIRONMENTAL	58	757	104	9.5	7.8	271	24.0
28...	1600	ENVIRONMENTAL	28	757	75	6.2	7.7	300	27.5
SEP									
13...	0910	ENVIRONMENTAL	63	757	81	7.0	7.5	397	21.5

E Estimated value.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT 1999											
05...	15.5	130	32.5	11.0	3.3	20.9	E118	E144	--	27.4	.1
19...	12.5	160	41.2	14.1	3.9	28.5	120	146	--	38.7	.1
NOV											
03...	13.5	96	23.8	8.77	4.1	17.1	72	88	--	23.3	.1
17...	--	--	*.03*	*<.01*	*<.2*	*E.1*	--	--	--	*<.3*	*<.1*
17...	4.5	180	45.7	15.3	4.2	34.8	140	--	--	49.7	<.1
DEC											
02...	2.5	160	41.6	13.8	3.3	26.0	104	127	--	37.5	.1
15...	7.0	77	19.2	7.01	2.5	11.3	51	62	--	14.4	.1
JAN 2000											
06...	4.5	99	25.4	8.57	2.9	14.5	64	78	--	25.0	<.1
19...	.5	150	38.7	13.7	3.1	30.3	--	--	--	45.0	.1
FEB											
07...	.0	220	55.9	19.1	4.8	90.5	104	127	--	197	.1
14...	1.0	150	37.4	13.4	2.8	69.3	53	65	--	160	.1
MAR											
08...	10.0	150	37.6	13.4	2.3	40.8	91	101	5	79.7	<.1
08...	--	*150*	*37.3*	*13.3*	*2.5*	*40.3*	--	--	--	*80.4*	*<.1*
21...	6.5	130	32.1	11.4	2.4	33.1	78	94	--	60.1	<.1
APR											
04...	15.0	130	32.5	11.6	2.5	29.8	82	99	--	48.7	<.1
17...	13.0	97	24.6	8.56	2.5	23.7	66	80	--	40.7	<.1
MAY											
02...	14.5	150	37.6	12.8	2.6	33.9	98	119	--	55.2	<.1
17...	16.5	130	32.6	11.2	3.0	31.4	89	109	--	51.6	.1
30...	17.5	150	38.3	12.3	3.4	30.4	104	122	2	48.0	.1
JUN											
14...	17.5	110	29.0	9.74	3.4	29.4	81	99	--	41.7	.1
28...	25.5	150	38.6	13.4	3.1	34.0	122	149	--	48.8	.1
JUL											
10...	24.0	170	44.8	14.7	4.1	49.5	129	158	--	73.5	.1
AUG											
01...	23.0	70	18.2	6.09	3.8	11.5	55	67	--	13.5	.1
15...	19.5	83	21.3	7.28	3.9	15.8	72	88	--	21.2	.1
28...	24.0	93	23.7	8.20	4.7	18.1	--	--	--	24.2	.1
SEP											
13...	22.0	--	<31.2	9.27	4.1	27.4	85	103	--	38.8	.1

< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 1999											
05...	6.6	38.7	.042	.42	.70	1.4	1.00	1.7	.017	.065	.048
19...	8.7	48.2	<.020	.28	.39	1.7	1.38	1.8	.014	.086	.067
NOV											
03...	5.9	26.7	<.020	.51	.59	1.2	.678	1.3	.010	.105	.070
17...	*<.1*	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*
17...	7.0	53.1	<.020	.34	.45	2.6	2.24	2.7	<.010	.064	.043
DEC											
02...	10.9	48.2	.032	.31	.48	2.9	2.59	3.1	.010	.108	.089
15...	6.8	23.9	.029	.43	.65	1.7	1.23	1.9	.013	.069	.060
JAN 2000											
06...	7.3	31.4	.020	.42	.59	1.8	1.38	2.0	.015	.046	.042
19...	9.3	47.5	.056	.28	.37	2.7	2.42	2.8	.017	.042	.034
FEB											
07...	7.0	45.5	.625	3.7	3.9	6.2	2.54	6.4	.030	.019	.013
14...	4.9	24.3	.164	.48	1.7	1.7	1.26	3.0	.012	.046	.035
MAR											
08...	4.8	41.0	<.020	.32	.35	1.8	1.50	1.9	.025	.024	.014
08...	*4.8*	*41.1*	*<.020*	*.35*	*.58*	*1.8*	*1.49*	*2.1*	*.025*	*.025*	*.014*
21...	7.0	35.2	<.020	.34	.41	2.1	1.79	2.2	.018	.030	.017
APR											
04...	6.5	32.8	.036	.25	.48	1.6	1.35	1.8	.021	.034	.023
17...	5.3	25.1	.097	.54	.73	1.6	1.02	1.7	.022	.049	.031
MAY											
02...	6.3	39.7	.021	.37	.40	1.9	1.52	1.9	.019	.059	.041
17...	5.9	33.7	.038	.51	.62	1.8	1.29	1.9	.020	.094	.071
30...	9.4	37.8	<.020	.37	.40	1.7	1.37	1.8	.013	.109	.090
JUN											
14...	7.1	33.8	.066	.52	.67	1.9	1.35	2.0	.029	.112	.085
28...	7.3	39.5	<.020	.39	.52	1.3	.930	1.5	<.010	.119	.096
JUL											
10...	8.6	53.0	.069	.51	.61	2.2	1.66	2.3	.024	.149	.123
AUG											
01...	6.4	19.8	.026	.59	.90	1.5	.962	1.9	.011	.111	.073
15...	6.7	19.3	<.020	.58	.75	1.2	.652	1.4	.015	.099	.065
28...	5.4	26.0	<.020	.54	.93	1.6	1.07	2.0	.018	.131	.102
SEP											
13...	<.1	29.8	.051	.44	.70	1.6	1.14	1.8	.011	.121	.096

< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT 1999											
05...	.156	222	--	41	51	20	23	4.6	.4	4.1	21
19...	.103	275	262	6	75	20	8	4.0	.2	.14	4
NOV											
03...	.210	175	156	--	44	100	33	9.1	1.3	6.3	39
17...	*<.008*	*<10*	--	--	*<16*	*<10*	*<3*	--	--	--	*1*
17...	.083	294	304	5	94	50	11	3.5	.2	.05	2
DEC											
02...	.139	262	256	12	--	40	34	4.0	.3	.24	7
15...	.153	134	122	83	25	70	40	6.0	.8	8.9	34
JAN 2000											
06...	.122	179	160	62	40	60	35	6.2	.5	1.9	26
19...	.062	279	265	4	68	30	32	2.8	<.2	--	2
FEB											
07...	.040	525	495	3	68	20	73	4.1	.3	--	2
14...	.245	398	350	--	22	40	89	4.6	4.2	--	166
MAR											
08...	.052	297	281	9	48	40	67	3.9	.2	.20	5
08...	*.053*	*298*	--	--	*45*	*40*	*66*	--	--	--	*5*
21...	.076	254	235	12	36	40	58	3.4	.6	.47	6
APR											
04...	.071	228	219	18	36	60	53	3.6	.4	1.2	7
17...	.097	193	175	85	32	50	52	6.2	1.2	11	41
MAY											
02...	.091	264	254	8	54	30	39	4.1	<.2	.41	8
17...	.135	253	229	9	58	50	68	5.1	<.2	.31	10
30...	.128	266	248	8	52	60	39	3.8	<.2	.19	5
JUN											
14...	.168	224	209	34	60	40	31	5.4	.6	.89	17
28...	.149	297	263	16	74	30	38	4.1	.3	.27	14
JUL											
10...	.174	355	334	--	120	10	67	4.6	.6	.11	13
AUG											
01...	.247	136	117	170	31	50	18	7.3	1.1	42	86
15...	.200	164	142	59	37	60	16	7.1	1.7	4.9	31
28...	.238	173	159	89	57	30	14	6.7	.9	3.2	42
SEP											
13...	.197	216	--	58	<16	30	32	5.1	.5	8.7	51

< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)
OCT 1999									
05...	1120	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.01
19...	1250	ENVIRONMENTAL	<.4	<.13	<.08	<.14	<14	<.2	<.06
NOV									
03...	0940	ENVIRONMENTAL	<.4	<.13	<.08	<.14	E7	<.2	E.01
17...	1330	ENVIRONMENTAL	<.2	<.07	E.01	<.07	E2	<.1	E.03
DEC									
02...	1140	ENVIRONMENTAL	<.2	<.07	E.02	<.07	<7	<.1	E.04
15...	1500	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	E.02
JAN 2000									
06...	1230	ENVIRONMENTAL	<.2	<.07	E.02	<.07	E1	<.1	E.03
06...	*1231*	*SPLIT REPLICATE*	*<.2*	*<.07*	*E.02*	*<.07*	*E1*	*<.1*	*E.03*
19...	1250	ENVIRONMENTAL	<.2	E.02	E.06	<.07	E3	<.1	E.09
FEB									
07...	1050	ENVIRONMENTAL	<.2	E.01	E.04	<.07	E1	<.1	E.06
14...	1420	ENVIRONMENTAL	<.2	<.07	E.01	<.07	E3	<.1	E.01
MAR									
08...	1040	ENVIRONMENTAL	<.2	E.01	E.03	<.07	<7	<.1	E.04
21...	1410	ENVIRONMENTAL	<.2	<.07	E.04	<.07	<7	<.1	E.04
APR									
04...	1410	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.03
17...	1500	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	E.03
MAY									
02...	0910	ENVIRONMENTAL	<.2	<.07	E.02	<.07	E2	<.1	E.04
JUN									
14...	1630	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.03
JUL									
10...	0850	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
AUG									
15...	0930	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	E.01
SEP									
13...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	45	<.1	E.01

DATE	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
OCT 1999											
05...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
19...	<.12	<.11	<.09	<.11	<.10	<.06	<.4	<.08	<.10	<.07	<.12
NOV											
03...	<.12	<.11	<.09	<.11	<.10	<.06	<.4	<.08	<.10	<.07	<.12
17...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
DEC											
02...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
15...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
JAN 2000											
06...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
06...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*E.02*	*<.06*
19...	<.06	<.06	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.02	<.06
FEB											
07...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
14...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
MAR											
08...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
21...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
APR											
04...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
17...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAY											
02...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUN											
14...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUL											
10...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
AUG											
15...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
SEP											
13...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06

E Estimated value.
< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999											
05...	<.07	<.06	<.03	<.2	<.1	E.03	E.03	<.05	<.2	<.05	<.1
19...	<.14	<.12	<.06	<.4	<.2	E.03	E.07	<.10	<.3	<.11	<.2
NOV											
03...	<.14	<.12	<.06	<.4	<.2	E.02	E.04	<.10	<.3	<.11	<.2
17...	<.07	<.06	<.03	<.2	<.1	E.03	E.07	<.05	<.2	<.05	<.1
DEC											
02...	<.07	<.06	<.03	<.2	<.1	E.03	.11	<.05	<.2	<.05	<.1
15...	<.07	<.06	<.03	<.2	<.1	E.03	E.04	<.05	<.2	<.05	<.1
JAN 2000											
06...	<.07	<.06	<.03	<.2	<.1	E.02	E.09	<.05	<.2	<.05	<.1
06...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*E.02*	*E.10*	*<.05*	*<.2*	*<.05*	*<.1*
19...	<.07	E.02	<.03	<.2	<.1	E.07	.29	<.05	<.2	<.05	<.1
FEB											
07...	<.07	<.06	<.03	<.2	<.1	E.03	.21	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	E.03	E.04	<.05	<.2	<.05	M
MAR											
08...	<.07	<.06	<.03	<.2	<.1	E.03	.20	<.05	<.2	<.05	<.1
21...	<.07	<.06	<.03	<.2	<.1	E.02	.13	<.05	<.2	<.05	<.1
APR											
04...	<.07	<.06	<.03	<.2	<.1	E.03	E.06	<.05	<.2	<.05	<.1
17...	<.07	<.06	<.03	<.2	<.1	E.04	E.08	<.05	<.2	<.05	<.1
MAY											
02...	<.07	<.06	<.03	<.2	<.1	E.04	.16	<.05	<.2	<.05	<.1
JUN											
14...	<.07	<.06	<.03	<.2	<.1	E.04	E.05	<.05	<.2	<.05	<.1
JUL											
10...	<.07	<.06	<.03	<.2	<.1	E.02	E.01	<.05	<.2	<.05	<.1
AUG											
15...	E.01	<.06	<.03	<.2	<.1	E.03	E.04	<.05	<.2	<.05	<.1
SEP											
13...	<.07	<.06	<.03	M	<.1	.13	E.08	E.07	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
19...	<.06	<.12	<4	<.4	<.3	<1.0	<.8	<3	<.7	<.12
NOV										
03...	<.06	<.12	<4	<.4	E.1	<1.0	E.1	<3	<.7	<.12
17...	<.03	<.06	<2	<.2	E.1	E.1	<.4	<2	<.4	<.06
DEC										
02...	<.03	<.06	<2	<.2	.2	<.5	<.4	<2	<.4	E.02
15...	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	<.4	<.06
JAN 2000										
06...	<.03	<.06	<2	<.2	.2	<.5	M	<2	E.1	<.06
06...	*<.03*	*<.06*	*<2*	*<.2*	*.2*	*<.5*	*M*	*<2*	*E.1*	*<.06*
19...	<.03	<.06	<2	<.2	E.1	<.5	M	<2	<.4	<.06
FEB										
07...	<.03	<.06	<2	<.2	.3	<.5	M	<2	<.4	<.06
14...	E.02	<.06	<2	<.2	.5	<.5	<.4	<2	E.1	E.06
MAR										
08...	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	M	E.02
21...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
APR										
04...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
17...	<.03	<.06	<2	<.2	E.2	<.5	<.4	<2	<.4	<.06
MAY										
02...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JUN										
14...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUL										
10...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
AUG										
15...	<.03	<.06	<2	<.2	.2	<.5	<.4	<2	<.4	<.06
SEP										
13...	<.03	<.06	<2	<.2	E.1	M	<.4	<2	<.4	<.06

E Estimated value.
< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT 1999										
05...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	E.04	<.09
19...	<.5	<.08	<.08	<.14	<.08	<.2	<.12	<.05	E.11	<.18
NOV										
03...	<.5	<.08	<.08	<.14	<.08	M	<.12	<.05	E.05	<.18
17...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.09	<.09
DEC										
02...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.06	.17	<.09
15...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	.10	<.09
JAN 2000										
06...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.04	.22	<.09
06...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.04*	*.24*	*<.09*
19...	<.2	<.04	<.04	<.07	<.04	E.1	<.06	<.05	.81	<.09
FEB										
07...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.58	<.09
14...	<.2	<.04	E.04	<.07	E.01	M	<.06	.13	.10	<.09
MAR										
08...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	.44	<.09
21...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.26	<.09
APR										
04...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.15	<.09
17...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.13	<.09
MAY										
02...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	.25	<.09
JUN										
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.06	<.09
JUL										
10...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	E.02	<.09
AUG										
15...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.05	<.09
SEP										
13...	<.2	<.04	<.04	M	<.04	M	<.06	<.05	E.03	<.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
05...	1120	ENVIRONMENTAL	<.002	<.002	.022	<.002	<.002	E.025
NOV								
03...	0940	ENVIRONMENTAL	<.002	<.002	.016	<.002	<.002	<.007
DEC								
02...	*1139*	*FIELD BLANK*	*<.002*	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*
02...	1140	ENVIRONMENTAL	<.002	<.002	.015	<.002	<.002	<.003
JAN 2000								
06...	1230	ENVIRONMENTAL	<.002	<.002	.013	<.002	<.002	E.007
FEB								
07...	1050	ENVIRONMENTAL	<.002	<.002	.013	<.002	<.002	<.003
14...	1420	ENVIRONMENTAL	<.002	<.002	.010	<.002	<.002	<.003
MAR								
08...	1040	ENVIRONMENTAL	<.002	<.002	.017	<.002	<.002	<.003
21...	1410	ENVIRONMENTAL	<.002	<.002	.015	<.002	<.002	E.030
APR								
04...	1410	ENVIRONMENTAL	<.002	.009	.025	E.001	<.002	E.008
17...	1500	ENVIRONMENTAL	<.002	.006	.026	.009	<.002	E.011
17...	*1501*	*SPLIT REPLICATE*	*<.002*	*.005*	*.025*	*.009*	*<.002*	*E.011*
MAY								
02...	0910	ENVIRONMENTAL	<.002	<.005	.022	.005	<.002	E.008
17...	0800	ENVIRONMENTAL	.019	.021	.110	.004	<.002	E.082
30...	1550	ENVIRONMENTAL	<.002	.004	.083	E.002	<.002	E.084
JUN								
14...	1630	ENVIRONMENTAL	.013	.034	.123	<.002	<.002	E.014
28...	1320	ENVIRONMENTAL	<.002	.005	.356	<.002	<.002	E.019
JUL								
10...	0850	ENVIRONMENTAL	<.002	<.002	.117	<.002	<.002	E.045
AUG								
01...	1420	ENVIRONMENTAL	<.002	<.002	.160	E.002	<.002	E.12
15...	0930	ENVIRONMENTAL	<.002	<.002	.045	<.002	<.002	E.082
28...	1600	ENVIRONMENTAL	<.002	<.002	.042	.005	<.002	E2.4
SEP								
13...	0910	ENVIRONMENTAL	<.002	<.002	.011	<.002	<.002	E.14

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)
OCT 1999										
05...	<.003	<.004	<.004	E.002	E.016	.018	<.001	<.002	<.003	<.004
NOV										
03...	<.003	<.004	<.004	<.002	E.015	--	<.001	<.002	--	<.004
DEC										
02...	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*	*<.004*
02...	<.003	<.004	<.004	<.002	E.017	<.002	<.001	<.002	<.003	<.004
JAN 2000										
06...	<.003	<.004	<.004	<.002	E.013	<.002	<.001	<.002	<.003	<.004
FEB										
07...	<.003	<.004	<.004	<.002	E.021	<.002	<.001	<.002	<.003	<.004
14...	<.003	<.004	<.004	<.002	E.008	<.002	<.001	<.002	<.003	<.004
MAR										
08...	<.003	<.004	<.004	<.002	E.025	<.002	<.001	<.002	<.003	<.004
21...	<.003	<.004	<.004	<.002	E.014	E.003	<.001	<.002	<.003	<.004
APR										
04...	<.003	<.004	<.004	<.002	E.022	.008	<.001	<.002	<.003	<.004
17...	<.003	<.004	<.004	<.002	E.018	.059	<.001	<.002	<.003	<.004
17...	*<.003*	*<.004*	*<.004*	*<.002*	*E.017*	*.060*	*<.001*	*<.002*	*<.003*	*<.004*
MAY										
02...	<.003	<.004	<.004	<.002	E.029	.010	<.001	<.002	<.003	<.004
17...	<.003	<.004	.024	<.002	E.056	.050	<.001	<.002	<.003	<.004
30...	<.003	<.004	<.004	E.001	E.030	.035	<.001	<.002	<.003	<.004
JUN										
14...	<.003	<.004	.076	<.002	E.031	.040	<.001	<.002	<.003	<.004
28...	<.003	<.004	.118	<.002	E.037	.048	<.001	<.002	<.003	.008
JUL										
10...	<.003	<.004	.028	<.002	E.044	.020	<.001	<.002	<.003	<.004
AUG										
01...	E.11	E.005	.035	<.002	E.066	.436	<.001	<.002	<.003	<.004
15...	<.003	<.004	<.004	<.002	E.029	.212	<.001	<.004	<.003	<.004
28...	<.003	<.004	<.020	<.002	E.018	.312	<.001	<.002	<.003	<.004
SEP										
13...	<.003	<.004	<.004	<.002	E.018	.035	<.001	<.002	<.003	<.004

E Estimated value.
< Actual value is known to be less than the value shown.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT 1999									
05...	<.002	<.005	<.001	.017	<.004	<.003	<.006	<.004	.033
NOV									
03...	<.002	<.005	<.001	.030	<.004	<.003	<.006	<.004	E.018
DEC									
02...	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*	*<.004*	*<.018*
02...	<.002	<.005	<.001	.012	<.004	<.003	<.006	<.004	E.014
JAN 2000									
06...	<.002	<.005	<.001	.024	<.004	<.003	<.006	<.004	E.008
FEB									
07...	<.002	<.005	<.001	.008	<.004	<.003	<.006	<.004	E.012
14...	<.002	<.005	<.001	.011	<.004	<.003	<.006	<.004	E.014
MAR									
08...	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004	E.012
21...	<.002	<.005	<.001	.011	<.004	<.003	<.006	<.004	E.009
APR									
04...	<.002	<.005	<.001	.027	<.004	<.003	<.006	.011	E.011
17...	<.002	<.005	<.001	.034	<.004	<.003	<.006	<.040	<.018
17...	*<.002*	*<.005*	*<.001*	*.035*	*<.004*	*<.003*	*<.006*	*<.040*	*<.018*
MAY									
02...	<.002	<.005	<.001	.026	<.004	<.003	<.006	<.008	E.014
17...	<.002	<.005	<.010	.069	<.004	<.003	<.006	<.004	E.017
30...	<.002	<.005	<.001	.047	<.004	<.003	<.006	<.004	.025
JUN									
14...	<.002	<.005	<.001	.094	<.004	<.003	<.006	<.004	.050
28...	<.002	<.005	<.001	.114	<.004	<.003	<.006	<.004	.031
JUL									
10...	<.002	<.005	<.001	.033	<.004	<.003	<.006	<.004	.021
AUG									
01...	<.002	<.005	<.001	.189	<.004	<.003	<.006	<.004	E.040
15...	<.002	<.005	<.001	.051	<.004	<.003	<.006	<.004	.034
28...	<.002	<.050	<.001	.030	<.004	<.003	<.006	<.006	.148
SEP									
13...	<.002	.007	<.001	.007	<.004	<.003	<.006	<.004	<.018

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
05...	<.003	<.007	<.004	.014	<.010	<.007	<.005	<.001	<.002
NOV									
03...	<.003	<.007	<.004	.012	<.010	<.007	<.005	<.001	<.002
DEC									
02...	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.005*	*<.001*	*<.002*
02...	<.003	<.007	<.004	.008	<.010	<.007	<.005	<.001	<.002
JAN 2000									
06...	<.003	<.007	<.004	.009	<.010	<.007	<.005	<.001	<.002
FEB									
07...	<.003	<.007	<.004	.007	<.010	<.007	<.005	<.001	<.002
14...	<.003	<.007	<.004	<.005	<.010	<.007	<.005	<.001	.006
MAR									
08...	<.003	<.007	<.004	.008	<.010	<.007	<.005	<.001	<.002
21...	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	E.004
APR									
04...	<.003	E.005	<.004	.013	<.010	<.007	--	<.001	E.002
17...	<.003	<.007	<.004	.019	<.010	<.007	--	<.001	.009
17...	*<.003*	*<.007*	*<.004*	*.018*	*<.010*	*<.007*	--	*<.001*	*.010*
MAY									
02...	<.003	<.007	<.004	.012	<.010	<.007	--	<.001	.005
17...	<.003	<.007	<.004	.018	<.010	<.007	--	<.001	.004
30...	<.003	<.007	<.004	.012	<.010	<.007	--	<.001	E.002
JUN									
14...	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	E.001
28...	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
JUL									
10...	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	<.002
AUG									
01...	<.003	<.010	<.004	<.005	<.010	<.007	--	<.001	E.003
15...	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
28...	<.003	<.007	<.004	.006	<.010	<.007	--	<.001	.006
SEP									
13...	<.003	<.007	<.004	.028	<.010	<.007	--	<.001	E.001

E Estimated value.
< Actual value is known to be less than the value shown.

01465893 LITTLE CREEK AT CHAIRVILLE, NJ

LOCATION.--Lat 39°53'53", long 74°47'19", Burlington County, Hydrologic Unit 02040202, at bridge on State Route 70 in Chairville, 250 feet east of Skeet Road, 1.9 mi east of Medford, 4.6 mi south of Lumberton, and 4.7 mi upstream of South Branch Rancocas Creek.

DRAINAGE AREA.--6.32 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
18...	1310	2.6	769	87	11.4	3.5	87	4.5	.396	.299
FEB 2000										
09...	1140	7.2	766	80	11.8	4.3	89	.0	.498	.373
MAY										
17...	0920	4.0	766	80	8.0	4.3	74	15.5	.142	.108
AUG										
16...	1020	19	758	64	5.8	4.0	80	20.0	1.27	.962

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
18...	11	2.12	1.30	.9	7.4	<1	12.5	<.1	7.1	9.6
FEB 2000										
09...	10	1.94	1.15	.9	6.0	<1	10.2	<.1	8.0	10.0
MAY										
17...	7	1.47	.90	.8	7.0	--	11.1	.2	4.6	7.4
AUG										
16...	7	1.67	.76	.6	4.6	--	7.3	<.1	5.9	8.4

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
18...	.37	.40	<.03	.030	.51	.48	.115	<.003	E.005
FEB 2000									
09...	.32	.34	<.03	<.030	.45	.43	.111	<.003	.008
MAY									
17...	.26	.37	.15	<.030	.57	.47	.202	<.003	.031
AUG									
16...	.64	.75	<.03	<.030	--	--	<.037	E.003	.014

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
18...	E.007	10	.2	E1.7	<1	56	23	--	--
FEB 2000									
09...	.012	12	.5	<1.6	6	57	E15	--	--
MAY									
17...	.104	4.2	.5	<1.0	--	61	21	.03	3
AUG									
16...	.023	27	.6	E2.2	--	80	20	.29	6

E Estimated value.
< Actual value is known to be less than the value shown.

01465950 NORTH BRANCH RANCOCAS CREEK AT HANOVER FURNACE, NJ

LOCATION.--Lat 39°58'46", long 74°31'30", Burlington County, Hydrologic Unit 02040202, at bridge on Military Road at outlet of Hanover Lake at Hanover Furnace, 1.0 mi upstream of Mirror Lake, and 2.6 mi east from Browns Mills.

DRAINAGE AREA.--13.5 mi^2.

PERIOD OF RECORD.--December 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
DEC 1999												
01...	1030	770	80	9.8	4.4	31	7.0	.101	.078	3	.70	.38
FEB 2000												
01...	1000	762	78	10.6	4.7	32	2.6	.096	.075	4	.82	.42
MAY												
31...	1030	766	87	8.3	4.5	33	18.0	.288	.229	3	.63	.36
AUG												
22...	1000	770	73	6.6	4.8	35	21.0	.184	.138	3	.61	.32

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)
DEC 1999												
01...	.4	1.8	<1	3.3	<.1	3.9	4.6	.12	.19	<.03	<.030	--
FEB 2000												
01...	.4	1.8	<1	3.1	<.1	5.1	5.1	.10	.15	<.03	<.030	.20
MAY												
31...	.3	1.8	--	2.3	<.1	2.7	5.1	.15	.45	<.03	<.030	--
AUG												
22...	.3	1.8	--	3.7	<.1	3.3	3.6	.25	.42	<.03	<.030	--

DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999												
01...	--	<.037	<.003	<.007	.012	2.9	.8	<1.0	2	24	<16	--
FEB 2000												
01...	.14	.042	<.003	<.007	E.005	2.3	.2	<1.0	<1	15	E9	--
MAY												
31...	--	<.037	<.003	<.007	.023	5.7	2.4	E1.4	--	15	E7	2
AUG												
22...	--	<.037	<.003	E.003	.025	5.4	3.4	<1.0	--	25	E9	--

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITROGEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INORGANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)
AUG 2000											
22...	1000	--	--	--	--	--	--	<3	14.1	<1	<12
22...	1000	6.50	60	1.8	<40	3.3	.6	--	--	--	--

E Estimated value.
< Actual value is known to be less than the value shown.

01465950 NORTH BRANCH RANCOCAS CREEK AT HANOVER FURNACE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000											
22...	<1.0	E1	7	2290	21	20	<.3	<1	<1	<1	10
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD) (01028)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOTTOM MATERIAL (UG/G AS NI) (01068)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G) (01148)
AUG 2000											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<1	<.1	9.8	<.3	300	6000	16000	19	.01	3.8	<1

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	30	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	<50	<50	<50	<50	220	<50	<50	<50	<50	<50	<50

DATE	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
22...	--	--	--	--	--	--	--	--	--	--
22...	<50	<50	E18	<50	<50	90	<50	<50	160	1

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
01...	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

E Estimated value.
< Actual value is known to be less than the value shown.

01465950 NORTH BRANCH RANCOCAS CREEK AT HANOVER FURNACE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000												
01...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000											
01...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000												
31...	1030	<.002	<.002	.007	<.002	<.002	E.007	<.003	<.004	<.004	<.002	E.007

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
31...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
31...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01466200 POLE BRIDGE BRANCH NEAR BROWNS MILLS, NJ

LOCATION.--Lat 39°56'48", long 74°33'22", Burlington County, Hydrologic Unit 02040202, at bridge on Wissahickon Trail, 200 ft downstream from outlet of Country lake, 2.2 mi southeast of Browns Mills and 2.6 mi east of Whitesbog.

DRAINAGE AREA.--24.9 mi^2.

PERIOD OF RECORD.--Water year 1977 and current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	UV ABSORBANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORBANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
07...	1000	760	91	11.0	4.6	52	7.0	.696	.556	6
FEB 2000										
23...	0900	775	112	14.6	4.2	56	5.0	.641	.502	5
MAY										
31...	0900	767	93	9.0	4.4	55	17.5	.750	.594	5
AUG										
16...	1000	760	81	7.1	4.3	55	22.0	.389	.301	5

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 1999									
07...	1.25	.64	1.2	3.8	2	7.1	<.1	5.1	6.5
FEB 2000									
23...	.97	.52	.7	3.0	<1	5.0	<.1	3.9	4.9
MAY									
31...	1.03	.56	1.0	3.5	--	6.6	<.1	3.5	5.3
AUG									
16...	1.03	.52	1.3	3.2	--	6.0	<.1	4.5	6.5

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
DEC 1999									
07...	.34	.57	.07	.070	.62	.40	.054	<.003	.026
FEB 2000									
23...	.29	.34	<.03	<.030	--	--	E.021	<.003	.035
MAY									
31...	.49	.62	.04	.030	--	--	E.021	.003	.049
AUG									
16...	.34	.66	<.03	<.030	--	--	<.037	<.003	.041

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
DEC 1999									
07...	.061	12	1.6	E1.3	2	41	27	E10	--
FEB 2000									
23...	.061	13	.4	E1.0	1	44	--	<16	--
MAY									
31...	.076	13	2.3	2.2	--	42	--	E13	2
AUG									
16...	.113	9.0	>4.0	E2.1	--	40	E23	18	5

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01466200 POLE BRIDGE BRANCH NEAR BROWNS MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 16...	1000	E1	14.4	<1	<12	<1.0	1	2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 16...	4340	2	20	<.3	<1	<1	<1	15

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 23...	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 23...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 23...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 31...	0900	<.002	<.002	.008	<.002	<.002	E.036	<.003	<.004	<.004	<.002	E.006

E Estimated value.
< Actual value is known to be less than the value shown.

01466200 POLE BRIDGE BRANCH NEAR BROWNS MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
31...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	.045

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
31...	<.006	<.004	<.018	.007	<.007	<.004	<.005	<.010	E.028	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, Hydrologic Unit 02040202, on right bank in Lebanon State Forest, 25 ft upstream from Butterworth Road Bridge, 3.4 mi upstream from confluence with Cooper Branch, and 7.0 mi southeast of Browns Mills.

DRAINAGE AREA.--2.35 mi^2.

PERIOD OF RECORD.--Water years 1963-96, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1968 to September 1992.
pH: October 1984 to September 1992.
WATER TEMPERATURE: October 1960 to September 1992.
DISSOLVED OXYGEN: October 1984 to September 1992.

REMARKS.--Chemical analyses are from samples collected as water flows over the weir at the gaging station. All discharge record represents flow at a point 785 ft downstream of the gaging station. Discharges at the weir may be about 1 ft^3/s less than published in Water-Data Report NJ-00-1. Statistical summaries of physical properties, measured twice per hour over 2, 3, 4, or 5 days, at this and other stations, as part of the 2000 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the Introduction.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	1100	1.4	769	28	3.2	4.1	47	10.0	.119	.089
FEB 2000										
15...	1045	E2.0	764	62	8.0	4.1	59	5.0	.235	.174
MAY										
03...	1045	1.6	769	29	3.3	4.2	45	10.5	.229	.169
AUG										
08...	1045	1.0	761	27	2.7	4.4	35	16.0	.116	.089

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
NOV 1999									
22...	3	.51	.50	.2	1.8	<1	3.5	<.1	5.1
FEB 2000									
15...	4	.56	.58	.2	2.0	<1	3.3	<.1	4.1
MAY									
03...	3	.44	.42	E.2	1.8	--	3.6	<.1	3.6
AUG									
08...	2	.32	.36	.2	1.7	--	3.5	<.1	4.7

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
22...	5.6	E.10	.15	<.03	<.030	--	<.037	<.003	<.007
FEB 2000									
15...	7.3	E.10	.16	<.03	<.030	.20	.040	<.003	<.007
MAY									
03...	5.8	.11	E.10	<.03	<.030	--	E.019	<.003	<.007
AUG									
08...	3.3	E.10	E.10	<.03	<.030	--	<.037	.006	<.007

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV 1999									
22...	<.008	3.2	.2	E1.3	4	26	--	E8	--
FEB 2000									
15...	<.008	6.6	.3	E1.3	3	30	--	E8	--
MAY									
03...	<.008	6.2	.3	E1.2	--	25	--	<16	<1
AUG									
08...	<.008	2.9	<.2	E1.3	--	22	E15	E7	<1

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
AUG 2000								
08...	1045	<3	9.2	<1	<12	<1.0	<1	<1

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
AUG 2000								
08...	120	<1	6	<.3	<1	<1	<1	5

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000												
15...	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000												
15...	<.20	<.10	<.2	.21	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000											
15...	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 03...	1045	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 03...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 03...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002

< Actual value is known to be less than the value shown.

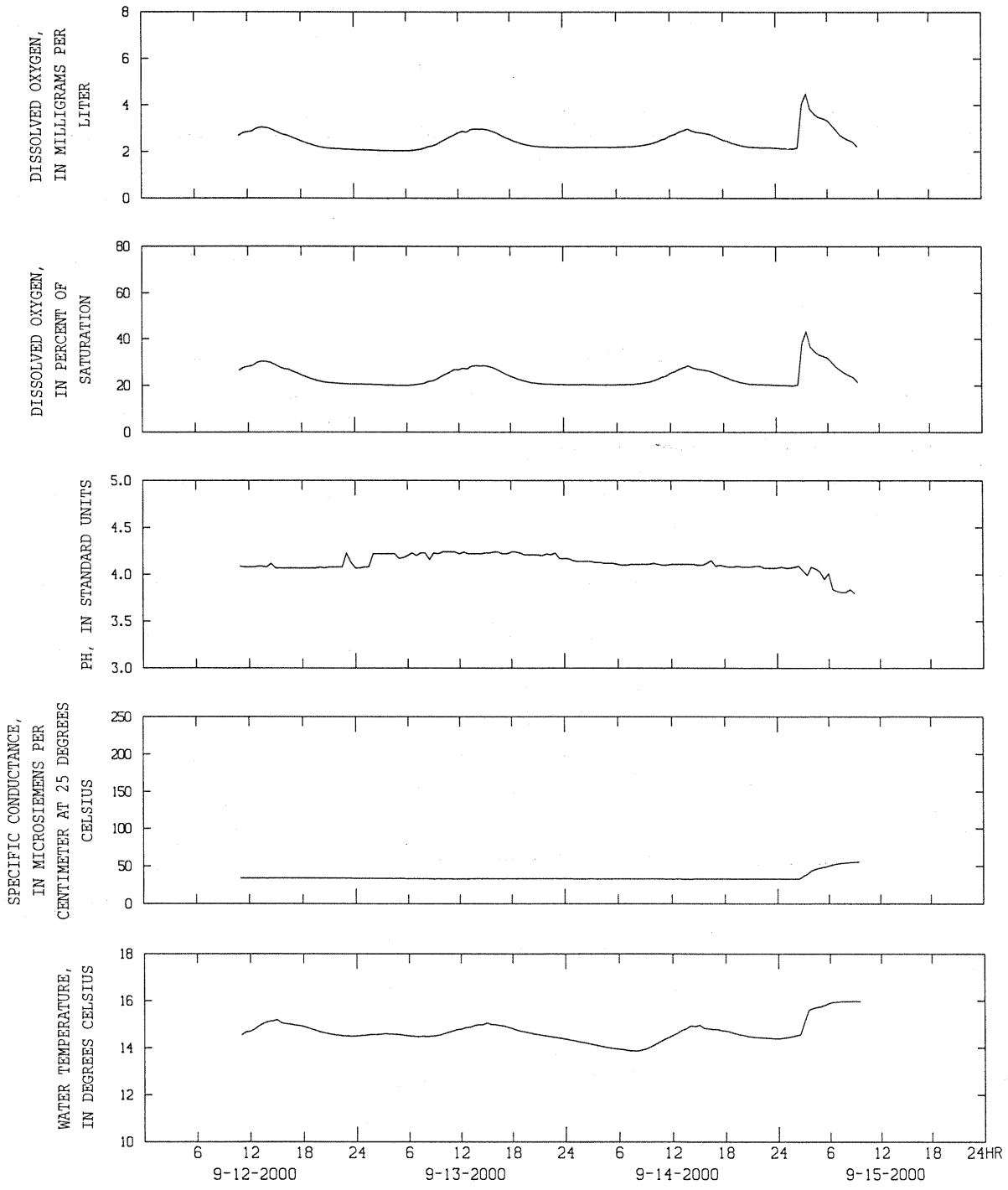


Figure 41. Reconnaissance Study -- Field characteristics and concentrations of constituents in surface water monitored at 01466500 McDonalds Branch in Lebanon State Forest.

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK AT MOUNT HOLLY, NJ

LOCATION.--Lat 39°59'31", long 74°46'58", Burlington County, Hydrologic Unit 02040202, at Iron Works Park footbridge, 0.3 mi north of Saint Andrews Cemetery in Mount Holly, and 0.1 mi downstream from Mill Dam.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year. Published as "at Pine Street" (station 01467006) 1998-99.

REMARKS.--Site is at head of tide; all samples collected at low tide.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, and BOD, were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
22...	0940	134	770	91	10.4	6.4	--	10.0	.181	.140
FEB 2000										
16...	0920	239	760	98	12.8	6.5	112	4.0	.263	.206
MAY										
17...	1300	135	765	93	8.7	6.8	128	18.5	.446	.348
AUG										
24...	0910	106	761	94	8.6	6.5	144	19.5	.316	.248

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
22...	33	10.7	1.55	1.7	10.6	8	12.3	<.1	7.2	33.9
FEB 2000										
16...	22	6.53	1.48	1.5	9.0	5	12.2	<.1	6.8	19.9
MAY										
17...	22	6.66	1.37	1.7	11.7	7	13.1	<.1	5.6	21.0
AUG										
24...	28	8.96	1.34	2.0	11.5	6	14.2	.1	6.9	26.3

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 1999										
22...	.56	.76	.27	.280	1.0	.82	.266	.016	.018	.144
FEB 2000										
16...	.41	.54	.24	.230	.88	.74	.331	.008	.025	.091
MAY										
17...	.56	.75	.15	.150	.98	.78	.229	.008	.045	.141
AUG										
24...	.55	.74	<.03	<.030	1.0	.85	.306	.008	.032	.165

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
22...	4.8	.8	E2.0	5	103	84	24	--	--
FEB 2000									
16...	6.1	.2	<1.0	5	76	62	19	--	--
MAY									
17...	9.0	1.9	E1.3	--	88	67	25	.58	2
AUG									
24...	7.0	1.0	E1.3	--	93	76	29	1.7	6

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ

LOCATION.--Lat 39°54'11", long 75°01'18", Camden County, Hydrologic Unit 02040202, on right bank of Wallworth Lake in Pennypacker Park, 200 ft upstream from bridge on State Highway 41 (Kings Highway) in Haddonfield, 0.6 mi upstream from North Branch Cooper River, and 7.7 mi upstream from mouth.

DRAINAGE AREA.--17.0 mi^2.

PERIOD OF RECORD.--Water years 1968-79, 1991 to current year.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction. Fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1968 to September 1969.
WATER TEMPERATURE: March 1968 to August 1969; October 1998 to current year.

INSTRUMENTATION.--
WATER TEMPERATURE: Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

COOPERATION.--Field measurements and samples for laboratory analysis on Nov. 8, Feb. 17, June 1, and Aug. 31 were provided by the New Jersey Department of Environmental Protection. Determinations of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. Coli, and enterococci bacteria on those dates were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Other field data and samples for laboratory analysis were provided by the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
OCT 1999								
04...	1420	ENVIRONMENTAL	17	762	94	8.8	7.0	214
NOV								
04...	1420	ENVIRONMENTAL	22	769	99	10.9	7.1	188
08...	1115	ENVIRONMENTAL	12	771	82	9.6	7.3	224
30...	1330	ENVIRONMENTAL	12	774	86	10.7	7.1	207
JAN 2000								
05...	1020	ENVIRONMENTAL	65	766	90	10.5	7.0	135
FEB								
01...	1400	ENVIRONMENTAL	27	757	101	14.1	7.0	1660
17...	1045	ENVIRONMENTAL	20	777	82	10.9	7.1	362
MAR								
07...	1200	ENVIRONMENTAL	8.1	766	78	8.9	7.0	374
APR								
03...	1320	ENVIRONMENTAL	19	758	--	--	6.9	257
03...	*1321*	*CONCURRENT REPLICATE*	--	--	--	--	--	--
MAY								
04...	1220	ENVIRONMENTAL	13	769	95	9.0	7.0	254
22...	1250	ENVIRONMENTAL	16	763	88	9.0	7.0	218
JUN								
01...	1045	ENVIRONMENTAL	9.7	766	83	7.8	7.0	232
26...	1340	ENVIRONMENTAL	11	765	--	--	7.2	209
JUL								
31...	1240	ENVIRONMENTAL	11	768	93	7.6	7.0	168
31...	*1241*	*SPLIT REPLICATE*	--	--	--	--	--	--
AUG								
30...	1310	ENVIRONMENTAL	18	769	91	7.9	6.9	169
31...	1100	ENVIRONMENTAL	31	766	74	6.4	7.0	170

< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 1999										
04...	22.0	18.5	--	--	61	16.9	4.61	4.1	11.5	--
NOV										
04...	12.5	11.5	--	--	57	16.3	3.99	3.8	9.2	--
08...	--	9.0	.090	.068	68	18.7	5.17	4.2	11.6	30
30...	4.0	7.0	--	--	65	18.2	4.61	4.2	10.3	--
JAN 2000										
05...	4.5	9.0	--	--	35	9.77	2.68	2.5	6.1	--
FEB										
01...	3.0	1.0	--	--	91	26.9	5.80	4.8	279	--
17...	--	4.0	.123	.102	67	18.6	4.90	3.3	36.2	27
MAR										
07...	17.5	9.5	--	--	69	19.3	5.18	3.5	39.7	--
APR										
03...	24.5	14.0	--	--	61	16.8	4.70	3.3	19.3	--
03...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	23.0	18.0	--	--	63	17.2	4.91	3.8	17.9	--
22...	15.0	14.5	--	--	59	16.4	4.26	3.2	15.1	--
JUN										
01...	--	18.5	.102	.078	61	16.8	4.71	3.8	14.8	30
26...	34.0	E25.0	--	--	58	15.9	4.34	4.0	12.7	--
JUL										
31...	33.5	25.5	--	--	48	13.4	3.59	3.6	10.7	--
31...	--	--	--	--	*48*	*13.2*	*3.53*	*3.5*	*10.5*	--
AUG										
30...	30.0	22.5	--	--	47	13.3	3.46	3.3	9.6	--
31...	--	23.0	.200	.152	48	13.5	3.40	3.7	8.9	27

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT 1999										
04...	25	31	20.6	.2	11.0	29.8	.30	.33	--	.055
NOV										
04...	25	30	17.4	.1	8.9	30.5	.28	.61	--	.047
08...	--	--	22.9	.2	14.1	33.7	.33	.59	.12	.130
30...	30	36	19.9	.1	11.8	32.2	.37	.54	--	.187
JAN 2000										
05...	15	18	12.5	<.1	5.5	20.1	.40	.78	--	.163
FEB										
01...	24	30	467	.2	8.3	28.9	.65	.81	--	.119
17...	--	--	66.0	.1	11.6	33.0	.45	.61	.32	.280
MAR										
07...	24	29	72.4	.1	11.5	32.0	.29	.46	--	.158
APR										
03...	25	30	36.9	.2	10.7	29.4	.34	.61	--	.198
03...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	36	44	34.2	.2	10.9	28.0	.40	.83	--	.223
22...	36	44	26.9	.2	9.3	18.1	.68	.95	--	.359
JUN										
01...	--	--	30.1	.2	13.2	22.8	.66	1.0	.35	.370
26...	34	41	23.5	.2	10.7	20.3	.46	.86	--	.219
JUL										
31...	29	35	20.5	<.1	8.5	15.9	.52	.82	--	.211
31...	--	--	*20.4*	*<.1*	*8.5*	*16.0*	*.50*	*.83*	--	*.209*
AUG										
30...	26	32	16.3	.2	9.0	18.2	.56	.77	--	.221
31...	--	--	15.6	.2	9.0	16.6	.62	.69	.20	.170

< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 1999										
04...	1.7	1.6	1.33	.020	.056	.037	.174	3.5	2.9	--
NOV										
04...	.70	.38	.096	<.010	.014	<.010	.212	5.6	<.2	--
08...	.72	.45	.125	.005	.009	--	.217	3.6	1.3	2.1
30...	.69	.52	.153	<.010	.009	<.010	.165	3.7	1.1	--
JAN 2000										
05...	1.2	.80	.399	.011	.017	.011	.294	3.7	2.4	--
FEB										
01...	.91	.75	.093	<.010	E.003	.017	.106	3.0	.6	--
17...	1.1	.91	.462	.008	.009	--	.173	2.8	.8	E1.3
MAR										
07...	.65	.48	.190	<.010	E.004	<.010	.174	2.1	.6	--
APR										
03...	.83	.56	.217	<.010	.019	.015	.274	3.1	1.4	--
03...	--	--	--	--	--	--	--	*3.2*	*2.3*	--
MAY										
04...	1.1	.65	.252	.011	.014	<.010	.325	3.4	.9	--
22...	1.3	1.1	.397	.025	.049	.041	.052	4.6	1.0	--
JUN										
01...	1.2	.87	.210	.023	E.005	--	.036	3.6	1.6	2.7
26...	1.1	.72	.259	.022	.022	.016	.295	4.2	2.0	--
JUL										
31...	1.3	.96	.441	.025	.021	.012	.261	4.5	1.2	--
31...	*1.3*	*.94*	*.449*	*.025*	*.021*	*.019*	*.264*	--	--	--
AUG										
30...	1.1	.93	.374	.011	.043	.034	.285	4.4	1.0	--
31...	1.0	.98	.356	.014	.032	--	.274	5.0	1.3	E1.2

DATE	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT 1999									
04...	--	136	120	47	46	E10	94	1.0	22
NOV									
04...	--	118	106	25	42	140	86	1.1	19
08...	8	138	129	--	43	--	--	--	--
30...	--	134	120	18	39	230	131	.34	10
JAN 2000									
05...	--	81	71	38	19	190	59	5.0	30
FEB									
01...	--	866	838	24	28	1440	127	.92	13
17...	13	196	192	--	31	--	--	--	--
MAR									
07...	--	209	200	28	39	300	117	.34	15
APR									
03...	--	148	138	38	37	380	98	.83	22
03...	--	--	--	--	--	--	--	--	--
MAY									
04...	--	150	141	40	40	190	95	.80	24
22...	--	132	119	26	31	1300	88	.57	16
JUN									
01...	--	136	126	--	45	--	--	.47	18
26...	--	136	114	--	47	430	76	.52	19
JUL									
31...	--	108	96	29	36	150	59	.40	16
31...	--	*108*	--	--	*36*	*290*	*58*	--	*18*
AUG									
30...	--	111	92	31	32	720	63	.75	18
31...	--	101	89	--	39	--	--	1.5	18

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRIMETHYL UNFILT RECOVER (UG/L) (77222)
NOV 1999										
04...	1420	M	<.06	<.07	<.04	<.07	E3	<.1	<.2	<.06
FEB 2000										
01...	1400	E.01	<.06	E.01	E.01	<.07	E3	<.1	<.2	<.06
JUN										
26...	1340	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)
NOV 1999										
04...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06	<.07
FEB 2000										
01...	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.03	<.06	<.07
JUN										
26...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROETHANE TOTAL (UG/L) (34311)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV 1999										
04...	<.06	E.01	<.2	<.1	E.01	E.01	<.05	<.2	E.02	E.1
FEB 2000										
01...	<.06	E.01	<.2	<.1	E.02	E.04	<.05	<.2	E.01	E.1
JUN										
26...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISODURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISOBUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV 1999										
04...	E.01	<.06	<2	<.2	1.7	<.5	<.4	<2	<.4	E.01
FEB 2000										
01...	<.03	<.06	<2	<.2	2.2	<.5	M	M	E.2	E.02
JUN										
26...	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	<.4	<.06

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
NOV 1999										
04...	<.2	<.04	E.01	E.01	E.02	M	<.06	<.05	E.02	<.09
FEB 2000										
01...	<.2	<.04	E.01	E.02	<.04	M	<.06	<.05	E.04	<.09
JUN										
26...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT 1999												
04...	1420	<.002	<.002	E.003	<.002	<.002	E.012	<.003	.005	<.004	<.002	<.002
NOV												
04...	1420	<.002	<.002	<.001	<.002	<.002	E.005	<.003	<.004	<.004	<.002	<.002
30...	1330	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
JAN 2000												
05...	1020	<.002	<.002	E.004	<.002	<.002	E.024	<.003	.008	<.004	E.002	<.002
FEB												
01...	1400	<.002	<.002	E.003	<.002	<.002	E.023	<.003	.008	<.004	<.002	<.002
MAR												
07...	1200	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
APR												
03...	1320	<.002	<.002	E.003	E.002	<.002	E.023	<.003	E.003	<.004	<.002	<.002
MAY												
04...	1220	<.002	<.002	.009	<.004	<.002	<.009	<.003	<.008	<.004	<.002	E.004
22...	1250	<.009	<.002	.064	<.002	<.002	E.026	<.003	.005	<.004	E.001	E.029
JUN												
26...	1340	<.002	<.002	.014	<.002	<.002	E.023	<.003	<.004	<.004	<.002	E.006
JUL												
31...	1240	<.002	<.002	.008	<.002	<.002	E.038	<.003	<.004	<.004	<.002	<.002
AUG												
30...	1310	<.002	<.002	.005	<.002	<.002	E.14	<.003	<.004	<.004	<.002	<.002

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
OCT 1999											
04...	.026	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.004	<.004	<.003
NOV											
04...	--	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003
30...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003
JAN 2000											
05...	E.004	<.001	<.002	<.003	<.004	<.002	<.010	<.001	E.003	<.004	<.003
FEB											
01...	<.002	<.001	<.002	<.003	<.004	<.002	<.020	<.001	.004	<.004	<.003
MAR											
07...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003
APR											
03...	.007	E.004	<.002	<.003	<.004	<.002	<.005	<.001	E.004	<.004	<.003
MAY											
04...	.017	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003
22...	.026	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.036	<.004	<.003
JUN											
26...	.066	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.023	<.004	<.003
JUL											
31...	.188	<.001	<.002	<.003	<.004	<.002	<.005	<.020	.007	<.004	<.003
AUG											
30...	.149	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999											
04...	<.006	<.004	E.017	<.003	E.004	<.004	E.004	E.006	<.007	<.001	<.002
NOV											
04...	<.006	<.004	.034	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
30...	<.006	<.004	.022	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
JAN 2000											
05...	<.006	<.004	E.017	<.003	<.007	<.004	.007	<.010	<.007	<.001	E.001
FEB											
01...	<.006	<.004	E.015	<.003	<.007	<.004	.006	<.010	<.007	<.001	E.001
MAR											
07...	<.006	<.004	E.007	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
APR											
03...	<.006	.016	E.016	<.003	<.007	<.004	.007	<.010	<.007	<.001	E.002
MAY											
04...	<.006	<.020	<.018	<.003	<.007	<.004	.009	<.010	<.009	<.001	<.004
22...	<.006	<.020	<.050	<.010	<.007	<.004	.018	<.010	<.007	<.001	E.001
JUN											
26...	<.006	<.004	.030	<.003	<.007	<.004	E.004	E.004	<.007	<.001	<.002
JUL											
31...	<.006	.030	.059	<.003	<.007	<.004	<.010	<.010	<.007	<.001	<.002
AUG											
30...	<.006	<.004	.047	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000					AUG 2000				
01...	1130	9200	2000	950	15...	1140	5400	600	680
08...	1135	490	100	180	22...	1205	790	900	110
					29...	1020	5400	2200	1500

E Estimated value.
< Actual value is known to be less than the value shown.

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	16.0	18.0	---	---	---	5.0	3.0	4.0	5.5	4.5	5.0
2	19.0	16.0	17.5	---	---	---	4.5	3.0	3.5	8.0	5.0	6.5
3	19.5	17.0	18.5	---	---	---	5.5	3.5	4.5	10.0	7.5	8.5
4	19.0	17.0	18.5	---	---	---	8.0	5.5	6.5	12.5	10.0	11.0
5	17.0	14.5	15.5	---	---	---	9.5	7.0	8.5	11.0	6.5	9.0
6	16.0	13.0	14.5	---	---	---	11.0	9.5	10.0	6.5	5.0	5.5
7	15.0	13.0	14.0	---	---	---	11.0	9.0	10.0	5.5	4.0	5.0
8	14.5	12.0	13.5	---	---	---	9.0	7.0	8.0	5.0	3.5	4.5
9	15.5	13.0	14.5	---	---	---	7.0	6.0	6.5	6.0	4.5	5.0
10	16.5	15.0	16.0	---	---	---	8.5	6.0	7.0	8.0	6.0	7.0
11	19.0	16.5	17.5	---	---	---	8.5	7.0	7.5	7.5	6.0	7.0
12	17.5	15.0	16.5	---	---	---	7.0	5.0	5.5	6.0	4.5	5.5
13	17.5	14.5	16.0	---	---	---	6.5	5.0	5.0	5.5	3.5	5.0
14	17.0	14.5	15.5	---	---	---	7.0	6.5	6.5	3.5	1.0	2.0
15	15.5	13.0	14.0	---	---	---	7.5	7.0	7.0	2.5	1.0	2.0
16	16.0	13.0	14.0	---	---	---	8.5	7.0	8.0	3.0	2.0	2.5
17	15.5	14.5	15.0	---	---	---	7.0	5.0	6.0	2.0	.0	1.0
18	17.0	15.0	16.0	---	---	---	6.0	5.0	5.5	1.5	.0	1.0
19	15.0	13.0	13.5	---	---	---	5.5	4.5	5.5	2.0	1.0	1.5
20	13.5	13.0	13.0	---	---	---	8.5	5.0	6.0	1.5	.5	1.0
21	14.5	12.5	13.5	---	---	---	8.5	7.0	8.0	1.0	.5	1.0
22	13.5	11.5	12.5	---	---	---	7.0	5.0	6.5	1.0	.0	.5
23	14.0	11.5	13.0	---	---	---	5.0	3.5	4.5	.5	.0	.5
24	12.0	10.5	11.5	---	---	---	4.0	3.0	3.0	1.0	.0	.5
25	---	---	---	---	---	---	3.0	2.0	2.5	1.0	.0	1.0
26	---	---	---	---	---	---	3.0	2.0	2.0	.5	.0	.5
27	---	---	---	---	---	---	3.0	2.0	2.5	.5	.0	.5
28	---	---	---	---	---	---	3.0	2.5	3.0	.5	.0	.5
29	---	---	---	---	---	---	3.5	2.5	3.0	.5	.0	.5
30	---	---	---	---	---	---	4.0	3.0	3.5	.5	.0	.5
31	---	---	---	---	---	---	5.0	4.0	4.5	1.0	.0	.5
MONTH	---	---	---	---	---	---	11.0	2.0	5.5	12.5	.0	3.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.5	1.0	9.5	6.5	8.0	15.5	11.0	13.0	16.5	13.5	15.5
2	1.5	1.0	1.5	10.0	7.5	8.5	14.0	12.0	13.0	18.5	15.0	16.5
3	1.0	.5	1.0	10.0	6.0	8.0	15.5	13.0	14.0	19.5	15.0	17.5
4	2.5	1.0	1.5	10.0	6.0	8.0	16.0	14.5	15.5	20.0	15.5	18.0
5	3.5	2.5	3.0	11.0	7.0	9.0	14.5	11.5	12.5	22.0	17.5	20.0
6	3.0	2.0	2.5	11.5	7.5	9.0	14.0	10.0	12.0	24.0	19.5	22.0
7	3.5	2.0	3.0	11.5	7.5	9.5	16.0	12.5	14.0	26.0	21.0	23.5
8	3.5	2.0	3.0	14.0	9.5	11.5	19.0	14.0	16.0	27.0	22.5	24.5
9	3.0	1.5	2.5	13.5	11.0	12.5	17.5	10.0	12.5	27.0	23.0	25.0
10	5.0	2.5	3.5	14.5	12.0	13.0	13.5	8.5	11.0	25.5	20.0	23.5
11	5.0	4.0	4.5	12.5	9.5	11.0	12.5	11.0	12.0	21.5	17.5	19.5
12	4.0	2.5	3.0	10.0	8.0	9.5	14.0	11.5	12.5	21.5	19.5	20.5
13	2.5	1.5	2.0	10.0	6.5	8.5	13.5	11.0	12.5	23.0	19.5	21.0
14	4.5	2.5	3.5	12.0	8.0	9.5	14.0	10.5	12.5	22.5	19.5	21.0
15	6.0	3.5	4.5	12.5	8.5	10.5	14.0	12.5	13.0	22.0	19.0	20.0
16	6.5	3.5	5.0	13.0	10.5	11.5	17.5	13.5	15.0	20.0	17.5	19.0
17	6.0	4.0	5.0	13.0	8.0	11.5	16.5	12.5	14.5	19.5	17.5	18.5
18	4.5	2.0	3.0	10.0	6.0	8.0	12.5	10.5	11.0	21.0	18.0	19.5
19	3.0	2.0	2.5	10.5	6.5	8.5	12.5	10.0	11.0	21.0	17.5	19.5
20	6.0	2.5	4.0	9.5	7.5	8.5	15.5	11.0	13.0	17.5	15.0	16.0
21	6.5	3.0	4.5	8.5	6.0	7.5	15.0	12.5	13.5	15.0	14.5	15.0
22	7.0	3.0	5.0	7.0	5.5	6.0	12.5	11.5	12.0	15.0	14.5	15.0
23	8.0	4.0	6.0	12.0	6.0	8.5	13.0	11.5	12.0	16.5	14.5	15.0
24	10.0	6.0	8.0	14.5	9.0	11.5	16.0	11.5	13.5	19.5	15.5	17.5
25	11.5	8.0	9.5	14.5	10.5	12.5	15.5	12.5	14.0	19.0	17.0	18.0
26	10.0	8.5	9.0	16.0	12.5	14.0	14.5	11.0	12.5	21.0	17.0	18.5
27	11.5	8.0	9.5	14.0	10.5	12.5	14.0	12.0	12.5	20.5	17.5	18.5
28	12.5	9.5	11.0	15.0	12.0	13.0	14.0	11.0	12.5	17.5	16.0	16.5
29	11.0	7.0	9.0	14.5	11.0	12.5	16.5	12.0	14.0	18.5	16.0	17.0
30	---	---	---	14.0	9.5	12.0	17.5	14.0	15.5	18.0	16.5	17.0
31	---	---	---	13.5	10.0	12.0	---	---	---	19.0	15.5	17.0
MONTH	12.5	.5	4.5	16.0	5.5	10.0	19.0	8.5	13.0	27.0	13.5	19.0

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ

LOCATION.--Lat 39°50'04", long 75°04'02", Camden County, Hydrologic Unit 02040206, at bridge on Chews Landing-Clementon Road (State Route 683), 0.7 mi south of Glendora, 1.8 mi upstream of South Branch Big Timber Creek, and 2.5 mi north of Blackwood.

DRAINAGE AREA.--18.8 mi^2.

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Site is tide-affected; all samples collected at low tide.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
23...	0840	E17	763	76	8.2	6.9	148	12.0	.058	.045
FEB 2000										
22...	1020	E22	758	92	12.0	7.0	247	4.0	.077	.061
MAY										
17...	1000	E46	765	70	6.9	7.1	182	16.5	.156	.122
AUG										
16...	1255	E27	758	62	5.2	6.9	156	23.5	.182	.143

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
23...	53	15.9	3.35	2.9	9.5	33	15.6	.2	11.6	22.5
FEB 2000										
22...	50	15.2	2.92	2.7	22.1	25	37.9	.1	9.2	24.9
MAY										
17...	49	14.7	3.10	3.1	10.7	33	17.9	.2	9.8	17.2
AUG										
16...	43	12.9	2.57	2.4	8.2	24	13.0	.1	9.0	18.8

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
23...	.32	.44	.06	.040	.91	.79	.466	<.003	.016
FEB 2000									
22...	.20	.33	.06	.080	1.0	.88	.677	.007	.014
MAY									
17...	.42	.60	.15	.160	1.1	.89	.466	.018	.053
AUG									
16...	.37	.51	.09	.060	.92	.78	.415	.015	.042

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
23...	.271	2.1	1.5	E1.6	26	111	103	279	--
FEB 2000									
22...	.169	2.2	.6	<1.0	9	142	134	275	--
MAY									
17...	.264	3.5	1.5	<1.0	--	108	99	259	17
AUG									
16...	.229	4.5	.7	E1.3	--	100	84	187	18

E Estimated value.
< Actual value is known to be less than the value shown.

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
AUG 2000				
01...	1052	700	<100	1100
08...	1100	80	<100	70
15...	1050	790	1900	750
22...	1130	490	500	20
29...	0945	490	300	340

< Actual value is known to be less than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, PA, Hydrologic Unit 02040203, on left bank 30 ft downstream from bridge at Kricks Mill, 0.4 mi upstream from Mill Creek, and 3.5 mi west of Bernville.

DRAINAGE AREA.--66.5 mi^2.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA).Fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT 1999										
06...	0910	ENVIRONMENTAL	104	757	91	10.0	8.2	572	10.5	11.0
19...	0850	ENVIRONMENTAL	81	762	92	10.2	8.3	580	6.0	11.0
NOV										
03...	0910	ENVIRONMENTAL	E132	743	116	12.1	8.0	565	17.0	12.0
17...	0900	ENVIRONMENTAL	49	756	159	20.3	8.3	564	7.0	4.5
DEC										
08...	0830	ENVIRONMENTAL	61	765	91	11.3	8.1	587	6.0	6.0
14...	1430	ENVIRONMENTAL	101	746	92	11.1	8.1	545	4.0	6.0
JAN 2000										
05...	1040	ENVIRONMENTAL	77	760	103	12.3	8.3	580	4.0	7.5
18...	1420	ENVIRONMENTAL	E75	754	100	14.4	8.3	652	-4.0	.0
FEB										
03...	0920	ENVIRONMENTAL	E60	758	99	14.4	8.1	586	E-12.2	.0
14...	1050	ENVIRONMENTAL	E57	744	100	12.9	8.2	573	4.5	3.5
28...	1420	ENVIRONMENTAL	243	753	98	11.2	7.9	450	11.0	9.0
MAR										
08...	1100	ENVIRONMENTAL	111	753	116	12.8	8.2	595	26.0	10.5
21...	0900	ENVIRONMENTAL	136	762	85	10.0	8.1	569	4.0	8.0
22...	1020	ENVIRONMENTAL	1740	765	100	12.5	7.7	307	7.0	6.0
APR										
05...	0920	ENVIRONMENTAL	138	752	105	12.0	8.1	562	4.0	9.0
18...	1000	ENVIRONMENTAL	143	--	--	--	8.1	556	5.0	9.0
MAY										
03...	0810	ENVIRONMENTAL	93	--	--	--	8.2	553	11.0	13.5
17...	0810	ENVIRONMENTAL	71	758	87	8.7	7.9	585	18.0	15.5
JUN										
01...	0830	ENVIRONMENTAL	86	759	95	9.3	8.1	588	23.0	16.0
14...	1300	ENVIRONMENTAL	141	757	95	9.4	8.1	505	16.5	15.5
29...	0950	ENVIRONMENTAL	200	750	100	9.6	8.0	590	20.0	16.5
JUL										
11...	1000	ENVIRONMENTAL	99	750	119	10.7	8.1	583	25.5	19.5
AUG										
02...	*1059*	*FIELD BLANK*	--	--	--	--	--	--	--	--
02...	1100	ENVIRONMENTAL	86	752	89	7.9	7.9	508	26.5	20.5
02...	*1101*	*SPLIT REPLICATE*	--	--	--	--	--	--	--	--
14...	1010	ENVIRONMENTAL	60	752	93	8.6	8.1	579	22.5	18.0
28...	1410	ENVIRONMENTAL	49	763	103	9.2	8.2	561	27.0	21.0

E Estimated value.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT 1999												
06...	270	77.3	17.5	4.2	11.1	--	197	240	--	22.3	.1	8.3
19...	280	80.6	19.2	3.7	11.4	--	210	256	--	22.8	<.1	7.4
NOV												
03...	270	77.8	18.9	3.8	10.7	--	202	246	--	23.8	<.1	6.7
17...	280	77.4	20.2	3.6	11.4	--	205	250	--	23.0	.1	4.1
DEC												
08...	280	81.9	19.5	3.5	11.5	--	203	248	--	22.0	.1	8.1
14...	260	75.2	17.4	4.0	10.3	--	190	232	--	22.8	<.1	7.1
JAN 2000												
05...	270	76.5	18.7	3.3	11.4	--	200	229	7	22.0	<.1	7.7
18...	280	81.3	19.6	3.3	16.5	--	--	--	--	32.8	.1	7.6
FEB												
03...	270	74.9	19.0	3.1	10.8	--	178	218	--	22.0	<.1	7.0
14...	260	73.4	19.0	3.5	14.0	--	194	237	--	26.4	.2	6.2
28...	180	54.6	11.0	4.6	9.2	--	--	--	--	19.3	<.1	6.1
MAR												
08...	280	80.2	18.3	3.0	11.4	--	210	256	--	24.1	<.1	6.5
21...	250	72.3	16.9	3.0	10.8	--	192	234	--	22.4	<.1	6.3
22...	120	35.1	7.14	4.8	5.4	--	87	106	--	10.5	<.1	5.3
APR												
05...	250	71.5	16.3	3.1	12.0	--	192	234	--	24.7	<.1	6.9
18...	260	75.5	16.8	2.9	9.2	--	194	236	--	22.6	<.1	6.9
MAY												
03...	270	77.1	18.9	2.9	10.2	--	193	236	--	20.6	<.1	5.8
17...	260	73.6	19.1	3.0	10.9	186	--	--	--	23.1	.1	5.6
JUN												
01...	280	79.6	19.3	2.7	11.0	--	218	266	--	21.9	<.1	6.8
14...	230	66.0	16.5	4.0	9.5	--	182	222	--	17.2	.2	7.6
29...	260	76.9	17.2	3.8	10.7	--	196	239	--	21.0	.2	8.2
JUL												
11...	270	78.7	18.6	3.2	9.9	--	210	257	--	21.3	<.1	4.4
AUG												
02...	--	*E.02*	*<.01*	*<.2*	*<.1*	--	--	--	--	*<.3*	*<.1*	*<.1*
02...	220	62.7	15.8	4.9	8.2	--	164	200	--	17.1	<.1	6.0
02...	*220*	*63.1*	*16.0*	*4.9*	*8.3*	--	--	--	--	*17.5*	*<.1*	*6.0*
14...	260	71.8	19.5	3.1	9.9	--	201	245	--	20.7	.1	6.6
28...	260	71.3	19.6	3.6	10.3	--	191	233	--	21.6	<.1	5.9

E Estimated value.
< Actual value is known to be less than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT 1999												
06...	36.7	.077	.36	.46	8.9	8.57	9.0	.072	.081	.062	.099	356
19...	33.9	.049	.27	.35	8.8	8.48	8.8	.069	.061	.051	.075	337
NOV												
03...	33.2	.057	.31	.54	7.6	7.30	7.8	.103	.053	.035	.081	324
17...	34.7	.090	.32	.48	8.8	8.50	9.0	.103	.023	.014	.032	332
DEC												
08...	35.7	.134	.37	.50	8.8	8.43	8.9	.101	.066	.045	.067	338
14...	33.2	.176	.59	.82	8.1	7.51	8.3	.101	.076	.070	.147	317
JAN 2000												
05...	34.8	.137	.33	.45	9.0	8.69	9.1	.110	.047	.039	.068	350
18...	32.3	.224	.49	.60	11	10.3	11	.059	.052	.043	.075	374
FEB												
03...	34.5	.169	.35	.39	8.8	8.45	8.8	.045	.023	.019	.032	340
14...	32.6	.271	.65	.85	8.7	8.01	8.9	.059	.046	.033	.077	344
28...	25.5	.283	.75	1.9	7.3	6.53	8.4	.059	.169	.139	.219	265
MAR												
08...	32.7	.081	.25	.37	9.6	9.31	9.7	.060	.036	.014	.064	344
21...	31.0	.099	.30	.47	9.5	9.22	9.7	.053	.038	.026	.079	328
22...	15.5	.210	.67	2.0	5.7	5.08	7.1	.030	.256	.227	.769	175
APR												
05...	31.9	.093	.36	.60	9.2	8.85	9.5	.042	.033	.025	.070	328
18...	29.8	.104	.27	.40	9.1	8.87	9.3	.060	.025	.021	.068	327
MAY												
03...	31.0	.066	.26	.52	8.8	8.58	9.1	.065	.039	.029	.063	330
17...	31.9	.066	.28	.43	9.4	9.12	9.5	.084	.037	.041	--	342
JUN												
01...	32.6	.047	.23	.41	9.2	8.97	9.4	.079	.043	.045	--	365
14...	28.5	.125	.53	.99	8.0	7.43	8.4	.108	.114	.091	.291	310
29...	28.2	.083	.37	.57	9.1	8.73	9.3	.066	.079	.064	.139	339
JUL												
11...	27.0	<.020	.24	.29	9.5	9.21	9.5	.041	.032	.021	.048	342
AUG												
02...	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*	*<.008*	*<10*
02...	28.8	.063	.41	.78	8.0	7.56	8.3	.089	.133	.107	.267	297
02...	*28.6*	*.060*	*.41*	*.89*	*8.3*	*7.86*	*8.7*	*.089*	*.134*	*.104*	*.273*	*298*
14...	29.9	.041	.26	.41	8.7	8.44	8.8	.060	.066	.052	.087	336
28...	28.0	.026	.33	.42	8.4	8.03	8.4	.049	.072	.052	.102	335

< Actual value is known to be less than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999											
06...	334	7	7.1	7	23	10	16	2.7	.2	1.2	4
19...	343	4	--	--	27	10	17	2.1	.3	1.2	6
NOV											
03...	328	8	3.9	5	21	30	24	2.5	.4	--	14
17...	335	3	--	--	26	10	12	1.5	.2	.42	3
DEC											
08...	342	4	3.7	3	21	10	23	1.7	.2	1.1	6
14...	318	63	--	--	20	20	30	2.7	.8	5.3	19
JAN 2000											
05...	333	8	3.4	4	20	10	22	1.9	.2	3.5	17
18...	374	14	--	--	26	20	16	1.3	.3	--	28
FEB											
03...	316	6	2.1	E2	21	E10	18	1.2	.4	--	8
14...	328	11	--	--	22	20	25	3.0	.6	--	9
28...	249	220	3.8	6	18	20	32	4.2	2.4	131	200
MAR											
08...	343	12	4.7	4	E16	E10	29	1.4	.4	7.2	24
21...	319	20	--	--	18	10	25	1.4	.5	8.5	23
22...	159	340	6.1	9	E12	180	49	4.2	>4.0	1150	246
APR											
05...	321	18	3.7	5	18	E10	12	1.7	.5	8.5	23
18...	319	8	--	--	21	10	11	1.5	.3	--	--
MAY											
03...	320	--	5.8	3	26	E10	15	1.6	.3	3.7	15
17...	320	16	--	--	19	E10	13	1.6	.2	8.3	44
JUN											
01...	344	22	3.2	3	25	10	13	1.5	<.2	8.7	37
14...	292	200	--	--	21	E10	11	2.7	1.9	37	98
29...	323	46	7.5	9	20	E10	18	1.8	.3	11	20
JUL											
11...	330	9	--	--	E15	<10	7	1.6	.5	4.7	18
AUG											
02...	--	--	*<2.0*	*<3*	*<16*	*<10*	*<2*	--	--	--	--
02...	276	140	2.7	4	19	<10	8	3.0	2.0	18	79
02...	--	--	*3.3*	*4*	*22*	*E10*	*8*	--	--	--	*70*
14...	320	10	--	--	21	<10	6	1.6	.3	2.4	15
28...	311	14	--	--	21	E10	7	2.0	.3	1.8	14

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)
OCT 1999									
06...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
19...	0850	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
NOV									
03...	0910	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E1	<.1	<.03
17...	0900	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
DEC									
08...	0830	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
14...	1430	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03
14...	*1431*	*CONCURRENT REPLICATE*	*<.2*	*<.07*	*<.04*	*<.07*	*E2*	*<.1*	*<.03*
JAN 2000									
05...	1040	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
18...	1420	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
FEB									
03...	0920	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
14...	1050	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03
28...	1420	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
MAR									
08...	1100	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E1	<.1	M
21...	0900	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
22...	1020	ENVIRONMENTAL	<.2	<.07	<.04	<.07	E2	<.1	<.03
APR									
05...	0920	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
18...	1000	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
MAY									
03...	0810	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	M
JUN									
01...	0830	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
JUL									
11...	*0957*	*SOLUTION BLANK*	*<.2*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.03*
11...	*0958*	*CANNISTER BLANK*	*<.2*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.03*
11...	*0959*	*FIELD BLANK*	*<.2*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.03*
11...	1000	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03
AUG									
14...	1010	ENVIRONMENTAL	<.2	<.07	<.04	<.07	<7	<.1	<.03

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

DATE	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
OCT 1999											
06...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
19...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
NOV											
03...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	M	<.06
17...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
DEC											
08...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
14...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
14...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*E.01*	*<.06*
JAN 2000											
05...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
18...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
FEB											
03...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
14...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06
28...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAR											
08...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
21...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
22...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06
APR											
05...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
18...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
MAY											
03...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUN											
01...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
JUL											
11...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
11...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
11...	*<.06*	*<.06*	*<.04*	*<.05*	*<.05*	*<.03*	*<.2*	*<.04*	*<.05*	*<.04*	*<.06*
11...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06
AUG											
14...	<.06	<.06	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999											
06...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
19...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
NOV											
03...	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
17...	<.07	<.06	<.03	<.2	M	E.01	<.04	<.05	<.2	<.05	<.1
DEC											
08...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
JAN 2000											
05...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
18...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
FEB											
03...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
28...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAR											
08...	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
21...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
22...	<.07	<.06	<.03	<.2	<.1	E.01	E.01	<.05	<.2	<.05	<.1
APR											
05...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
18...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MAY											
03...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN											
01...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUL											
11...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
11...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
11...	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.05*	*<.04*	*<.05*	*<.2*	*<.05*	*<.1*
11...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
AUG											
14...	<.07	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
06...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
19...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
NOV										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
17...	<.03	<.06	<2	<.2	<.2	E.1	<.4	<2	<.4	<.06
DEC										
08...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
14...	<.03	<.06	<2	<.2	E.1	<.5	<.4	E1	<.4	<.06
14...	*<.03*	*<.06*	*<2*	*<.2*	*E.1*	*<.5*	*<.4*	*E1*	*<.4*	*<.06*
JAN 2000										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
18...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
FEB										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
14...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
28...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAR										
08...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	E.01
21...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
22...	<.03	<.06	<2	<.2	E.1	<.5	<.4	M	<.4	E.02
APR										
05...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
18...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MAY										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUN										
01...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
JUL										
11...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
11...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
11...	*<.03*	*<.06*	*<2*	*<.2*	*<.2*	*<.5*	*<.4*	*<2*	*<.4*	*<.06*
11...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
AUG										
14...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT 1999										
06...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
19...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
NOV										
03...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	M	<.09
17...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	M	<.09
DEC										
08...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.05	<.04	<.09
14...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.05*	*<.04*	*<.09*
JAN 2000										
05...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
18...	<.2	<.04	<.04	<.07	<.04	E.1	<.06	E.08	E.01	<.09
FEB										
03...	<.2	<.04	<.04	<.07	E.01	M	<.06	<.05	<.04	<.09
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.02	<.09
28...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.06	<.04	<.09
MAR										
08...	<.2	<.04	E.01	<.07	<.04	M	<.06	<.05	E.01	<.09
21...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.07	<.04	<.09
22...	<.2	<.04	<.04	E.06	<.04	M	<.06	.18	E.01	<.09
APR										
05...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
18...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
MAY										
03...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.01	<.09
JUN										
01...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09
JUL										
11...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.07*	*<.04*	*<.09*
11...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.03*	*<.04*	*<.09*
11...	*<.2*	*<.04*	*<.04*	*<.07*	*<.04*	*M*	*<.06*	*E.02*	*<.04*	*<.09*
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.01	<.04	<.09
AUG										
14...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 and LCAA (listed in their entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
OCT 1999									
06...	0910	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.170	<.002	.116
NOV									
03...	0910	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.200	<.002	.145
DEC									
08...	0830	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.930	<.002	.121
14...	1430	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.450	<.002	.125
JAN 2000									
05...	1040	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.170	<.002	.134
FEB									
03...	0920	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.150	<.002	.146
28...	1420	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.060	<.002	.083
MAR									
08...	*1059*	*FIELD BLANK*	*<.05*	--	*<.05*	*<.05*	*<.050*	--	--
08...	1100	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.100	<.002	.134
21...	0900	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.200	<.002	.089
22...	1020	ENVIRONMENTAL	<.05	--	<.05	<.05	.060	--	--
APR									
05...	0920	ENVIRONMENTAL	--	<.002	--	--	--	<.002	.133
18...	1000	ENVIRONMENTAL	--	<.002	--	--	--	<.002	.112
MAY									
03...	0810	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.120	<.002	.108
03...	*0811*	*SPLIT REPLICATE*	--	*.006*	--	--	--	*<.002*	*.120*
17...	0810	ENVIRONMENTAL	<.05	.022	<.05	<.05	.340	.004	.407
JUN									
01...	0830	ENVIRONMENTAL	<.05	.009	<.05	<.05	.140	<.002	.272
14...	1300	ENVIRONMENTAL	<.05	.059	<.05	<.05	.290	.027	1.23
29...	0950	ENVIRONMENTAL	.28	.005	<.05	<.05	.270	.004	.471
JUL									
11...	1000	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.160	<.002	.363
AUG									
02...	1100	ENVIRONMENTAL	<.05	.010	<.05	<.05	.150	<.007	.275
14...	1010	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.180	<.002	.263
28...	1410	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.150	<.002	.204

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT 1999											
06...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
NOV											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	.010	<.001	<.002
DEC											
08...	<.005	<.002	E.030	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
14...	<.002	<.002	E.005	<.003	<.004	<.004	E.002	E.18	<.002	<.001	<.002
JAN 2000											
05...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.19	<.002	<.001	<.002
FEB											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.25	<.002	<.001	<.002
28...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.13	<.002	<.001	.016
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	<.002	<.001	<.002
21...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.17	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	<.002	<.002	<.003	<.040	<.004	<.004	<.002	E.20	<.002	<.001	E.002
18...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.21	<.002	<.001	<.002
MAY											
03...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.15	<.002	<.001	<.002
03...	*<.002*	*<.002*	*<.003*	*<.003*	*<.004*	*<.004*	*<.002*	*E.20*	*<.002*	*<.001*	*<.002*
17...	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.22	E.001	<.001	<.002
JUN											
01...	<.002	<.002	<.003	<.003	E.003	<.008	<.002	E.18	.140	<.001	<.002
14...	<.002	<.002	E.23	<.003	.007	.075	<.002	E.22	.038	<.001	<.002
29...	<.002	<.002	<.003	E.020	.007	.006	<.002	E.18	.005	<.001	<.002
JUL											
11...	<.002	<.002	E.024	<.020	<.004	.007	<.002	E.28	<.002	<.001	<.002
AUG											
02...	<.002	<.002	E.15	<.003	<.004	<.004	<.002	E.21	.015	<.001	<.002
14...	<.002	<.002	<.003	<.003	<.004	.005	<.002	E.23	<.002	<.001	<.002
28...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.25	.011	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT 1999											
06...	<.003	<.004	<.002	<.005	<.001	.67	.12	.015	<.004	<.003	<.006
NOV											
03...	<.003	<.004	<.002	<.005	<.001	.73	.07	.014	<.004	<.003	<.006
DEC											
08...	<.003	<.004	<.002	<.005	<.001	1.43	.11	.010	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	1.05	.07	.011	<.004	<.003	<.006
JAN 2000											
05...	<.003	<.004	<.002	<.005	<.001	.37	<.05	.012	<.004	<.003	<.006
FEB											
03...	<.003	<.004	<.002	<.005	<.001	.61	<.05	.010	<.004	<.003	<.006
28...	<.003	<.004	<.002	<.005	<.001	.49	.25	.031	<.004	<.003	<.006
MAR											
08...	--	--	--	--	--	*<.05*	*<.05*	--	--	--	--
08...	<.003	<.004	<.002	<.005	<.001	.47	<.05	.011	<.004	<.003	<.006
21...	<.003	<.004	<.002	<.005	<.001	.64	<.05	.011	<.004	<.003	<.006
22...	--	--	--	--	--	.34	.10	--	--	--	--
APR											
05...	<.003	<.004	<.002	<.005	<.001	--	--	.023	<.004	<.030	E.001
18...	<.003	<.004	<.002	<.005	<.001	--	--	.016	<.004	<.003	<.006
MAY											
03...	<.003	<.004	<.002	<.005	<.001	.60	<.05	.014	<.004	<.003	<.006
03...	*<.003*	*<.004*	*<.002*	*<.005*	*<.001*	--	--	*.015*	*<.004*	*<.003*	*<.006*
17...	<.003	<.004	<.002	<.005	<.001	.70	.21	.166	<.004	<.003	<.006
JUN											
01...	<.003	<.004	<.002	<.005	<.001	.53	.06	.070	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	.64	.24	1.20	<.004	<.003	<.006
29...	<.003	<.004	<.002	<.005	<.001	.65	.21	.113	<.004	<.003	<.006
JUL											
11...	<.003	<.004	<.002	<.005	<.001	.74	.14	.075	<.004	<.003	<.006
AUG											
02...	<.003	<.004	.509	<.020	<.001	.87	.30	.492	<.004	<.003	<.006
14...	<.003	<.004	<.002	<.005	<.001	.69	.08	.037	<.004	<.003	<.006
28...	<.003	<.004	<.002	<.005	<.001	.59	.07	.024	<.004	<.003	<.006

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999											
06...	<.004	E.015	<.003	<.007	<.004	.018	E.009	<.007	<.005	<.001	<.002
NOV											
03...	<.004	E.017	<.003	<.007	<.004	.020	.012	<.007	<.005	<.001	<.002
DEC											
08...	<.004	E.015	<.003	<.007	<.004	.017	.012	<.007	<.005	<.001	<.002
14...	<.004	E.016	<.003	<.007	<.004	.017	E.010	<.007	<.005	<.001	<.002
JAN 2000											
05...	<.004	E.014	<.003	<.007	<.004	.017	.015	<.007	<.005	<.001	<.002
FEB											
03...	<.004	E.014	<.003	<.007	<.004	.018	.014	<.007	<.005	<.001	<.002
28...	<.010	E.009	<.003	<.007	<.004	.012	E.011	<.007	<.005	<.001	<.002
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<.004	E.013	<.003	<.007	<.004	.019	.010	<.007	<.005	<.001	<.002
21...	<.004	E.013	<.003	<.007	<.004	.015	.011	<.007	--	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
05...	<.004	E.015	<.003	<.007	<.004	.015	.012	<.007	--	<.001	<.002
18...	<.004	<.018	<.003	<.007	<.004	.014	.011	<.007	--	<.001	<.002
MAY											
03...	<.004	E.014	<.003	<.007	<.004	.118	.013	<.007	--	<.001	<.002
03...	*<.004*	*E.013*	*<.003*	*<.007*	*<.004*	*.122*	*.013*	*<.007*	--	*<.001*	*<.002*
17...	.017	E.015	<.003	<.007	<.004	.029	.012	<.007	<.005	<.001	<.002
JUN											
01...	.013	.026	<.003	<.007	<.004	.023	.013	<.007	<.005	<.001	<.002
14...	.054	.026	<.003	<.007	<.004	.021	<.011	<.007	<.005	<.001	.006
29...	.032	E.018	<.003	<.007	<.004	.113	E.007	<.007	<.005	<.001	<.002
JUL											
11...	<.004	.019	<.003	<.007	<.004	.038	<.010	<.007	<.005	<.001	<.002
AUG											
02...	<.004	E.016	<.003	<.007	<.004	.018	E.007	<.007	<.005	<.001	.008
14...	<.004	E.013	<.003	<.007	<.004	.023	E.009	<.007	<.005	<.001	<.002
28...	<.004	E.015	<.003	<.007	<.004	.020	E.008	<.007	<.005	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01470962 TULPEHOCKEN CREEK WATER PLANT INTAKE AT BLUE MARSH, PA

LOCATION.--Lat 40°22'08", long 76°01'24", Berks County, PA, Hydrologic Unit 02040203, on right bank of Tulpehocken Creek at water plant intake on Water Road, 0.8 miles downstream of dam at Blue Marsh Reservoir, 1.3 miles upstream of Bridge on Rebers Bridge Road, and 7 miles northwest of Reading.

DRAINAGE AREA.--178 mi^2.

PERIOD OF RECORD.--May 1999 to October 2000. Prior to water year 2000 (NJ-99-3), this site was published as 01470962 Blue Marsh Reservoir Intake.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 1999										
18...	1440	752	--	--	7.9	330	18.5	--	.31	.51
NOV										
16...	1500	--	--	--	8.2	345	5.5	--	.29	.67
DEC										
15...	0900	758	--	--	8.1	349	7.5	--	.37	.67
JAN 2000										
19...	0840	754	--	--	8.7	350	-4.5	--	.26	.52
MAR										
20...	1640	763	--	--	8.1	333	10.0	--	.34	.45
MAY										
17...	1010	761	98	9.4	8.3	328	20.0	17.0	.28	.38
JUN										
01...	1610	760	--	--	--	--	33.0	--	.30	.43
14...	1030	759	--	--	7.7	333	17.5	--	.31	.48
29...	1240	--	--	--	7.7	281	--	--	.48	.61
JUL										
11...	1230	--	--	--	7.8	307	--	--	.42	.61
AUG										
02...	1510	--	--	--	7.4	360	--	--	.42	.48
14...	1340	752	76	6.7	7.6	390	25.5	20.5	.60	.80
28...	1735	--	--	--	7.5	408	27.5	--	.74	.89
OCT										
02...	1620	--	--	--	7.9	365	24.0	18.0	.38	.54

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)
OCT 1999									
18...	.066	4.8	4.6	4.33	.038	.016	<.010	.041	--
NOV									
16...	<.020	4.5	4.1	3.84	.034	E.005	<.010	.044	--
DEC									
15...	.090	4.3	4.0	3.68	.040	.008	<.010	.057	--
JAN 2000									
19...	<.020	5.5	5.2	4.97	.033	.007	.010	.036	--
MAR									
20...	.022	5.9	5.8	5.45	.028	.009	<.010	.032	--
MAY									
17...	.058	5.1	5.0	4.72	.026	.007	<.010	--	5
JUN									
01...	.091	4.7	4.6	4.27	.045	.015	.010	--	--
14...	.077	4.9	4.8	4.45	.117	.008	<.010	.031	--
29...	.136	4.5	4.3	3.86	.076	.080	.063	.153	--
JUL									
11...	.100	5.0	4.8	4.38	.139	.057	.043	.092	--
AUG									
02...	.154	5.1	5.0	4.62	.165	.032	.022	.055	--
14...	.277	4.9	4.7	4.08	.154	.023	.017	.062	--
28...	.456	4.3	4.2	3.43	.157	.024	.016	.076	--
OCT									
02...	.130	3.9	3.8	3.38	.049	.017	E.013	.063	--

E Estimated value.
< Actual value is known to be less than the value shown.

01470962 TULPEHOCKEN CREEK WATER PLANT INTAKE AT BLUE MARSH, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 and LCAA (listed in their entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
NOV 1999											
16...	1500	--	<.002	--	--	--	<.002	.065	<.002	<.002	<.003
DEC											
15...	0900	<.05	<.002	<.05	<.05	.200	<.002	.067	<.002	<.002	<.003
JAN 2000											
19...	0840	--	<.002	--	--	--	<.002	.056	<.002	<.002	E.005
MAR											
20...	1640	<.05	<.002	<.05	<.05	.050	.005	.045	<.002	<.002	<.003
MAY											
17...	1010	--	.005	--	--	--	<.002	.044	<.002	<.002	<.003
JUN											
01...	1610	--	.040	--	--	--	.009	.445	<.002	<.002	<.003
14...	1030	--	.036	--	--	--	.009	.444	<.002	<.002	<.003
29...	1240	--	.048	--	--	--	.021	1.60	<.002	<.002	E.012
JUL											
11...	1230	--	.027	--	--	--	.015	1.20	<.002	<.002	E.008
AUG											
02...	1510	--	.014	--	--	--	.011	.761	<.002	<.002	<.003
14...	1340	--	.012	--	--	--	.008	.592	<.002	<.002	E.047
28...	1735	--	.009	--	--	--	.008	.475	<.002	<.002	<.003
OCT											
02...	1620	--	<.004	--	--	--	E.003	.333	<.010	<.002	<.041

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)
NOV 1999										
16...	<.003	<.004	<.004	<.002	E.093	<.002	<.001	<.002	<.003	<.004
DEC										
15...	<.003	<.004	<.004	<.002	E.077	<.002	<.001	<.002	<.003	<.004
JAN 2000										
19...	<.003	E.003	<.004	<.002	E.084	<.002	<.001	<.002	<.003	<.004
MAR										
20...	<.003	<.004	<.004	<.002	E.078	<.002	<.001	E.002	<.003	<.004
MAY										
17...	<.003	<.004	<.004	<.002	E.092	<.002	<.001	<.002	<.003	<.004
JUN										
01...	<.003	E.003	.029	<.002	E.11	<.002	<.001	<.002	<.003	<.004
14...	<.003	<.004	.026	<.002	E.10	<.002	<.001	<.002	<.003	<.004
29...	E.019	.012	.037	<.002	E.17	.015	<.001	<.002	<.003	<.004
JUL										
11...	<.020	.008	.024	<.002	E.25	.011	<.001	<.002	<.003	<.004
AUG										
02...	E.012	.004	.017	<.002	E.21	.005	<.001	<.002	<.003	<.004
14...	<.050	<.006	.021	<.002	E.20	.007	<.001	<.002	<.003	<.004
28...	<.003	<.004	<.020	<.002	E.18	.007	<.001	<.002	<.003	<.004
OCT										
02...	<.020	<.005	E.012	<.003	E.16	E.002	<.005	<.002	<.003	<.004

E Estimated value.
< Actual value is known to be less than the value shown.

01470962 TULPEHOCKEN CREEK WATER PLANT INTAKE AT BLUE MARSH, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
NOV 1999										
16...	<.002	<.005	<.001	--	--	.014	<.004	<.003	E.002	<.004
DEC										
15...	<.002	<.005	<.001	.76	.10	.014	<.004	<.003	<.006	<.004
JAN 2000										
19...	<.002	<.005	<.001	--	--	.012	<.004	<.003	<.006	<.004
MAR										
20...	<.002	<.005	<.001	.67	.06	.013	<.004	<.003	E.002	<.004
MAY										
17...	<.002	<.005	<.001	--	--	.018	<.004	<.003	<.006	.007
JUN										
01...	<.002	<.005	<.001	--	--	.194	<.004	<.003	<.006	.022
14...	<.002	<.005	<.001	--	--	.177	<.004	<.003	<.006	.021
29...	<.002	<.005	<.001	--	--	.520	<.004	E.003	<.006	.125
JUL										
11...	<.002	<.005	<.001	--	--	.489	<.004	<.003	<.006	.047
AUG										
02...	<.002	<.005	<.001	--	--	.268	<.004	<.003	<.006	.021
14...	<.002	<.005	<.001	--	--	.193	<.004	<.003	<.006	<.008
28...	<.002	<.005	<.001	--	--	.128	<.004	<.003	<.006	<.005
OCT										
02...	<.035	<.027	<.050	--	--	.052	<.006	<.007	<.002	<.010

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NOV 1999										
16...	E.009	<.003	<.007	<.004	.015	E.007	<.007	<.005	<.001	E.002
DEC										
15...	E.009	<.003	<.007	<.004	.015	E.006	<.007	<.005	<.001	<.002
JAN 2000										
19...	E.008	<.003	<.007	<.004	.011	E.005	<.007	<.005	<.001	<.002
MAR										
20...	E.007	<.003	<.007	<.004	.009	E.009	<.007	<.005	<.001	<.002
MAY										
17...	E.007	<.003	<.007	<.004	<.005	E.007	<.007	<.005	<.001	<.002
JUN										
01...	E.010	<.003	<.007	<.004	.025	E.006	<.007	<.005	<.001	<.002
14...	E.009	<.003	<.007	<.004	.033	<.010	<.007	<.005	<.001	E.001
29...	E.016	<.003	<.007	<.004	.110	<.010	<.007	<.005	<.001	E.002
JUL										
11...	E.013	<.003	<.007	<.004	.123	<.010	<.007	<.005	<.001	<.002
AUG										
02...	E.015	<.003	<.007	<.004	.092	E.006	<.007	<.005	<.001	<.002
14...	E.017	<.003	<.007	<.004	.068	E.007	<.007	<.005	<.001	<.002
28...	E.014	<.003	<.007	<.004	.051	E.007	<.007	<.005	<.001	<.002
OCT										
02...	E.015	<.004	<.010	<.011	.036	E.007	<.034	<.005	<.002	<.009

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, PA, Hydrologic Unit 02040203, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi^2.

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1998 to April 1999, June 1999 to August 1999, June 2000 to September 2000.

INSTRUMENTATION.--Water-temperature data logger (in situ system; measurements recorded every 15 minutes) located at gage.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.Streambed sediment samples were collected during low-flow conditions to determine concentrations of trace metals and hydrophobic organic compounds. The bed sediment sample is a composite of the top 1-2 centimeters of material from at least 5 depositional areas within the stream reach. More information regarding methods can be found in Shelton and Capel, 1994, Guidelines for collecting and processing samples of stream bed sediments for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p. Bed sediment and fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: maximum, 30.5°C, July 5, 6, 1999; minimum, -0.5°C, Dec. 25, 1998, Jan. 31, Mar. 12, 13, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
OCT 1999									
06...	1400	ENVIRONMENTAL	64	759	--	10.8	8.0	163	17.0
NOV									
03...	1410	ENVIRONMENTAL	120	750	116	12.4	7.8	152	9.0
DEC									
08...	1230	ENVIRONMENTAL	63	766	102	12.7	7.6	139	13.0
JAN 2000									
05...	1450	ENVIRONMENTAL	95	766	102	12.6	7.7	140	4.0
FEB									
03...	1320	ENVIRONMENTAL	E41	753	101	14.6	7.6	172	1.0
MAR									
08...	*1539*	*FIELD BLANK*	--	--	--	--	--	--	--
08...	1540	ENVIRONMENTAL	66	755	112	12.0	7.9	150	27.0
08...	*1541*	*CONCURRENT REPLICATE*	--	--	--	--	--	--	--
17...	0930	ENVIRONMENTAL	340	757	102	11.6	7.5	135	4.0
22...	1000	ENVIRONMENTAL	2560	767	--	--	7.0	66	9.5
APR									
05...	1310	ENVIRONMENTAL	127	754	100	11.2	7.9	132	8.5
MAY									
03...	1150	ENVIRONMENTAL	83	765	--	--	7.9	141	20.5
22...	0940	ENVIRONMENTAL	106	754	87	9.0	7.5	134	13.0
JUN									
28...	1510	ENVIRONMENTAL	56	753	108	9.2	7.8	150	25.5
AUG									
01...	1440	ENVIRONMENTAL	38	751	111	9.2	8.2	164	28.5
28...	1010	ENVIRONMENTAL	48	762	102	9.3	7.8	168	24.5
SEP									
13...	1110	ENVIRONMENTAL	181	756	97	8.6	7.8	140	21.5

E Estimated value.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT 1999											
06...	--	57	14.9	4.85	2.1	7.1	34	41	12.0	<.1	15.7
NOV											
03...	11.5	52	13.1	4.67	2.5	6.3	32	39	11.8	<.1	15.6
DEC											
08...	6.0	49	12.4	4.35	1.8	6.2	28	34	10.1	<.1	14.9
JAN 2000											
05...	6.5	52	13.7	4.37	1.5	5.9	27	33	10.4	<.1	14.7
FEB											
03...	.0	54	13.9	4.63	1.2	9.1	29	35	15.3	<.1	16.2
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	12.0	50	12.8	4.43	1.3	7.5	28	34	12.5	<.1	13.0
08...	--	--	--	--	--	--	--	--	--	--	--
17...	9.5	42	10.5	3.80	1.6	7.0	25	30	11.9	<.1	11.5
22...	5.0	19	4.74	1.83	1.9	3.3	11	13	5.4	<.1	5.0
APR											
05...	10.0	42	10.7	3.80	1.3	6.3	26	32	10.1	<.1	13.0
MAY											
03...	14.5	48	12.4	4.24	1.1	6.5	29	35	10.0	<.1	12.7
22...	13.5	48	12.2	4.22	1.2	6.1	30	37	9.3	<.1	14.7
JUN											
28...	23.0	53	13.6	4.58	1.7	6.6	38	46	10.0	.1	15.9
AUG											
01...	24.0	58	15.3	4.80	1.7	7.2	43	53	11.1	<.1	16.4
28...	20.0	61	16.4	4.95	1.5	7.0	42	52	10.6	<.1	16.5
SEP											
13...	20.5	47	12.5	3.87	2.7	6.0	33	40	9.1	.1	13.1

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
OCT 1999											
06...	17.0	<.020	.22	.32	1.3	1.12	1.4	<.010	.029	.019	.038
NOV											
03...	13.5	<.020	.28	.33	.99	.711	1.0	<.010	.018	<.010	.046
DEC											
08...	14.1	<.020	.30	.34	1.5	1.15	1.5	<.010	.022	<.010	.029
JAN 2000											
05...	14.3	<.020	.25	.32	1.6	1.34	1.7	<.010	.016	.014	.068
FEB											
03...	13.9	<.020	E.10	.10	--	2.02	2.1	<.010	E.004	.010	E.007
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	13.9	<.020	.16	.16	1.7	1.58	1.7	<.010	.013	<.010	.020
08...	--	--	--	--	--	--	--	--	--	--	--
17...	10.7	.041	.35	.58	1.4	1.06	1.6	<.010	.025	.015	.121
22...	6.6	.047	.37	.90	1.0	.663	1.6	<.010	.046	.034	.274
APR											
05...	12.5	<.020	.22	.20	1.3	1.09	1.3	<.010	.018	<.010	.033
MAY											
03...	11.6	<.020	.16	.21	1.3	1.16	1.4	<.010	.010	<.010	.020
22...	10.2	.047	.31	.39	1.4	1.05	1.4	<.010	.030	.021	.063
JUN											
28...	10.1	<.020	.25	.34	1.4	1.13	1.5	<.010	.037	.025	.063
AUG											
01...	10.7	<.020	.23	.24	1.3	1.04	1.3	<.010	.030	.018	.044
28...	11.3	<.020	.19	.18	1.4	1.21	1.4	<.010	.022	.012	.039
SEP											
13...	8.8	.023	.33	.75	1.4	1.05	1.8	.010	.064	.046	.246

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999										
06...	116	99	--	E13	80	5	5.1	<.2	.19	1
NOV										
03...	105	90	5	E13	100	4	6.4	.4	--	--
DEC										
08...	92	86	4	E10	130	11	4.9	.2	.30	1
JAN 2000										
05...	94	87	8	<16	100	13	3.7	.2	1.3	4
FEB										
03...	108	100	1	E12	40	9	1.4	<.2	.36	2
MAR										
08...	--	--	--	--	--	--	*<.33*	*<.2*	--	--
08...	112	89	2	E12	50	7	1.8	.2	.51	2
08...	--	--	--	--	--	--	*1.8*	*.2*	--	--
17...	92	77	56	E10	80	18	4.4	1.5	46	49
22...	44	38	160	<16	80	44	5.5	.9	505	71
APR										
05...	84	78	6	<16	80	9	3.0	.3	2.0	5
MAY										
03...	85	81	--	E10	60	13	2.3	.2	.33	1
22...	95	81	9	<16	190	11	4.3	.3	2.2	8
JUN										
28...	103	91	13	E12	220	8	3.9	<.2	1.1	8
AUG										
01...	112	98	6	E14	70	7	2.5	<.2	.46	4
28...	107	99	6	E12	50	7	1.9	.2	.61	4
SEP										
13...	91	81	110	E9	80	19	4.4	3.6	60	118

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES: Selected samples were anlayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)
NOV 1999										
03...	1410	<.03	<.06	<.07	<.04	<.07	E2	<.1	<.2	<.06
FEB 2000										
03...	1320	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MAR										
17...	0930	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
22...	1000	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.01
JUN										
28...	1510	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SEP										
13...	1110	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)
NOV 1999										
03...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	M	<.06	<.07
FEB 2000										
03...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06	<.07
MAR										
17...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
22...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.01	<.06	<.07
JUN										
28...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SEP										
13...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV 1999										
03...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
FEB 2000										
03...	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
MAR										
17...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
22...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
JUN										
28...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
SEP										
13...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV 1999										
03...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
FEB 2000										
03...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MAR										
17...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
22...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
JUN										
28...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SEP										
13...	<.03	<.06	<2	<.2	M	M	<.4	<2	<.4	<.06

DATE	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
NOV 1999										
03...	<.2	<.04	<.04	E.01	M	<.1	<.06	<.05	E.02	<.09
FEB 2000										
03...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	E.02	<.09
MAR										
17...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
22...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
JUN										
28...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
SEP										
13...	<.2	<.04	<.04	E.01	<.04	<.1	<.06	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
06...	1400	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
NOV								
03...	1410	ENVIRONMENTAL	<.002	<.002	.010	<.002	<.002	<.003
DEC								
08...	1230	ENVIRONMENTAL	<.002	<.002	.009	<.002	<.002	<.003
JAN 2000								
05...	1450	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
FEB								
03...	1320	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
MAR								
08...	1540	ENVIRONMENTAL	<.002	<.002	.010	<.002	<.002	<.003
17...	0930	ENVIRONMENTAL	<.002	<.002	.021	<.002	<.002	<.003
22...	1000	ENVIRONMENTAL	<.002	<.002	.011	<.002	<.002	<.003
APR								
05...	1310	ENVIRONMENTAL	<.002	E.003	.012	<.002	<.002	<.003
MAY								
03...	1150	ENVIRONMENTAL	<.002	<.002	.012	<.002	<.002	<.003
03...	*1151*	*SPLIT REPLICATE*	*<.002*	*<.002*	*.011*	*<.002*	*<.002*	*<.003*
22...	0940	ENVIRONMENTAL	.005	<.002	.234	<.002	<.002	E.003
JUN								
28...	1510	ENVIRONMENTAL	<.002	<.002	.198	<.002	<.002	<.003
AUG								
01...	1440	ENVIRONMENTAL	<.002	<.002	.024	<.002	<.002	<.003
28...	1010	ENVIRONMENTAL	<.002	<.007	.014	<.002	<.002	<.003
SEP								
13...	1110	ENVIRONMENTAL	<.002	<.002	.007	<.002	<.002	E.007

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 1999									
06...	<.003	<.004	<.004	<.002	E.021	<.002	<.001	<.002	<.003
NOV									
03...	<.003	<.004	<.004	<.002	E.028	<.002	<.001	<.002	<.003
DEC									
08...	<.003	<.004	<.004	<.002	E.020	<.002	<.001	<.002	<.003
JAN 2000									
05...	<.003	<.004	<.004	E.002	E.023	<.002	<.001	<.002	<.003
FEB									
03...	<.003	<.004	<.004	<.002	E.034	<.002	<.001	<.002	<.003
MAR									
08...	<.003	<.004	<.004	<.002	E.039	<.002	<.001	<.002	<.003
17...	<.003	<.004	<.004	<.002	E.019	<.002	<.001	<.002	<.003
22...	<.003	<.004	<.004	<.002	E.008	<.002	<.001	<.002	<.003
APR									
05...	<.013	<.004	<.004	<.002	E.024	<.002	<.001	<.002	<.003
MAY									
03...	<.003	<.004	<.004	<.002	E.031	<.002	<.001	<.002	<.003
03...	*<.003*	*<.004*	*<.004*	*<.002*	*E.032*	*<.002*	*<.001*	*<.002*	*<.003*
22...	<.003	E.003	<.004	<.002	E.044	<.002	<.001	<.002	<.003
JUN									
28...	<.003	E.002	.005	<.002	E.048	<.002	<.001	<.002	<.003
AUG									
01...	<.003	<.004	<.004	<.002	E.041	<.002	<.001	<.002	<.003
28...	<.003	<.004	<.004	<.002	E.042	<.002	<.001	<.002	<.003
SEP									
13...	<.003	<.004	<.004	<.002	E.027	.004	<.001	<.002	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT 1999									
06...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
NOV									
03...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.004
DEC									
08...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
JAN 2000									
05...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
FEB									
03...	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006	<.004
MAR									
08...	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006	<.004
17...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
22...	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006	<.004
APR									
05...	<.004	<.002	<.005	<.001	.008	<.004	<.015	<.006	<.004
MAY									
03...	<.004	<.002	<.005	<.001	.010	<.004	<.003	<.006	<.004
03...	*<.004*	*<.002*	*<.005*	*<.001*	*.009*	*<.004*	*<.003*	*<.006*	*<.004*
22...	<.004	<.002	<.005	<.001	.081	<.004	<.003	<.006	.015
JUN									
28...	<.004	<.002	<.005	<.001	.087	<.004	<.003	<.006	.010
AUG									
01...	<.004	<.002	<.005	<.001	.017	<.004	<.003	<.006	<.004
28...	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006	<.004
SEP									
13...	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006	<.010

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
06...	E.002	<.003	<.007	<.004	.024	<.010	<.007	<.001	<.002
NOV									
03...	E.004	<.003	<.007	<.004	.016	<.010	<.007	<.001	<.002
DEC									
08...	<.018	<.003	<.007	<.004	.034	<.010	<.007	<.001	<.002
JAN 2000									
05...	E.005	<.003	<.007	<.004	.022	<.010	<.007	<.001	<.002
FEB									
03...	<.018	<.003	<.007	<.004	.015	<.010	<.007	<.001	.005
MAR									
08...	<.018	<.003	<.007	<.004	.019	<.010	<.007	<.001	<.002
17...	E.005	<.003	<.007	<.004	.013	<.010	<.007	<.001	E.001
22...	<.018	<.003	<.007	<.004	.024	<.010	<.007	<.001	<.002
APR									
05...	E.002	<.003	<.007	<.004	.124	<.010	<.007	<.001	<.002
MAY									
03...	<.018	<.003	<.007	<.004	.022	<.010	<.007	<.001	<.002
03...	*<.018*	*<.003*	*<.007*	*<.004*	*.020*	*<.010*	*<.007*	*<.001*	*<.002*
22...	<.018	<.003	<.007	<.004	.186	<.010	<.007	<.001	<.002
JUN									
28...	<.018	<.003	<.007	<.004	.048	<.010	<.007	<.001	<.002
AUG									
01...	<.018	<.003	<.007	<.004	.025	<.010	<.007	<.001	<.002
28...	<.018	<.003	<.007	<.004	.016	<.010	<.007	<.001	.005
SEP									
13...	<.018	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'04", long 75°11'20", Philadelphia County, PA, Hydrologic Unit 02040203, on right bank 150 ft upstream from Fairmount Dam, 1,500 ft upstream from bridge on Spring Garden Street in Philadelphia, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--1,893 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 214, 261, 301, and 381, have been found to be unreliable and should not be used.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction. These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1998 to April 1999, July 1999 to September 1999.
WATER TEMPERATURE: September 1998 to current year.

INSTRUMENTATION.--Water-quality monitor (in situ system; measurements recorded every 15 minutes) located inside raw-water water intake of Belmont Pumping Station, Philadelphia, PA.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
OCT 1999									
06...	1130	ENVIRONMENTAL	4060	763	104	10.1	7.7	328	19.5
20...	1230	ENVIRONMENTAL	2500	763	102	10.4	7.8	360	14.5
NOV									
08...	1230	ENVIRONMENTAL	1870	766	--	--	7.7	377	14.0
18...	1110	ENVIRONMENTAL	1250	772	139	16.9	7.8	446	16.0
DEC									
01...	*1129*	*FIELD BLANK*	--	--	--	--	--	--	--
01...	1130	ENVIRONMENTAL	3050	769	99	12.3	7.7	267	4.5
15...	1400	ENVIRONMENTAL	7610	761	108	13.4	7.6	222	9.0
JAN 2000									
11...	1120	ENVIRONMENTAL	3490	752	101	12.6	7.6	374	8.5
FEB									
17...	*0959*	*FIELD BLANK*	--	--	--	--	--	--	--
17...	1000	ENVIRONMENTAL	5960	775	117	16.0	7.8	432	4.0
29...	1700	ENVIRONMENTAL	8920	763	106	12.8	7.7	275	16.0
MAR									
09...	1200	ENVIRONMENTAL	2640	751	73	8.1	7.9	336	26.0
22...	1640	ENVIRONMENTAL	38400	771	103	13.0	7.4	147	10.0
APR									
06...	1000	ENVIRONMENTAL	4230	751	106	11.4	7.8	286	16.0
18...	1420	ENVIRONMENTAL	5520	762	116	12.4	7.8	291	9.0
MAY									
02...	1350	ENVIRONMENTAL	2500	763	102	10.0	8.0	349	21.0
22...	1430	ENVIRONMENTAL	3800	755	129	12.9	7.7	257	14.5
22...	*1431*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
JUN									
07...	1240	ENVIRONMENTAL	3850	768	109	10.1	7.9	365	25.5
07...	*1241*	*SPLIT REPLICATE*	--	--	--	--	--	--	--
20...	1220	ENVIRONMENTAL	2330	767	96	8.3	7.8	336	30.0
29...	1140	ENVIRONMENTAL	3740	760	93	8.0	7.8	294	E25.0
JUL									
10...	1410	ENVIRONMENTAL	1620	--	--	--	9.0	368	--
AUG									
03...	0950	ENVIRONMENTAL	6630	762	94	7.6	7.6	320	25.0
15...	1540	ENVIRONMENTAL	2460	763	98	8.4	7.8	388	E28.3
31...	1100	ENVIRONMENTAL	1220	769	86	7.2	7.8	534	24.5

E Estimated value.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT 1999											
06...	16.5	110	28.5	9.94	3.3	17.0	64	78	--	25.5	.1
20...	14.0	130	33.6	10.5	3.5	16.7	72	88	--	30.3	.1
NOV											
08...	--	130	31.2	11.6	3.7	20.0	70	85	--	27.4	<.1
18...	7.5	150	37.5	13.6	4.1	25.9	--	--	--	34.7	.1
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	6.5	91	23.0	8.24	2.5	12.4	53	65	--	18.9	<.1
15...	6.0	73	18.4	6.57	2.7	11.8	46	56	--	16.5	<.1
JAN 2000											
11...	5.5	130	32.6	12.2	3.1	23.3	77	93	--	32.8	<.1
FEB											
17...	--	--	*E.01*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*
17...	3.0	130	31.7	11.8	3.3	34.4	62	75	--	65.9	.1
29...	7.5	87	22.6	7.35	2.2	14.8	49	60	--	26.8	<.1
MAR											
09...	10.5	110	27.8	9.80	3.0	17.5	--	--	--	30.1	<.1
22...	6.0	43	11.3	3.70	2.2	7.8	32	39	--	11.4	<.1
APR											
06...	11.5	97	24.6	8.59	2.3	14.4	58	71	--	22.9	<.1
18...	12.5	93	23.7	8.20	3.5	14.8	59	72	--	26.7	<.1
MAY											
02...	16.5	120	30.2	10.9	2.9	17.8	69	84	--	29.1	<.1
22...	15.0	89	22.6	7.96	2.4	13.1	53	65	--	19.7	<.1
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	19.5	120	29.9	11.4	2.7	19.4	67	82	--	28.5	.1
07...	--	--	--	--	--	--	--	--	--	--	--
20...	23.0	110	27.4	10.3	2.9	18.3	--	--	--	27.1	.1
29...	23.0	110	28.4	9.01	2.7	11.5	72	88	--	18.4	.1
JUL											
10...	--	120	28.5	11.5	3.4	18.9	66	65	8	28.5	<.1
AUG											
03...	26.0	110	25.5	10.4	3.1	15.3	52	63	--	20.6	<.1
15...	23.0	130	31.2	12.1	4.1	21.3	62	75	--	31.5	.1
31...	25.0	180	43.6	17.0	4.3	30.4	86	104	--	45.1	.2

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
OCT 1999											
06...	7.9	38.9	.079	.35	.53	3.6	3.29	3.8	.035	.117	.099
20...	7.9	42.8	.040	.27	.37	3.5	3.22	3.6	.025	.148	.123
NOV											
08...	8.3	53.1	.076	.31	.53	3.1	2.82	3.3	.027	.156	.113
18...	4.6	23.0	.125	.52	.57	3.7	3.14	3.7	.035	.205	.181
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	8.1	34.2	.119	.41	.49	3.0	2.56	3.1	.027	.112	.093
15...	7.6	24.2	.088	.49	1.1	2.3	1.79	2.9	.023	.134	.116
JAN 2000											
11...	8.2	46.2	.196	.40	.65	3.8	3.38	4.0	.099	.174	.153
FEB											
17...	*<.1*	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*
17...	7.8	47.8	.339	.71	.76	3.5	2.80	3.6	.056	.118	.101
29...	7.6	27.8	.154	.45	.92	3.2	2.78	3.7	.043	.071	.049
MAR											
09...	6.8	40.1	.143	.48	.53	3.4	2.97	3.5	.058	.119	.090
22...	5.4	11.8	.163	.53	1.7	1.8	1.25	3.0	.013	.077	.055
APR											
06...	8.4	33.1	.140	.35	1.0	3.0	2.65	3.7	.046	.093	.076
18...	6.2	29.6	.165	.42	.61	2.5	2.11	2.7	.044	.106	.087
MAY											
02...	7.0	41.4	.094	.39	.38	3.1	2.72	3.1	.053	.128	.105
22...	7.9	27.9	.133	.46	.63	2.2	1.77	2.4	.055	.127	.107
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	6.8	47.4	.120	.35	.44	3.0	2.61	3.0	.033	.199	.165
07...	--	--	--	--	--	--	--	--	--	--	--
20...	8.2	38.5	.080	.37	.46	3.0	2.62	3.1	.047	.163	.136
29...	6.5	27.2	.098	.35	.60	3.6	3.24	3.8	.055	.108	.087
JUL											
10...	5.5	51.2	<.020	.24	.84	2.7	2.42	3.3	.030	.138	.107
AUG											
03...	7.1	53.0	.096	.39	.69	2.5	2.06	2.8	.030	.152	.122
15...	8.3	53.3	.124	.37	.46	2.9	2.51	3.0	.029	.217	.191
31...	6.1	87.2	.141	.41	.52	3.5	3.05	3.6	.039	.299	.261

E Estimated value.
< Actual value is known to be less than the value shown.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 1999											
06...	.157	196	185	17	43	10	20	3.4	.3	150	14
20...	.164	207	204	7	43	10	31	2.7	.2	43	6
NOV											
08...	.173	227	210	--	43	20	23	3.5	.2	9.1	2
18...	.227	260	--	2	70	50	36	3.0	.4	8.1	2
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	.138	162	151	7	29	30	38	3.3	.3	54	6
15...	.342	132	124	310	30	50	39	4.6	2.9	2310	112
JAN 2000											
11...	.198	229	220	4	64	40	59	2.8	.2	46	5
FEB											
17...	*<.008*	*<10*	--	--	*<16*	*<10*	*<2*	--	--	--	*M*
17...	.179	259	253	14	40	30	84	3.2	.3	229	14
29...	.198	163	151	54	27	30	110	2.9	1.2	1190	49
MAR											
09...	.152	198	187	6	37	30	98	2.1	.4	41	6
22...	.587	87	79	360	16	70	141	4.5	>4.0	43100	415
APR											
06...	.117	164	161	15	29	30	43	2.6	.2	107	9
18...	.161	169	158	35	33	30	20	3.3	.8	279	19
MAY											
02...	.175	200	193	6	37	30	22	2.3	<.2	74	11
22...	.172	153	142	32	31	50	21	4.6	.6	186	18
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	.218	206	199	10	43	20	36	2.3	.4	63	6
07...	--	--	--	--	--	--	--	--	--	--	--
20...	.196	198	187	15	37	10	14	3.0	.3	61	10
29...	.143	173	162	16	32	10	8	2.8	.4	138	14
JUL											
10...	--	220	199	--	44	<10	E2	2.6	1.4	35	8
AUG											
03...	.252	192	176	44	41	10	24	2.7	.7	827	46
15...	.235	229	211	12	67	20	61	3.0	.3	43	6
31...	.328	314	300	8	85	20	63	2.8	.7	40	12

E Estimated value.
< Actual value is known to be less than the value shown.
> Actual value is known to be greater than the value shown.
M Presence of material verified but not quantified.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule 2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRIMETHYL UNFILT RECOVER (UG/L) (77222)
OCT 1999										
06...	1130	<.03	<.06	<.07	<.04	<.07	E3	<.1	<.2	<.06
20...	1230	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.02
NOV										
08...	1230	E.01	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.06
18...	1110	E.01	<.06	<.07	<.04	<.07	E3	M	<.2	E.05
DEC										
01...	*1130*	*<.03*	*<.06*	*<.07*	*<.04*	*<.07*	*<7*	*<.1*	*<.2*	*<.06*
15...	1400	E.01	<.06	<.07	<.04	<.07	E3	<.1	<.2	<.06
JAN 2000										
11...	1120	E.01	<.06	<.07	<.04	<.07	E2	<.1	<.2	<.06
FEB										
17...	1000	E.01	<.06	<.07	<.04	<.07	E2	<.1	<.2	E.02
29...	1700	E.01	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.01
MAR										
09...	1200	E.01	<.06	<.07	<.04	<.07	E2	M	<.2	.11
22...	1640	E.01	<.06	<.07	<.04	<.07	E3	<.1	<.2	E.02
APR										
06...	1000	<.03	<.06	<.07	<.04	<.07	<7	M	<.2	.13
18...	1420	<.03	<.06	<.07	<.04	<.07	E3	<.1	<.2	<.06
MAY										
02...	1350	E.01	<.06	<.07	<.04	<.07	E1	E.1	<.2	.21
JUN										
07...	1240	M	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.03
20...	1220	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
JUL										
10...	1410	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
AUG										
15...	1540	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	E.04

DATE	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)
OCT 1999										
06...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
20...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.03	<.06	<.07
NOV										
08...	E.02	<.05	<.05	<.03	<.2	E.01	<.05	E.06	<.06	<.07
18...	E.02	<.05	E.01	<.03	<.2	E.01	<.05	E.04	<.06	<.07
DEC										
01...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.03	<.06	<.07
15...	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.02	<.06	<.07
JAN 2000										
11...	<.04	<.05	E.02	<.03	<.2	<.04	<.05	E.04	<.06	<.07
FEB										
17...	<.04	<.05	E.02	<.03	<.2	<.04	<.05	E.04	<.06	<.07
29...	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.02	<.06	<.07
MAR										
09...	E.03	<.05	E.01	<.03	<.2	E.01	<.05	E.07	<.06	<.07
22...	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.01	<.06	E.03
APR										
06...	E.05	<.05	<.05	<.03	M	E.02	<.05	E.09	<.06	<.07
18...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06	<.07
MAY										
02...	E.07	<.05	<.05	E.01	<.2	E.02	<.05	E.08	<.06	<.07
JUN										
07...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.03	<.06	<.07
20...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.03	<.06	<.07
JUL										
10...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	E.02	E.06	<.07
AUG										
15...	E.02	<.05	<.05	<.03	<.2	<.04	<.05	E.02	<.06	<.07

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
OCT 1999										
06...	<.06	<.03	<.2	<.1	E.10	E.02	<.05	<.2	<.05	<.1
20...	<.06	<.03	<.2	<.1	.12	<.04	E.06	<.2	<.05	<.1
NOV										
08...	<.06	<.03	<.2	<.1	.14	E.02	E.05	<.2	<.05	<.1
18...	<.06	<.03	<.2	<.1	.14	E.01	E.06	M	<.05	<.1
DEC										
01...	<.06	<.03	<.2	<.1	E.09	E.01	<.05	<.2	<.05	<.1
15...	<.06	<.03	<.2	<.1	E.05	E.02	E.01	<.2	<.05	M
JAN 2000										
11...	<.06	<.03	<.2	<.1	.13	E.03	E.05	<.2	<.05	<.1
FEB										
17...	<.06	<.03	<.2	<.1	E.08	E.02	E.03	<.2	<.05	<.1
29...	<.06	<.03	<.2	<.1	E.05	E.02	E.01	<.2	<.05	<.1
MAR										
09...	<.06	<.03	<.2	<.1	.11	E.02	E.03	<.2	<.05	M
22...	<.06	<.03	<.2	<.1	E.03	E.01	<.05	<.2	<.05	<.1
APR										
06...	<.06	<.03	<.2	<.1	E.06	<.04	<.05	<.2	<.05	<.1
18...	<.06	<.03	<.2	<.1	.11	<.04	<.05	<.2	<.05	<.1
MAY										
02...	<.06	<.03	<.2	<.1	.14	E.02	E.06	<.2	<.05	M
JUN										
07...	<.06	<.03	<.2	<.1	.11	<.04	E.04	<.2	<.05	M
20...	<.06	<.03	<.2	<.1	.15	<.04	E.05	<.2	<.05	<.1
JUL										
10...	<.06	<.03	<.2	<.1	.11	<.04	E.05	<.2	<.05	E.1
AUG										
15...	<.06	<.03	<.2	<.1	E.09	<.04	E.03	<.2	<.05	M

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
OCT 1999										
06...	<.03	<.06	<2	<.2	E.2	<.5	<.4	<2	<.4	<.06
20...	<.03	<.06	<2	<.2	.6	<.5	<.4	<2	<.4	E.05
NOV										
08...	E.02	<.06	<2	<.2	.5	<.5	<.4	<2	<.4	E.10
18...	E.02	<.06	<2	<.2	.6	E.1	M	<2	E.1	E.11
DEC										
01...	<.03	<.06	<2	<.2	E.2	<.5	<.4	<2	<.4	<.06
15...	E.01	<.06	<2	<.2	.3	<.5	M	<2	E.1	E.02
JAN 2000										
11...	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	<.4	E.02
FEB										
17...	E.01	<.06	<2	<.2	.5	<.5	E.1	<2	1.1	E.03
29...	<.03	<.06	<2	<.2	E.1	<.5	M	<2	<.4	<.06
MAR										
09...	E.05	<.06	<2	<.2	.9	<.5	M	E1	<.4	.22
22...	<.03	<.06	<2	<.2	.2	<.5	<.4	M	E.1	<.06
APR										
06...	E.07	<.06	<2	M	1.1	<.5	<.4	<2	<.4	.37
18...	<.03	<.06	<2	<.2	.5	<.5	<.4	<2	<.4	<.06
MAY										
02...	E.07	<.06	<2	M	1.4	<.5	M	<2	<.4	.40
JUN										
07...	E.01	<.06	<2	<.2	.6	<.5	<.4	<2	<.4	E.07
20...	<.03	<.06	<2	<.2	1.2	<.5	<.4	<2	<.4	E.05
JUL										
10...	<.03	<.06	<2	<.2	1.9	<.5	<.4	<2	<.4	E.03
AUG										
15...	E.01	<.06	<2	<.2	1.1	<.5	<.4	<2	<.4	E.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT 1999										
06...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
20...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.07	E.02	<.09
NOV										
08...	<.2	<.04	E.04	<.07	<.04	M	E.02	.12	E.03	<.09
18...	<.2	<.04	E.05	<.07	<.04	M	E.01	.15	E.03	<.09
DEC										
01...	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.02	<.09
15...	<.2	<.04	E.01	<.07	M	M	<.06	E.08	E.03	<.09
JAN 2000										
11...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.07	E.04	<.09
FEB										
17...	<.2	<.04	<.04	<.07	<.04	M	<.06	.12	E.05	<.09
29...	<.2	<.04	<.04	<.07	<.04	M	<.06	.11	E.07	<.09
MAR										
09...	<.2	<.04	E.09	<.07	E.01	M	E.02	.34	E.04	<.09
22...	<.2	<.04	<.04	E.01	<.04	M	<.06	.97	E.09	<.09
APR										
06...	<.2	<.04	.14	<.07	<.04	M	E.03	.49	E.02	<.09
18...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.08	E.03	<.09
MAY										
02...	<.2	<.04	.16	<.07	E.01	M	E.03	.36	E.03	<.09
JUN										
07...	<.2	<.04	E.03	<.07	<.04	M	<.06	E.08	E.02	<.09
20...	<.2	<.04	<.04	<.07	<.04	M	<.06	E.08	E.02	<.09
JUL										
10...	<.2	<.04	E.01	<.07	<.04	M	<.06	<.05	E.01	<.09
AUG										
15...	<.2	<.04	E.04	<.07	<.04	M	<.06	<.05	E.02	<.09

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 and LCAA (listed in their entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61029)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACETO-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61030)	ALA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (UG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
OCT 1999									
06...	1130	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.070	<.002	.036
NOV									
08...	1230	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.180	<.002	.032
DEC									
01...	*1129*	*FIELD BLANK*	*<.05*	--	*<.05*	*<.05*	*<.050*	--	--
01...	1130	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.100	<.002	.024
15...	1400	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.160	E.004	.025
JAN 2000									
11...	1120	ENVIRONMENTAL	<.05	<.002	<.05	<.05	<.050	<.002	.027
FEB									
17...	*0959*	*FIELD BLANK*	*<.05*	*<.002*	*<.05*	*<.05*	*<.050*	*<.002*	*<.001*
17...	1000	ENVIRONMENTAL	<.05	<.002	<.05	<.05	<.050	<.002	.021
29...	1700	ENVIRONMENTAL	<.05	<.002	<.05	<.05	<.050	<.002	.024
MAR									
09...	1200	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.230	<.002	.023
22...	1640	ENVIRONMENTAL	<.05	--	<.05	<.05	<.050	--	--
APR									
06...	1000	ENVIRONMENTAL	--	<.002	--	--	--	.007	.025
18...	1420	ENVIRONMENTAL	--	<.002	--	--	--	.008	.036
MAY									
02...	1350	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.050	<.002	.024
22...	1430	ENVIRONMENTAL	<.05	.085	<.05	<.05	<.050	.046	1.71
22...	*1431*	*SPLIT REPLICATE*	--	*.086*	--	--	--	*.047*	*1.73*
JUN									
07...	1240	ENVIRONMENTAL	<.05	.009	<.05	<.05	.050	.005	.225
20...	1220	ENVIRONMENTAL	<.05	.017	<.05	<.05	<.050	.008	.254
29...	1140	ENVIRONMENTAL	.28	.025	.05	<.05	.220	.011	.603
JUL									
10...	1410	ENVIRONMENTAL	.06	<.002	<.05	<.05	.070	<.002	.287
AUG									
03...	0950	ENVIRONMENTAL	<.05	<.004	<.05	<.05	.100	.008	.196
15...	1540	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.050	.005	.073
31...	1100	ENVIRONMENTAL	<.05	<.002	<.05	<.05	.060	<.002	.075

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
OCT 1999											
06...	<.002	<.002	E.009	<.003	<.004	<.004	<.002	E.043	.007	<.001	<.002
NOV											
08...	<.002	<.002	E.007	<.003	<.004	<.004	<.002	E.033	<.004	<.001	<.002
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.033	<.002	<.001	<.002
15...	<.002	<.002	E.004	<.003	<.004	<.007	E.002	E.024	.009	<.001	<.002
JAN 2000											
11...	<.002	<.002	E.026	<.003	E.005	<.004	<.002	E.042	E.003	<.001	<.002
FEB											
17...	*<.002*	*<.002*	*<.003*	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*
17...	<.002	<.002	E.049	<.003	<.004	<.004	<.002	E.030	<.005	<.001	<.002
29...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.040	<.002	<.001	<.002
MAR											
09...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.036	<.002	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	<.002	<.002	E.005	<.003	E.003	<.004	<.002	E.041	.010	<.001	<.002
18...	<.005	<.002	E.016	<.003	<.004	<.004	<.002	E.034	.024	<.001	<.002
MAY											
02...	<.002	<.002	E.007	<.003	<.004	<.004	<.002	E.048	.004	<.001	<.002
22...	<.002	<.002	E.023	<.003	.004	<.004	E.001	E.099	.023	<.001	<.002
22...	*<.002*	*<.002*	*E.022*	*<.003*	*.005*	*<.004*	*E.001*	*E.087*	*.023*	*<.001*	*<.002*
JUN											
07...	<.002	<.002	E.014	<.003	<.004	.010	<.002	E.066	.010	<.001	<.002
20...	<.002	<.002	E.010	<.003	<.004	.014	<.002	E.069	.035	<.001	<.002
29...	<.002	<.002	E.007	E.025	E.004	.018	<.002	E.091	.013	<.001	<.002
JUL											
10...	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.11	.005	<.001	<.002
AUG											
03...	<.002	<.002	E.016	<.030	E.003	.009	<.002	E.067	.088	<.001	<.002
15...	<.002	<.002	E.62	<.003	<.004	<.020	<.002	E.042	.030	<.001	<.002
31...	<.002	<.002	E.008	<.040	E.002	.006	<.002	E.049	.012	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 UM GF REC (UG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 UM GF REC (UG/L) (61044)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT 1999											
06...	<.003	<.004	<.002	<.005	<.001	.65	.16	.035	<.004	<.003	<.006
NOV											
08...	<.003	<.004	<.002	<.005	<.001	.61	.14	.030	<.004	<.003	<.006
DEC											
01...	--	--	--	--	--	*<.05*	*<.05*	--	--	--	--
01...	<.003	<.004	<.002	<.005	<.001	.51	.09	.020	<.004	<.003	<.006
15...	<.003	<.004	<.002	<.005	<.001	.97	.37	.046	<.004	.014	<.006
JAN 2000											
11...	<.003	<.004	<.002	<.005	<.001	.38	.06	.020	<.010	<.003	<.006
FEB											
17...	*<.003*	*<.004*	*<.002*	*<.005*	*<.001*	*<.05*	*<.05*	*<.002*	*<.004*	*<.003*	*E.001*
17...	<.003	<.004	<.002	.021	<.001	.45	.07	.016	<.004	<.003	<.006
29...	<.003	<.004	<.002	<.005	<.001	.51	.24	.025	<.004	<.003	<.006
MAR											
09...	<.003	<.004	<.002	<.005	<.001	.37	<.05	.016	<.004	<.003	<.006
22...	--	--	--	--	--	.20	.06	--	--	--	--
APR											
06...	<.003	<.004	<.002	<.005	<.001	--	--	.027	<.004	<.003	<.006
18...	<.003	<.004	<.002	<.005	<.001	--	--	.029	<.004	<.003	<.006
MAY											
02...	<.003	<.004	<.002	<.005	<.001	.44	<.05	.016	<.004	<.003	<.006
22...	<.003	<.004	<.002	<.005	<.001	.35	.05	.689	.008	<.003	<.006
22...	*<.003*	*<.004*	*<.002*	*<.005*	*<.001*	--	--	*.690*	*.009*	*<.003*	*<.006*
JUN											
07...	<.003	<.004	<.002	<.005	<.001	.49	.11	.082	<.004	<.003	<.006
20...	<.003	<.004	<.002	<.005	<.010	.41	.05	.088	<.004	<.003	<.006
29...	<.003	<.004	<.002	<.005	<.001	.53	.22	.216	<.004	<.003	<.006
JUL											
10...	<.003	<.004	<.002	<.005	<.001	.47	.10	.094	<.004	<.003	<.006
AUG											
03...	<.003	<.004	<.002	<.005	<.001	.39	.12	.100	<.004	<.003	<.006
15...	<.003	<.004	<.002	<.005	<.001	.52	.08	.033	<.004	<.003	<.006
31...	<.003	<.004	<.002	<.005	<.001	.36	.07	.019	<.004	<.003	<.006

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999											
06...	<.004	E.015	<.003	<.007	<.004	.042	<.010	<.007	<.005	<.001	<.002
NOV											
08...	<.004	E.012	<.003	<.007	<.004	.015	E.006	<.007	<.005	<.001	<.002
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.004	E.012	<.003	<.007	<.004	.020	<.010	<.007	<.005	<.001	<.002
15...	E.001	E.012	<.003	<.007	<.004	.013	E.003	<.007	<.005	<.001	<.002
JAN 2000											
11...	<.004	E.012	<.003	<.007	<.004	.013	<.010	<.007	<.005	<.001	<.002
FEB											
17...	*<.004*	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.005*	*<.001*	*<.002*
17...	<.004	E.015	<.003	<.007	<.004	.010	<.010	<.007	<.005	<.001	<.002
29...	<.004	E.010	<.003	<.007	<.004	.014	<.010	<.007	<.005	<.001	<.002
MAR											
09...	<.004	E.009	<.003	<.007	<.004	.012	<.010	<.007	<.005	<.001	<.002
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	<.004	E.015	<.003	<.007	<.004	.030	.013	<.007	--	<.001	<.002
18...	<.030	<.018	<.003	<.007	<.004	.039	.012	<.007	--	<.001	<.005
MAY											
02...	<.006	E.013	<.003	<.007	<.004	.017	E.010	<.007	--	<.001	<.002
22...	.033	.034	<.003	<.007	<.004	.068	.014	<.007	--	<.001	<.002
22...	*.034*	*.030*	*<.003*	*<.007*	*<.004*	*.067*	*.013*	*<.007*	--	*<.001*	*<.002*
JUN											
07...	.007	.019	<.003	<.007	<.004	.046	E.008	<.007	E.003	<.001	E.002
20...	.016	.025	<.003	<.007	<.004	.031	.012	<.007	E.005	<.001	E.004
29...	.016	.026	<.003	<.007	<.004	.043	E.006	<.007	--	<.001	<.002
JUL											
10...	<.004	E.016	<.003	<.007	<.004	.040	<.010	<.007	--	<.001	<.002
AUG											
03...	<.009	.030	<.003	<.007	<.004	.039	E.009	<.007	--	<.001	<.002
15...	<.004	.027	<.003	<.007	<.004	.030	E.009	<.007	--	<.001	<.002
31...	<.004	.027	<.003	<.007	<.004	.022	E.006	<.007	E.012	<.001	<.002

E Estimated value.
< Actual value is known to be less than the value shown.

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	7.5	5.5	6.5	3.5	3.0	3.5
2	19.0	18.0	18.5	---	---	---	5.5	5.0	5.0	5.0	3.5	4.0
3	19.0	18.0	18.0	---	---	---	5.5	4.5	5.0	5.5	5.0	5.0
4	18.5	18.0	18.5	---	---	---	6.5	5.0	5.5	7.5	5.5	6.5
5	18.0	17.0	17.5	---	---	---	7.5	6.0	6.5	8.0	7.0	7.5
6	22.5	14.0	18.5	---	---	---	8.0	7.0	7.5	7.5	6.5	7.0
7	24.0	22.5	23.0	---	---	---	9.0	8.0	8.5	---	---	---
8	23.5	22.0	22.5	---	---	---	9.0	8.0	8.5	6.0	5.0	5.5
9	23.5	22.5	23.0	10.5	9.5	10.0	8.5	8.0	8.0	5.5	5.0	5.0
10	23.5	23.5	23.5	11.0	10.0	10.5	8.0	7.5	7.5	5.5	5.0	5.5
11	24.5	23.0	23.5	11.5	10.5	11.0	7.5	6.0	7.0	6.0	5.5	5.5
12	24.5	23.0	23.5	11.0	10.5	10.5	6.5	5.5	6.0	6.0	5.5	5.5
13	23.5	23.0	23.0	11.5	10.5	11.0	6.0	5.5	6.0	5.5	4.5	5.5
14	24.0	23.0	23.5	11.5	10.5	11.0	6.0	5.5	6.0	4.5	3.0	4.0
15	24.0	22.5	23.0	11.0	10.0	10.5	6.0	5.5	6.0	3.0	2.5	3.0
16	24.0	23.0	23.5	10.0	8.5	9.5	7.0	6.0	7.0	3.0	2.0	2.5
17	24.0	22.5	23.5	8.5	7.5	8.0	7.0	6.5	6.5	2.5	.5	1.5
18	24.0	23.0	23.5	8.0	7.0	7.5	6.5	6.0	6.0	.5	.0	.5
19	23.0	22.5	23.0	8.0	7.0	7.5	6.0	5.5	6.0	1.0	.0	.5
20	23.0	22.0	22.5	8.5	7.5	8.0	6.0	5.5	5.5	.5	.0	.5
21	---	---	---	9.5	8.5	8.5	6.0	5.5	6.0	.0	.0	.0
22	---	---	---	10.0	9.0	9.5	6.0	5.5	5.5	.5	.0	.5
23	---	---	---	10.5	10.0	10.5	5.5	4.5	5.0	.0	.0	.0
24	---	---	---	12.0	10.5	11.5	4.5	3.5	4.0	.5	.0	.5
25	---	---	---	12.0	11.5	12.0	3.5	2.5	3.0	.5	.0	.5
26	---	---	---	13.5	12.0	12.5	2.5	1.5	2.0	.0	.0	.0
27	---	---	---	13.5	12.5	13.5	2.0	1.5	1.5	.5	.0	.0
28	---	---	---	12.5	11.0	12.0	1.5	1.0	1.5	.0	.0	.0
29	---	---	---	11.0	9.5	10.5	2.5	1.5	1.5	.5	.0	.5
30	---	---	---	9.5	7.5	8.5	3.0	1.5	2.0	.0	.0	.0
31	---	---	---	---	---	---	3.0	2.5	3.0	.5	.0	.5
MONTH	---	---	---	---	---	---	9.0	1.0	5.5	8.0	.0	2.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	---	---	---	---	---	---	16.0	14.5	15.0
2	.5	.0	.5	---	---	---	---	---	---	17.0	15.5	16.5
3	.5	.0	.5	---	---	---	---	---	---	18.0	16.0	17.0
4	.5	.0	.5	---	---	---	---	---	---	19.0	17.0	18.0
5	.5	.5	.5	---	---	---	---	---	---	20.0	18.0	19.0
6	.5	.5	.5	---	---	---	---	---	---	21.5	19.5	20.5
7	1.0	.5	.5	---	---	---	12.5	11.5	12.0	24.0	21.0	22.5
8	1.5	1.0	1.0	---	---	---	14.5	12.0	13.0	25.0	22.5	23.5
9	2.0	1.5	1.5	---	---	---	13.5	12.0	12.5	25.5	23.5	24.5
10	2.5	1.5	2.0	---	---	---	12.0	11.0	11.5	25.0	24.5	25.0
11	3.0	2.5	2.5	---	---	---	11.5	10.5	11.0	24.5	22.5	23.5
12	3.0	2.5	2.5	---	---	---	12.0	10.5	11.0	23.5	22.0	22.5
13	3.0	2.5	2.5	---	---	---	12.0	10.5	11.0	23.0	22.0	22.5
14	3.0	2.0	2.5	---	---	---	12.0	11.0	11.5	23.0	21.5	22.0
15	3.5	2.0	3.0	---	---	---	12.5	11.5	12.0	22.0	20.5	21.5
16	3.0	2.0	2.5	---	---	---	14.0	12.5	13.0	21.0	20.0	20.5
17	---	---	---	---	---	---	14.0	13.5	14.0	20.5	19.5	20.0
18	---	---	---	---	---	---	13.5	11.5	12.5	21.5	19.5	20.5
19	---	---	---	---	---	---	11.5	11.0	11.5	21.0	19.5	20.5
20	---	---	---	---	---	---	13.5	11.0	12.5	19.5	17.5	18.5
21	---	---	---	---	---	---	13.5	13.0	13.0	17.5	15.5	16.0
22	---	---	---	---	---	---	13.5	12.0	12.5	15.5	15.0	15.0
23	---	---	---	---	---	---	12.0	11.5	12.0	16.0	15.0	15.5
24	---	---	---	---	---	---	13.5	11.5	12.5	17.0	15.5	16.5
25	---	---	---	---	---	---	13.5	12.5	13.0	18.0	17.0	17.5
26	---	---	---	---	---	---	14.0	12.5	13.0	18.5	17.0	18.0
27	---	---	---	---	---	---	13.0	12.5	13.0	18.0	17.5	18.0
28	---	---	---	---	---	---	13.5	12.5	13.0	17.5	17.0	17.5
29	---	---	---	---	---	---	14.0	12.5	13.5	17.5	16.5	17.0
30	---	---	---	---	---	---	15.5	13.5	14.5	17.0	16.5	17.0
31	---	---	---	---	---	---	---	---	---	18.0	16.5	17.0
MONTH	---	---	---	---	---	---	15.5	10.5	12.5	25.5	14.5	19.5

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION.--Lat 39°44'26", long 75°15'34", Gloucester County, Hydrologic Unit 02040202, on right bank 25 ft downstream from County Bridge Route 607 on Gibbstown-Harrisonville Road (Tomlin Station Road), 1.8 mi west of Mullica Hill, and 2.8 mi east of Swedesboro.

DRAINAGE AREA.--26.9 mi^2.

PERIOD OF RECORD.--Water years 1965 to current year.

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE refer to Quality-Control Data in the Introduction. Fish community data for this site and other sites are presented in the section Water-Quality at Miscellaneous Sites.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: June 1966 to September 1969.
WATER TEMPERATURE: May 1966 to September 1973; October 1998 to current year.

INSTRUMENTATION.--
WATER TEMPERATURE: Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

COOPERATION.--Field measurements and samples for laboratory analysis on Nov. 30, at 0800, Feb. 1 at 0845, May 3, and Aug. 23 were provided by the New Jersey Department of Environmental Protection. Determinations of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. Coli, and enterococci bacteria on those dates were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. Other field data and samples for laboratory analysis were provided by the Delaware River Basin National Water-Quality Assessment Program (NAWQA).

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
OCT 1999								
04...	1120	ENVIRONMENTAL	23	763	92	8.7	7.2	227
NOV								
04...	1120	ENVIRONMENTAL	31	768	93	10.6	7.1	204
30...	0800	ENVIRONMENTAL	30	774	86	11.1	7.2	219
30...	0950	ENVIRONMENTAL	30	774	87	11.0	7.2	210
JAN 2000								
03...	*1219*	*FIELD BLANK*	--	--	--	--	--	--
03...	1220	ENVIRONMENTAL	28	765	88	10.2	7.3	220
03...	*1221*	*SPLIT REPLICATE*	--	--	--	--	--	--
FEB								
01...	0845	ENVIRONMENTAL	42	761	90	13.2	7.1	360
01...	1020	ENVIRONMENTAL	41	759	93	13.3	7.0	354
MAR								
07...	0910	ENVIRONMENTAL	23	769	66	8.0	7.2	212
APR								
03...	*1009*	*FIELD BLANK*	--	--	--	--	--	--
03...	1010	ENVIRONMENTAL	44	759	--	--	7.0	206
03...	*1011*	*SPLIT REPLICATE*	--	--	--	--	--	--
MAY								
03...	1030	ENVIRONMENTAL	33	771	82	9.1	7.2	202
04...	0950	ENVIRONMENTAL	31	770	88	9.0	7.3	209
22...	0950	ENVIRONMENTAL	33	764	85	8.7	7.0	203
JUN								
26...	1020	ENVIRONMENTAL	17	764	--	--	7.1	208
JUL								
31...	0940	ENVIRONMENTAL	28	768	88	7.7	7.2	175
AUG								
23...	0930	ENVIRONMENTAL	15	768	88	8.2	7.4	228
30...	1020	ENVIRONMENTAL	17	768	85	7.7	7.2	235

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT 1999										
04...	18.0	18.0	--	--	67	20.2	4.14	4.4	12.5	--
NOV										
04...	11.0	9.5	--	--	62	17.5	4.41	4.7	9.5	--
30...	--	5.0	.128	.100	65	19.1	4.09	3.8	10.5	31
30...	3.0	6.0	--	--	66	19.8	3.94	4.4	10.4	--
JAN 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	19.0	9.0	--	--	69	21.1	3.91	3.6	10.4	--
03...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	--	.0	.104	.080	65	19.4	4.13	3.8	37.4	26
01...	1.0	.5	--	--	66	19.7	4.18	3.8	35.9	--
MAR										
07...	12.5	7.0	--	--	66	19.5	4.15	3.4	10.0	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
03...	18.0	--	--	--	56	16.5	3.72	3.3	9.3	--
03...	--	--	--	--	*57*	*16.5*	*3.72*	*3.0*	*9.2*	--
MAY										
03...	--	11.0	.128	.100	64	19.4	3.81	3.1	9.8	29
04...	19.0	15.0	--	--	60	17.6	3.87	3.4	10.6	--
22...	16.0	14.5	--	--	64	19.1	3.99	3.3	9.9	32
JUN										
26...	22.0	23.5	--	--	64	19.2	4.03	3.9	10.5	--
JUL										
31...	25.5	22.5	--	--	55	16.6	3.22	4.1	9.9	--
AUG										
23...	--	19.0	.101	.081	69	21.0	4.10	4.0	12.3	46
30...	25.0	20.5	--	--	71	21.6	4.13	4.0	12.8	--

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT 1999										
04...	37	45	21.6	.1	11.0	33.7	.42	.71	--	.201
NOV										
04...	28	35	19.8	.1	9.6	28.5	.26	.38	--	.026
30...	--	--	21.4	.2	10.7	26.8	.35	.46	.06	.040
30...	31	38	19.0	.2	10.7	29.2	.23	.38	--	.079
JAN 2000										
03...	--	--	--	--	--	--	--	--	--	--
03...	28	34	19.8	.1	10.6	29.9	.34	.51	--	.185
03...	--	--	--	--	--	--	--	--	--	--
FEB										
01...	--	--	65.9	.2	10.5	28.7	.56	.56	.26	.260
01...	22	27	64.1	.2	9.6	28.8	.46	.73	--	.307
MAR										
07...	27	33	18.9	.1	8.8	27.7	.39	.44	--	.199
APR										
03...	--	--	--	--	--	--	*<.10*	*.39*	--	*<.020*
03...	--	--	17.5	.2	8.2	26.1	.38	.55	--	.164
03...	--	--	*17.3*	*.2*	*8.2*	*25.9*	*.39*	*.52*	--	*.164*
MAY										
03...	--	--	17.7	.2	8.6	25.8	.47	1.0	.23	.250
04...	30	37	19.3	.2	7.7	26.0	.52	.95	--	.235
22...	--	--	18.0	.2	9.5	22.7	.55	.63	--	.253
JUN										
26...	38	46	18.7	.2	8.8	21.1	.39	.49	--	.112
JUL										
31...	36	44	17.0	<.1	8.8	16.8	.47	.65	--	.063
AUG										
23...	--	--	20.2	.2	10.2	21.0	.29	.33	<.03	<.030
30...	45	55	21.3	.3	10.8	20.7	.29	.38	--	.099

< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
OCT 1999										
04...	.89	.60	.180	.016	.008	<.010	.293	3.8	.4	--
NOV										
04...	1.7	1.6	1.36	.017	.020	.013	.113	4.4	.5	--
30...	1.7	1.6	1.21	.020	.025	--	.081	3.6	.5	E1.6
30...	1.7	1.5	1.30	.030	.017	<.010	.096	3.6	.5	--
JAN 2000										
03...	--	--	--	--	--	--	--	*<.33*	*.4*	--
03...	2.3	2.1	1.74	.048	.021	.014	.097	2.3	.3	--
03...	--	--	--	--	--	--	--	*2.3*	*<.2*	--
FEB										
01...	2.4	2.4	1.85	.017	.018	--	.072	4.6	.3	2.9
01...	2.5	2.2	1.78	.020	.015	<.010	.101	4.7	.5	--
MAR										
07...	2.3	2.2	1.85	.024	.016	.013	.059	2.3	.4	--
APR										
03...	--	--	*<.050*	*<.010*	*<.006*	*<.010*	*<.008*	--	--	--
03...	2.0	1.9	1.47	.022	.021	.014	.084	3.6	.7	--
03...	*2.0*	*1.8*	*1.46*	*.022*	*.021*	*.015*	*.085*	--	--	--
MAY										
03...	2.2	1.6	1.17	.030	.046	--	.245	3.7	1.0	2.6
04...	2.5	2.1	1.56	.040	.020	.012	.095	--	.3	--
22...	2.0	1.9	1.38	.066	.042	.034	.045	4.1	.4	--
JUN										
26...	1.8	1.7	1.28	.061	.071	.060	.178	4.3	.4	--
JUL										
31...	1.6	1.4	.978	.018	.102	.076	.302	5.6	1.1	--
AUG										
23...	1.4	1.4	1.11	.023	.119	--	.219	2.8	.3	E1.3
30...	1.7	1.6	1.27	.032	.112	.092	.195	2.9	.2	--

DATE	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT 1999									
04...	--	129	131	10	56	190	52	.44	6
NOV									
04...	--	125	118	10	46	240	61	1.0	9
30...	2	132	120	--	41	--	--	--	--
30...	--	136	123	9	47	430	65	.55	6
JAN 2000									
03...	--	--	--	--	--	--	--	--	--
03...	--	129	125	12	48	280	53	.61	7
03...	--	--	--	--	--	--	--	--	--
FEB									
01...	2	195	194	--	38	--	--	--	--
01...	--	199	188	12	32	450	93	1.3	11
MAR									
07...	--	126	118	6	38	320	47	.65	8
APR									
03...	--	--	--	--	--	--	--	--	--
03...	--	112	107	--	34	330	46	.81	7
03...	--	*114*	--	--	*36*	*340*	*45*	--	*9*
MAY									
03...	--	123	111	--	42	--	--	1.1	12
04...	--	125	114	7	42	230	52	.64	7
22...	--	128	113	7	39	640	38	.91	10
JUN									
26...	--	134	116	10	51	550	34	.56	15
JUL									
31...	--	119	103	42	53	310	33	2.1	32
AUG									
23...	--	139	126	--	63	--	--	.23	6
30...	--	143	129	6	56	190	29	.38	9

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analayzed for volatile organic compounds (VOCs) on schedule2020 (listed with minimum reporting levels in the "Explanation of Records" section in the Introduction). Only VOCs identified by the analyses in one or more samples are listed in the water-quality tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)
NOV 1999										
04...	1120	<.03	<.06	<.07	<.04	<.07	E2	<.1	<.2	<.06
FEB 2000										
01...	1020	<.03	<.06	<.07	<.04	<.07	E3	<.1	<.2	<.06
JUN										
26...	1020	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

DATE	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISOPROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (UG/L) (77041)
NOV 1999										
04...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
FEB 2000										
01...	<.04	<.05	E.01	<.03	<.2	<.04	<.05	E.02	<.06	<.07
JUN										
26...	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROETHANE TOTAL (UG/L) (34311)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NOV 1999										
04...	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
FEB 2000										
01...	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
JUN										
26...	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1

DATE	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRAHYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)	ISODURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYLCHLORIDE TOTAL (UG/L) (34418)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISOBUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV 1999										
04...	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	E.01
FEB 2000										
01...	<.03	<.06	<2	<.2	E.1	<.5	<.4	E1	<.4	<.06
JUN										
26...	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06

DATE	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)
NOV 1999										
04...	<.2	<.04	<.04	E.01	E.01	<.1	<.06	<.05	<.04	<.09
FEB 2000										
01...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09
JUN										
26...	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04	<.09

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 1999								
04...	1120	ENVIRONMENTAL	<.002	E.004	.005	<.002	<.002	E.007
NOV								
04...	1120	ENVIRONMENTAL	<.002	.005	.007	<.002	<.002	<.003
30...	0950	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	<.003
JAN 2000								
03...	*1219*	*BLANK*	*<.002*	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*
03...	1220	ENVIRONMENTAL	<.002	<.002	.005	<.002	<.002	<.003
FEB								
01...	1020	ENVIRONMENTAL	<.002	.004	.005	<.002	<.002	<.003
MAR								
07...	0910	ENVIRONMENTAL	<.002	<.002	.005	<.002	<.002	<.003
APR								
03...	1010	ENVIRONMENTAL	<.002	E.004	.005	<.002	<.002	<.003
MAY								
04...	0950	ENVIRONMENTAL	<.002	.004	.008	<.002	<.002	E.008
04...	*0951*	*REPLICATE*	*<.002*	*.005*	*.008*	*<.002*	*<.002*	*<.008*
22...	0950	ENVIRONMENTAL	<.002	<.002	.017	<.002	<.002	E.018
JUN								
26...	1020	ENVIRONMENTAL	<.002	.009	.344	<.002	<.002	E.006
JUL								
31...	0940	ENVIRONMENTAL	<.002	<.002	.035	<.002	<.002	E.018
AUG								
30...	1020	ENVIRONMENTAL	<.002	<.002	.008	<.002	<.002	E.014

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 1999									
04...	<.015	.005	<.004	<.002	E.005	<.002	<.001	<.002	<.003
NOV									
04...	<.003	<.004	<.004	<.002	E.006	<.002	<.001	<.002	<.003
30...	<.003	<.004	<.004	<.002	E.006	<.002	<.001	<.002	<.003
JAN 2000									
03...	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*	*<.001*	*<.002*	*<.003*
03...	<.003	<.004	<.004	<.002	E.005	<.002	<.001	<.002	<.003
FEB									
01...	<.018	<.004	<.004	<.002	E.006	<.002	<.001	<.002	<.003
MAR									
07...	<.003	<.004	<.004	<.002	E.007	<.002	<.001	<.002	<.003
APR									
03...	<.003	<.004	<.004	<.002	E.006	<.002	E.002	<.002	<.003
MAY									
04...	<.003	<.004	<.004	<.002	E.007	.006	<.001	<.002	<.003
04...	*<.003*	*<.004*	*<.004*	*<.002*	*E.008*	*.006*	*<.001*	*<.002*	*<.003*
22...	<.003	<.004	<.004	<.002	E.011	.005	<.001	<.002	<.003
JUN									
26...	<.020	<.004	.009	<.002	E.038	.006	<.001	<.002	<.003
JUL									
31...	<.003	<.004	<.004	<.002	E.010	.133	<.001	<.002	<.003
AUG									
30...	<.003	<.004	<.004	<.002	E.005	.009	<.001	<.002	<.003

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)
OCT 1999									
04...	<.004	<.002	<.005	<.001	.027	<.004	<.003	<.006	<.004
NOV									
04...	<.004	<.002	<.005	<.001	.032	<.004	<.003	<.006	<.004
30...	<.004	<.002	<.005	<.001	.019	<.004	<.003	<.006	<.004
JAN 2000									
03...	*<.004*	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*	*<.004*
03...	<.004	<.002	<.010	<.001	.018	<.004	<.003	<.006	<.004
FEB									
01...	<.004	<.002	<.005	<.001	.017	<.004	<.003	<.006	<.004
MAR									
07...	<.004	<.002	<.005	<.001	.019	<.004	<.003	<.006	<.004
APR									
03...	<.004	<.002	<.005	<.001	.028	<.004	<.003	E.002	<.004
MAY									
04...	<.004	<.002	<.005	E.027	.024	<.004	<.003	<.006	<.006
04...	*<.004*	*<.002*	*<.005*	*E.021*	*.025*	*<.004*	*<.003*	*<.006*	*<.005*
22...	<.004	<.002	<.005	E.011	.028	<.004	.011	<.006	<.004
JUN									
26...	<.004	<.002	<.005	<.001	.296	<.004	.012	<.006	<.004
JUL									
31...	<.004	<.002	<.005	<.030	.175	<.004	<.010	<.006	.030
AUG									
30...	<.004	<.002	<.005	<.001	.019	<.004	<.003	<.006	<.004

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 1999									
04...	E.007	<.003	<.007	<.004	.007	<.010	E.10	<.001	<.002
NOV									
04...	E.004	<.003	<.007	<.004	.007	<.010	E.075	<.001	<.002
30...	<.018	<.003	<.007	<.004	.007	<.010	E.062	<.001	<.002
JAN 2000									
03...	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	*<.001*	*<.002*
03...	<.018	<.003	<.007	<.004	<.005	<.010	E.15	<.001	<.002
FEB									
01...	E.005	<.003	<.007	<.004	.009	<.010	E.084	<.001	<.002
MAR									
07...	E.004	<.003	<.007	<.004	<.010	<.010	E.080	<.001	<.002
APR									
03...	E.003	<.003	<.007	<.004	.006	<.010	E.078	<.001	<.002
MAY									
04...	<.018	<.003	<.007	<.004	.012	<.010	E.060	<.001	<.002
04...	*<.018*	*<.003*	*<.007*	*<.004*	*.012*	*<.010*	*E.058*	*<.001*	*<.002*
22...	<.018	<.003	<.007	<.004	.009	<.010	E.074	<.001	<.002
JUN									
26...	E.006	<.003	<.007	<.004	.021	<.010	E.11	<.001	<.002
JUL									
31...	.026	<.003	<.007	<.004	<.010	<.010	E.052	<.001	<.002
AUG									
30...	<.018	<.003	<.007	<.004	<.005	<.010	E.19	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000					AUG 2000				
11...	1015	140	<100	360	01...	1005	170	600	270
18...	1000	490	100	340	08...	1020	330	<100	280
25...	1010	1100	1500	170					

E Estimated value.
< Actual value is known to be less than the value shown.

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	16.5	17.0	---	---	---	5.5	3.5	4.0	5.5	4.0	4.5
2	17.0	16.0	16.5	---	---	---	4.5	3.0	3.5	8.0	4.5	6.0
3	18.0	17.0	17.5	---	---	---	5.5	3.5	4.5	10.0	8.0	8.5
4	18.0	18.0	18.0	---	---	---	8.0	5.5	6.5	12.0	9.5	10.5
5	18.0	14.5	16.0	10.0	8.0	9.5	9.0	7.0	8.0	10.5	6.0	8.5
6	15.0	13.0	14.0	12.0	10.0	11.0	10.0	9.0	10.0	6.0	4.5	5.0
7	15.0	12.5	13.5	12.0	10.0	10.5	10.0	8.0	9.0	5.5	3.5	4.5
8	13.0	11.0	12.0	10.0	8.5	9.0	8.0	6.0	7.0	5.0	3.5	4.0
9	15.0	13.0	14.0	10.0	7.5	9.0	7.0	5.5	6.0	6.0	4.5	5.5
10	16.5	15.0	15.5	12.5	10.0	11.0	8.5	6.0	7.0	8.0	6.0	7.0
11	17.0	16.5	16.5	12.5	10.0	12.0	8.0	6.0	7.0	7.0	6.0	6.5
12	16.5	14.5	15.0	10.0	8.0	9.0	6.0	5.0	5.5	6.0	5.0	5.5
13	16.0	13.5	14.5	11.0	9.5	10.0	6.0	4.5	5.5	6.0	3.5	5.0
14	16.0	13.5	15.0	12.0	9.5	10.5	7.0	6.0	6.5	3.5	1.5	2.0
15	13.5	12.0	12.5	10.5	9.0	9.5	8.0	7.0	7.5	2.0	.5	1.5
16	14.5	12.0	13.0	9.0	6.5	8.0	8.0	7.0	8.0	3.5	2.0	2.5
17	15.0	14.0	14.5	6.5	5.5	6.0	7.0	5.0	6.0	2.5	.5	1.0
18	15.0	14.5	15.0	6.0	4.5	5.5	5.5	4.5	5.0	1.0	.0	.5
19	14.5	12.0	13.0	7.5	5.5	6.5	6.0	4.5	5.5	1.5	.5	1.0
20	13.5	13.0	13.0	10.5	7.5	9.0	8.0	6.0	6.5	1.0	1.0	1.0
21	13.5	12.0	12.5	12.0	10.0	11.0	8.0	7.0	7.5	1.0	.0	.5
22	13.0	11.0	12.0	12.5	11.5	12.0	7.0	5.0	6.0	.5	.5	.5
23	13.0	12.0	12.5	13.5	12.0	13.0	5.0	3.5	4.0	1.0	.5	.5
24	12.0	10.5	11.5	14.5	13.5	14.0	3.5	2.5	3.0	2.0	1.0	1.5
25	---	---	---	14.0	13.5	14.0	2.5	1.0	2.0	1.5	.5	.5
26	---	---	---	15.0	13.0	14.0	2.5	1.0	2.0	1.0	.5	.5
27	---	---	---	15.0	12.5	13.5	3.5	2.5	3.0	.5	.0	.5
28	---	---	---	12.5	10.0	11.0	3.5	2.0	3.0	.5	.0	.0
29	---	---	---	10.0	7.5	8.5	3.5	2.5	3.0	.5	.0	.5
30	---	---	---	7.5	5.5	6.5	4.5	3.0	3.5	.5	.0	.5
31	---	---	---	---	---	---	5.5	4.0	4.5	1.0	.5	.5
MONTH	---	---	---	15.0	4.5	10.0	10.0	1.0	5.5	12.0	.0	3.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	15.5	14.5	15.0
24	---	---	---	---	---	---	---	---	---	19.0	15.0	17.0
25	---	---	---	---	---	---	---	---	---	19.0	17.0	17.5
26	---	---	---	---	---	---	---	---	---	19.0	16.0	17.5
27	---	---	---	---	---	---	---	---	---	19.0	16.0	17.0
28	---	---	---	---	---	---	---	---	---	16.5	15.0	16.0
29	---	---	---	---	---	---	---	---	---	17.0	15.5	16.0
30	---	---	---	---	---	---	---	---	---	17.0	15.0	15.5
31	---	---	---	---	---	---	---	---	---	17.0	14.5	15.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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

01477440 OLDMANS CREEK AT JESSUPS MILL, NJ

LOCATION.--Lat 39°39'44", long 75°13'53", Salem County, Hydrologic Unit 02040206, at bridge on Monroeville Road at Jessups Mill, 700 ft upstream of Algonkin Lake, and 0.9 mi southeast of Lincoln.

DRAINAGE AREA.--4.15 mi^2.

PERIOD OF RECORD.--November 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1999										
09...	1030	765	85	11.1	6.6	200	4.5	.186	.141	69
FEB 2000										
16...	0915	762	89	12.7	6.2	169	1.0	.178	.135	54
MAY										
31...	1015	768	86	9.1	7.0	207	13.0	.159	.123	69
AUG										
24...	0930	761	88	8.4	7.1	234	17.5	.067	.051	78

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999									
09...	14.9	7.78	4.0	6.8	14	20.5	<.1	8.5	29.0
FEB 2000									
16...	11.9	6.01	3.1	5.9	--	16.0	<.1	7.6	26.0
MAY									
31...	15.1	7.56	2.5	6.2	15	19.8	<.1	7.6	26.9
AUG									
24...	17.0	8.69	3.7	7.8	22	21.6	<.1	8.8	28.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
09...	.37	.43	.03	.030	4.4	4.4	3.99	.005	.016
FEB 2000									
16...	.24	.34	.03	<.030	4.4	4.3	4.11	.003	.011
MAY									
31...	.25	.43	<.03	<.030	4.9	4.7	4.44	.004	<.007
AUG									
24...	.22	.19	<.03	<.030	5.4	5.5	5.25	<.003	E.004

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
09...	E.007	5.4	.3	E1.6	<1	125	118	19	--
FEB 2000									
16...	.024	5.0	.3	<1.0	5	111	--	17	--
MAY									
31...	<.008	4.1	.3	2.9	--	147	115	E14	6
AUG									
24...	.008	2.1	<.2	<1.0	--	137	132	19	2

E Estimated value.
< Actual value is known to be less than the value shown.

01477440 OLDMANS CREEK AT JESSUPS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
AUG 2000 24...	0930	<3	116	<1	18	<1.0	E1	<1

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000 24...	90	<1	14	<.3	<1	<1	<1	2

DATE	TIME	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
FEB 2000 16...	0915	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)
FEB 2000 16...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
FEB 2000 16...	<.10	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 31...	1015	<.002	.008	.025	<.002	E.002	E.004	E.043	<.004	<.004	<.002	E.048

E Estimated value.
< Actual value is known to be less than the value shown.

01477440 OLDMANS CREEK AT JESSUPS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000											
31...	<.002	<.001	E.002	<.003	<.004	<.002	<.005	<.001	.076	.009	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000											
31...	<.006	<.004	E.009	<.003	<.007	<.004	.017	E.003	E.020	<.001	<.002

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
05...	1045	1700	400	450
11...	1013	330	600	550
18...	1035	1100	700	640
25...	1045	5400	3300	1200
AUG 2000				
01...	1040	5400	4200	1600

E Estimated value.
< Actual value is known to be less than the value shown.

01482500 SALEM RIVER AT WOODSTOWN, NJ

LOCATION.--Lat 39°38'36", long 75°19'52", Salem County, Hydrologic Unit 02040206, downstream from Memorial Lake Dam at Woodstown, 0.2 mi upstream from small brook, and 0.3 mi downstream from Pennsylvania-Reading Seashore Lines bridge.

DRAINAGE AREA.--14.6 mi^2.

PERIOD OF RECORD.--Water years 1973 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E.coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)
NOV 1999										
30...	1130	E6.0	775	92	11.5	7.5	258	6.5	.279	.216
FEB 2000										
03...	1130	E9.0	763	102	14.3	7.1	274	1.5	.121	.093
MAY										
18...	1130	E5.0	764	91	8.0	7.6	254	22.0	.192	.138
AUG										
03...	1130	E9.0	763	101	8.0	7.7	257	27.5	.212	.159

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1999										
30...	89	20.0	9.51	6.8	8.0	37	23.4	<.1	9.8	36.5
FEB 2000										
03...	85	18.8	9.28	5.5	10.7	26	28.2	.1	10.3	38.9
MAY										
18...	88	20.0	9.21	5.1	8.5	41	22.4	.1	6.4	32.1
AUG										
03...	89	20.0	9.40	6.5	8.1	52	22.6	.1	5.5	26.7

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1999									
30...	.97	1.2	.18	.180	2.9	2.7	1.73	.029	.047
FEB 2000									
03...	.78	1.0	.29	.290	4.5	4.3	3.48	.023	.030
MAY									
18...	1.1	1.3	.26	.290	2.6	2.4	1.29	.105	.049
AUG									
03...	.67	1.3	<.03	<.030	1.9	1.3	.598	.032	.047

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 1999									
30...	.156	8.5	1.5	2.8	28	164	144	21	--
FEB 2000									
03...	.110	5.0	1.7	3.1	26	166	153	22	--
MAY									
18...	.230	6.5	2.3	E2.0	--	156	135	19	60
AUG									
03...	.228	6.5	3.0	3.0	--	159	133	24	40

E Estimated value.
< Actual value is known to be less than the value shown.

01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
05...	1110	3500	1400	3400
11...	1115	2400	1200	330
18...	1130	2200	1100	290
25...	1130	330	1200	170
AUG 2000				
01...	1130	1300	5700	260

01482560 TWO PENNY RUN NEAR DANCEYS CORNER, NJ

LOCATION.--Lat 39°41'22", long 75°24'31", Salem County, Hydrologic Unit 02040206, at bridge on East Quillytown Road, 0.7 mi upstream from Laytons Lake, and 1.8 mi southeast of Danceys Corner.

DRAINAGE AREA.--3.44 mi^2.

PERIOD OF RECORD.--December 1999 to August 2000.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, and enterococci bacteria were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1999										
02...	0800	768	--	--	7.6	282	3.0	.129	.098	110
FEB 2000										
03...	0800	760	50	7.2	6.9	442	.5	.075	.058	99
MAY										
24...	1000	750	67	6.5	6.8	231	16.0	.182	.129	82
AUG										
10...	0930	761	66	5.4	7.5	282	25.0	.130	.099	110

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1999									
02...	28.6	8.83	5.4	7.3	37	28.0	.1	8.2	31.7
FEB 2000									
03...	26.0	8.15	5.2	44.1	26	87.1	.1	8.5	33.0
MAY									
24...	22.0	6.50	4.7	10.1	36	26.2	.2	6.7	23.6
AUG									
10...	28.8	8.82	5.8	4.9	62	22.7	.2	6.3	25.3

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
DEC 1999									
02...	.45	.52	.03	.030	4.5	4.4	3.95	.009	.025
FEB 2000									
03...	.39	1.5	.13	.150	7.6	6.5	6.12	.025	E.006
MAY									
24...	.72	1.2	.19	.220	3.9	3.4	2.69	.075	.050
AUG									
10...	.51	.78	.08	<.030	3.4	3.1	2.57	.044	.051

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
DEC 1999									
02...	.093	4.3	.4	E1.7	9	170	158	19	--
FEB 2000									
03...	.158	2.6	1.2	2.4	19	262	255	24	--
MAY									
24...	.599	5.7	1.2	3.0	--	155	134	20	73
AUG									
10...	.158	4.2	.5	E1.4	--	187	151	30	18

E Estimated value.
< Actual value is known to be less than the value shown.

01482560 TWO PENNY RUN NEAR DANCEYS CORNER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	PH SED BED MAT (STD UNITS) (70310)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C) (00693)	CARBON, INOR-GANIC, TOT IN BOT MAT (G/KG AS C) (00686)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)
AUG 2000											
10...	0930	--	--	--	--	--	--	4	48.4	<1	22
10...	0930	7.30	5600	5.2	4700	39	<.2	--	--	--	--

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
AUG 2000											
10...	<1.0	E1	1	880	<1	218	<.3	1	<1	<1	4
10...	--	--	--	--	--	--	--	--	--	--	--

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	NICKEL, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS NI) (01068)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G) (01148)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	22	1.0	36	16	15	30000	35	1600	.08	21	<1

DATE	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA-CENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	130	<50	<50	<50	<50	<50	<50	M	<50	<50	E20

DATE	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)
AUG 2000											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	E10	E10	<50	E20	<50	<50	<50	<50	<50	E20

DATE	NAPTHAL ENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG) (39519)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
AUG 2000										
10...	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	E13	<50	<50	E10	<50	<50	E20	37

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

01482560 TWO PENNY RUN NEAR DANCEYS CORNER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)
FEB 2000 03...	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20

DATE	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	DIBROMOCHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)
FEB 2000 03...	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10

DATE	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLORIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRACHLOROETHYLENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRICHLOROETHYLENE TOTAL (UG/L) (39180)	TRICHLOROFLUOROMETHANE TOTAL (UG/L) (34488)	VINYL CHLORIDE TOTAL (UG/L) (39175)
FEB 2000 03...	<.10	.7	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
MAY 2000 24...	1000	.010	.021	.027	<.002	<.002	E.006	E.017	<.004	<.004	<.002	E.017

DATE	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
MAY 2000 24...	.007	<.001	<.002	<.003	<.004	<.002	.019	<.001	.170	.013	<.003

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 2000 24...	<.006	<.004	<.018	<.003	<.007	<.004	.009	<.010	<.007	<.001	.017

E Estimated value.
< Actual value is known to be less than the value shown.

01482560 TWO PENNY RUN NEAR DANCEYS CORNER, NJ--Continued

WATER-COLUMN BACTERIA ANALYSES
Samples collected synoptically during the summer months

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)
JUL 2000				
05...	1000	460	200	300
11...	0945	490	500	680
18...	0950	790	<100	300
25...	0955	130	400	350
AUG 2000				
01...	0950	490	300	270

< Actual value is known to be less than the value shown.

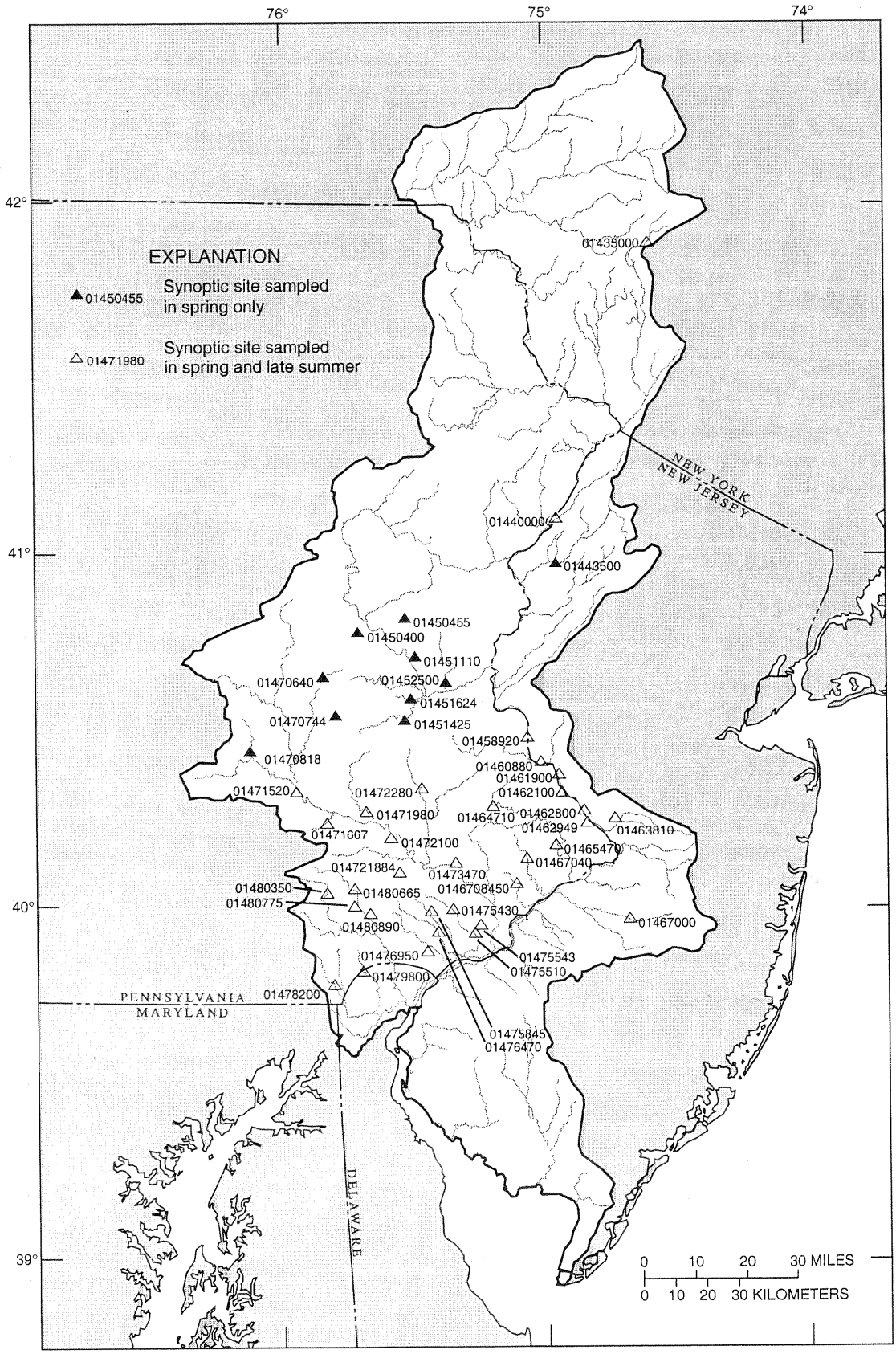


Figure 42. Location of Delaware River National Water-Quality Assessment Program synoptic sites.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

Miscellaneous water-quality sites are locations where non-routine water-quality data are collected during one year for use in hydrologic analyses. Data are collected either intermittenly or systematically for a limited period of time. Water-quality data presented in this table were collected by the Delaware River Basin National Water-Quality Assessment Program (NAWQA) as part of two basin-wide synoptic surveys of nutrients, pesticides, major ions, and organic carbon, during periods of base flow; the first survey was May 15 through June 27, 2000, and the second was Septermber 11 through October 16, 2000. Selected samples were analyzed for pesticides on schedule 2001 (listed with minimum reporting levels in "Explanation of Records" section); only pesticides identified by the analyses in one or more samples are listed in the water-quality tables. Bed sediment and fish community data for these sites are presented on pages 470 and 507.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)										
JUN 2000										
26...	1420	ENVIRONMENTAL	247	717	108	9.8	6.7	24	27.5	17.0
OCT										
16...	1040	ENVIRONMENTAL	60	729	93	10.0	6.4	27	9.5	10.0
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)										
MAY 2000										
24...	1010	ENVIRONMENTAL	157	739	154	15.6	7.7	163	25.0	13.5
OCT										
05...	1150	ENVIRONMENTAL	28	717	112	10.9	7.6	251	14.5	13.5
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)										
MAY 2000										
31...	0900	ENVIRONMENTAL	130	758	99	9.9	8.0	400	13.5	15.0
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)										
MAY 2000										
31...	1800	ENVIRONMENTAL	91	750	109	10.7	7.5	78	22.0	16.0
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)										
MAY 2000										
31...	*1449*	*FIELD BLANK*	--	--	--	--	--	--	--	--
31...	1450	ENVIRONMENTAL	68	752	118	11.9	7.4	85	23.5	14.5
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)										
MAY 2000										
31...	1030	ENVIRONMENTAL	63	763	108	11.6	7.7	196	14.5	12.5
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)										
MAY 2000										
31...	1510	ENVIRONMENTAL	45	761	126	12.6	8.5	392	24.5	15.0
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)										
MAY 2000										
31...	1310	ENVIRONMENTAL	20	765	118	11.9	8.3	547	19.5	15.0
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)										
MAY 2000										
31...	0750	ENVIRONMENTAL	67	765	103	11.0	8.0	522	11.0	12.5
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)										
MAY 2000										
18...	1330	ENVIRONMENTAL	5.2	761	127	11.6	8.7	220	27.5	19.5
SEP										
11...	0910	ENVIRONMENTAL	.68	767	118	10.6	7.9	311	22.0	21.0

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	7	2.08	.53	.2	1.0	2	3	--	1.5	<.1	2.1
OCT											
16...	9	2.52	.64	.3	1.1	4	4	--	1.5	E.1	2.5
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	59	17.4	3.88	.5	7.9	46	56	--	13.0	<.1	4.5
OCT											
05...	97	27.9	6.52	.7	10.2	85	103	--	16.8	<.2	3.2
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	150	37.9	12.9	1.1	20.1	122	149	--	38.9	<.1	4.7
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	27	6.98	2.25	.5	2.6	16	19	--	4.6	<.1	5.1
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)											
MAY 2000											
31...	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*	*<.1*
31...	28	7.28	2.32	.5	3.3	16	19	--	5.6	<.1	5.6
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	76	22.0	5.17	1.1	5.9	38	47	--	11.1	<.1	6.4
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	180	44.7	16.3	1.7	7.4	127	145	7	15.8	<.1	8.8
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	240	57.2	23.0	2.1	18.4	E210	E256	--	38.5	<.1	7.7
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	230	57.4	20.0	4.9	11.4	145	177	--	22.3	<.1	7.3
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	82	19.1	8.32	1.0	8.5	59	72	--	11.6	<.1	5.6
SEP											
11...	120	28.9	11.6	1.3	11.4	71	87	--	13.2	<.1	3.6

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	4.7	<.020	E.10	E.10	--	<.050	--	<.010	<.006	<.010	<.008
OCT											
16...	4.9	<.041	E.10	.10	--	.052	.14	<.006	<.006	<.018	E.002
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	10.2	<.020	.14	.20	.24	.104	.30	<.010	.007	<.010	.014
OCT											
05...	13.5	<.020	.12	.14	--	<.050	--	<.010	E.005	<.010	.010
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	15.3	<.020	.39	.44	.87	.482	.92	<.010	.020	.011	.042
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	7.5	<.020	<.10	.19	--	1.13	1.3	<.010	.007	.010	.013
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N. LONG 075 32 04W)											
MAY 2000											
31...	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*	*<.008*
31...	8.1	<.020	E.10	E.10	--	1.22	--	<.010	.006	<.010	E.006
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	21.2	.020	.11	.19	3.6	3.46	3.6	<.010	.007	<.010	--
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	19.8	<.020	<.10	.15	--	5.54	5.7	.012	.009	.013	--
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	31.2	.023	<.10	.14	--	4.63	4.8	.015	.006	.011	--
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	69.2	.026	.10	.29	5.0	4.90	5.2	.013	.025	.026	--
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	25.4	<.020	.26	.31	.38	.116	.43	<.010	.011	<.010	--
SEP											
11...	51.5	<.020	.20	.23	--	<.050	--	<.010	.012	<.010	.016

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	18	14	<1	<16	E10	5	1.8	<.2	3.8	6	<.002
OCT											
16...	20	16	<1	<13	<10	E2	1.0	<.2	.16	1	<.004
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	100	86	4	E8	140	10	3.4	<.2	1.4	3	<.002
OCT											
05...	139	129	1	E11	30	10	1.9	<.2	.19	2	<.004
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	226	206	7	E12	80	16	4.9	--	2.4	7	<.002
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	57	44	6	E8	60	12	1.2	<.2	1.0	4	.024
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)											
MAY 2000											
31...	*<10*	--	--	*<16*	*<10*	*<2*	--	--	--	--	--
31...	52	48	2	<16	30	5	1.1	<.2	.28	2	E.003
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	121	111	5	E14	30	4	1.6	<.2	.27	2	<.002
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	229	218	14	24	E10	8	.93	<.2	.58	5	.012
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	311	--	8	E10	<10	6	.68	<.2	.25	5	<.002
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	320	301	13	17	E10	7	1.0	.3	1.6	9	<.002
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	130	115	1	62	10	3	4.0	<.2	.02	1	<.002
SEP											
11...	171	164	6	136	<10	5	2.6	<.2	.00	3	<.002

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002
OCT											
16...	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006	<.002
OCT											
05...	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	<.002	.011	E.001	<.002	<.003	<.003	<.004	<.004	<.002	E.010	<.002
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	<.002	.122	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.045	<.002
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)											
MAY 2000											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	.007	.080	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.031	E.001
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	<.002	.235	<.002	<.002	<.003	<.003	<.004	.005	<.002	E.075	<.002
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	<.002	1.03	<.002	<.002	<.003	<.003	.006	<.004	E.002	E.27	<.002
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	<.002	.231	<.002	<.002	<.003	<.003	.006	.024	<.002	E.24	<.002
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	<.002	.288	<.002	<.002	<.003	<.003	<.004	.015	<.002	E.16	<.002
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	<.002	.022	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.022	<.002
SEP											
11...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003	<.006
OCT											
16...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.002
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.001	<.004	<.003	<.006
OCT											
05...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007	E.002
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003	<.006
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.042	<.004	<.003	<.006
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)											
MAY 2000											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003	<.006
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.064	<.004	<.003	<.006
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.434	<.004	<.003	<.006
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.057	<.004	<.003	<.006
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.051	<.004	<.003	<.006
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006
SEP											
11...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUTHYLAZINE, WATER, DISS, REC (UG/L) (04022)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)											
JUN 2000											
26...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
OCT											
16...	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	--	<.002	<.009
01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)											
MAY 2000											
24...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
OCT											
05...	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	--	<.002	<.009
01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)											
MAY 2000											
31...	<.004	E.008	<.003	<.007	<.004	E.002	<.010	<.007	--	<.001	<.002
01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)											
MAY 2000											
31...	.007	<.018	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)											
MAY 2000											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<.004	<.018	<.003	<.007	<.004	E.002	<.010	<.007	--	<.001	<.002
01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)											
MAY 2000											
31...	<.004	E.010	<.003	<.007	<.004	.041	<.010	<.007	--	<.001	<.002
01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)											
MAY 2000											
31...	.022	<.018	<.003	<.007	<.004	.014	<.010	<.007	E.002	<.001	<.002
01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)											
MAY 2000											
31...	.012	.024	<.003	<.007	<.004	.022	E.003	<.007	--	<.001	<.002
01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)											
MAY 2000											
31...	.012	E.016	<.003	<.007	<.004	.021	<.010	<.007	--	<.001	<.002
01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)											
MAY 2000											
18...	<.004	E.006	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	<.002
SEP											
11...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)									
MAY 2000									
30...	1340	ENVIRONMENTAL	7.6	769	--	--	7.5	168	19.0
SEP									
11...	1100	ENVIRONMENTAL	1.2	767	105	9.6	7.7	199	22.5
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)									
MAY 2000									
30...	1110	ENVIRONMENTAL	9.0	760	106	10.8	7.6	247	15.0
SEP									
11...	1410	ENVIRONMENTAL	2.0	767	145	12.7	8.2	314	24.0
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)									
MAY 2000									
18...	1640	ENVIRONMENTAL	3.1	762	100	9.2	7.9	263	27.5
SEP									
12...	0800	ENVIRONMENTAL	1.3	764	80	7.2	7.6	290	22.0
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)									
MAY 2000									
30...	0830	ENVIRONMENTAL	8.2	770	101	10.7	7.4	309	14.0
SEP									
12...	1440	ENVIRONMENTAL	1.8	766	144	12.2	8.5	304	28.5
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)									
JUN 2000									
05...	1240	ENVIRONMENTAL	8.5	767	109	10.4	7.7	296	22.0
SEP									
12...	1030	ENVIRONMENTAL	2.0	766	99	9.0	7.8	319	26.5
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)									
JUN 2000									
05...	1440	ENVIRONMENTAL	4.2	767	96	9.2	7.6	357	21.0
SEP									
12...	1220	ENVIRONMENTAL	1.8	763	74	6.6	7.8	371	28.0
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)									
MAY 2000									
17...	1130	ENVIRONMENTAL	5.6	756	100	9.2	7.7	300	24.0
SEP									
25...	1010	ENVIRONMENTAL	7.9	758	75	7.1	7.6	229	13.0
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)									
MAY 2000									
30...	0850	ENVIRONMENTAL	20	--	--	--	7.6	260	16.5
SEP									
18...	0840	ENVIRONMENTAL	11	766	88	8.7	6.7	242	20.5

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	14.5	52	12.8	5.00	2.0	8.7	34	41	--	9.7	<.1
SEP											
11...	20.5	65	16.1	5.98	2.8	10.2	47	58	--	11.2	.1
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	14.5	82	20.3	7.50	2.0	11.8	--	--	--	18.6	<.1
SEP											
11...	22.5	110	28.2	9.42	2.5	14.7	--	--	--	22.2	.1
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	19.5	97	22.7	9.85	1.7	10.5	76	93	--	16.4	<.1
SEP											
12...	20.5	110	27.3	11.2	2.2	11.1	89	109	--	14.3	<.1
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	13.5	87	20.5	8.79	2.2	19.6	53	65	--	39.1	<.1
SEP											
12...	24.0	93	22.4	9.05	2.6	19.7	68	79	2	32.0	<.1
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	17.5	97	25.5	8.01	1.8	16.0	56	68	--	30.5	<.1
SEP											
12...	20.5	110	29.3	8.80	1.8	16.1	63	77	--	31.2	<.1
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	17.5	110	29.0	9.31	2.8	23.0	86	105	--	40.7	.1
SEP											
12...	21.5	120	33.7	9.84	3.5	21.4	90	110	--	36.0	.2
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	19.0	91	22.1	8.60	2.2	16.2	64	78	--	30.6	<.1
SEP											
25...	17.5	75	18.7	6.80	3.0	11.9	56	68	--	19.3	<.1
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	15.0	87	22.6	7.39	2.0	14.0	51	62	--	27.3	<.1
SEP											
18...	16.0	72	18.8	6.15	2.6	11.4	50	60	--	19.5	<.1

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	8.5	20.0	<.020	.27	.27	1.4	1.13	1.4	<.010	.023	.014
SEP											
11...	4.2	19.7	<.020	.21	.44	1.6	1.43	1.9	<.010	.028	.016
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	12.5	23.5	<.020	.17	.18	1.8	1.63	1.8	<.010	.036	.027
SEP											
11...	6.8	37.3	<.020	.13	.24	.29	.161	.40	<.010	.018	.010
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	11.8	22.2	.038	.29	.41	.94	.649	1.1	.017	.044	.042
SEP											
12...	11.0	24.0	<.020	.19	.24	.63	.442	.68	<.010	.055	.040
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	11.2	23.1	<.020	.18	.22	1.6	1.37	1.6	<.010	.046	.032
SEP											
12...	5.4	22.0	<.020	.23	.23	.38	.147	.38	<.010	.055	.040
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	16.1	22.9	.058	.17	.34	3.1	2.96	3.3	.019	.027	.020
SEP											
12...	16.2	23.1	<.020	.19	.21	3.4	3.18	3.4	.010	.037	.027
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	14.9	26.0	.085	.31	.46	1.3	.954	1.4	.051	.023	.012
SEP											
12...	11.7	27.0	.024	.25	.32	1.0	.756	1.1	.013	.036	.018
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	7.2	19.6	.121	.57	.85	1.4	.874	1.7	.083	.043	.019
SEP											
25...	7.8	18.8	.039	.39	.90	.75	.361	1.3	<.010	.029	.018
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	7.3	23.0	.151	.44	.48	1.6	1.14	1.6	.060	.009	<.010
SEP											
18...	11.4	16.2	.284	.51	.58	1.9	1.35	1.9	.119	.035	.023

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	--	101	92	--	49	60	3	4.0	<.2	.06	3
SEP											
11...	.063	115	105	1	73	E10	3	2.7	<.2	.01	2
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	--	145	137	1	34	10	6	2.3	<.2	.01	M
SEP											
11...	.032	179	168	2	57	<10	5	1.6	<.2	.06	11
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	--	154	144	6	46	50	40	3.0	<.2	.04	4
SEP											
12...	.064	162	157	5	58	10	11	2.4	<.2	.01	4
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	--	175	163	3	38	20	7	2.8	<.2	.04	2
SEP											
12...	.058	172	155	1	55	<10	5	2.5	<.2	.03	5
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	.073	183	168	19	22	70	110	2.0	.6	.43	19
SEP											
12...	.047	187	178	2	17	20	24	1.6	<.2	.01	3
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	.059	211	202	5	66	130	70	3.4	.3	.05	4
SEP											
12...	.070	211	201	3	94	60	55	2.9	<.2	.03	6
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	.129	167	149	52	19	70	186	4.2	.6	.36	24
SEP											
25...	.155	139	122	71	21	50	99	4.5	.9	.65	30
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	.033	149	140	8	E15	50	159	2.3	.3	.32	6
SEP											
18...	.074	142	122	2	E13	90	173	2.9	<.2	.06	2

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	.023	.008	.292	<.002	<.002	<.003	<.040	<.004	<.004	<.002	E.054
SEP											
11...	<.002	<.002	.023	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.040
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	.050	E.003	.695	<.002	<.002	<.003	<.003	<.004	.011	<.002	E.13
SEP											
11...	<.002	<.002	.038	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.078
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	.017	<.002	.096	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.045
SEP											
12...	<.002	<.002	.026	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.049
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	E.003	<.002	.589	<.002	<.002	<.003	<.015	<.004	<.004	<.002	E.084
SEP											
12...	<.002	<.002	.027	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.042
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	<.002	<.002	.023	<.002	<.002	E.004	<.003	<.004	<.004	<.002	E.041
SEP											
12...	<.002	<.002	.015	<.002	<.002	<.003	<.003	E.001	<.004	<.002	E.038
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	<.004	<.002	.034	<.002	<.002	E.006	<.003	E.003	<.004	<.002	E.024
SEP											
12...	<.002	<.002	<.007	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.007
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	.025	<.002	.154	<.002	<.002	E.025	<.003	<.004	.484	<.002	E.052
SEP											
25...	<.002	<.002	.015	<.002	<.002	E.007	<.003	<.004	.011	E.002	E.019
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	<.002	<.002	.031	<.002	<.002	E.011	<.003	<.004	<.004	<.002	E.028
SEP											
18...	<.002	<.002	.016	E.002	<.002	<.003	<.003	<.004	<.004	<.002	E.014

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DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	<.002	<.001	<.002	<.003	<.004	.056	<.005	<.001	.175	.008	<.003
SEP											
11...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.068	<.004	<.003
SEP											
11...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.002	<.004	<.003
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003
SEP											
12...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.045	<.004	<.003
SEP											
12...	<.002	<.001	<.002	<.003	<.004	<.002	E.004	<.001	E.003	<.004	<.003
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	E.003	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.030	<.004	<.003
SEP											
12...	.005	<.001	<.002	<.003	<.004	<.002	E.005	<.001	.022	<.004	<.003
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	.020	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003
SEP											
12...	.018	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	.015	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.088	<.004	<.003
SEP											
25...	.034	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	.010	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.020	<.004	<.003
SEP											
18...	.072	<.005	<.002	<.003	<.004	<.002	<.005	<.001	.031	<.004	<.075

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	<.006	<.004	E.006	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.005	<.003	<.007	<.004	.005	<.010	<.007	<.001	<.002
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	<.006	<.004	E.003	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.008	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	<.006	<.004	E.010	<.003	<.007	<.004	.015	<.010	<.007	<.001	<.002
SEP											
12...	<.006	<.004	E.007	<.003	<.007	<.004	.007	<.010	<.007	<.001	<.002
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	<.006	<.004	E.011	<.003	<.007	<.004	E.005	<.010	<.007	<.001	<.002
SEP											
12...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	<.006	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	<.001	E.001
SEP											
12...	<.006	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	<.001	<.002
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	<.006	.011	<.030	<.003	<.007	<.004	<.005	E.006	<.007	<.001	E.001
SEP											
12...	<.006	<.004	.074	<.003	<.007	<.004	<.005	.015	<.007	<.001	<.002
01464710 PINE CREEK AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	<.006	<.004	.027	.015	<.007	<.004	.028	<.010	<.007	<.001	E.003
SEP											
25...	<.006	<.004	.024	<.009	<.007	<.004	<.010	<.010	<.007	<.001	<.004
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	<.006	<.004	.080	<.003	<.007	<.004	.018	E.003	<.007	<.001	<.002
SEP											
18...	E.003	<.004	.045	<.003	<.007	<.004	.013	<.010	<.007	<.001	E.001

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)										
JUN 2000										
27...	1010	ENVIRONMENTAL	70	763	83	6.9	5.8	59	29.5	24.5
OCT										
03...	1220	ENVIRONMENTAL	169	761	105	10.3	4.4	48	22.5	16.0
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)										
MAY 2000										
15...	1600	ENVIRONMENTAL	22	762	109	10.3	7.8	458	20.5	18.0
SEP										
18...	1140	ENVIRONMENTAL	22	763	107	10.2	7.8	549	24.5	17.5
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)										
MAY 2000										
15...	1020	ENVIRONMENTAL	7.8	761	103	10.4	7.6	482	18.5	15.0
SEP										
18...	1330	ENVIRONMENTAL	6.8	767	98	9.6	7.8	493	23.0	16.5
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)										
JUN 2000										
01...	0900	ENVIRONMENTAL	38	750	104	10.4	7.3	132	24.0	15.0
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)										
JUN 2000										
01...	*1208*	*FIELD BLANK*	--	--	--	--	--	--	--	--
01...	*1209*	*FIELD BLANK*	--	--	--	--	--	--	--	--
01...	1210	ENVIRONMENTAL	19	750	133	13.0	8.5	220	30.0	16.0
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)										
JUN 2000										
01...	*1228*	*FIELD BLANK*	--	--	--	--	--	--	--	--
01...	*1229*	*FIELD BLANK*	--	--	--	--	--	--	--	--
01...	1230	ENVIRONMENTAL	99	759	106	10.1	8.2	549	32.0	17.5
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)										
JUN 2000										
01...	1430	ENVIRONMENTAL	20	755	100	9.4	8.1	446	31.0	18.0
SEP										
25...	1640	ENVIRONMENTAL	12	759	100	10.2	8.1	510	14.5	14.5
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)										
MAY 2000										
17...	1520	ENVIRONMENTAL	19	761	100	9.8	7.6	120	21.5	16.0
SEP										
25...	1440	ENVIRONMENTAL	5.8	751	102	10.2	8.1	159	14.5	14.5

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	10	2.45	.97	1.0	5.4	--	--	--	8.0	<.1	4.3
OCT											
03...	7	1.63	.66	.7	3.3	<1	--	--	5.8	<.1	10.9
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	120	32.2	10.1	4.2	36.6	72	86	--	64.9	.6	13.0
SEP											
18...	150	39.8	11.9	6.0	47.5	69	84	--	78.0	1.0	15.1
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	150	35.8	15.1	4.0	28.2	75	91	--	76.4	<.1	11.7
SEP											
18...	160	38.6	16.4	4.4	30.2	83	101	--	83.1	.1	13.6
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	51	13.8	3.95	.9	4.3	28	34	--	7.4	<.1	6.1
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	86	25.1	5.70	1.2	7.6	42	47	2	14.3	<.1	6.9
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	--	*<.3*	*<.1*	*M*
01...	--	--	--	--	--	--	--	--	--	--	--
01...	260	74.4	17.2	2.8	9.8	198	241	--	20.5	<.1	7.1
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	190	51.1	14.9	2.3	15.8	132	161	--	33.2	<.1	12.2
SEP											
25...	220	56.4	18.3	2.6	17.9	166	202	--	37.1	.1	12.6
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	47	12.4	3.79	1.2	5.1	22	27	--	7.6	<.1	10.2
SEP											
25...	55	14.8	4.29	1.5	6.3	30	37	--	8.4	<.1	12.4

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	7.3	.082	.32	.48	.43	.116	.60	<.010	.026	.017	.080
OCT											
03...	6.4	.026	.27	.35	.32	.051	.40	<.010	.010	<.010	.034
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	--	.104	.55	.60	4.2	3.60	4.2	.045	.912	.809	.917
SEP											
18...	40.6	1.40	2.1	2.2	7.6	5.52	7.8	.155	1.32	1.23	1.39
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	31.6	.031	.22	.23	2.3	2.11	2.3	.017	.023	.033	.044
SEP											
18...	33.3	<.020	.16	.19	2.9	2.76	2.9	<.010	.039	.031	.047
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	12.7	.046	.16	.24	2.2	2.06	2.3	.021	.015	<.010	.027
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	16.4	<.020	.11	.19	4.3	4.15	4.3	.013	.013	<.010	.023
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--	*<.010*	*<.006*	*<.010*	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	29.7	.026	.23	.40	8.6	8.34	8.7	.058	.055	.033	--
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	25.2	<.020	E.10	.13	--	2.49	2.6	<.010	.017	.011	.024
SEP											
25...	29.2	.022	.11	.13	3.0	2.88	3.0	<.010	.023	.020	.032
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	21.3	<.020	.15	.24	1.0	.852	1.1	<.010	.012	.012	--
SEP											
25...	24.5	<.020	.12	.12	1.3	1.13	1.2	<.010	.020	.019	.039

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

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DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	52	34	9	21	1210	21	6.6	3.7	1.5	8	<.002
OCT											
03...	43	--	3	40	780	16	9.5	.9	1.7	4	<.004
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	286	--	3	111	50	33	4.0	<.2	.27	5	.021
SEP											
18...	346	312	3	131	30	23	3.9	.3	.21	4	<.002
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	284	257	4	33	20	26	2.5	<.2	.08	4	.009
SEP											
18...	305	282	1	52	E10	9	1.6	<.2	.01	M	<.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	88	75	10	E9	70	80	1.8	<.2	.40	4	<.002
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	*<.33*	--	--	--	--
01...	--	--	--	--	--	--	*<.33*	*<.2*	--	--	*<.002*
01...	140	121	6	E12	20	11	1.4	<.2	.20	4	.007
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	*<10*	--	--	*<16*	*<10*	*<2*	--	--	--	--	--
01...	--	--	--	--	--	--	*<.33*	*<.2*	--	--	*<.002*
01...	317	317	21	19	10	12	1.6	.2	6.0	22	.010
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	264	245	3	23	20	11	1.3	<.2	.12	2	<.002
SEP											
25...	296	287	3	E15	<10	7	1.3	.3	.19	6	<.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	88	79	7	64	60	39	1.4	<.2	.35	7	<.002
SEP											
25...	106	95	6	75	20	29	1.6	<.2	.04	2	<.002

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DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	<.002	.005	<.002	<.002	E.007	<.030	<.004	<.004	<.002	E.003	<.002
OCT											
03...	<.002	<.007	<.010	<.002	<.041	<.020	E.005	<.018	<.003	<.006	<.005
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	<.002	.095	<.002	<.002	E.15	<.003	.015	<.004	<.002	E.049	.038
SEP											
18...	<.002	.010	<.002	<.002	E.033	<.003	<.004	<.004	<.002	E.010	.020
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	<.002	.053	<.002	<.002	E.010	<.003	<.004	<.004	<.002	E.032	.014
SEP											
18...	<.002	.006	E.001	<.002	<.003	<.003	<.004	<.004	<.002	E.006	.005
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	<.002	.127	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.047	<.002
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*
01...	<.002	.565	<.002	<.002	<.003	<.003	.009	<.004	<.002	E.11	<.002
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.002*	*<.001*	*<.002*	*<.002*	*<.003*	*<.003*	*<.004*	*<.004*	*<.002*	*<.002*	*<.002*
01...	<.002	.256	<.002	<.002	<.003	<.003	E.003	.009	<.002	E.20	.115
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	<.002	.044	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.043	<.002
SEP											
25...	<.002	.039	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.067	E.003
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	<.002	.046	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.013	<.002
SEP											
25...	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.015	<.002

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	.009	<.006
OCT											
03...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	.007	<.002
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	<.001	<.002	<.003	.007	<.002	<.005	<.001	.031	<.004	<.003	<.006
SEP											
18...	<.007	<.002	<.003	<.004	<.002	<.005	<.001	.023	<.004	<.010	<.006
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	.022	<.002	<.003	<.004	<.002	<.005	<.001	.016	<.004	<.003	<.006
SEP											
18...	.021	<.002	<.003	<.004	<.002	<.005	<.001	.010	<.004	<.003	E.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.053	<.004	<.003	<.006
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.001*	*<.002*	*<.003*	*<.004*	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.234	<.004	<.003	<.006
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.001*	*<.002*	*<.003*	*<.004*	*<.002*	*<.005*	*<.001*	*<.002*	*<.004*	*<.003*	*<.006*
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.072	<.004	<.003	<.006
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.020	<.001	E.003	<.004	<.003	E.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	<.001	<.002	<.003	<.004	<.002	.020	<.010	.023	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	<.004	E.003	<.003	<.007	<.004	.007	E.007	E.020	--	<.001	<.002
OCT											
03...	<.010	<.015	<.004	<.010	<.011	<.011	E.006	E.041	--	<.002	<.009
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	<.015	.051	<.003	<.007	<.004	.031	<.010	<.007	--	<.001	<.002
SEP											
18...	<.004	.030	<.003	<.007	<.004	.020	<.010	<.050	--	<.001	<.002
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	.019	.032	<.003	<.007	<.004	.030	<.010	<.007	--	<.001	E.002
SEP											
18...	<.004	.023	<.003	<.007	<.004	.010	E.005	<.007	--	<.001	<.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	.006	<.018	<.003	<.007	<.004	.020	E.004	<.007	--	<.001	<.002
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.004*	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	--	*<.001*	*<.002*
01...	.011	E.008	<.003	<.007	<.004	.011	<.010	<.007	--	<.001	<.002
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	*<.004*	*<.018*	*<.003*	*<.007*	*<.004*	*<.005*	*<.010*	*<.007*	--	*<.001*	*<.002*
01...	.016	.021	<.003	<.007	<.004	.196	.010	<.007	--	<.001	<.002
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	<.004	.019	<.003	<.007	<.004	.013	E.007	<.007	E.004	<.001	<.002
SEP											
25...	<.004	.021	<.003	<.007	<.004	.015	E.007	<.007	--	<.001	<.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	<.010	E.008	<.003	<.007	<.004	.036	<.010	<.007	--	<.001	<.002
SEP											
25...	<.004	E.003	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)									
MAY 2000									
18...	0720	ENVIRONMENTAL	84	762	91	8.9	7.8	298	19.0
SEP									
25...	1600	ENVIRONMENTAL	45	759	103	10.1	8.3	352	15.0
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)									
MAY 2000									
16...	1350	ENVIRONMENTAL	14	761	99	9.9	7.5	164	23.5
OCT									
02...	1000	ENVIRONMENTAL	8.4	759	100	10.6	7.5	192	16.0
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)									
MAY 2000									
16...	1710	ENVIRONMENTAL	30	759	105	10.3	7.8	227	23.0
SEP									
18...	1650	ENVIRONMENTAL	16	752	112	10.8	8.1	234	23.5
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)									
MAY 2000									
18...	1030	ENVIRONMENTAL	4.5	758	103	9.9	7.9	256	24.0
SEP									
25...	1320	ENVIRONMENTAL	4.6	759	102	10.1	8.3	305	17.0
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)									
MAY 2000									
16...	0850	ENVIRONMENTAL	7.8	764	108	10.9	7.8	456	18.0
SEP									
19...	1000	ENVIRONMENTAL	8.0	762	98	9.5	7.9	449	18.0
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)									
MAY 2000									
17...	1530	ENVIRONMENTAL	17	759	130	12.4	7.6	313	24.0
SEP									
18...	0950	ENVIRONMENTAL	10	760	96	9.7	7.8	274	20.0
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)									
MAY 2000									
18...	1540	ENVIRONMENTAL	--	751	118	10.6	8.1	373	26.5
SEP									
11...	1400	ENVIRONMENTAL	17	764	123	10.7	8.4	539	31.0
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)									
MAY 2000									
30...	1250	ENVIRONMENTAL	8.9	767	--	--	7.8	444	19.5
SEP									
11...	1010	ENVIRONMENTAL	5.4	764	101	9.1	7.8	480	24.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	17.0	120	30.9	10.8	1.9	10.1	89	109	--	20.4	<.1
SEP											
25...	16.0	140	35.2	12.3	3.3	13.2	104	127	--	29.0	.1
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	15.0	52	12.8	4.83	1.5	8.0	28	34	--	11.4	<.1
OCT											
02...	12.5	70	18.0	6.10	1.9	8.7	38	47	--	12.5	<.1
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	16.0	79	20.3	6.87	1.4	9.9	47	57	--	22.8	<.1
SEP											
18...	16.0	85	22.2	7.15	2.2	9.8	53	65	--	21.4	<.1
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	16.5	93	24.4	7.79	1.8	11.6	72	89	--	17.1	<.1
SEP											
25...	15.5	110	30.0	9.25	2.7	14.1	89	108	--	20.2	<.1
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	15.0	140	34.6	13.1	2.3	29.0	93	113	--	57.8	<.1
SEP											
19...	17.0	150	36.9	13.6	3.1	26.0	107	131	--	49.5	.1
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	17.5	110	24.6	11.7	2.2	13.0	69	84	--	33.6	<.1
SEP											
18...	14.5	100	22.5	10.6	2.8	11.1	62	76	--	26.2	<.1
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	19.5	120	27.4	12.1	2.7	19.3	64	78	--	49.9	<.1
SEP											
11...	22.0	130	30.3	12.7	3.4	46.9	66	78	1	97.8	<.1
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	15.5	140	35.5	13.2	3.7	23.6	65	79	--	66.0	<.1
SEP											
11...	20.5	150	35.9	13.8	3.8	27.1	65	79	--	70.9	<.1

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	12.5	15.9	.255	.19	.44	2.4	2.19	2.6	.123	.023	.018
SEP											
25...	15.1	18.2	<.020	.18	.20	2.3	2.14	2.3	<.010	.059	.052
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	15.2	16.0	.064	.26	.42	2.9	2.61	3.0	.012	.056	.045
OCT											
02...	19.0	17.5	<.041	.15	.18	3.2	3.01	3.2	E.005	.070	.062
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	17.3	15.4	<.020	.14	.23	1.9	1.81	2.0	<.010	.010	<.010
SEP											
18...	18.1	14.2	<.020	.16	.22	1.8	1.59	1.8	<.010	.023	.015
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	8.3	19.4	.020	.25	.31	1.0	.775	1.1	<.010	.030	.026
SEP											
25...	10.3	25.1	<.020	.17	.30	1.1	.883	1.2	<.010	.044	.040
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	8.3	32.3	.023	.26	.39	1.7	1.47	1.9	<.010	.050	.035
SEP											
19...	11.5	35.1	.020	.25	.29	1.8	1.56	1.8	<.010	.084	.071
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	15.7	19.9	.020	.20	.26	2.1	1.94	2.2	.010	.017	<.010
SEP											
18...	15.7	18.1	<.020	.15	.19	2.0	1.90	2.1	<.010	.034	.023
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	14.2	23.5	<.020	.16	.24	2.2	2.04	2.3	.016	.019	.012
SEP											
11...	12.8	25.6	<.020	.17	.17	2.0	1.84	2.0	<.010	.033	.020
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	13.8	33.3	.056	.21	.24	2.6	2.36	2.6	.029	.037	.026
SEP											
11...	11.6	37.8	<.020	.18	.20	2.5	2.28	2.5	.013	.048	.033

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	--	175	166	4	20	30	4	2.1	<.2	.77	3
SEP											
25...	.075	208	198	3	22	20	9	2.3	.2	.05	M
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	.078	109	98	10	E8	60	25	1.7	<.2	.26	7
OCT											
02...	.097	124	120	6	20	40	23	1.6	<.2	--	--
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	.020	141	130	4	<16	100	20	1.8	<.2	.34	4
SEP											
18...	.030	151	134	4	<16	60	16	2.0	<.2	.16	4
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	--	147	138	3	79	20	5	2.6	<.2	.04	3
SEP											
25...	.063	181	169	16	121	10	5	2.5	<.2	.04	3
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	.059	256	240	2	39	30	20	3.0	<.2	.05	2
SEP											
19...	.096	257	247	9	63	10	12	3.1	<.2	.05	2
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	.032	185	171	4	16	60	26	2.1	<.2	.23	5
SEP											
18...	.045	170	153	5	E12	20	11	2.2	<.2	.06	2
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	.033	214	197	2	E9	80	20	1.9	<.2	--	2
SEP											
11...	.040	288	277	1	20	30	8	1.5	<.2	.10	2
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	.056	257	239	2	20	80	25	1.7	<.2	.14	6
SEP											
11...	.065	261	250	1	30	20	16	1.8	<.2	.02	2

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	<.002	<.002	.364	<.002	<.002	E.019	<.003	<.004	<.004	<.002	E.078
SEP											
25...	<.002	<.002	.040	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.085
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	.014	<.002	.036	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.018
OCT											
02...	<.004	<.002	.009	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	<.002	E.004	.210	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.057
SEP											
18...	<.002	<.002	.015	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.046
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	<.002	<.002	.123	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.043
SEP											
25...	<.002	<.002	.052	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.073
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	.059	.007	.088	<.002	<.002	E.029	<.003	E.002	<.004	E.001	E.055
SEP											
19...	<.002	<.002	.015	<.002	<.002	E.046	<.003	<.004	<.004	E.002	E.016
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	.005	<.002	.049	E.004	<.002	E.009	<.003	<.004	<.004	<.002	E.030
SEP											
18...	<.002	<.002	.014	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.011
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	<.002	<.002	.034	<.002	<.002	E.008	<.003	<.004	<.004	<.002	E.022
SEP											
11...	<.002	<.002	.006	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.009
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	<.002	<.002	.065	E.001	<.002	E.007	<.003	E.003	<.004	E.001	E.019
SEP											
11...	<.002	<.002	.012	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.013

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.133	<.004	<.003
SEP											
25...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.017	<.004	<.003
OCT											
02...	<.005	<.005	<.002	<.003	<.004	<.035	<.027	<.050	E.004	<.006	<.007
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.092	<.004	<.003
SEP											
18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.038	<.004	<.003
SEP											
25...	E.003	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	.015	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.049	<.004	<.003
SEP											
19...	.011	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	.008	.010	<.002	<.003	<.004	<.002	<.005	<.010	.029	<.004	<.003
SEP											
18...	.006	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.019	<.004	<.003
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	.014	.019	<.002	<.003	<.004	<.002	<.005	<.001	.024	<.004	<.003
SEP											
11...	.005	.025	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	.008	.032	<.002	<.003	<.004	<.002	<.005	<.001	.024	<.004	<.003
SEP											
11...	.007	.033	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	<.006	<.004	<.018	<.003	<.007	<.004	.013	<.010	<.007	<.001	<.002
SEP											
25...	<.006	<.004	E.008	<.003	<.007	<.004	.008	<.010	<.007	<.001	<.002
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	<.006	.009	<.018	<.003	<.007	<.004	9.42	<.010	<.007	<.001	<.002
OCT											
02...	E.002	<.010	<.015	<.004	<.010	<.011	.027	<.016	<.034	<.002	E.001
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	<.006	.006	E.004	<.003	<.007	<.004	.040	<.010	<.007	<.001	<.002
SEP											
18...	<.006	<.004	E.004	<.003	<.007	<.004	.013	<.010	<.007	<.001	<.002
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	<.006	<.004	<.018	<.003	<.007	<.004	.043	<.010	<.007	<.001	<.002
SEP											
25...	<.006	<.004	E.012	<.003	<.007	<.004	.036	<.010	<.007	<.001	<.002
01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	<.006	.014	.033	.006	<.007	<.004	.041	E.010	<.007	<.001	E.002
SEP											
19...	<.006	<.004	.028	<.003	<.007	<.004	.014	E.009	<.007	<.001	<.002
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	<.006	.007	E.010	<.003	<.007	<.004	.015	<.010	<.007	<.001	E.004
SEP											
18...	<.006	<.004	E.008	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	<.006	<.004	E.015	<.003	<.007	<.004	.191	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.012	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	<.006	<.010	.018	<.003	<.007	<.004	.013	.017	<.007	<.001	E.001
SEP											
11...	<.006	.005	E.010	<.003	<.007	<.004	.010	.013	<.007	<.001	E.003

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
01475845		CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)							
MAY 2000									
17...	1800	ENVIRONMENTAL	15	757	115	11.0	7.7	206	20.5
SEP									
18...	1320	ENVIRONMENTAL	7.3	758	104	10.4	7.8	190	28.0
01476470		RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)							
MAY 2000									
18...	1250	ENVIRONMENTAL	31	756	102	9.8	7.8	238	27.5
SEP									
11...	1720	ENVIRONMENTAL	16	759	111	9.9	8.1	269	30.0
01476950		W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)							
MAY 2000									
18...	0920	ENVIRONMENTAL	21	758	107	10.5	7.6	280	23.5
SEP									
12...	1720	ENVIRONMENTAL	7.5	754	101	8.7	8.0	329	29.0
01478200		M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)							
MAY 2000									
15...	1620	ENVIRONMENTAL	16	761	108	10.4	7.8	216	21.0
SEP									
12...	0920	ENVIRONMENTAL	5.8	756	99	9.0	7.8	247	24.5
01479800		EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)							
MAY 2000									
15...	1210	ENVIRONMENTAL	10	762	108	10.6	7.8	347	18.0
SEP									
12...	1400	ENVIRONMENTAL	4.0	753	119	10.4	8.3	372	29.0
01480350		WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)							
MAY 2000									
16...	1710	ENVIRONMENTAL	18	751	107	10.2	7.8	232	19.0
SEP									
25...	1020	ENVIRONMENTAL	13	745	101	9.8	7.7	248	14.5
01480665		EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)							
MAY 2000									
16...	1420	ENVIRONMENTAL	22	752	131	12.6	8.1	189	--
SEP									
25...	0910	ENVIRONMENTAL	16	752	109	10.9	7.8	208	15.5
01480775		BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)							
MAY 2000									
16...	1110	ENVIRONMENTAL	17	762	103	10.7	7.9	304	22.0
SEP									
19...	0940	ENVIRONMENTAL	12	754	92	9.1	7.9	321	18.5

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	17.5	70	15.0	7.80	1.7	9.1	42	52	20.6	<.1	13.2
SEP											
18...	15.0	67	14.6	7.31	2.6	7.5	45	55	15.1	<.1	15.4
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	17.0	75	15.8	8.58	1.9	11.6	46	56	26.4	<.1	12.4
SEP											
11...	20.5	86	18.8	9.58	2.4	15.9	51	62	28.4	<.1	15.1
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	16.0	84	20.1	8.33	2.8	14.8	44	53	34.6	<.1	15.5
SEP											
12...	22.0	94	23.0	8.90	3.6	20.8	51	62	37.9	.1	15.3
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	17.0	71	16.7	7.15	3.2	9.0	39	48	17.2	<.1	12.3
SEP											
12...	19.5	81	19.1	8.13	3.5	10.4	45	55	18.2	<.1	13.0
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	16.0	120	30.4	11.5	4.0	11.7	73	89	29.4	.1	13.8
SEP											
12...	21.5	140	33.9	12.7	3.6	12.3	79	96	31.5	<.1	16.1
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	17.0	79	19.7	7.20	2.9	9.0	45	55	16.6	<.1	14.1
SEP											
25...	15.9	86	21.5	7.81	3.4	9.4	51	62	16.4	<.1	15.6
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	16.5	64	17.0	5.30	1.5	8.1	34	41	12.9	<.1	14.4
SEP											
25...	15.0	73	19.1	6.02	2.2	9.1	47	57	15.1	<.1	19.4
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	13.5	110	27.7	10.7	2.1	11.1	74	90	26.0	.1	10.5
SEP											
19...	15.5	130	33.4	11.8	2.7	10.3	86	105	23.7	<.1	10.5

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

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MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	11.3	<.020	.18	.22	1.9	1.71	1.9	<.010	.007	<.010	.026
SEP											
18...	11.5	<.020	.18	.19	1.8	1.58	1.8	<.010	.029	.020	.042
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	15.8	<.020	.19	.35	2.0	1.79	2.1	.010	.055	.048	.101
SEP											
11...	18.5	<.020	.15	.18	2.1	1.92	2.1	<.010	.133	.101	.144
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	18.5	<.020	.18	.24	2.6	2.40	2.6	.022	.064	.056	.090
SEP											
12...	23.7	<.020	.19	.22	4.7	4.52	4.7	<.010	.177	.153	.189
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	17.1	.043	.31	.39	4.3	3.98	4.4	.089	.105	.082	.122
SEP											
12...	17.4	<.020	.19	.28	5.4	5.17	5.5	<.010	.201	.172	.206
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	33.3	.026	.33	.43	3.1	2.79	3.2	.020	.046	.030	.041
SEP											
12...	35.5	<.020	.24	.25	3.2	2.96	3.2	<.010	.056	.044	.065
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	17.0	.068	.50	.57	4.0	3.48	4.1	.071	.073	.059	--
SEP											
25...	18.0	<.020	.25	.35	4.8	4.51	4.9	<.010	.081	.070	.127
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	15.3	<.020	.21	.30	3.0	2.82	3.1	<.010	.015	.012	.031
SEP											
25...	14.6	<.020	.19	.33	3.2	3.02	3.4	<.010	.029	.025	.042
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	21.5	<.020	.18	.21	3.3	3.16	3.4	<.010	.013	<.010	.022
SEP											
19...	22.0	.021	.11	.17	2.9	2.80	3.0	<.010	.025	.018	.034

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	121	112	3	18	50	8	1.8	<.2	.26	7	<.002
SEP											
18...	126	108	2	E7	40	8	2.2	<.2	.06	3	<.002
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	144	128	6	21	100	22	2.0	<.2	1.5	18	<.002
SEP											
11...	171	148	2	33	50	9	1.7	.2	.13	3	<.002
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	177	152	3	19	80	29	2.2	<.2	.28	5	<.002
SEP											
12...	188	184	3	43	30	14	2.5	<.2	.14	7	<.002
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	145	124	8	E15	40	12	3.1	<.2	.26	6	.355
SEP											
12...	144	140	1	20	10	4	1.7	.2	.03	2	<.002
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	213	191	3	E10	60	13	3.5	<.2	--	--	<.002
SEP											
12...	218	206	4	E14	E10	7	2.2	<.2	.02	2	<.002
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	154	129	23	E14	90	31	4.4	.4	.72	15	.006
SEP											
25...	157	143	9	E8	30	18	2.4	.4	.22	6	<.002
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	125	107	3	<16	30	6	2.4	<.2	.20	3	<.002
SEP											
25...	136	127	2	<16	20	7	2.1	<.2	.03	1	<.002
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	182	168	4	E10	40	13	2.0	<.2	.38	8	<.002
SEP											
19...	186	178	4	E15	20	15	1.8	<.2	.13	4	<.002

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	<.002	.032	<.002	<.002	E.014	<.003	<.004	.006	<.002	E.024	E.004
SEP											
18...	<.002	.006	<.002	<.002	E.019	<.003	<.004	<.004	<.002	E.018	.029
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	<.002	.049	<.002	<.002	<.003	<.003	<.004	.018	<.002	E.042	<.002
SEP											
11...	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.034	E.002
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	<.002	.064	<.002	<.002	E.029	<.003	<.004	<.004	<.002	E.052	<.002
SEP											
12...	<.002	.022	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.061	<.002
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	<.002	E4.91	<.002	<.002	<.003	<.003	.021	<.004	<.002	E.18	<.002
SEP											
12...	<.002	.020	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.13	E.002
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	<.002	.059	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.040	.015
SEP											
12...	<.002	.010	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.038	.006
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	.008	2.38	<.002	<.002	<.003	<.003	.024	<.004	<.002	E.14	E.003
SEP											
25...	E.002	.030	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.10	<.002
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	<.002	.502	<.002	<.002	E.003	<.003	<.004	<.004	<.002	E.12	<.002
SEP											
25...	<.002	.060	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.11	<.002
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	<.002	1.19	<.002	<.002	<.003	<.003	.008	<.004	<.002	E.16	<.002
SEP											
19...	<.002	.056	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.11	E.003

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.018	<.004	<.003	<.006
SEP											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.034	<.004	<.003	<.006
SEP											
11...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003	<.006
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.029	<.004	<.003	<.006
SEP											
12...	<.001	<.002	<.003	.015	<.002	<.005	<.001	.008	<.004	<.003	<.006
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.00	.104	<.003	<.006
SEP											
12...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.015	<.004	<.003	<.006
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.035	<.004	<.003	<.006
SEP											
12...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.33	.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.037	<.004	<.003	<.006
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.184	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.022	<.004	<.003	<.006
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.124	<.004	<.003	E.001
SEP											
19...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUTHYLAZINE, WATER, DISS, REC (UG/L) (04022)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	.005	E.010	<.003	<.007	<.004	.044	<.010	<.007	--	<.001	<.002
SEP											
18...	<.004	E.007	<.003	<.007	<.004	.013	<.010	<.007	--	<.001	<.002
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	<.004	<.018	<.003	<.007	<.004	.011	<.010	<.007	--	<.001	<.002
SEP											
11...	<.004	E.004	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	<.004	E.008	<.003	<.007	<.004	2.38	<.010	<.007	--	<.001	<.002
SEP											
12...	<.004	E.005	<.003	<.007	<.004	.047	<.010	<.007	E.004	<.001	<.002
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	.013	E.004	<.003	<.007	<.004	.024	<.010	<.007	--	<.001	<.002
SEP											
12...	<.004	<.018	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	.006	E.002	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	E.001
SEP											
12...	<.004	E.004	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	.117	<.018	<.003	<.007	<.004	.167	<.010	<.007	--	<.001	<.002
SEP											
25...	<.004	E.004	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	.017	E.005	<.003	<.007	<.004	.049	E.004	<.007	--	<.001	<.002
SEP											
25...	<.004	E.005	<.003	<.007	<.004	.924	<.010	<.007	--	<.001	<.002
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	.010	E.012	<.003	<.007	<.004	.018	<.010	<.007	--	<.001	<.002
SEP											
19...	<.004	.022	<.003	<.007	<.004	.014	<.010	<.007	--	<.001	E.004

DATE	TIME	SAMPLE TYPE	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)									
MAY 2000									
16...	0840	ENVIRONMENTAL	14	763	--	--	7.6	433	--
SEP									
19...	0810	ENVIRONMENTAL	8.8	754	95	9.3	8.0	491	17.5

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	--	160	35.5	17.1	2.1	16.9	105	128	37.0	<.1	6.3
SEP											
19...	16.0	210	41.9	24.7	4.1	17.0	113	138	37.9	<.1	5.9

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	34.6	.024	.13	.20	2.3	2.13	2.3	.015	.016	.015	.024
SEP											
19...	64.6	<.020	.11	.14	2.0	1.90	2.0	<.010	.028	.022	.033

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SUSPENDED (MG/L) (80154)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	236	222	--	16	20	6	1.5	<.2	.12	3	<.002
SEP											
19...	292	272	4	29	E10	4	1.6	<.2	.07	3	<.002

DATE	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	<.002	.048	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.061	.005
SEP											
19...	<.002	.020	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.045	.156

DATE	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.034	<.004	<.003	<.006
SEP											
19...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued
MAY 15 THROUGH JUNE 27, AND SEPTEMBER 11 THROUGH OCTOBER 16, 2000

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000										
16...	.011	E.013	<.003	<.007	<.004	.019	E.006	<.007	<.001	<.002
SEP										
19...	<.004	E.018	<.003	<.007	<.004	.013	E.004	<.007	<.001	<.002

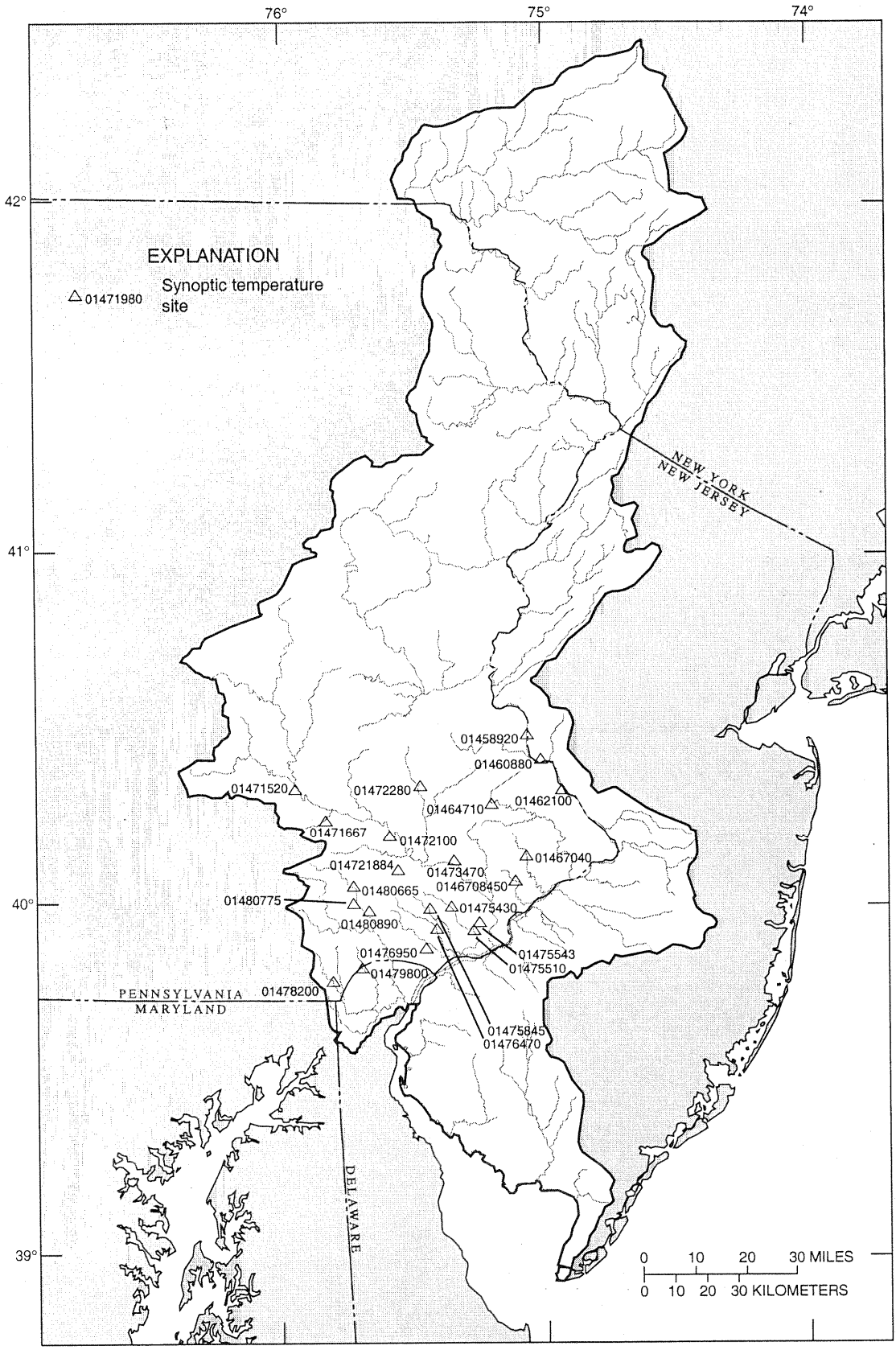

Figure 43. Location of Delaware River National Water-Quality Assessment Program synoptic temperature sites.

WATER QUALITY AT MISCELLANEOUS SITES

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

Continuous water-temperature data were collected at the Delaware River Basin National Water Quality Assessment synoptic sites from July 17 through September 30, 2000. These data were collected to coincide with ecological data that were being collected during that time frame at most of these sites. Each site was instrumented with an, in situ, submersible, water-temperature logger that was programmed to record every 30 minutes. Additional water-quality data for these sites can be found on pages 508 and 520.

01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01460880 LOCKATONG CREEK AT RAVEN ROCK, NJ (LAT 40 24 58N LONG 075 01 05W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.0	22.0	22.5	24.0	22.0	23.0
2	---	---	---	---	---	---	24.0	21.5	22.5	24.5	22.5	23.5
3	---	---	---	---	---	---	24.0	22.5	23.0	24.0	23.0	23.5
4	---	---	---	---	---	---	23.0	21.5	22.5	24.0	22.0	23.0
5	---	---	---	---	---	---	22.5	20.0	21.5	22.5	17.5	19.5
6	---	---	---	---	---	---	21.0	19.0	20.0	18.0	15.5	17.0
7	---	---	---	---	---	---	23.5	20.0	22.0	18.0	15.5	16.5
8	---	---	---	---	---	---	24.5	21.5	23.0	18.0	15.5	17.0
9	---	---	---	---	---	---	25.0	22.5	23.5	20.0	17.0	18.5
10	---	---	---	---	---	---	25.0	23.0	24.0	21.0	19.0	20.0
11	---	---	---	---	---	---	24.0	22.0	23.0	---	---	---
12	---	---	---	---	---	---	22.5	19.0	20.5	---	---	---
13	---	---	---	---	---	---	19.5	19.0	19.0	---	---	---
14	---	---	---	---	---	---	19.0	18.5	19.0	---	---	---
15	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	22.5	19.5	21.0	---	---	---
17	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	23.5	20.0	21.5	19.5	18.0	19.0	---	---	---
19	---	---	---	21.5	19.0	20.0	20.0	17.0	18.5	---	---	---
20	---	---	---	21.0	18.0	19.5	19.0	17.0	18.0	---	---	---
21	---	---	---	21.5	18.0	19.5	18.5	16.0	17.5	---	---	---
22	---	---	---	22.0	19.5	20.5	19.0	16.0	17.5	---	---	---
23	---	---	---	21.0	19.0	20.0	18.5	17.0	18.0	---	---	---
24	---	---	---	20.0	19.0	19.5	20.5	18.0	19.0	---	---	---
25	---	---	---	20.5	19.0	19.5	20.5	18.0	19.5	---	---	---
26	---	---	---	19.5	19.0	19.5	20.0	18.0	19.0	---	---	---
27	---	---	---	20.5	19.0	20.0	20.5	18.5	19.5	---	---	---
28	---	---	---	22.0	19.5	20.5	21.0	20.0	20.5	---	---	---
29	---	---	---	21.5	20.0	21.0	21.0	20.5	21.0	---	---	---
30	---	---	---	23.0	20.5	21.5	22.0	19.5	21.0	---	---	---
31	---	---	---	24.0	21.5	23.0	23.0	21.0	22.0	---	---	---
MONTH	---	---	---	24.0	18.0	20.5	25.0	16.0	20.5	24.5	15.5	20.0

01462100 PIDCOCK CREEK NEAR NEW HOPE, PA (LAT 40 19 46N LONG 074 56 14W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	21.5	22.5	24.5	22.5	23.0
2	---	---	---	---	---	---	23.5	21.5	22.5	25.0	23.0	24.0
3	---	---	---	---	---	---	23.5	22.0	22.5	24.0	23.0	23.5
4	---	---	---	---	---	---	22.5	21.5	22.0	24.0	22.0	23.0
5	---	---	---	---	---	---	22.0	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	21.0	19.5	20.0	18.5	16.5	17.5
7	---	---	---	---	---	---	23.5	20.0	21.5	18.0	15.0	16.5
8	---	---	---	---	---	---	24.0	22.0	23.0	18.0	15.0	16.5
9	---	---	---	---	---	---	25.0	23.0	24.0	19.5	17.0	18.0
10	---	---	---	---	---	---	25.5	23.5	24.0	21.0	18.5	20.0
11	---	---	---	---	---	---	24.0	22.5	23.0	21.5	19.5	20.5
12	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
13	---	---	---	---	---	---	20.0	19.5	19.5	---	---	---
14	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
15	---	---	---	---	---	---	21.0	18.5	19.5	---	---	---
16	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	24.5	20.5	22.0	19.5	18.0	19.0	---	---	---
19	---	---	---	22.0	19.0	20.5	19.5	17.5	18.5	---	---	---
20	---	---	---	22.5	18.5	20.0	20.0	18.0	18.5	---	---	---
21	---	---	---	23.5	18.0	20.5	19.5	17.0	18.0	---	---	---
22	---	---	---	24.0	19.5	21.5	19.5	16.5	18.0	---	---	---
23	---	---	---	23.0	19.0	21.0	18.5	17.5	18.5	---	---	---
24	---	---	---	21.0	20.0	20.5	20.5	18.5	19.0	---	---	---
25	---	---	---	21.5	19.5	20.5	21.5	18.5	20.0	---	---	---
26	---	---	---	20.5	19.5	19.5	21.5	18.5	20.0	---	---	---
27	---	---	---	20.5	19.5	20.5	21.5	19.0	20.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.5	20.5	21.0	---	---	---
29	---	---	---	22.0	20.5	21.5	21.5	20.5	21.0	---	---	---
30	---	---	---	23.5	21.0	22.0	22.0	20.0	21.0	---	---	---
31	---	---	---	25.0	22.5	23.5	23.5	21.5	22.0	---	---	---
MONTH	---	---	---	25.0	18.0	21.0	25.5	16.5	20.5	25.0	15.0	20.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01464710 PINE RUN AT CHALFONT, PA (LAT 40 17 20N LONG 075 12 11W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	26.5	24.5	25.5	26.0	24.5	25.0
2	---	---	---	---	---	---	26.0	24.5	25.0	26.5	24.0	25.0
3	---	---	---	---	---	---	25.5	23.0	25.0	26.0	24.0	24.5
4	---	---	---	---	---	---	25.5	23.0	24.5	26.0	23.0	24.5
5	---	---	---	---	---	---	24.0	22.5	23.5	23.0	18.0	20.5
6	---	---	---	---	---	---	24.0	22.0	22.5	20.0	16.5	18.0
7	---	---	---	---	---	---	25.0	22.5	23.5	19.5	15.0	17.5
8	---	---	---	---	---	---	26.0	24.0	25.0	19.5	15.5	17.5
9	---	---	---	---	---	---	26.5	24.5	25.5	22.0	18.0	19.5
10	---	---	---	---	---	---	27.0	25.0	26.0	22.0	19.5	21.0
11	---	---	---	---	---	---	26.0	23.5	25.0	23.0	20.5	21.5
12	---	---	---	---	---	---	24.5	22.0	23.0	23.5	21.0	22.0
13	---	---	---	---	---	---	22.0	21.0	21.5	23.5	21.0	22.0
14	---	---	---	---	---	---	21.0	20.0	20.5	22.5	20.5	21.5
15	---	---	---	---	---	---	24.0	20.5	22.0	22.5	20.5	21.5
16	---	---	---	---	---	---	24.0	22.0	22.5	21.0	18.5	19.5
17	---	---	---	---	---	---	22.5	20.5	21.5	19.0	17.5	18.0
18	---	---	---	---	---	---	21.0	20.0	20.5	19.0	17.5	18.0
19	---	---	---	22.0	19.0	20.5	21.5	19.0	20.0	19.5	18.0	18.5
20	---	---	---	22.5	18.5	20.5	21.5	19.0	20.0	20.5	18.5	19.5
21	---	---	---	23.0	18.0	20.5	21.5	18.0	19.5	20.5	19.0	20.0
22	---	---	---	23.5	20.0	21.5	21.5	17.5	19.5	19.0	18.0	18.5
23	---	---	---	22.5	19.0	21.0	20.5	18.5	20.0	18.5	18.0	18.5
24	---	---	---	21.5	20.0	20.5	22.5	19.5	21.0	19.5	18.5	19.0
25	---	---	---	22.5	19.5	21.0	23.0	19.5	21.0	---	---	---
26	---	---	---	20.5	20.0	20.5	23.0	18.5	21.0	---	---	---
27	---	---	---	22.0	20.5	21.5	23.0	19.5	21.0	---	---	---
28	---	---	---	23.5	21.5	22.0	25.0	22.0	23.5	---	---	---
29	---	---	---	23.0	21.5	22.5	23.5	22.0	23.0	---	---	---
30	---	---	---	25.0	22.0	23.0	23.5	21.0	22.0	---	---	---
31	---	---	---	26.5	23.0	25.0	24.5	22.0	23.0	---	---	---
MONTH	---	---	---	26.5	18.0	21.5	27.0	17.5	22.5	26.5	15.0	20.5

01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	24.0	22.0	23.0	25.0	23.0	24.0
2	---	---	---	---	---	---	24.0	22.0	23.0	25.0	23.5	24.0
3	---	---	---	---	---	---	23.5	22.5	23.0	25.0	23.0	24.0
4	---	---	---	---	---	---	23.0	22.0	22.5	24.0	23.0	23.5
5	---	---	---	---	---	---	22.5	20.5	21.5	23.0	19.0	20.5
6	---	---	---	---	---	---	21.0	19.5	20.5	19.0	17.0	18.0
7	---	---	---	---	---	---	24.0	21.0	22.5	19.0	17.0	18.0
8	---	---	---	---	---	---	24.0	22.5	23.5	19.5	17.5	18.5
9	---	---	---	---	---	---	24.5	22.5	23.5	21.5	19.0	20.5
10	---	---	---	---	---	---	24.5	23.0	23.5	22.5	21.0	21.5
11	---	---	---	---	---	---	23.5	22.0	22.5	22.5	21.0	22.0
12	---	---	---	---	---	---	22.5	20.5	21.5	23.0	21.5	22.0
13	---	---	---	---	---	---	20.5	19.5	20.0	23.0	21.0	22.5
14	---	---	---	---	---	---	19.5	19.0	19.5	21.0	19.5	20.5
15	---	---	---	---	---	---	21.5	19.0	20.5	21.0	19.5	20.5
16	---	---	---	---	---	---	22.5	20.5	21.5	19.5	17.5	18.5
17	---	---	---	---	---	---	21.0	19.5	20.5	18.0	16.0	17.5
18	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
19	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
20	---	---	---	---	---	---	19.5	18.0	19.0	---	---	---
21	---	---	---	---	---	---	19.5	17.0	18.5	---	---	---
22	---	---	---	23.0	21.0	22.0	20.0	17.5	19.0	---	---	---
23	---	---	---	22.5	20.5	21.5	20.0	19.0	19.5	---	---	---
24	---	---	---	21.5	21.0	21.5	21.0	19.5	20.5	---	---	---
25	---	---	---	21.5	20.5	21.0	21.5	19.5	21.0	---	---	---
26	---	---	---	21.0	19.5	20.5	21.5	19.5	20.5	---	---	---
27	---	---	---	21.5	21.0	21.5	22.0	20.0	21.0	---	---	---
28	---	---	---	22.0	21.0	21.5	22.5	21.5	22.0	---	---	---
29	---	---	---	22.0	21.5	22.0	22.0	21.5	21.5	---	---	---
30	---	---	---	23.5	22.0	22.5	23.5	20.5	22.0	---	---	---
31	---	---	---	24.5	22.0	23.0	23.5	22.5	23.0	---	---	---
MONTH	---	---	---	24.5	19.5	21.5	24.5	17.0	21.0	25.0	16.0	21.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.5	23.0	24.5	22.0	23.0
2	---	---	---	---	---	---	24.0	21.5	22.5	24.5	23.0	23.5
3	---	---	---	---	---	---	23.0	22.0	22.5	25.0	22.0	23.0
4	---	---	---	---	---	---	22.5	21.0	22.0	24.0	22.0	23.0
5	---	---	---	---	---	---	22.5	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	20.0	18.5	19.5	18.5	16.0	17.0
7	---	---	---	---	---	---	24.5	20.0	22.0	18.5	15.5	17.0
8	---	---	---	---	---	---	24.5	22.0	23.0	19.5	16.0	17.5
9	---	---	---	---	---	---	24.5	22.0	23.0	21.0	18.0	19.5
10	---	---	---	---	---	---	24.5	22.0	23.0	22.0	19.5	20.5
11	---	---	---	---	---	---	23.0	20.5	22.0	22.0	20.0	21.0
12	---	---	---	---	---	---	21.0	19.5	20.0	22.5	20.0	21.0
13	---	---	---	---	---	---	19.5	18.5	19.0	23.0	20.5	22.0
14	---	---	---	---	---	---	19.5	18.5	19.0	21.0	18.5	20.0
15	---	---	---	---	---	---	22.0	18.5	20.0	21.0	18.5	20.0
16	---	---	---	---	---	---	22.5	20.0	21.0	18.5	16.0	17.5
17	---	---	---	---	---	---	21.0	18.5	19.5	17.5	15.0	16.5
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	20.0	17.5	18.5	---	---	---
20	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
21	---	---	---	---	---	---	19.5	16.0	17.5	---	---	---
22	---	---	---	22.5	19.5	20.5	20.0	16.0	18.0	---	---	---
23	---	---	---	22.0	18.5	20.0	19.5	18.0	18.5	---	---	---
24	---	---	---	20.0	19.0	19.5	20.5	18.5	19.5	---	---	---
25	---	---	---	20.0	19.0	19.5	21.5	18.5	20.0	---	---	---
26	---	---	---	21.0	19.0	19.5	21.5	18.5	20.0	---	---	---
27	---	---	---	21.0	20.0	20.5	21.5	19.0	20.5	---	---	---
28	---	---	---	21.5	19.5	20.5	22.5	20.0	21.0	---	---	---
29	---	---	---	20.5	19.5	20.0	22.0	20.5	21.0	---	---	---
30	---	---	---	22.5	20.0	21.0	22.0	20.0	21.0	---	---	---
31	---	---	---	24.5	22.5	23.0	22.5	20.5	21.5	---	---	---
MONTH	---	---	---	24.5	18.5	20.5	24.5	16.0	20.5	25.0	15.0	20.0

01471520 WYOMISSING CREEK AT WEST READING, PA (LAT 40 19 41N LONG 075 56 41W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	21.5	19.6	20.5	21.5	19.3	20.0
2	---	---	---	---	---	---	21.5	19.3	20.5	21.5	19.9	20.5
3	---	---	---	---	---	---	21.0	19.9	20.5	20.5	19.6	20.0
4	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.3	20.0
5	---	---	---	---	---	---	20.5	17.5	19.0	20.0	16.3	17.5
6	---	---	---	---	---	---	18.5	16.6	17.5	16.5	13.7	15.0
7	---	---	---	---	---	---	21.5	18.0	19.5	16.5	13.7	15.0
8	---	---	---	---	---	---	22.0	19.5	20.5	16.5	14.1	15.5
9	---	---	---	---	---	---	22.0	19.6	21.0	18.5	15.8	17.0
10	---	---	---	---	---	---	22.0	19.6	20.5	19.5	17.2	18.5
11	---	---	---	---	---	---	21.0	18.8	20.0	19.0	17.8	18.5
12	---	---	---	---	---	---	19.5	18.2	19.0	20.0	18.2	19.0
13	---	---	---	---	---	---	18.0	17.4	18.0	20.5	18.3	19.5
14	---	---	---	---	---	---	17.5	17.2	17.5	18.5	15.8	17.0
15	---	---	---	---	---	---	20.0	16.6	18.0	18.5	16.7	18.0
16	---	---	---	---	---	---	21.0	18.2	19.5	16.5	14.5	15.5
17	---	---	---	---	---	---	19.0	16.7	18.0	15.5	12.7	14.0
18	---	---	---	---	---	---	18.0	16.4	17.0	16.0	13.4	14.5
19	---	---	---	19.5	16.4	17.5	18.0	15.6	17.0	16.5	14.8	15.5
20	---	---	---	19.0	15.9	17.5	18.0	15.3	16.5	18.0	15.5	17.0
21	---	---	---	19.5	15.8	17.5	17.5	14.1	16.0	18.0	16.3	17.5
22	---	---	---	20.0	17.2	18.5	17.5	14.4	16.0	16.5	13.9	15.0
23	---	---	---	19.5	16.3	18.0	17.5	16.3	17.0	15.5	14.2	15.0
24	---	---	---	18.0	16.9	17.0	18.5	16.7	17.5	16.5	15.5	16.0
25	---	---	---	19.0	16.6	18.0	19.5	16.6	18.0	---	---	---
26	---	---	---	18.5	17.2	17.5	19.0	15.9	17.5	---	---	---
27	---	---	---	18.5	17.2	18.0	19.0	16.6	18.0	---	---	---
28	---	---	---	20.5	17.5	19.0	20.0	17.8	18.5	---	---	---
29	---	---	---	19.5	18.5	19.0	19.0	18.2	18.5	---	---	---
30	---	---	---	20.5	18.5	19.5	20.0	17.8	19.0	---	---	---
31	---	---	---	21.5	19.1	20.5	20.5	19.1	20.0	---	---	---
MONTH	---	---	---	21.5	15.8	18.5	22.0	14.1	18.5	21.5	12.7	17.0

01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.0	22.0
2	---	---	---	---	---	---	24.0	21.0	22.5	23.5	21.5	22.5
3	---	---	---	---	---	---	23.0	21.0	22.5	23.0	22.0	22.5
4	---	---	---	---	---	---	22.0	20.5	21.5	23.0	21.0	22.0
5	---	---	---	---	---	---	22.0	19.0	20.5	22.0	17.5	19.0
6	---	---	---	---	---	---	20.5	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	23.0	19.5	21.0	17.0	14.5	16.0
8	---	---	---	---	---	---	24.0	20.5	22.0	18.0	15.0	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	20.0	17.0	18.5
10	---	---	---	---	---	---	24.0	22.0	23.0	20.5	18.5	19.5
11	---	---	---	---	---	---	23.0	21.0	22.0	20.5	19.0	20.0
12	---	---	---	---	---	---	21.5	20.0	20.5	21.5	19.5	20.5
13	---	---	---	---	---	---	20.0	19.0	19.0	21.5	19.5	21.0
14	---	---	---	---	---	---	19.0	18.0	18.5	19.5	17.5	18.5
15	---	---	---	---	---	---	21.5	17.5	19.5	19.5	17.5	18.5
16	---	---	---	---	---	---	22.0	20.0	21.0	17.5	15.5	16.5
17	---	---	---	---	---	---	21.0	18.5	19.5	16.0	13.5	15.0
18	---	---	---	---	---	---	19.5	17.5	18.5	16.5	14.0	15.5
19	---	---	---	21.5	17.5	19.0	19.5	17.0	18.0	17.0	15.5	16.5
20	---	---	---	20.0	17.0	18.5	19.0	17.0	18.0	19.0	16.0	17.5
21	---	---	---	21.0	17.5	19.0	18.5	15.5	17.5	19.0	17.5	18.5
22	---	---	---	21.5	18.5	20.0	19.0	15.5	17.5	17.5	15.0	16.5
23	---	---	---	20.5	18.0	19.5	18.5	17.5	18.0	16.5	15.0	15.5
24	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	17.5	16.0	16.5
25	---	---	---	20.0	18.0	19.0	20.5	17.5	19.0	17.0	14.0	15.5
26	---	---	---	19.5	18.0	18.5	20.0	17.5	19.0	14.0	13.0	13.5
27	---	---	---	19.5	18.0	19.0	20.5	18.0	19.0	15.0	12.0	13.5
28	---	---	---	21.5	19.0	20.0	21.0	19.0	20.0	14.5	12.5	13.5
29	---	---	---	21.5	20.0	20.5	20.5	19.5	20.0	13.0	11.0	12.5
30	---	---	---	22.0	20.5	21.0	21.0	19.5	20.0	13.5	10.0	11.5
31	---	---	---	23.0	21.0	22.0	22.0	20.0	21.0	---	---	---
MONTH	---	---	---	23.0	17.0	19.5	24.0	15.5	20.0	23.5	10.0	17.5

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

014721884 PICKERING CREEK AT CHARLESTOWN ROAD BRIDGE AT CHARLESTOWN, PA (LAT 40 05 57N LONG 075 33 20W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.5	21.0	21.5	22.5	20.5	21.5
2	---	---	---	---	---	---	23.0	21.0	22.0	23.5	21.0	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	21.0	22.0
5	---	---	---	---	---	---	21.5	19.0	20.5	21.5	17.0	19.0
6	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	22.5	19.5	20.5	17.0	14.5	16.0
8	---	---	---	---	---	---	23.5	21.0	22.0	17.5	15.0	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	19.5	16.5	18.0
10	---	---	---	---	---	---	24.0	22.0	23.0	20.0	18.0	19.0
11	---	---	---	---	---	---	22.5	21.0	21.5	20.5	18.5	19.5
12	---	---	---	---	---	---	21.5	15.0	20.0	21.5	19.5	20.0
13	---	---	---	---	---	---	18.0	16.0	17.0	20.5	19.5	20.0
14	---	---	---	---	---	---	18.0	17.5	18.0	19.5	17.0	18.5
15	---	---	---	---	---	---	20.0	17.5	19.0	19.0	17.5	18.5
16	---	---	---	---	---	---	21.5	19.5	20.5	17.5	15.5	16.5
17	---	---	---	---	---	---	20.0	18.5	19.5	16.0	14.0	15.0
18	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
19	---	---	---	21.0	17.5	19.0	19.0	16.5	17.5	---	---	---
20	---	---	---	20.0	17.0	18.5	19.0	16.5	17.5	---	---	---
21	---	---	---	20.5	17.0	19.0	18.0	15.5	17.0	---	---	---
22	---	---	---	21.5	18.5	20.0	18.0	15.5	17.0	---	---	---
23	---	---	---	21.0	18.0	19.5	18.0	17.0	17.5	---	---	---
24	---	---	---	19.5	18.5	19.0	19.5	17.5	18.5	---	---	---
25	---	---	---	19.5	17.5	18.5	20.0	17.5	19.0	---	---	---
26	---	---	---	19.0	18.0	18.5	19.5	17.0	18.5	---	---	---
27	---	---	---	19.5	18.0	18.5	20.0	18.0	19.0	---	---	---
28	---	---	---	21.0	18.5	20.0	21.0	19.0	20.0	---	---	---
29	---	---	---	21.0	20.0	20.5	20.0	19.5	20.0	---	---	---
30	---	---	---	22.0	20.0	21.0	21.0	19.0	20.0	---	---	---
31	---	---	---	23.0	20.5	21.5	21.5	20.0	20.5	---	---	---
MONTH	---	---	---	23.0	17.0	19.5	24.0	15.0	19.5	23.5	14.0	19.0

01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01473470 STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.0	23.0	24.5	22.0	23.0
2	---	---	---	---	---	---	24.5	22.0	23.5	25.0	22.5	23.5
3	---	---	---	---	---	---	23.5	22.0	23.0	25.5	23.0	23.5
4	---	---	---	---	---	---	23.0	21.5	22.5	24.5	22.5	23.0
5	---	---	---	---	---	---	23.0	20.0	21.5	22.5	18.5	20.5
6	---	---	---	---	---	---	20.5	19.5	20.0	19.5	16.5	18.0
7	---	---	---	---	---	---	24.5	20.0	22.0	19.0	16.0	17.5
8	---	---	---	---	---	---	25.0	22.0	23.5	19.0	16.0	17.5
9	---	---	---	---	---	---	25.0	22.5	24.0	21.0	17.5	19.0
10	---	---	---	---	---	---	25.5	23.0	24.0	21.5	19.0	20.0
11	---	---	---	---	---	---	24.0	21.5	23.0	21.5	20.0	20.5
12	---	---	---	---	---	---	22.5	20.5	21.0	22.5	20.0	21.5
13	---	---	---	---	---	---	20.5	19.5	20.0	23.0	20.5	22.0
14	---	---	---	---	---	---	19.5	19.0	19.5	21.0	18.5	20.0
15	---	---	---	---	---	---	22.0	19.0	20.5	21.0	18.5	20.0
16	---	---	---	---	---	---	23.5	20.0	21.5	18.5	16.5	17.5
17	---	---	---	---	---	---	21.5	19.0	20.5	18.0	15.0	16.0
18	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
19	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
20	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
21	---	---	---	23.0	18.5	20.5	20.0	16.5	18.0	---	---	---
22	---	---	---	24.0	20.0	21.5	20.0	16.5	18.0	---	---	---
23	---	---	---	22.5	20.0	21.0	19.5	18.0	19.0	---	---	---
24	---	---	---	21.0	20.0	20.5	20.5	18.5	19.5	---	---	---
25	---	---	---	21.0	19.5	20.5	22.0	18.5	20.0	---	---	---
26	---	---	---	20.5	19.5	20.0	22.0	18.5	20.0	---	---	---
27	---	---	---	21.0	20.5	20.5	21.5	19.0	20.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.0	20.0	21.0	---	---	---
29	---	---	---	22.0	20.5	21.0	21.5	20.5	21.0	---	---	---
30	---	---	---	23.5	21.0	22.0	23.0	20.0	21.0	---	---	---
31	---	---	---	24.5	21.5	23.0	24.0	21.0	22.0	---	---	---
MONTH	---	---	---	24.5	18.5	21.0	25.5	16.5	21.0	25.5	15.0	20.0

01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.0	21.5	22.0	22.5	21.0	22.0
2	---	---	---	---	---	---	23.5	21.0	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.5	22.0
4	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
5	---	---	---	---	---	---	22.0	19.5	20.5	21.5	17.0	19.0
6	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	22.5	19.5	21.0	17.0	14.5	16.0
8	---	---	---	---	---	---	23.5	21.0	22.0	17.5	14.5	16.0
9	---	---	---	---	---	---	24.0	21.5	22.5	19.5	16.5	18.0
10	---	---	---	---	---	---	24.0	22.0	23.0	20.0	18.0	19.0
11	---	---	---	---	---	---	23.0	21.0	22.0	20.0	19.0	19.5
12	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.0	20.0
13	---	---	---	---	---	---	19.5	19.0	19.0	21.0	19.5	20.5
14	---	---	---	---	---	---	19.0	18.5	18.5	19.5	17.5	18.5
15	---	---	---	---	---	---	21.0	18.5	19.5	19.5	18.0	19.0
16	---	---	---	---	---	---	22.0	19.5	20.5	18.0	15.5	16.5
17	---	---	---	---	---	---	20.0	18.0	19.5	16.0	14.0	15.0
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
20	---	---	---	---	---	---	19.0	17.0	17.5	---	---	---
21	---	---	---	21.0	17.5	19.0	18.5	15.5	17.0	---	---	---
22	---	---	---	21.5	19.0	20.0	18.5	15.5	17.0	---	---	---
23	---	---	---	20.5	18.0	19.5	18.5	17.0	18.0	---	---	---
24	---	---	---	19.5	19.0	19.5	20.0	18.0	19.0	---	---	---
25	---	---	---	19.5	19.0	19.0	20.5	18.0	19.0	---	---	---
26	---	---	---	20.0	18.5	19.0	20.0	17.5	18.5	---	---	---
27	---	---	---	20.5	19.5	20.0	20.5	18.0	19.0	---	---	---
28	---	---	---	20.5	19.0	20.0	20.5	19.0	20.0	---	---	---
29	---	---	---	20.5	19.5	20.0	20.5	19.5	20.0	---	---	---
30	---	---	---	23.0	20.0	21.0	21.0	19.0	20.0	---	---	---
31	---	---	---	23.0	21.5	22.0	22.5	20.0	21.0	---	---	---
MONTH	---	---	---	23.0	17.5	20.0	24.0	15.5	20.0	23.0	14.0	19.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01475510 DARBY CREEK NEAR DARBY, PA (LAT 39 55 44N LONG 075 16 22W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	24.5	23.0	23.5	24.5	22.0	23.0
2	---	---	---	---	---	---	25.0	22.5	24.0	25.5	23.0	24.0
3	---	---	---	---	---	---	24.0	23.0	23.5	25.0	23.5	24.0
4	---	---	---	---	---	---	23.5	21.5	22.5	24.5	22.5	23.5
5	---	---	---	---	---	---	23.5	21.0	22.0	22.5	18.5	20.5
6	---	---	---	---	---	---	22.0	20.0	21.0	19.0	17.0	18.0
7	---	---	---	---	---	---	24.0	21.0	22.5	19.0	16.0	17.5
8	---	---	---	---	---	---	25.5	22.5	24.0	19.5	16.5	18.0
9	---	---	---	---	---	---	26.0	23.5	24.5	21.5	18.0	19.5
10	---	---	---	---	---	---	26.0	23.5	25.0	23.0	19.5	21.0
11	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
12	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
13	---	---	---	---	---	---	21.5	20.0	20.5	---	---	---
14	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
15	---	---	---	---	---	---	22.0	18.5	20.5	---	---	---
16	---	---	---	---	---	---	23.5	21.0	22.0	---	---	---
17	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
18	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
19	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
20	---	---	---	21.0	18.0	19.5	20.0	18.0	19.0	---	---	---
21	---	---	---	23.0	19.0	21.0	20.0	17.0	18.5	---	---	---
22	---	---	---	23.5	20.0	22.0	20.5	17.0	19.0	---	---	---
23	---	---	---	23.0	20.0	21.5	20.0	18.5	19.5	---	---	---
24	---	---	---	21.5	20.5	21.0	21.5	19.0	20.0	---	---	---
25	---	---	---	21.0	19.5	20.5	22.5	19.5	21.0	---	---	---
26	---	---	---	20.5	19.0	20.0	22.0	19.5	21.0	---	---	---
27	---	---	---	21.0	20.5	20.5	22.5	19.5	21.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.5	21.0	21.5	---	---	---
29	---	---	---	22.5	20.5	21.5	22.0	21.0	21.5	---	---	---
30	---	---	---	24.0	21.0	22.5	23.0	20.5	21.5	---	---	---
31	---	---	---	25.5	22.5	23.5	23.5	22.0	22.5	---	---	---
MONTH	---	---	---	25.5	18.0	21.0	26.0	17.0	21.5	25.5	16.0	21.0

01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	24.5	23.0	24.0	24.0	23.0	23.5
2	---	---	---	---	---	---	25.0	23.5	24.0	24.5	23.5	24.0
3	---	---	---	---	---	---	24.5	23.5	23.5	24.0	23.5	24.0
4	---	---	---	---	---	---	23.5	22.0	23.0	24.0	23.0	23.5
5	---	---	---	---	---	---	23.0	21.5	22.5	23.0	19.0	21.0
6	---	---	---	---	---	---	22.0	20.5	21.0	19.0	17.5	18.5
7	---	---	---	---	---	---	23.5	21.0	22.5	19.0	17.0	18.0
8	---	---	---	---	---	---	25.0	23.0	24.0	19.0	17.5	18.0
9	---	---	---	---	---	---	26.0	24.0	25.0	21.0	18.5	19.5
10	---	---	---	---	---	---	26.0	24.0	25.0	21.5	20.0	21.0
11	---	---	---	---	---	---	24.5	23.0	24.0	---	---	---
12	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
13	---	---	---	---	---	---	21.5	20.5	21.0	---	---	---
14	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
15	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
16	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
17	---	---	---	---	---	---	22.0	20.5	21.0	---	---	---
18	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
19	---	---	---	---	---	---	20.0	18.5	19.5	---	---	---
20	---	---	---	21.0	18.5	19.5	20.0	19.0	19.5	---	---	---
21	---	---	---	22.0	19.5	21.0	19.5	18.0	19.0	---	---	---
22	---	---	---	22.5	20.5	21.5	20.0	18.0	19.0	---	---	---
23	---	---	---	22.0	20.5	21.5	20.0	19.0	19.5	---	---	---
24	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5	---	---	---
25	---	---	---	21.0	20.5	20.5	21.5	20.0	21.0	---	---	---
26	---	---	---	21.5	19.5	20.5	21.5	20.0	21.0	---	---	---
27	---	---	---	21.5	21.0	21.5	23.0	20.5	21.5	---	---	---
28	---	---	---	22.0	21.0	21.5	22.0	21.5	22.0	---	---	---
29	---	---	---	22.0	21.5	22.0	22.0	21.5	22.0	---	---	---
30	---	---	---	23.5	21.5	22.5	25.0	21.0	22.0	---	---	---
31	---	---	---	24.5	22.5	24.0	24.0	22.5	23.0	---	---	---
MONTH	---	---	---	24.5	18.5	21.5	26.0	18.0	22.0	24.5	17.0	21.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.0	21.5
2	---	---	---	---	---	---	23.0	21.5	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.5	22.0
4	---	---	---	---	---	---	22.0	21.5	21.5	22.5	21.0	21.5
5	---	---	---	---	---	---	21.5	19.5	20.5	21.0	16.5	18.5
6	---	---	---	---	---	---	20.0	18.5	19.0	17.0	15.0	16.0
7	---	---	---	---	---	---	22.0	19.5	21.0	16.5	14.0	15.5
8	---	---	---	---	---	---	23.0	21.0	22.0	16.5	14.0	15.5
9	---	---	---	---	---	---	23.5	22.0	22.5	19.0	16.5	17.5
10	---	---	---	---	---	---	23.5	22.0	22.5	20.0	18.0	18.5
11	---	---	---	---	---	---	22.5	21.0	21.5	20.0	19.0	19.5
12	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.0	20.0
13	---	---	---	---	---	---	19.5	18.5	19.0	21.0	19.0	20.0
14	---	---	---	---	---	---	18.5	18.0	18.5	19.0	17.0	18.0
15	---	---	---	---	---	---	20.0	18.0	19.0	19.0	17.5	18.5
16	---	---	---	---	---	---	21.5	19.0	20.0	17.5	15.0	16.0
17	---	---	---	---	---	---	20.0	18.0	19.0	15.5	13.5	14.5
18	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
19	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
20	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
21	---	---	---	20.0	17.0	18.5	17.5	15.5	16.5	---	---	---
22	---	---	---	20.5	18.5	19.5	17.5	15.5	16.5	---	---	---
23	---	---	---	20.0	18.0	19.0	18.0	17.0	17.5	---	---	---
24	---	---	---	19.5	18.5	19.0	19.0	17.5	18.5	---	---	---
25	---	---	---	19.0	18.0	18.5	20.0	17.5	18.5	---	---	---
26	---	---	---	19.0	18.0	18.5	19.5	17.0	18.5	---	---	---
27	---	---	---	19.5	19.0	19.5	19.5	17.5	18.5	---	---	---
28	---	---	---	21.0	19.0	20.0	20.5	19.0	19.5	---	---	---
29	---	---	---	21.0	19.5	20.5	20.0	19.5	20.0	---	---	---
30	---	---	---	22.0	20.0	21.0	20.5	19.5	20.0	---	---	---
31	---	---	---	22.5	21.0	21.5	21.5	20.0	21.0	---	---	---
MONTH	---	---	---	22.5	17.0	19.5	23.5	15.5	19.5	23.0	13.5	18.5

01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.5	23.0	23.5	22.0	22.5
2	---	---	---	---	---	---	24.0	22.5	23.0	23.5	22.0	23.0
3	---	---	---	---	---	---	23.0	22.5	23.0	23.5	22.0	23.0
4	---	---	---	---	---	---	22.5	22.0	22.0	23.5	22.0	22.5
5	---	---	---	---	---	---	22.5	20.5	21.5	22.0	17.5	19.5
6	---	---	---	---	---	---	20.5	19.0	20.0	18.0	16.0	17.0
7	---	---	---	---	---	---	23.0	20.0	21.5	17.5	15.0	16.0
8	---	---	---	---	---	---	24.0	21.5	23.0	17.5	15.0	16.5
9	---	---	---	---	---	---	25.0	22.5	23.5	19.5	17.0	18.0
10	---	---	---	---	---	---	25.0	23.0	24.0	20.5	18.5	19.5
11	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
12	---	---	---	---	---	---	22.5	19.0	21.0	---	---	---
13	---	---	---	---	---	---	19.5	19.0	19.5	---	---	---
14	---	---	---	---	---	---	19.0	18.5	19.0	---	---	---
15	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
19	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
20	---	---	---	20.0	18.0	19.0	19.0	17.5	18.0	---	---	---
21	---	---	---	21.0	18.0	19.5	19.0	16.0	17.5	---	---	---
22	---	---	---	22.0	19.5	20.5	19.0	16.0	17.5	---	---	---
23	---	---	---	21.5	19.0	20.0	19.0	17.5	18.5	---	---	---
24	---	---	---	20.5	19.5	20.0	20.0	18.0	19.0	---	---	---
25	---	---	---	20.0	19.0	19.5	21.0	18.5	19.5	---	---	---
26	---	---	---	19.5	18.5	19.0	20.5	18.0	19.0	---	---	---
27	---	---	---	20.0	19.0	19.5	20.5	18.5	19.5	---	---	---
28	---	---	---	21.5	19.5	20.5	21.0	19.5	20.0	---	---	---
29	---	---	---	21.5	20.5	21.0	21.0	20.0	20.5	---	---	---
30	---	---	---	22.5	21.0	21.5	21.5	20.0	20.5	---	---	---
31	---	---	---	23.5	21.5	22.5	22.5	21.0	21.5	---	---	---
MONTH	---	---	---	23.5	18.0	20.0	25.0	16.0	20.5	23.5	15.0	20.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01476950 WEST BRANCH CHESTER CREEK NEAR CHESTER HEIGHTS, PA (LAT 39 52 36N LONG 075 27 05W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.0	22.5	23.5	21.5	22.5
2	---	---	---	---	---	---	24.5	21.5	23.0	23.5	22.0	23.0
3	---	---	---	---	---	---	23.5	22.5	22.5	23.5	22.0	22.5
4	---	---	---	---	---	---	22.5	21.5	22.0	23.5	22.0	22.5
5	---	---	---	---	---	---	23.0	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	20.5	19.0	19.5	18.0	15.5	17.0
7	---	---	---	---	---	---	23.5	20.0	21.5	18.0	15.0	16.5
8	---	---	---	---	---	---	24.5	21.5	23.0	18.0	15.0	17.0
9	---	---	---	---	---	---	25.0	22.5	23.5	20.5	17.5	19.0
10	---	---	---	---	---	---	25.0	22.5	23.5	21.0	18.5	20.0
11	---	---	---	---	---	---	23.5	22.0	23.0	21.5	19.5	20.5
12	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
13	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
14	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
15	---	---	---	---	---	---	21.5	18.0	20.0	---	---	---
16	---	---	---	---	---	---	23.5	20.0	21.5	---	---	---
17	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
18	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
19	---	---	---	---	---	---	20.0	17.5	18.5	---	---	---
20	---	---	---	21.0	17.5	19.0	19.5	17.5	18.5	---	---	---
21	---	---	---	22.0	17.5	20.0	19.5	16.0	17.5	---	---	---
22	---	---	---	22.5	19.5	21.0	19.5	16.0	17.5	---	---	---
23	---	---	---	21.5	19.0	20.5	19.0	17.5	18.5	---	---	---
24	---	---	---	20.5	19.5	20.0	20.5	18.0	19.5	---	---	---
25	---	---	---	20.0	18.5	19.5	21.5	18.5	20.0	---	---	---
26	---	---	---	20.0	18.5	19.0	20.5	18.0	19.0	---	---	---
27	---	---	---	20.5	20.0	20.0	21.0	18.5	20.0	---	---	---
28	---	---	---	22.5	19.5	21.0	21.0	19.5	20.5	---	---	---
29	---	---	---	22.0	20.5	21.0	21.0	20.0	20.5	---	---	---
30	---	---	---	23.0	20.5	22.0	22.0	19.5	21.0	---	---	---
31	---	---	---	24.0	21.5	22.5	22.5	21.0	21.5	---	---	---
MONTH	---	---	---	24.0	17.5	20.5	25.0	16.0	20.5	23.5	15.0	20.0

01478200 MIDDLE BRANCH WHITE CLAY CREEK NEAR LANDENBERG, PA (LAT 39 46 54N LONG 075 48 03W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.5	21.0	22.0	23.0	21.5	22.5
2	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	21.0	22.0
5	---	---	---	---	---	---	21.0	19.0	20.5	21.5	17.0	18.5
6	---	---	---	---	---	---	20.0	18.0	19.0	17.0	15.0	16.0
7	---	---	---	---	---	---	22.5	19.5	21.0	17.0	14.0	15.5
8	---	---	---	---	---	---	23.0	21.0	22.0	18.0	14.5	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	19.5	17.5	18.5
10	---	---	---	---	---	---	24.0	22.0	23.0	20.5	18.0	19.5
11	---	---	---	---	---	---	23.0	21.0	22.5	21.0	19.5	20.0
12	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
13	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
14	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
15	---	---	---	---	---	---	21.0	17.5	19.0	---	---	---
16	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	20.5	18.0	19.5	---	---	---
18	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
20	---	---	---	20.0	17.0	18.0	18.5	17.0	17.5	---	---	---
21	---	---	---	20.5	17.0	19.0	18.0	15.5	17.0	---	---	---
22	---	---	---	21.0	18.5	20.0	18.0	15.0	17.0	---	---	---
23	---	---	---	20.5	18.0	19.5	18.5	17.0	18.0	---	---	---
24	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	---	---	---
25	---	---	---	20.0	18.0	19.0	20.5	18.0	19.0	---	---	---
26	---	---	---	19.5	18.0	18.5	20.0	17.0	18.5	---	---	---
27	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	---	---	---
28	---	---	---	21.5	19.0	20.0	20.5	19.0	20.0	---	---	---
29	---	---	---	21.5	20.0	20.5	20.5	19.5	20.0	---	---	---
30	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5	---	---	---
31	---	---	---	22.5	21.0	21.5	22.5	20.5	21.5	---	---	---
MONTH	---	---	---	22.5	17.0	19.5	24.0	15.0	20.0	23.0	14.0	19.5

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA (LAT 39 49 11N LONG 075 41 29W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.0	22.5	23.0	21.0	22.0
2	---	---	---	---	---	---	23.5	21.5	22.5	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.0	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	23.0	20.5	21.5
5	---	---	---	---	---	---	22.0	19.0	20.5	20.5	16.5	18.5
6	---	---	---	---	---	---	19.5	18.0	19.0	18.0	14.5	16.0
7	---	---	---	---	---	---	22.5	19.5	21.0	17.5	14.0	16.0
8	---	---	---	---	---	---	23.5	20.5	22.0	18.0	14.5	16.0
9	---	---	---	---	---	---	24.0	21.5	22.5	20.0	17.0	18.5
10	---	---	---	---	---	---	24.0	21.5	23.0	21.0	17.5	19.0
11	---	---	---	---	---	---	23.5	20.5	22.0	20.5	18.5	19.5
12	---	---	---	---	---	---	22.0	19.5	21.0	---	---	---
13	---	---	---	---	---	---	19.5	19.0	19.0	---	---	---
14	---	---	---	---	---	---	19.0	18.5	18.5	---	---	---
15	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
16	---	---	---	---	---	---	22.5	19.0	20.5	---	---	---
17	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
20	---	---	---	20.0	17.0	18.5	19.0	16.5	17.5	---	---	---
21	---	---	---	21.0	17.0	19.0	19.0	15.0	17.0	---	---	---
22	---	---	---	21.5	18.5	19.5	18.5	15.0	17.0	---	---	---
23	---	---	---	20.5	18.0	19.0	19.0	17.0	18.0	---	---	---
24	---	---	---	19.0	18.5	19.0	20.0	17.5	19.0	---	---	---
25	---	---	---	19.5	18.0	19.0	20.5	17.5	19.0	---	---	---
26	---	---	---	19.0	18.5	18.5	20.5	17.0	18.5	---	---	---
27	---	---	---	20.0	19.0	19.5	20.5	17.5	19.0	---	---	---
28	---	---	---	21.5	19.0	20.5	21.0	19.0	20.0	---	---	---
29	---	---	---	22.0	20.0	21.0	21.0	19.5	20.0	---	---	---
30	---	---	---	22.5	20.5	21.5	21.5	19.5	20.5	---	---	---
31	---	---	---	24.0	21.5	22.5	22.5	20.0	21.0	---	---	---
MONTH	---	---	---	24.0	17.0	20.0	24.0	15.0	20.0	23.0	14.0	19.0

01480665 EAST BRANCH BRANDYWINE CREEK NEAR DORLAN, PA (LAT 40 03 08N LONG 075 43 28W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, CONTINUOUS WATER-TEMPERATURE DATA, JULY 17 THROUGH SEPTEMBER 30, 2000

01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5
2	---	---	---	---	---	---	22.0	20.0	21.0	21.0	20.0	20.5
3	---	---	---	---	---	---	21.5	20.0	20.5	21.5	19.5	20.5
4	---	---	---	---	---	---	22.0	20.0	21.0	21.5	20.0	20.5
5	---	---	---	---	---	---	20.5	18.0	19.0	20.0	16.0	17.5
6	---	---	---	---	---	---	18.5	17.0	18.0	17.0	14.0	15.5
7	---	---	---	---	---	---	21.5	18.5	20.0	16.5	14.0	15.5
8	---	---	---	---	---	---	22.0	19.5	20.5	17.5	14.5	16.0
9	---	---	---	---	---	---	22.0	20.0	21.0	19.0	16.5	17.5
10	---	---	---	---	---	---	22.0	20.0	21.0	19.5	17.5	18.5
11	---	---	---	---	---	---	21.5	19.0	20.5	19.5	18.0	18.5
12	---	---	---	---	---	---	20.0	18.5	19.5	20.0	18.0	19.5
13	---	---	---	---	---	---	18.5	18.0	18.0	21.0	18.5	20.0
14	---	---	---	---	---	---	18.5	17.5	17.5	18.5	16.5	17.5
15	---	---	---	---	---	---	20.0	17.0	18.5	19.5	17.0	18.5
16	---	---	---	---	---	---	21.0	18.5	19.5	17.0	14.5	15.5
17	---	---	---	---	---	---	19.0	17.5	18.0	16.0	13.0	14.5
18	---	---	---	---	---	---	18.0	17.0	17.0	16.5	14.0	15.0
19	---	---	---	---	---	---	18.5	16.0	17.0	---	---	---
20	---	---	---	---	---	---	18.0	16.0	17.0	---	---	---
21	---	---	---	19.5	16.5	18.0	17.5	14.5	16.0	---	---	---
22	---	---	---	20.0	17.5	18.5	18.0	14.5	16.5	---	---	---
23	---	---	---	19.0	16.5	18.0	17.5	16.5	17.0	---	---	---
24	---	---	---	18.0	17.5	17.5	18.5	17.0	18.0	---	---	---
25	---	---	---	19.0	17.0	18.0	19.0	17.0	18.0	---	---	---
26	---	---	---	19.0	17.5	18.0	19.0	16.5	18.0	---	---	---
27	---	---	---	19.0	18.5	18.5	19.0	17.0	18.0	---	---	---
28	---	---	---	20.5	18.0	19.5	20.0	18.5	19.0	---	---	---
29	---	---	---	20.0	19.0	19.5	19.0	18.0	19.0	---	---	---
30	---	---	---	21.0	19.0	19.5	20.0	18.0	19.0	---	---	---
31	---	---	---	23.5	19.5	21.0	20.5	19.0	20.0	---	---	---
MONTH	---	---	---	23.5	16.5	18.5	22.0	14.5	19.0	21.5	13.0	18.0

01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	22.0	23.0	22.5	20.5	21.5
2	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.0	21.5
3	---	---	---	---	---	---	23.0	21.5	22.0	22.5	20.5	21.5
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	20.5	21.5
5	---	---	---	---	---	---	22.0	19.5	21.0	20.5	16.5	18.5
6	---	---	---	---	---	---	20.0	18.5	19.5	17.5	14.5	16.0
7	---	---	---	---	---	---	22.5	20.0	21.0	17.0	13.5	15.5
8	---	---	---	---	---	---	23.5	20.5	22.0	17.5	14.0	16.0
9	---	---	---	---	---	---	23.0	21.0	22.0	19.5	16.0	18.0
10	---	---	---	---	---	---	23.5	21.0	22.0	20.0	17.0	18.5
11	---	---	---	---	---	---	22.5	20.0	21.0	20.0	18.0	19.0
12	---	---	---	---	---	---	21.5	17.0	20.0	21.5	19.0	20.0
13	---	---	---	---	---	---	18.5	18.0	18.0	21.5	19.0	20.5
14	---	---	---	---	---	---	19.5	18.0	18.5	20.0	17.5	19.0
15	---	---	---	---	---	---	20.5	18.0	19.5	19.5	18.0	19.0
16	---	---	---	---	---	---	22.0	19.0	20.5	18.0	15.5	17.0
17	---	---	---	---	---	---	20.0	18.0	19.0	17.0	14.0	15.5
18	---	---	---	---	---	---	18.5	17.0	18.0	17.5	14.5	16.0
19	---	---	---	---	---	---	19.0	16.5	17.5	---	---	---
20	---	---	---	---	---	---	18.5	16.0	17.0	---	---	---
21	---	---	---	20.5	16.5	18.5	18.0	14.5	16.5	---	---	---
22	---	---	---	21.0	17.5	19.5	18.0	14.5	16.5	---	---	---
23	---	---	---	20.5	17.0	19.0	18.0	16.0	17.0	---	---	---
24	---	---	---	19.0	18.0	18.5	19.5	17.0	18.0	---	---	---
25	---	---	---	20.5	18.0	19.5	20.0	17.0	18.5	---	---	---
26	---	---	---	20.0	18.5	19.5	19.5	16.0	18.0	---	---	---
27	---	---	---	20.0	19.0	19.5	19.5	17.0	18.5	---	---	---
28	---	---	---	21.5	19.5	20.5	20.0	18.5	19.0	---	---	---
29	---	---	---	21.0	19.5	20.5	20.5	18.5	19.5	---	---	---
30	---	---	---	22.0	19.5	20.5	20.5	19.0	19.5	---	---	---
31	---	---	---	23.5	20.0	21.5	22.0	19.5	21.0	---	---	---
MONTH	---	---	---	23.5	16.5	19.5	23.5	14.5	19.5	22.5	13.5	18.5

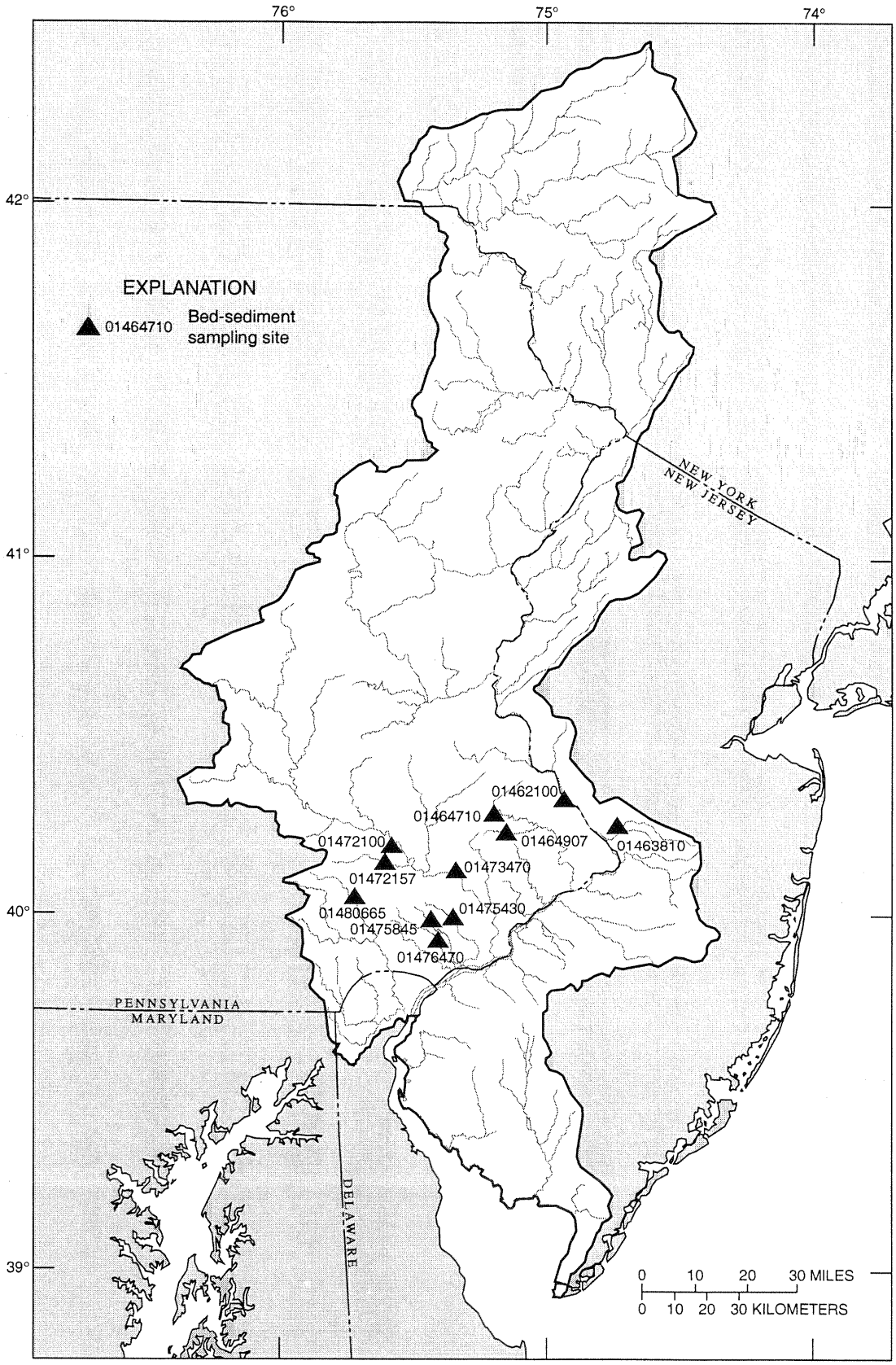

Figure 44. Location of Delaware River National Water-Quality Assessment Program bed-sediment sampling sites.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

SITE DESCRIPTIONS

REMARKS. -- The following table lists sites at which stream bed sediments were collected during calendar year 2000. The location of the stream gage is described if one is present at the site. Samples were collected throughout a section within several hundred meters upstream and (or) downstream of the stream gage, unless stated otherwise in the description.

Station Number	County, State	Hydrologic Unit	Site Name and description
01462100	Bucks, PA	02040105	Pidcock Creek near New Hope, PA lat 40 19'46", long 74 56'14"; samples were collected upstream of State Route 32 in the Bowman Hill Wildflower Preserve.
01463810	Mercer, NJ	02040105	Shabakunk Creek near Lawrenceville, NJ lat 40 15'19", long 7444'17"; samples were collected upstream of Princeton Pike.
01464710	Bucks, PA	02040201	Pine Run at Chalfont, PA lat 40 17'20", long 75 12'11"; sample were collected vicinity of New Britain Township park at end of Forest Drive, off of Park Avenue.
01464907	Bucks, PA	02040201	Little Neshaminy Creek at Valley Road nr Neshaminy, PA lat 40 13' 45", long 70 07'12", stream gage on left bank at bridge on Valley Road, 1.0 mi east of Neshaminy,and 6.7 mi upstream from mouth; samples were collected upstream of Valley Road.
01472100	Chester, PA	02040203	Pigeon Creek at Parker Ford, PA lat 40 11'48", long 75 35'13"; samples were collected upstream of Bethel Church Road.
01472157	Chester, PA	02040203	French Creek near Phoenixville, PA lat 40 09'05", long 75 36'06", stream gage on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth; samples were collected upstream of French Creek Road.
01473470	Montgomery,PA	02040203	Stony Creek at Sterigere Street at Norristown, PA lat 40 07'38", long 75 20'43"; samples were collected upstream of Sterigere Street.
01475430	Delaware, PA	02040202	Darby Creek at Foxcroft, PA lat 39 59'45", long 75 21'21"; samples were collected upstream of State Route 320.
01475845	Chester, PA	02040202	Crum Creek at Goshen Road near Whitehorse, PA lat 39 59'24", long 75 26'16"; samples were collected vicinity of Goshen Road.
01476470	Delaware, PA	02040202	Ridley Creek near Media, PA. lat 39 55'57", long 75 24'42"; samples were collected vicinity of unnamed road upstream of West Rose Tree Road, and off of Ridley Creek Road.
01480665	Chester, PA	02040205	East Branch Brandywine Creek near Dorlan, PA lat 40 03'08", long 75 43'28"; samples were collected downstream of Reeds Road.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

REMARKS.--Stream bed sediment samples were collected during low-flow conditions in the Delaware River Basin during June and July 2000 to determine concentrations of trace elements and hydrophobic organic compounds in stream bed sediments. Sites were located throughout the Delaware River Basin in New Jersey and Pennsylvania. Bed sediment samples at each site were composites of the top 1 to 2 centimeters of material from at least 5 different depositional areas within the stream reach. A subsample from the composite sample collected at each site was processed for particle-size analysis. Additionally, subsamples from the composite were: (1) processed using a 2.0- millimeter stainless-steel mesh sieve for preparation of material for organic contaminant analysis, and (2) processed using a 63-micrometer nylon-cloth sieve for preparation of material for trace element analysis. Specific details describing the guidelines used in collecting and in processing the stream bed sediment samples can be found in Shelton and Capel, 1994, Guidelines for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 94-458, 20 p.

List of sites and sample collection dates

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE
	MERCER COUNTY, NJ			
01463810	SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ	06-12-00	1100	ENVIRONMENTAL
	BUCKS COUNTY, PA			
01462100	PIDCOCK CREEK NEAR NEW HOPE, PA	06-12-00	1600	ENVIRONMENTAL
01464710	PINE RUN AT CHALFONT, PA	06-13-00	1330	ENVIRONMENTAL
01464907	LITTLE NESHAMINY C AT VALLEY ROAD NR NESHAMINY, PA	06-13-00	0900	ENVIRONMENTAL
	CHESTER COUNTY, PA			
01472100	PIGEON CREEK NEAR PARKER FORD, PA	06-21-00	1000	ENVIRONMENTAL
01472157	FRENCH CREEK NEAR PHOENIXVILLE, PA	06-21-00	1300	ENVIRONMENTAL
01475845	CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA	06-15-00	0900	ENVIRONMENTAL
01480665	EAST BRANCH BRANDYWINE CREEK NEAR DORLAN, PA	07-26-00	1000	ENVIRONMENTAL
	DELAWARE COUNTY, PA			
01475430	DARBY CREEK AT FOXCROFT, PA	06-14-00	1400	ENVIRONMENTAL
01476470	RIDLEY CREEK NEAR MEDIA, PA	06-14-00	1030	ENVIRONMENTAL
	MONTGOMERY COUNTY, PA			
01473470	STONY CREEK AT STERIGER STREET AT NORRISTOWN, PA	06-15-00	1300	ENVIRONMENTAL

TRACE ELEMENTS IN STREAMBED SEDIMENTS, CALENDAR YEAR 2000

STATION NUMBER	DATE	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)
						MERCER COUNTY, NJ					
01463810	06-12-00	.61	.56	1.4	.87	.20	.12	.05	3.5	3.4	5.9
						BUCKS COUNTY, PA					
01462100	06-12-00	.50	.71	1.7	1.0	.06	.12	.05	2.6	2.5	6.6
01464710	06-13-00	.38	.60	1.9	.92	.09	.13	.02	2.7	2.7	8.0
01464907	06-13-00	.45	.53	1.8	1.2	.07	.10	.02	2.1	2.1	6.7
						CHESTER COUNTY, PA					
01472100	06-21-00	.27	.42	1.6	.44	.05	.11	.01	1.9	1.8	6.2
01472157	06-21-00	.70	.70	1.5	.71	.08	.14	.04	3.9	3.8	7.0
01475845	06-15-00	.65	.73	1.3	.50	.10	.18	.04	4.2	4.2	6.9
01480665	07-26-00	1.1	.73	1.3	.71	.09	.14	.03	4.8	4.8	7.2
						DELAWARE COUNTY, PA					
01475430	06-14-00	1.2	1.3	1.4	.61	.12	.17	.22	4.4	4.2	6.8
01476470	06-14-00	.69	.86	1.3	.57	.08	.18	.03	3.1	3.0	7.0
						MONTGOMERY COUNTY, PA					
01473470	06-15-00	.88	.82	1.8	1.2	.08	.11	.26	3.0	2.8	7.0

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

STATION NUMBER	DATE	ANTIMONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYLLIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHROMIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)
					MERCER COUNTY, NJ						
01463810	06-12-00	2.5	9.2	450	2.4	1	1.5	94	78	15	82
					BUCKS COUNTY, PA						
01462100	06-12-00	.6	11	570	2.1	<1	.1	100	72	16	36
01464710	06-13-00	.8	8.0	630	3.0	<1	.2	110	79	18	34
01464907	06-13-00	.8	6.5	490	2.5	<1	.2	110	69	13	76
					CHESTER COUNTY, PA						
01472100	06-21-00	.7	8.2	530	2.6	<1	<.1	120	67	15	29
01472157	06-21-00	.5	7.1	560	2.1	<1	.4	110	77	20	44
01475845	06-15-00	.5	7.1	640	2.1	<1	.3	130	120	26	36
01480665	07-26-00	.9	6.5	580	1.9	<1	.2	100	72	16	27
					DELAWARE COUNTY, PA						
01475430	06-14-00	.8	6.7	620	1.6	<1	.6	130	170	24	53
01476470	06-14-00	.5	5.2	610	2.6	<1	.1	140	140	26	42
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	1.0	7.1	520	2.9	<1	.5	110	75	14	42

STATION NUMBER	DATE	EUROPIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHANUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MANGANESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)
					MERCER COUNTY, NJ						
01463810	06-12-00	1	14	<1	<1	3.5	46	210	37	450	.21
					BUCKS COUNTY, PA						
01462100	06-12-00	2	16	<1	1	3.5	50	31	52	2600	.05
01464710	06-13-00	2	20	<1	1	3.9	54	42	41	1000	.07
01464907	06-13-00	1	16	<1	<1	3.2	55	45	33	800	.09
					CHESTER COUNTY, PA						
01472100	06-21-00	2	16	<1	1	3.2	58	38	32	1100	.06
01472157	06-21-00	2	18	<1	2	4.5	62	50	34	1300	.10
01475845	06-15-00	2	19	<1	2	5.0	78	51	34	2000	.12
01480665	07-26-00	2	18	<1	2	4.0	56	49	27	960	.08
					DELAWARE COUNTY, PA						
01475430	06-14-00	2	18	<1	2	5.1	74	77	28	1200	.36
01476470	06-14-00	3	18	<1	2	5.2	78	46	32	1300	.12
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	2	17	<1	1	3.5	55	90	36	940	.10

STATION NUMBER	DATE	MOLYBDENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYMIUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	SCANDIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELENIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	STRONTIUM BOT MAT <63U WS FIELD (UG/G) (34965)	TANTALUM BOT MAT <63U WS FIELD (UG/G) (34975)
					MERCER COUNTY, NJ					
01463810	06-12-00	1.8	40	32	17	11	.9	.3	82	2
					BUCKS COUNTY, PA					
01462100	06-12-00	.9	43	30	18	13	.9	.2	100	1
01464710	06-13-00	1.2	47	32	20	15	.7	.3	82	2
01464907	06-13-00	1.2	46	26	19	12	.6	.3	97	1

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

STATION NUMBER	DATE									
				CHESTER COUNTY, PA						
01472100	06-21-00	.7	50	30	19	11	.8	.2	75	2
01472157	06-21-00	1.3	56	32	18	15	1.3	.2	98	1
01475845	06-15-00	1.3	70	77	17	17	1.9	.2	100	1
01480665	07-26-00	1.2	50	28	16	12	1.3	.2	180	1
				DELAWARE COUNTY, PA						
01475430	06-14-00	1.1	64	96	19	17	1.4	.2	120	1
01476470	06-14-00	1.0	68	100	20	17	1.3	.2	110	1
				MONTGOMERY COUNTY, PA						
01473470	06-15-00	1.3	47	30	19	13	.8	.2	95	1

STATION NUMBER	DATE	THALLIUM BED MAT D SIEVE <63 U TOTAL (UG/G) (04064)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITANIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	VANADIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTERBIUM BOT MAT <63U WS FIELD (UG/G) (35015)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)
				MERCER COUNTY, NJ						
01463810	06-12-00	<1	16	.43	86	2	24	400	13	4.3
				BUCKS COUNTY, PA						
01462100	06-12-00	<1	4	.43	94	2	25	120	13	4.3
01464710	06-13-00	<1	5	.44	98	3	27	150	15	5.9
01464907	06-13-00	<1	5	.45	83	2	23	150	16	6.2
				CHESTER COUNTY, PA						
01472100	06-21-00	<1	4	.46	82	3	26	120	14	4.4
01472157	06-21-00	<1	4	.49	110	4	48	200	12	3.6
01475845	06-15-00	<1	3	.52	110	5	56	200	12	2.5
01480665	07-26-00	<1	4	.48	90	4	41	170	10	2.9
				DELAWARE COUNTY, PA						
01475430	06-14-00	<1	5	.59	120	4	44	230	14	3.1
01476470	06-14-00	<1	4	.64	120	5	53	160	14	3.5
				MONTGOMERY COUNTY, PA						
01473470	06-15-00	<1	6	.44	88	2	24	220	15	5.3

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, CALENDAR YEAR 2000

STATION NUMBER	DATE	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	4CHLOROPHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
					MERCER COUNTY, NJ						
01463810	06-12-00	.5	37	36	<100	<100	<100	<100	530	920	90
					BUCKS COUNTY, PA						
01462100	06-12-00	.5	31	30	<100	<100	<100	<100	<100	<100	<100
01464710	06-13-00	.3	26	26	<100	<100	<100	<100	<100	E80	<100
01464907	06-13-00	.2	21	21	<100	<100	<100	<100	110	280	<100
					CHESTER COUNTY, PA						
01472100	06-21-00	<.2	14	14	<100	<100	<100	<100	M	E50	<100
01472157	06-21-00	.5	33	33	E10	<50	<50	<50	E10	E40	<50
01475845	06-15-00	<.2	20	20	<100	<100	<100	<100	E70	160	<100
01480665	07-26-00	<.2	43	43	<100	<100	<100	<100	<100	E40	<100
					DELAWARE COUNTY, PA						
01475430	06-14-00	1.5	31	29	<100	<100	<100	<100	200	510	E20
01476470	06-14-00	<.2	18	18	<100	<100	<100	<100	E50	150	<100
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	1.8	22	20	<100	<100	<100	<100	200	540	<100

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

STATION NUMBER	DATE	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ALDRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49319)	ALPHA-BHC, SED, BM WS,<2MM DW, REC (UG/KG) (49338)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)
					MERCER COUNTY, NJ						
01463810	06-12-00	280	210	340	120	<1	<1	270	620	<100	2700
					BUCKS COUNTY, PA						
01462100	06-12-00	<100	<100	<100	<100	<3	<3	<100	M	<100	<100
01464710	06-13-00	<100	<100	<100	<100	<2	<2	<100	E20	<100	140
01464907	06-13-00	E70	E40	E20	E50	<1	<1	E10	140	<100	550
					CHESTER COUNTY, PA						
01472100	06-21-00	E10	<100	E20	<100	<2	<2	<100	<100	<100	<100
01472157	06-21-00	<50	<50	E20	<50	<1	<1	<50	E10	<50	E20
01475845	06-15-00	E50	E20	E60	<100	<3	<3	<100	E90	<100	360
01480665	07-26-00	<100	<100	E30	<100	<1	<1	<100	E30	<100	E70
					DELAWARE COUNTY, PA						
01475430	06-14-00	E70	E50	E60	E70	<1	<1	E50	180	<100	820
01476470	06-14-00	E50	E20	<100	<100	<1	<1	<100	E70	<100	240
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	130	E70	110	E70	<1	<1	E80	180	<100	1000

STATION NUMBER	DATE	BENZENE 124TRICHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE HEXACHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	BENZENE M-DICHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE O-DICHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49439)	BENZENE P-DICHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49442)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
					MERCER COUNTY, NJ						
01463810	06-12-00	<100	<1	<100	<100	<100	<100	<100	2600	2800	1800
					BUCKS COUNTY, PA						
01462100	06-12-00	<100	<3	<100	<100	<100	<100	<100	E40	E70	<100
01464710	06-13-00	<100	<2	<100	<100	<100	<100	<100	170	200	100
01464907	06-13-00	<100	<1	<100	<100	<100	<100	<100	500	560	190
					CHESTER COUNTY, PA						
01472100	06-21-00	<100	<2	<100	<100	<100	<100	<100	E40	E60	E20
01472157	06-21-00	<50	<1	<50	<50	<50	<50	<50	E40	E50	E20
01475845	06-15-00	<100	<3	<100	<100	<100	<100	<100	400	400	180
01480665	07-26-00	<100	<1	<100	<100	<100	<100	<100	E80	100	E40
					DELAWARE COUNTY, PA						
01475430	06-14-00	<100	<1	<100	M	<100	<100	<100	1100	1100	720
01476470	06-14-00	<100	<1	<100	<100	<100	<100	<100	270	300	130
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	<100	<1	<100	<100	<100	<100	<100	1300	1300	650

STATION NUMBER	DATE	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BETA-BHC, SED, BM WS,<2MM DW, REC (UG/KG) (49339)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHLORONEB, SED, BM WS,<2MM DW, REC (UG/KG) (49322)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	CIS-CHLORDANE, SED, BM WS,<2MM DW, REC (UG/KG) (49320)	CIS-NONACHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49316)
					MERCER COUNTY, NJ					
01463810	06-12-00	2800	E100	<1	<100	170	<5	3600	14	2
					BUCKS COUNTY, PA					
01462100	06-12-00	E20	<100	<3	<100	<100	<15	E50	<3	<3
01464710	06-13-00	210	<100	<2	<100	<100	<10	240	<2	<2
01464907	06-13-00	510	<100	<1	<100	E100	<5	650	2	<1

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

STATION NUMBER	DATE									
CHESTER COUNTY, PA										
01472100	06-21-00	E40	<100	<2	<100	<100	<10	E40	<2	<2
01472157	06-21-00	E40	E10	<1	<50	<50	<5	50	<1	<1
01475845	06-15-00	480	<100	<3	<100	<100	<15	510	E3	<3
01480665	07-26-00	E60	<100	<1	<100	E10	<5	E80	<1	<1
DELAWARE COUNTY, PA										
01475430	06-14-00	1400	<100	<1	<100	170	<5	1500	15	2
01476470	06-14-00	250	<100	<1	<100	E30	<5	350	E1	<1
MONTGOMERY COUNTY, PA										
01473470	06-15-00	1300	<100	<1	<100	230	<5	1500	2	E1

STATION NUMBER	DATE	CIS-PER-METHRIN SED, BM WS,<2MM DW, REC (UG/KG) (49349)	DCPA, SED, BM WS,<2MM DW, REC (UG/KG) (49324)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	DIEL-DRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49331)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	ENDO-SULFAN I, SED, BM WS,<2MM DW, REC (UG/KG) (49332)	ENDRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49335)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)
MERCER COUNTY, NJ										
01463810	06-12-00	<36	<5	540	12	<100	<100	<13	<2	6600
BUCKS COUNTY, PA										
01462100	06-12-00	<15	<15	<100	<3	<100	<100	<3	<6	E90
01464710	06-13-00	<10	<10	E30	<2	<100	<100	<2	<4	350
01464907	06-13-00	<5	<5	E70	2	<100	<100	<1	<2	1500
CHESTER COUNTY, PA										
01472100	06-21-00	<31	<10	M	<2	<100	<100	<2	<4	E90
01472157	06-21-00	<23	<5	E10	<1	<50	<50	<1	<2	80
01475845	06-15-00	<15	<15	E60	E3	<100	<100	<3	<6	950
01480665	07-26-00	<5	<5	E20	<1	<100	<100	<1	<2	140
DELAWARE COUNTY, PA										
01475430	06-14-00	<11	<5	220	14	<100	<100	<3	<2	3000
01476470	06-14-00	<5	<5	E40	<1	<100	<100	<1	<2	740
MONTGOMERY COUNTY, PA										
01473470	06-15-00	<12	<5	110	2	<100	<100	<1	<2	3200

STATION NUMBER	DATE	HEPTA-CHLOR EPOXIDE SED, BM WS,<2MM DW, REC (UG/KG) (49342)	HEPTA-CHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49341)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISODRIN SED, BM WS,<2MM DW, REC (UG/KG) (49344)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	LINDANE SED, BM WS,<2MM DW, REC (UG/KG) (49345)	M-CRE-SOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)
MERCER COUNTY, NJ										
01463810	06-12-00	<1	<1	2100	<1	<100	<100	<1	<100	<100
BUCKS COUNTY, PA										
01462100	06-12-00	<3	<3	E30	<3	<100	<100	<3	<100	<100
01464710	06-13-00	<2	<2	150	<2	<100	<100	<2	<100	<100
01464907	06-13-00	<1	<1	280	<1	<100	<100	<1	<100	<100
CHESTER COUNTY, PA										
01472100	06-21-00	<2	<2	E40	<2	<100	E20	<2	<100	<100
01472157	06-21-00	<1	<1	E40	<1	<50	E20	<1	<50	<50
01475845	06-15-00	<3	<3	260	<3	<100	<100	<3	<100	<100
01480665	07-26-00	<1	<1	E80	<1	<100	<100	<1	<100	<100
DELAWARE COUNTY, PA										
01475430	06-14-00	<3	<1	910	<1	<100	<100	<1	<100	<100
01476470	06-14-00	<1	<1	180	<1	<100	<100	<1	<100	<100
MONTGOMERY COUNTY, PA										
014734700	6-15-00	<1	<1	1000	<1	<100	<100	<1	<100	<100

WATER QUALITY AT MISCELLANEOUS SITES--CONTINUED

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

STATION NUMBER	DATE	METHOXY CHLOR, O,P'-, SED, BM WS,<2MM DW, REC (UG/KG) (49347)	METHOXY CHLOR P,P'-, SED, BM WS,<2MM DW, REC (UG/KG) (49346)	MIREX, SED, BM WS,<2MM DW, REC (UG/KG) (49348)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	NAPTHAL ENE, 2- ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)
					MERCER COUNTY, NJ					
01463810	06-12-00	<5	<10	<1	<100	E70	E50	150	<100	<100
					BUCKS COUNTY, PA					
01462100	06-12-00	<15	<15	<3	<100	E30	<100	E40	<100	<100
01464710	06-13-00	<10	<10	<2	<100	<100	<100	E60	<100	<100
01464907	06-13-00	<5	<5	<1	<100	<100	<100	E20	<100	<100
					CHESTER COUNTY, PA					
01472100	06-21-00	<10	<10	<2	<100	<100	<100	E10	<100	<100
01472157	06-21-00	<5	<5	<1	<50	<50	<50	E20	<50	<50
01475845	06-15-00	<15	<15	<3	<100	<100	<100	E80	<100	<100
01480665	07-26-00	<5	<5	<1	E10	E10	<100	E50	<100	<100
					DELAWARE COUNTY, PA					
01475430	06-14-00	<5	<5	<1	<100	<100	<100	E40	<100	<100
01476470	06-14-00	<5	<5	<1	<100	<100	<100	E50	<100	<100
					MONTGOMERY COUNTY, PA					
01473470	06-15-00	<5	<5	<1	<100	E10	<100	E40	<100	<100

STATION NUMBER	DATE	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	O, P'- DDD, SED, BM WS,<2MM DW, REC (UG/KG) (49325)	O, P'- DDE, SED, BM WS,<2MM DW, REC (UG/KG) (49327)	O, P'- DDT, SED, BM WS,<2MM DW, REC (UG/KG) (49329)	CHLOR-DANE, SED, BM WS,<2MM DW, REC (UG/KG) (49318)	OXY- P, P'- DDD, SED, BM WS,<2MM DW, REC (UG/KG) (49326)	P, P'- DDE, SED, BM WS,<2MM DW, REC (UG/KG) (49328)	P, P'- DDT, SED, BM WS,<2MM DW, REC (UG/KG) (49330)	PCB, SED, BM WS,<2MM DW, REC (UG/KG) (49459)
					MERCER COUNTY, NJ					
01463810	06-12-00	<100	10	<10	5	<2	36	20	31	E220
					BUCKS COUNTY, PA					
01462100	06-12-00	<100	<3	<3	<6	<3	<3	E1	<6	<150
01464710	06-13-00	<100	<1	<2	<4	<2	<2	E1	<4	<100
01464907	06-13-00	<100	<1	<2	<2	<1	2	3	E1	E60
					CHESTER COUNTY, PA					
01472100	06-21-00	<100	<2	<3	<4	<2	<2	E1	<4	<100
01472157	06-21-00	<50	<1	<1	<2	<1	<1	E1	<2	<50
01475845	06-15-00	<100	<3	<3	<6	<3	E2	E1	<6	<150
01480665	07-26-00	<100	<1	<1	<2	<1	<1	<1	<2	<50
					DELAWARE COUNTY, PA					
01475430	06-14-00	<100	<1	<5	<2	<3	4	2	E3	E60
01476470	06-14-00	<100	<1	<2	<2	<1	1	E1	<2	<50
					MONTGOMERY COUNTY, PA					
01473470	06-15-00	<100	<1	<5	<2	<1	<3	2	<3	<50

STATION NUMBER	DATE	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	PHENOL PENTA-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49425)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)
					MERCER COUNTY, NJ					
01463810	06-12-00	840	<1	160	3500	110	<100	<100	--	E60
					BUCKS COUNTY, PA					
01462100	06-12-00	180	<3	<100	E30	<100	<100	<100	--	E100
01464710	06-13-00	E80	<2	<100	120	<100	<100	<100	--	E40
01464907	06-13-00	E20	<1	E50	960	<100	<100	<100	--	E10
					CHESTER COUNTY, PA					
01472100	06-21-00	E20	<2	<100	E20	<100	<100	<100	--	E20
01472157	06-21-00	70	<1	<50	E20	<50	<50	<50	E80	E20
01475845	06-15-00	250	<3	<100	510	<100	<100	<100	--	120

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, STREAMBED SEDIMENTS

01480665	07-26-00	E40	<1	E10	E50	<100	<100	<100	--	E30
					DELAWARE COUNTY, PA					
01475430	06-14-00	E70	<1	110	1200	<100	<100	<100	--	E50
01476470	06-14-00	E30	<1	E20	460	<100	<100	<100	--	E70
					MONTGOMERY COUNTY, PA					
01473470	06-15-00	E70	<1	130	1400	E50	<100	<100	--	E40

STATION NUMBER	DATE	PHENOL, 246TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49415)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATE BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL-ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)
					MERCER COUNTY, NJ					
01463810	06-12-00	--	2200	520	E60	E10	<100	<100	380	5200
					BUCKS COUNTY, PA					
01462100	06-12-00	--	E80	190	E20	E20	<100	<100	<100	E80
01464710	06-13-00	--	200	150	E40	E20	<100	<100	<100	300
01464907	06-13-00	--	110	E80	E10	E20	<100	<100	E40	1100
					CHESTER COUNTY, PA					
01472100	06-21-00	--	E60	E60	E10	E20	<100	<100	E20	E80
01472157	06-21-00	E10	90	E30	E10	E10	<50	<50	E20	80
01475845	06-15-00	--	130	250	<100	E30	<100	<100	E60	790
01480665	07-26-00	--	E40	E80	E30	<100	<100	<100	E20	120
					DELAWARE COUNTY, PA					
01475430	06-14-00	--	460	120	<100	E10	<100	<100	E70	2400
01476470	06-14-00	--	E80	160	E20	E20	<100	<100	E30	600
					MONTGOMERY COUNTY, PA					
01473470	06-15-00	--	420	150	E30	E10	<100	E10	E80	2400

STATION NUMBER	DATE	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	THIOPH ENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	TOXA-PHENE SED, BM WS,<2MM DW, REC (UG/KG) (49351)	TRANS-CHLOR-DANE, SED, BM WS,<2MM DW, REC (UG/KG) (49321)	TRANS-NONA-CHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49317)	TRANS-PER-METHRIN SED, BM WS,<2MM DW, REC (UG/KG) (49350)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
					MERCER COUNTY, NJ					
01463810	06-12-00	<100	210	<100	<100	<200	13	8	<19	59
					BUCKS COUNTY, PA					
01462100	06-12-00	<100	<100	<100	<100	<600	<3	<3	<15	88
01464710	06-13-00	<100	<100	<100	<100	<400	<2	<2	<10	78
01464907	06-13-00	<100	E60	<100	<100	<200	1	2	<5	58
					CHESTER COUNTY, PA					
01472100	06-21-00	<100	<100	<100	<100	<400	<2	<2	<54	36
01472157	06-21-00	<50	<50	<50	<50	<200	<1	<1	<48	35
01475845	06-15-00	<100	<100	<100	<100	<600	E2	E2	<15	31
01480665	07-26-00	<100	<100	<100	<100	<200	<1	<1	<5	39
					DELAWARE COUNTY, PA					
01475430	06-14-00	<100	E60	<100	<100	<200	11	8	<5	54
01476470	06-14-00	<100	E40	<100	<100	<200	E1	E1	<5	36
					MONTGOMERY COUNTY, PA					
01473470	06-15-00	<100	E70	<100	<100	<200	2	2	<9	28

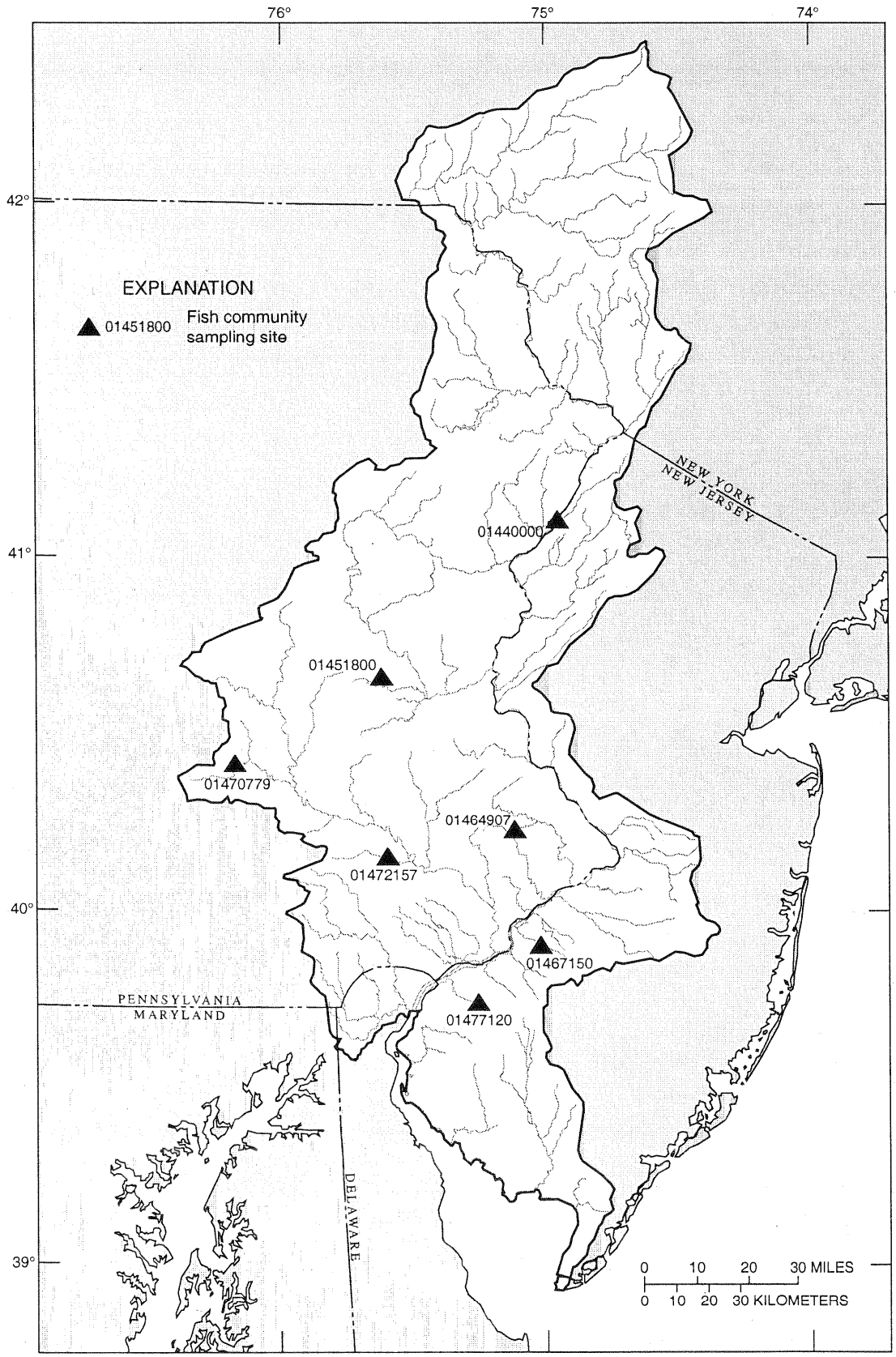

Figure 45. Location of Delaware River National Water-Quality Assessment Program fish-community sampling sites.

WATER QUALITY AT MISCELLANEOUS SITES

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY

Fish-community surveys were conducted at 7 stream sites in the Delaware River basin during 2000. Sites were located in New Jersey and Pennsylvania. Fish were collected by electrofishing with pulsed-DC current in a representative 153 to 310 meter long reach at each stream site. One electrofishing pass was conducted at each reach. One-quarter inch mesh was used for the dip nets. Fish were identified, measured, weighed, and checked for anomalies such as parasites, lesions, and skeletal deformities. Most individuals were returned to the stream after processing. More details regarding collection methods can be found in Meador and others, 1993, Methods for sampling fish communities as part of the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 93-104, 40 p. Additional surface-water and/or water-quality data for these sites can be found in the continuous record station section of this report. Family names are in uppercase, scientific names are in italics, and common names follow. Minimum and maximum total lengths (in mm) are in parenthesis below abundance.

List of stations and collection dates

Station ID	Station name	Collection Date
01440000	FLAT BROOK NEAR FLATBROOKVILLE, NJ	07-20-00
01451800	JORDAN CREEK NEAR SCHNECKSVILLE, PA	07-11-00
01464907	LITTLE NESHAMINY C AT VALLEY ROAD NR NESHAMINY, PA	07-13-00
01467150	COOPER RIVER AT HADDONFIELD, NJ	07-19-00
01470779	TULPEHOCKEN CR NR BERNVILLE, PA.	07-10-00
01472157	FRENCH CREEK NEAR PHOENIXVILLE, PA.	07-12-00
01477120	RACCOON CREEK NEAR SWEDESBORO, NJ	07-18-00

Fish species, numbers, minimum and maximum total lengths (in mm), collected during 2000

FAMILY *scientific name* common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
PETROMYZONTIDAE							
Lampetra appendix, American brook lamprey	0	0	0	0	0	0	40 (106-165)
Petromyzon marinus, sea lamprey	11 (128-145)	0	0	0	0	0	2 (155-164)
ANGUILLIDAE							
Anguilla rostrata, American eel	152 (155-590)	8 (200-560)	50 (190-635)	38 (103-600)	0	3 (315-780)	27 (145-645)
CLUPEIDAE							
Alosa pseudoharengus, alewife	0	0	0	275 (47-59)	0	0	0
CYPRINIDAE							
Cyprinella analostana, satinfin shiner	0	12 (68-90)	37 (48-84)	0	0	10 (40-99)	11 (50-76)
C. spiloptera, spotfin shiner	0	0	74 (46-88)	0	13 (47-115)	3 (57-97)	0
Cyprinus carpio, common carp	0	0	1 (237)	14 (107-530)	44 (327-580)	0	0
Exoglossum maxillingua, cutlips minnow	282 (46-132)	45 (56-125)	0	0	20 (61-123)	132 (50-130)	0
Hybognathus regius, eastern silvery minnow	0	0	0	51 (87-114)	0	0	0
Luxilus cornutus, common shiner	24 (48-91)	76 (27-127)	14 (91-138)	0	0	35 (70-123)	7 (77-123)
Notemigonus crysoleucas, golden shiner	0	0	3 (74-154)	0	1 (75)	0	2 (108-124)

WATER QUALITY AT MISCELLANEOUS SITES

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY--CONTINUED

FAMILY *scientific name* common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
Notropis amoenus, comely shiner	0	0	0	0	0	0	8 (30-35)
N. hudsonius, spottail shiner	0	1 (40)	333 (67-115)	128 (40-98)	28 (68-103)	0	9 (37-121)
N. procne, swallowtail shiner	0	0	825 (43-75)	0	0	0	0
Pimephales notatus, bluntnose minnow	0	49 (39-88)	0	0	7 (38-72)	0	0
P. promelas, fathead minnow	0	1 (55)	0	0	0	0	0
Rhinichthys atratulus, blacknose dace	145 (41-70)	302 (30-76)	0	0	34 (52-85)	12 (55-65)	0
R. cataractae, longnose dace	21 (25-110)	91 (36-101)	0	0	47 (63-106)	19 (35-115)	0
Semotilus corporalis, fallfish	0	0	0	0	0	26 (36-275)	26 (33-272)
CATOSTOMIDAE							
Catostomus commersoni, white sucker	54 (32-466)	209 (29-340)	226 (47-300)	38 (164-277)	144 (37-398)	40 (40-390)	28 (39-402)
Erimyzon oblongus, creek chubsucker	0	0	0	7 (94-188)	0	0	0
Hypentelium nigricans, northern hog sucker	10 (80-310)	0	0	0	0	0	0
ICTALURIDAE							
Ameiurus catus, white catfish	0	0	0	0	0	0	2 (245-408)
A. natalis, yellow bullhead	0	0	33 (90-251)	0	1 (109)	5 (81-256)	0
A. nebulosus, brown bullhead	0	0	0	21 (47-224)	0	2 (92-95)	0
Ictalurus punctatus, channel catfish	0	0	0	0	2 (331-440)	0	0
Noturus insignis, margined madtom	9 (65-125)	61 (55-137)	0	0	0	16 (76-140)	0
ESOCIDAE							
Esox americanus, redfin pickerel	0	0	1 (131)	0	0	0	1 (68)
UMBRIDAE							
Umbra pygmaea, eastern mudminnow	0	0	0	0	0	0	1 (60)
SALMONIDAE							
Oncorhynchus mykiss, rainbow trout	0	4 (209-310)	0	0	5 (238-370)	4 (208-360)	0

WATER QUALITY AT MISCELLANEOUS SITES

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY--CONTINUED

FAMILY *scientific name* common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
Salmo trutta, brown trout	0	1 (212)	0	0	1 (296)	99 (180-325)	0
APHREDODERIDAE							
Aphredoderus sayanus, pirate perch	0	0	0	0	0	0	3 (78-89)
CYPRINODONTIDAE							
Fundulus diaphanus, banded killifish	0	67 (50-78)	886 (50-94)	0	0	0	0
PERCICHTHYIDAE							
Morone americana, white perch	0	0	0	5 (124-192)	0	0	0
CENTRARCHIDAE							
Ambloplites rupestris, rock bass	2 (80-85)	47 (63-171)	62 (59-190)	0	12 (70-172)	153 (45-202)	0
Lepomis auritus, redbreast sunfish	0	9 (57-134)	314 (45-180)	0	0	7 (42-88)	7 (90-125)
L. cyanellus, green sunfish	0	4 (55-81)	117 (38-106)	35 (27-141)	1 (60)	9 (46-146)	3 (64-106)
L. gibbosus, pumpkinseed	0	6 (81-95)	15 (53-132)	324 (47-131)	1 (109)	0	31 (50-111)
L. macrochirus, bluegill	1 (85)	34 (54-88)	12 (55-99)	184 (47-165)	18 (59-149)	11 (50-116)	10 (48-102)
Micropterus dolomieu, smallmouth bass	2 (159-164)	6 (122-358)	14 (152-333)	0	1 (145)	42 (83-310)	0
M. salmoides, largemouth bass	0	0	3 (166-195)	40 (33-351)	6 (102-160)	0	3 (39-192)
PERCIDAE							
Etheostoma olmstedi, tessellated darter	59 (46-70)	6 (51-78)	102 (45-68)	23 (35-75)	10 (55-72)	64 (32-71)	17 (32-84)
Percina peltata, shield darter	66 (60-84)	0	0	0	0	23 (64-86)	0

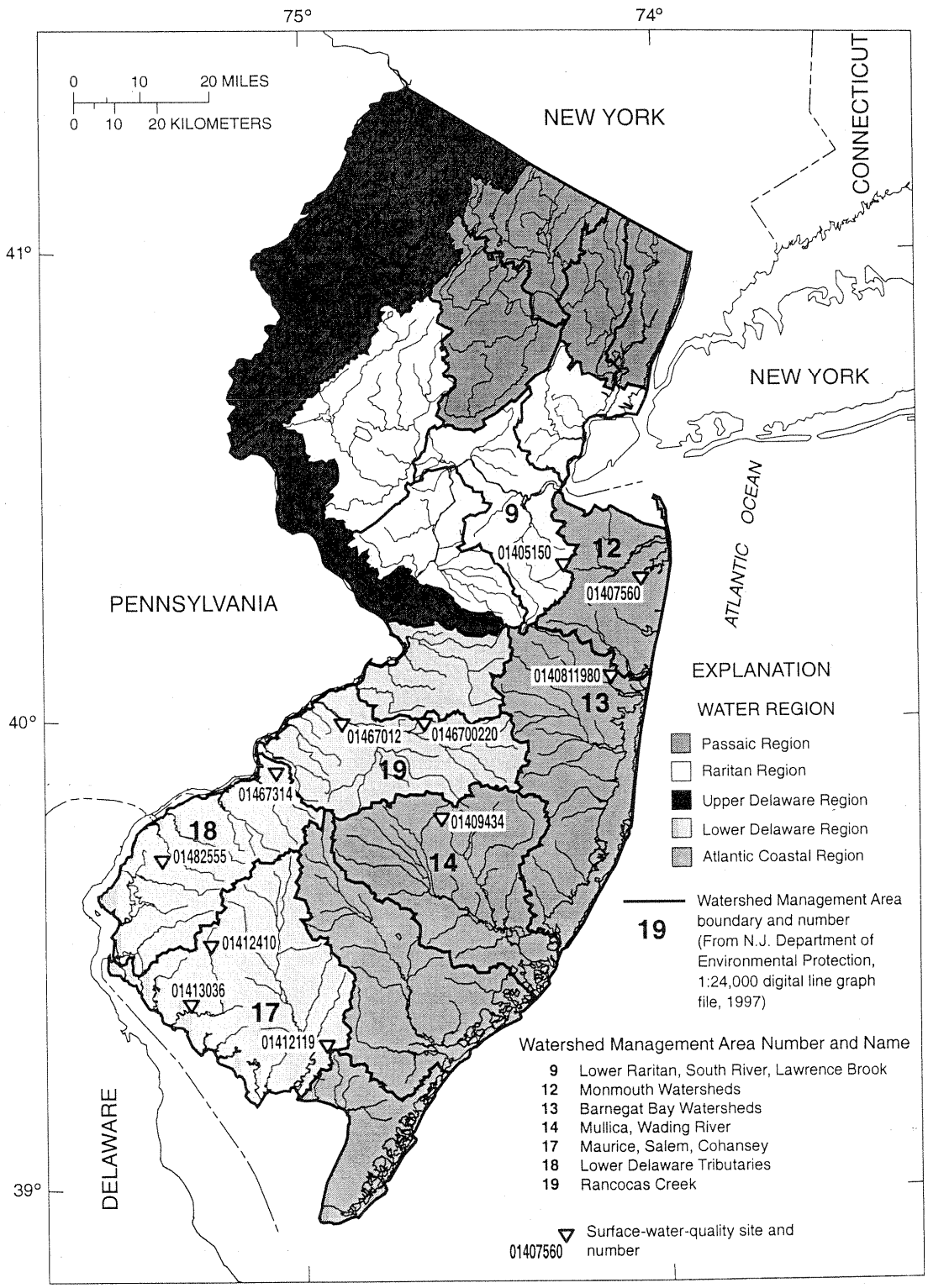

Figure 46. Location of sites in New Jersey sampled as part of the Landscape Indicators for Pesticide Study Mid-Atlantic Coastal Streams.

LANDSCAPE INDICATORS FOR PESTICIDES STUDY - MID-ATLANTIC COASTAL STREAMS

REMARKS.--The following data was collected in New Jersey as part of the Landscape Indicators for Pesticides Study - Mid-Atlantic Coastal Streams. The accompanying map locates the 11 sites within New Jersey. The larger study area included the coastal plains of North Carolina, Virginia, Maryland, and Delaware. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to Quality-Control Data in the Introduction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE
01405150	MILFORD BROOK AT HERBERTS CORNER NJ	05-04-00	1500	ENVIRONMENTAL
01407560	HUSKY BROOK AT EATONTOWN, NJ	04-25-00	1400	ENVIRONMENTAL
		04-25-00	*1401*	*SPLIT REPLICATE*
0140811980	NORTH BRANCH METEDECONK RIV TRIB AT LANES MILLS,NJ	*05-04-00*	*0900*	*FIELD BLANK*
		05-04-00	0950	ENVIRONMENTAL
01409434	SKIT BRANCH NEAR WHITESBOG, NJ	*04-25-00*	*1110*	*FIELD BLANK*
		04-25-00	1200	ENVIRONMENTAL
01412119	MUSKEE CREEK TRIB NEAR MANUMUSKIN, NJ	05-09-00	1420	ENVIRONMENTAL
01412410	COHANSEY RIVER TRIB NEAR DEERFIELD, NJ	04-24-00	1110	ENVIRONMENTAL
01413036	COHANSEY RIVER TRIB NO. 2 NEAR GREENWICH, NJ	05-09-00	1105	ENVIRONMENTAL
0146700220	~~NORTH BRANCH RANCOCAS CREEK TRIB~~ Jonas Run NR JULIUSTOWN NJ	04-25-00	0920	ENVIRONMENTAL
01467012	RANCOCAS CREEK TRIB NEAR CENTERTON, NJ	04-24-00	1520	ENVIRONMENTAL
		04-24-00	*1521*	*SPLIT REPLICATE*
01467314	PETER CREEK AT OAKLYN, NJ	04-24-00	1030	ENVIRONMENTAL
01482555	GAME CREEK NEAR AUBURN, NJ	04-24-00	1520	ENVIRONMENTAL

STATION NUMBER	DATE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
01405150	05-04-00	.17	767	118	11.1	6.9	256	23.0	18.5
01407560	04-25-00	2.2	760	94	10.1	7.1	290	9.5	12.0
	04-25-00	--	--	--	--	--	--	--	--
0140811980	*05-04-00*	--	--	--	--	--	--	--	--
	05-04-00	.00	773	93	9.7	7.1	190	--	14.0
01409434	*04-25-00*	--	--	--	--	--	--	--	--
	04-25-00	.41	757	44	4.8	4.2	46	10.5	11.5
01412119	05-09-00	.19	754	76	6.6	4.5	39	36.0	21.5
01412410	04-24-00	1.1	759	91	9.8	6.6	199	--	12.0
01413036	05-09-00	.18	756	62	5.6	6.6	213	32.0	19.5
0146700220	04-25-00	3.0	760	88	9.4	6.7	153	11.0	12.5
01467012	04-24-00	.68	757	114	10.4	7.2	241	22.0	19.5
	04-24-00	--	--	--	--	--	--	--	--
01467314	04-24-00	.67	757	91	9.6	7.4	358	17.0	12.5
01482555	04-24-00	1.3	758	106	10.5	6.9	236	--	15.5

LANDSCAPE INDICATORS FOR PESTICIDES STUDY - MID-ATLANTIC COASTAL STREAMS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
01405150	05-04-00	54	15.8	3.53	2.5	20.6	15	18	41.3	.2
01407560	04-25-00	85	28.9	3.15	2.4	16.0	52	64	35.3	<.1
	04-25-00	*86*	*29.2*	*3.17*	*2.4*	*15.9*	--	--	*35.0*	*<.1*
0140811980	*05-04-00*	--	*E.02*	*<.01*	*<.2*	*<.1*	--	--	*<.3*	*<.1*
	05-04-00	39	11.5	2.54	3.7	20.4	18	22	28.6	<.1
01409434	*04-25-00*	--	*<.02*	*<.01*	*<.2*	*<.1*	--	--	*<.3*	*<.1*
	04-25-00	3	.54	.31	E.2	1.4	--	--	2.8	.2
01412119	05-09-00	4	.46	.63	.4	2.4	--	--	4.9	<.1
01412410	04-24-00	62	13.0	7.28	4.8	5.6	15	18	15.6	<.1
01413036	05-09-00	78	17.5	8.21	3.2	4.1	17	21	18.4	.1
0146700220	04-25-00	46	15.3	1.91	1.8	5.6	14	18	12.2	<.1
01467012	04-24-00	62	17.2	4.70	5.1	12.1	16	20	33.5	.1
	04-24-00	*76*	*17.9*	*7.59*	*3.5*	*8.4*	--	--	*19.6*	*.1*
01467314	04-24-00	120	28.8	10.7	3.8	16.2	59	72	30.1	<.1
01482555	04-24-00	78	18.3	7.73	3.7	8.5	11	13	20.1	.1

STATION NUMBER	DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, TOTAL (MG/L AS N) (00600)
01405150	05-04-00	7.6	26.1	.024	.16	.42	1.4	1.28	1.7
01407560	04-25-00	10.6	19.6	.093	.24	.31	1.4	1.19	1.5
	04-25-00	*10.6*	*19.6*	*.094*	*.23*	*.34*	*1.4*	*1.19*	*1.5*
0140811980	*05-04-00*	*<.1*	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--
	05-04-00	3.4	13.4	.172	.43	.74	1.5	1.11	1.8
01409434	*04-25-00*	*E.1*	*<.3*	*<.020*	*<.10*	*<.10*	--	*<.050*	--
	04-25-00	3.5	5.9	<.020	.11	.14	--	<.050	--
01412119	05-09-00	5.6	4.2	<.020	.12	.19	--	<.050	--
01412410	04-24-00	8.0	24.5	.152	.45	.73	6.2	5.80	6.5
01413036	05-09-00	10.1	42.2	.244	.61	.93	1.5	.845	1.8
0146700220	04-25-00	11.2	28.0	<.020	.12	.17	.17	.050	.22
01467012	04-24-00	6.1	23.1	<.020	.37	.50	3.8	3.42	3.9
	04-24-00	*5.2*	*50.8*	*.078*	*.47*	*.46*	*1.7*	*1.28*	*1.7*
01467314	04-24-00	11.4	45.3	.141	.30	.38	3.1	2.82	3.2
01482555	04-24-00	5.3	50.9	.077	.35	.51	1.6	1.27	1.8

E Estimated value.
< Actual value is known to be less than the value shown.

LANDSCAPE INDICATORS FOR PESTICIDES STUDY - MID-ATLANTIC COASTAL STREAMS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
01405150	05-04-00	.011	E.003	<.010	.153	155	133	210	127
01407560	04-25-00	.010	E.005	<.010	.033	174	153	220	59
	04-25-00	*.011*	*E.004*	*<.010*	*.033*	*177*	--	*240*	*59*
0140811980	*05-04-00*	*<.010*	*<.006*	*<.010*	*<.008*	*<10*	--	*<10*	*<2*
	05-04-00	.019	E.003	<.010	.056	114	100	70	21
01409434	*04-25-00*	*<.010*	*<.006*	*<.010*	*<.008*	*<10*	--	*<10*	*<2*
	04-25-00	<.010	<.006	<.010	<.008	18	--	330	21
01412119	05-09-00	<.010	E.003	<.010	E.004	30	--	150	10
01412410	04-24-00	.016	.026	.017	.189	125	114	60	64
01413036	05-09-00	<.010	.047	.039	.308	139	119	750	335
0146700220	04-25-00	<.010	<.006	<.010	.026	99	86	740	30
01467012	04-24-00	<.010	.018	<.010	.032	147	127	180	38
	04-24-00	*.018*	*.006*	*<.010*	*.049*	*147*	--	*180*	*194*
01467314	04-24-00	.014	<.006	<.010	.013	209	195	350	129
01482555	04-24-00	.018	.007	<.010	.052	146	127	260	199

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE
01405150	MILFORD BROOK AT HERBERTSVILLE, NJ	*05-04-00*	*1410*	*FIELD BLANK*
		05-04-00	1500	ENVIRONMENTAL
01407560	HUSKY BROOK AT EATONTOWN, NJ	04-25-00	1400	ENVIRONMENTAL
		04-25-00	*1401*	*SPLIT REPLICATE*
0140811980	NORTH BRANCH METEDECONK RIV TRIB AT LANES MILLS,NJ	05-04-00	0950	ENVIRONMENTAL
01409434	SKIT BRANCH NEAR WHITESBOG, NJ	04-25-00	1200	ENVIRONMENTAL
01412119	MUSKEE CREEK TRIB NEAR MANUMUSKIN, NJ	05-09-00	1420	ENVIRONMENTAL
		05-09-00	*1422*	*SPIKE REPLICATE*
01412410	COHANSEY RIVER TRIB NEAR DEERFIELD, NJ	04-24-00	1110	ENVIRONMENTAL
01413036	COHANSEY RIVER TRIB NO. 2 NEAR GREENWICH, NJ	*05-09-00*	*1020*	*FIELD BLANK*
		05-09-00	1105	ENVIRONMENTAL
0146700220	NORTH BRANCH RANCOCAS CREEK TRIB NR JULIUSTOWN NJ	04-25-00	0920	ENVIRONMENTAL
01467012	RANCOCAS CREEK TRIB NEAR CENTERTON, NJ	04-24-00	1520	ENVIRONMENTAL
		04-24-00	*1521*	*SPLIT REPLICATE*
01467314	PETER CREEK AT OAKLYN, NJ	04-24-00	1030	ENVIRONMENTAL
01482555	GAME CREEK NEAR AUBURN, NJ	04-24-00	1520	ENVIRONMENTAL

E Estimated value.
< Actual value is known to be less than the value shown.

LANDSCAPE INDICATORS FOR PESTICIDES STUDY - MID-ATLANTIC COASTAL STREAMS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
01405150	05-04-00	*<.002*	*<.001*	*<.002*	*<.003*	*<.004*	*<.002*	*<.002*	*<.001*	*<.002*
	05-04-00	<.002	E.001	.009	<.003	.005	<.002	.226	<.001	<.002
01407560	04-25-00	<.002	E.004	.005	E.006	<.004	<.002	.006	<.001	<.002
	04-25-00	*<.002*	*.004*	*.004*	*E.006*	*<.004*	*<.002*	*.007*	*<.001*	*<.002*
0140811980	05-04-00	<.002	.006	E.004	<.003	<.004	E.006	<.002	<.001	<.002
01409434	04-25-00	<.002	<.001	<.002	<.003	<.008	<.002	<.002	<.001	<.002
01412119	05-09-00	<.002	<.001	<.002	<.003	<.004	<.002	<.002	<.001	<.002
	05-09-00	*.130*	*.115*	*.108*	*E.33*	*.109*	*E.079*	*.100*	*.124*	*.103*
01412410	04-24-00	.011	.023	<.002	<.003	E.005	E.032	<.002	<.001	E.001
01413036	*05-09-00*	*<.002*	*<.001*	*<.002*	*<.003*	*<.004*	*<.002*	*<.002*	*<.001*	*<.002*
	05-09-00	<.002	E.002	<.002	<.003	<.004	<.002	<.002	<.001	<.002
0146700220	04-25-00	<.002	.004	<.002	E.005	<.004	E.003	<.002	<.001	<.002
01467012	04-24-00	<.002	.006	<.002	<.003	<.004	E.011	<.002	<.001	<.002
	04-24-00	*<.002*	*.026*	*<.002*	*<.003*	*<.004*	*E.029*	*.029*	*<.007*	*E.003*
01467314	04-24-00	<.002	.006	E.002	<.003	.006	E.023	.007	.061	<.002
01482555	04-24-00	<.002	.026	E.001	<.003	<.004	E.029	.024	E.003	E.003

STATION NUMBER	DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)
01405150	*05-04-00*	*<.002*	*<.006*	*<.004*	*<.018*	*<.005*	*<.010*	*<.007*	*<.002*	*<.001*
	05-04-00	.005	<.006	.041	E.008	.006	<.010	<.007	.009	<.001
01407560	04-25-00	<.002	<.006	.047	.070	.007	.010	<.007	.005	<.001
	04-25-00	*<.005*	*<.006*	*.046*	*.067*	*.006*	*.010*	*<.007*	*.005*	*<.001*
0140811980	05-04-00	.026	<.006	.239	.025	.007	<.010	<.007	E.004	<.001
01409434	04-25-00	<.002	<.006	<.004	<.018	<.005	<.010	<.007	E.004	<.001
01412119	05-09-00	<.002	E.002	.010	<.018	E.002	<.010	<.007	<.002	<.001
	05-09-00	*.140*	*.054*	*.131*	*.094*	*.111*	*.134*	*E.15*	*.112*	*.120*
01412410	04-24-00	.212	E.003	<.004	<.018	.117	<.010	<.020	E.001	<.001
01413036	*05-09-00*	*<.002*	*<.006*	*E.003*	*<.018*	*<.005*	*<.010*	*<.007*	*<.002*	*<.001*
	05-09-00	E.003	E.003	.015	<.018	<.005	<.010	<.007	<.002	<.001
0146700220	04-25-00	<.002	<.006	<.004	<.018	.007	E.009	<.007	<.002	<.001
01467012	04-24-00	.014	<.006	<.004	<.018	<.005	<.010	<.007	<.002	<.001
	04-24-00	*.029*	*E.002*	*.038*	*<.018*	*.011*	*<.010*	*E.038*	*E.002*	*<.001*
01467314	04-24-00	<.002	<.006	.015	E.006	.010	.040	<.007	E.002	<.001
01482555	04-24-00	.030	E.002	.033	<.018	.010	<.010	E.034	E.001	<.001

E Estimated value.
< Actual value is known to be less than the value shown.

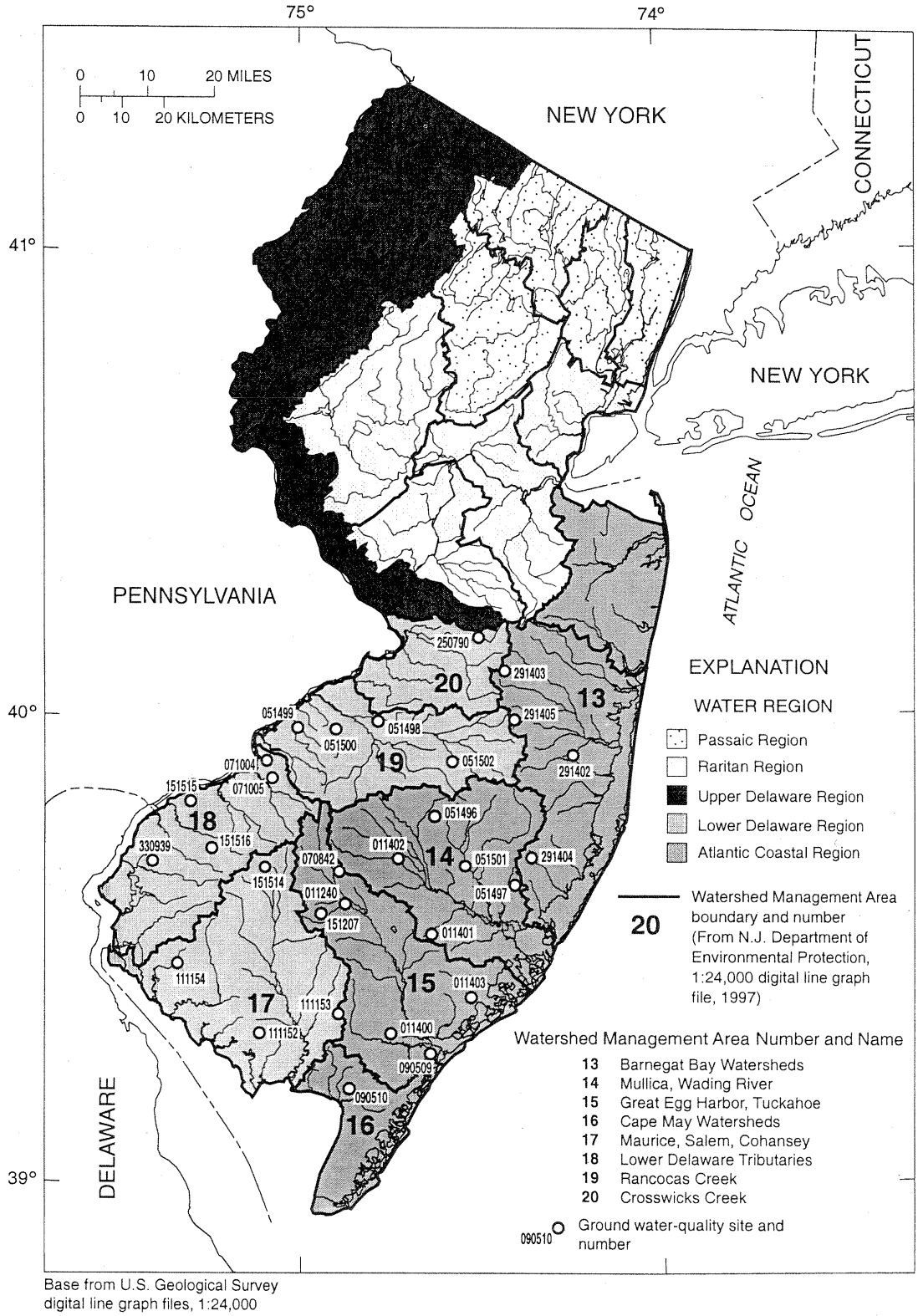

Figure 47. Location of sites in the Ambient Ground-Water-Quality Network, water year 2000.

WATERSHED MANAGEMENT AREA 13

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*394117074214001	291404	NJDEP STAFFORDFORGE MW57	394117	0742140	50	17.3	12.3 - 17.3	121CKKD
*395417074143401	291402	NJDEP DOUBLETROUBLE MW60	395417	0741434	37	8	3 - 8	121CKKD
*395900074242801	291405	NJDEP MANCHESTER MW62	395900	0742428	120	18	13 - 18	121CKKD
*400529074260601	291403	NJDEP COLLIERSMILLS MW65	400529	0742606	135	10.5	5.5 - 10.5	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
394117074214001	*08-01-00*	*0944*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	08-01-00	0945	ENVIRONMENTAL	764	43	4.6	4.8	52	12.5	12
395417074143401	*08-03-00*	*0929*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	08-03-00	0930	ENVIRONMENTAL	764	59	6.0	5.0	67	14.4	8
395900074242801	*07-26-00*	*1000*	*EQUIPMENT BLANK*	--	--	--	--	--	--	--
	07-31-00	*1029*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	07-31-00	1030	ENVIRONMENTAL	764	39	4.1	4.5	166	13.5	5
400529074260601	08-02-00	0900	ENVIRONMENTAL	760	52	5.6	4.5	52	12.0	2

STATION NUMBER	DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
394117074214001	*08-01-00*	--	--	--	--	--	--	--	--	--	--
	08-01-00	1.33	2.12	.7	2.0	1	--	3.8	<.1	3.4	10.7
395417074143401	*08-03-00*	--	--	--	--	--	--	--	--	--	--
	08-03-00	2.50	.48	E.2	6.0	1	1	9.2	<.1	3.8	8.3
395900074242801	*07-26-00*	*.01*	*<.01*	--	*<.1*	--	--	--	--	*<.1*	--
	07-31-00	--	--	--	--	--	--	--	--	--	--
	07-31-00	1.43	.38	E.2	22.6	--	--	37.5	<.1	3.0	13.4
400529074260601	08-02-00	.44	.33	E.1	3.0	--	--	5.3	<.1	2.8	8.9

STATION NUMBER	DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)
394117074214001	*08-01-00*	--	--	--	--	--	--	--	--	--	--
	08-01-00	<.10	<.020	.747	<.010	<.010	29	28	1	119	<.9
395417074143401	*08-03-00*	--	--	--	--	--	--	--	--	--	--
	08-03-00	.35	.027	<.050	<.010	<.010	68	--	33	972	1.1
395900074242801	*07-26-00*	--	--	--	--	--	--	--	--	*<1*	*<.9*
	07-31-00	--	--	--	--	--	--	--	--	--	--
	07-31-00	<.10	<.020	<.050	<.010	<.010	82	--	1	926	<.9
400529074260601	08-02-00	<.10	<.020	<.050	<.010	<.010	21	--	1	851	<.9

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
394117074214001	*08-01-00*	--	--	--	--	--	--	--	--	--	--
	08-01-00	32	<1.0	<.8	<1	<10	<1	16	<.2	<.7	<1
395417074143401	*08-03-00*	--	--	--	--	--	--	--	--	--	--
	08-03-00	12	<1.0	2.9	<1	3240	<1	15	<.2	<.7	<1
395900074242801	*07-26-00*	*<1*	*<.3*	*<.2*	*<1*	*<1*	*<1*	*<1*	*<.2*	*<.7*	*<1*
	07-31-00	--	--	--	--	--	--	--	--	--	--
	07-31-00	39	<1.0	<.8	2	<10	<1	47	<.2	<.7	<1
400529074260601	08-02-00	20	<1.0	<.8	<1	<10	<1	22	<.2	<.7	<1

STATION NUMBER	DATE	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)
394117074214001	*08-01-00*	--	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*
	08-01-00	<1	.51	1.9	<3.00	3.8	<4.00	<.10	<.10	<.10	<.2
395417074143401	*08-03-00*	--	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*
	08-03-00	56	18	2.6	4.12	4.0	5.19	<.10	<.10	<.10	<.2
395900074242801	*07-26-00*	*<1*	--	--	--	--	--	--	--	--	--
	07-31-00	--	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*
	07-31-00	23	.72	4.4	16.3	4.1	4.60	<.10	<.10	<.10	<.2
400529074260601	08-02-00	35	1.1	3.5	8.67	4.0	<4.00	<.10	<.10	<.10	<.2

STATION NUMBER	DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
394117074214001	*08-01-00*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*
	08-01-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
395417074143401	*08-03-00*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*
	08-03-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
395900074242801	*07-26-00*	--	--	--	--	--	--	--	--	--	--
	07-31-00	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*
	07-31-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
400529074260601	08-02-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2

STATION NUMBER	DATE	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
394117074214001	*08-01-00*	*<.10*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*
	08-01-00	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
395417074143401	*08-03-00*	*<.10*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*
	08-03-00	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
395900074242801	*07-26-00*	--	--	--	--	--	--	--	--	--	--
	07-31-00	*<.10*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*
	07-31-00	1.72	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
400529074260601	08-02-00	.43	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10

< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
394117074214001	*08-01-00*	*<.2*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-01-00	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395417074143401	*08-03-00*	*<.2*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-03-00	<.2	<.2	<.20	<.10	<.10	<.1	.26	<.10	<.20	<.2
395900074242801	*07-26-00*	--	--	--	--	--	--	--	--	--	--
	07-31-00	*<.2*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	07-31-00	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
400529074260601	08-02-00	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	DATE	TIME	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
394117074214001	08-01-00	0945	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
395417074143401	08-03-00	0930	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
395900074242801	07-31-00	1030	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
400529074260601	08-02-00	0900	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002

STATION NUMBER	DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
394117074214001	08-01-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
395417074143401	08-03-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
395900074242801	07-31-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
400529074260601	08-02-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010

< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 14

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
393129074383201	011401	NJDEP EGG HARBOR MW55	393130	0743832	56	12.5	7.5 - 12.5	121CKKD
*393744074244101	051497	NJDEP BASS RIVER SF MW50	393744	0742441	42	13.8	8.8 - 13.8	121CKKD
*394018074324701	051501	NJDEP MAXWELL MW48	394018	0743247	35	17.5	12.5 - 17.5	121CKKD
*394123074435101	011402	NJDEP ATSION MW51	394123	0744351	41	11.5	6.5 - 11.5	121CKKD
394642074375401	051496	NJDEP CARRANZA MW56	394642	0743754	73	16.0	11.0 - 16	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
393129074383201	09-18-00	1130	ENVIRONMENTAL	763	11	1.1	3.8	110	17.5	18
394018074324701	09-12-00	1045	ENVIRONMENTAL	776	48	5.3	4.5	51	12.0	3
394123074435101	09-27-00	0930	ENVIRONMENTAL	768	10	1.0	4.7	39	16.0	2
394642074375401	*08-09-00*	*1109*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	08-09-00	1110	ENVIRONMENTAL	757	99	9.3	3.7	43	18.0	2

STATION NUMBER	DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
393129074383201	09-18-00	2.20	2.98	1.0	6.0	--	--	9.2	.1	6.4	24.2
394018074324701	09-12-00	.63	.41	E.2	2.3	--	--	3.5	<.1	3.6	10.5
394123074435101	09-27-00	.24	.22	<.2	1.8	2	2	3.8	<.1	4.7	7.8
394642074375401	*08-09-00*	--	--	--	--	--	--	--	--	--	--
	08-09-00	.43	.24	E.1	1.2	--	--	2.4	<.1	2.4	8.9

STATION NUMBER	DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)
393129074383201	09-18-00	<.10	<.020	.436	<.010	<.010	59	1	709	<.9	119
394018074324701	09-12-00	E.10	.026	<.050	<.010	<.010	18	1	1140	<.9	36
394123074435101	09-27-00	.24	.054	<.050	<.010	<.010	38	1	846	E.7	8
394642074375401	*08-09-00*	--	--	--	--	--	--	--	--	--	--
	08-09-00	<.10	<.020	.077	<.010	<.010	22	130	620	<.9	17

STATION NUMBER	DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
393129074383201	09-18-00	<1.0	1.4	11	390	<1	30	<.2	E.6	<1	19
394018074324701	09-12-00	<1.0	<.8	3	<10	<1	62	<.2	E.4	<1	7
394123074435101	09-27-00	<1.0	1.9	<1	4090	<1	13	<.2	<.7	<1	19
394642074375401	*08-09-00*	--	--	--	--	--	--	--	--	--	--
	08-09-00	<1.0	<.8	<1	E10	<1	206	<.2	<.7	<1	25

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 14--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)
393129074383201	09-18-00	1.0	5.2	23.6	4.3	8.51	<.10	<.10	<.10	<.2	<.10
394018074324701	09-12-00	1.2	3.0	5.42	4.1	<4.00	<.10	<.10	<.10	<.2	<.10
394123074435101	09-27-00	10	2.9	6.06	4.1	9.34	<.10	<.10	<.10	<.2	<.10
394642074375401	*08-09-00*	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*
	08-09-00	1.1	3.4	9.98	4.0	7.33	<.10	<.10	<.10	<.2	<.10

STATION NUMBER	DATE	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)
393129074383201	09-18-00	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10
394018074324701	09-12-00	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10
394123074435101	09-27-00	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10
394642074375401	*08-09-00*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*
	08-09-00	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.21

STATION NUMBER	DATE	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
393129074383201	09-18-00	.22	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
394018074324701	09-12-00	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
394123074435101	09-27-00	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
394642074375401	*08-09-00*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-09-00	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

STATION NUMBER	DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
393129074383201	09-18-00	<.2	<.20	<.10	<.10	.1	<.10	<.10	<.20	<.2
394018074324701	09-12-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
394123074435101	09-27-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
394642074375401	*08-09-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-09-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

< Actual value is known to be less than the value shown.

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	DATE	TIME	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
393129074383201	09-18-00	1130	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
394018074324701	09-12-00	1045	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
394123074435101	09-27-00	0930	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
394642074375401	08-09-00	1110	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002

STATION NUMBER	DATE	MALATHION, DISSOLVED (UG/L) (39532)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
393129074383201	09-18-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
394018074324701	09-12-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
394123074435101	09-27-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
394642074375401	08-09-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010

< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 15

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
391611074383801	090509	NJDEP MARMORA MW46	391611	0743838	24	25	20 - 25	121CKKD
*391844074451501	011400	NJDEP MACNAMARA MW45	391844	0744515	7	13.5	8.5 - 13.5	121CKKD
*392328074315401	011403	NJDEP PLEASANTVILLE MW49	392328	0743154	29	23	18 - 23	121CKKD
*393415074563601	151207	USGS AG01	393416	0745635	120	24	22 - 24	121CKKD
393531074523901	011240	USGS OU05	393530	0745238	75	19	17 - 19	121CKKD
393940074534201	070842	USGS UND09	393940	0745342	100	14	12 - 14	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
391611074383801	08-15-00	1220	ENVIRONMENTAL	762	90	8.8	4.5	83	16.5
391844074451501	*08-09-00*	*0959*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-09-00	1000	ENVIRONMENTAL	762	7	.7	5.4	69	14.5
392328074315401	09-14-00	1045	ENVIRONMENTAL	763	35	3.4	4.7	684	17.0
393415074563601	*08-08-00*	*0959*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-08-00	1000	ENVIRONMENTAL	761	51	5.4	4.0	589	13.0
393531074523901	*08-02-00*	*1059*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-02-00	1100	ENVIRONMENTAL	759	17	1.7	3.9	197	16.0
393940074534201	*07-27-00*	*1510*	*STANDPIPE BLANK*	--	--	--	--	--	--
	07-27-00	*1515*	*PUMP BLANK*	--	--	--	--	--	--
	07-27-00	*1520*	*EQUIPMENT BLANK*	--	--	--	--	--	--
	08-01-00	*1309*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-01-00	1310	ENVIRONMENTAL	760	18	1.8	4.0	48	15.0

STATION NUMBER	DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
391611074383801	08-15-00	20	5.71	1.31	2.6	3.3	--	--	5.4	<.1
391844074451501	*08-09-00*	--	--	--	--	--	--	--	--	--
	08-09-00	13	2.57	1.61	1.5	3.5	6	6	5.2	<.1
392328074315401	09-14-00	41	12.6	2.25	1.6	106	3	3	153	<.1
393415074563601	*08-08-00*	--	--	--	--	--	--	--	--	--
	08-08-00	160	15.8	28.0	3.1	14.3	--	--	52.3	.5
393531074523901	*08-02-00*	--	--	--	--	--	--	--	--	--
	08-02-00	38	9.88	3.11	6.3	12.6	--	--	19.0	<.1
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	*M*	*.03*	*M*	--	*<.1*	--	--	--	--
	08-01-00	--	--	--	--	--	--	--	--	--
	08-01-00	2	.36	.25	E.2	1.4	--	--	2.5	<.1

< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATERSHED MANAGEMENT AREA 15--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
391611074383801	08-15-00	7.3	16.6	<.10	<.020	--	1.74	<.010	<.010	57
391844074451501	*08-09-00*	--	--	--	--	--	--	--	--	--
	08-09-00	15.9	14.6	<.10	<.020	--	<.050	<.010	<.010	56
392328074315401	09-14-00	4.0	51.0	<.10	<.020	--	1.42	<.010	<.010	348
393415074563601	*08-08-00*	--	--	--	--	--	--	--	--	--
	08-08-00	7.4	E.3	.61	<.020	56	55.5	<.010	<.010	397
393531074523901	*08-02-00*	--	--	--	--	--	--	--	--	--
	08-02-00	6.9	10.9	E.10	<.020	--	14.4	<.010	<.010	134
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	*<.1*	--	--	--	--	--	--	--	--
	08-01-00	--	--	--	--	--	--	--	--	--
	08-01-00	4.5	12.7	<.10	<.020	--	<.050	<.010	<.010	24

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
391611074383801	08-15-00	--	2	51	<.9	54	<1.0	<.8	2	E10
391844074451501	*08-09-00*	--	--	--	--	--	--	--	--	--
	08-09-00	51	2	8	1.8	22	<1.0	<.8	<1	2470
392328074315401	09-14-00	338	1	382	<.9	60	<1.0	<.8	4	<10
393415074563601	*08-08-00*	--	--	--	--	--	--	--	--	--
	08-08-00	--	<1	8570	1.3	1180	<1.0	<.8	6	E10
393531074523901	*08-02-00*	--	--	--	--	--	--	--	--	--
	08-02-00	--	<1	2120	<.9	165	<1.0	<.8	2	E10
393940074534201	*07-27-00*	--	--	--	--	--	--	--	*<1*	--
	07-27-00	--	--	--	--	--	--	--	*<1*	--
	07-27-00	--	--	*<1*	*<.9*	*<1*	*<.3*	--	*M*	*<1*
	08-01-00	--	--	--	--	--	--	--	--	--
	08-01-00	--	1	1490	<.9	56	<1.0	<.8	1	<10

STATION NUMBER	DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)
391611074383801	08-15-00	<1	34	<.2	<.7	<1	2	.36	2.1	<3.00
391844074451501	*08-09-00*	--	--	--	--	--	--	--	--	--
	08-09-00	<1	60	<.2	<.7	<1	25	.60	2.0	<3.00
392328074315401	09-14-00	<1	124	<.2	1.5	<1	77	1.4	3.1	3.81
393415074563601	*08-08-00*	--	--	--	--	--	--	--	--	--
	08-08-00	11	279	1.7	13.1	<1	8	.73	16	198
393531074523901	*08-02-00*	--	--	--	--	--	--	--	--	--
	08-02-00	<1	223	E.1	.7	<1	157	1.2	2.9	<3.00
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	*<1*	*<1*	*<.2*	*<.7*	*<1*	*<1*	--	--	--
	08-01-00	--	--	--	--	--	--	--	--	--
	08-01-00	<1	16	<.2	<.7	<1	19	.95	1.8	<3.00

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATERSHED MANAGEMENT AREA 15--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)
391611074383801	08-15-00	3.8	5.83	<.10	<.10	<.10	<.2	<.10	<.10	<.10
391844074451501	*08-09-00*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-09-00	3.7	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10
392328074315401	09-14-00	4.2	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10
393415074563601	*08-08-00*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-08-00	9.0	148	<.10	<.10	<.10	<.2	<.10	<.10	<.10
393531074523901	*08-02-00*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-02-00	4.4	8.13	<.10	<.10	<.10	<.2	<.10	<.10	<.10
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	08-01-00	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-01-00	3.8	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10

STATION NUMBER	DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)
391611074383801	08-15-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10
391844074451501	*08-09-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-09-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.62	<.10
392328074315401	09-14-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.10	<.10
393415074563601	*08-08-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-08-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.16	<.10
393531074523901	*08-02-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-02-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.20	<.10
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	08-01-00	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-01-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10

STATION NUMBER	DATE	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
391611074383801	08-15-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
391844074451501	*08-09-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-09-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
392328074315401	09-14-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
393415074563601	*08-08-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-08-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
393531074523901	*08-02-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-02-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.2
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	08-01-00	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-01-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 15--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)
391611074383801	08-15-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
391844074451501	*08-09-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-09-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
392328074315401	09-14-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
393415074563601	*08-08-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-08-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
393531074523901	*08-02-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-02-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
393940074534201	*07-27-00*	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	07-27-00	--	--	--	--	--	--	--	--	--
	08-01-00	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-01-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
391611074383801	08-15-00	1220	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
391844074451501	08-09-00	1000	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
392328074315401	09-14-00	1045	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
393415074563601	08-08-00	1000	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
393531074523901	08-02-00	1100	<.002	<.001	<.003	<.002	<.002	<.002	<.005	<.002
393940074534201	08-01-00	1310	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002

STATION NUMBER	DATE	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
391611074383801	08-15-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
391844074451501	08-09-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
392328074315401	09-14-00	<.005	<.002	<.004	<.006	<.004	E.034	<.004	<.005	<.010
393415074563601	08-08-00	<.005	.079	<.004	<.006	<.004	<.018	<.004	<.005	<.010
393531074523901	08-02-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
393940074534201	08-01-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 16

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*391145074520401	090510	NJDEP BELLEPLAIN MW44	391145	0745204	10	11	6 - 11	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
391145074520401	09-28-00	1000	769	18	1.8	5.2	37	17.0	8	2.09	.77

STATION NUMBER	DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
391145074520401	09-28-00	.5	1.9	6	8	2.4	<.1	9.1	5.4	<.10	<.020

STATION NUMBER	DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
391145074520401	09-28-00	<.050	<.010	<.010	24	26	<1	22	<.9	16	<1.0

STATION NUMBER	DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
391145074520401	09-28-00	E.4	<1	10	<1	89	<.2	<.7	<1	2	.45

STATION NUMBER	DATE	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)
391145074520401	09-28-00	2.0	<3.00	3.6	<4.00	<.10	<.10	<.10	<.2	<.10	<.10

STATION NUMBER	DATE	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)
391145074520401	09-28-00	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10

STATION NUMBER	DATE	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
391145074520401	09-28-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 16--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION	NUMBER	DATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)
391145074520401		09-28-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION	NUMBER	DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
391145074520401		09-28-00	1000	<.002	<.007	<.041	<.003	<.006	<.005	<.005	<.002

STATION	NUMBER	DATE	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
391145074520401		09-28-00	<.027	<.013	<.002	<.002	<.002	<.015	<.011	<.011	<.016

< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 17

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
391854075065501	111152	NJDEP BEVAN WMA MW43	391854	0750655	50	12	7 - 12	121CKKD
*392123074534801	111153	NJDEP PEASLEE WMA MW47	392123	0745348	83	32.5	27.5 - 32.5	121CKKD
392753075204701	111154	NJDEP STOW CREEK MW41	392753	0752047	50	17.7	12.7 - 17.7	121CKKD
394014075060001	151514	NJDEP CLAYTON MW24	394014	0750600	140	24.2	19.2 - 24.2	121CKKD

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
391854075065501	*08-10-00*	*1119*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-10-00	1120	ENVIRONMENTAL	758	68	6.7	4.1	32	15.5
392123074534801	09-20-00	1000	ENVIRONMENTAL	761	45	4.7	5.4	23	13.0
392753075204701	*09-20-00*	*1030*	*STANDPIPE BLANK*	--	--	--	--	--	--
	09-20-00	*1031*	*PUMP BLANK*	--	--	--	--	--	--
	09-20-00	*1032*	*FIELD BLANK*	--	--	--	--	--	--
	09-20-00	1200	ENVIRONMENTAL	758	29	2.6	5.8	507	19.5
394014075060001	08-22-00	1030	ENVIRONMENTAL	765	106	10.5	4.2	245	16.0

STATION NUMBER	DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
391854075065501	*08-10-00*	--	--	--	--	--	--	--	--	--
	08-10-00	5	.13	1.03	.7	2.6	--	--	4.5	<.1
392123074534801	09-20-00	3	.37	.38	.5	1.9	2	2	3.8	<.1
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	*M*	*.02*	*M*	--	*<.1*	--	--	--	--
	09-20-00	110	25.9	11.8	65.9	7.2	44	54	17.0	<.1
394014075060001	08-22-00	78	20.1	6.56	3.0	1.9	--	--	16.2	<.1

STATION NUMBER	DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
391854075065501	*08-10-00*	--	--	--	--	--	--	--	--	--
	08-10-00	6.3	4.1	<.10	<.020	--	<.050	<.010	<.010	27
392123074534801	09-20-00	5.6	1.5	<.10	<.020	--	<.050	<.010	<.010	15
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	*<.1*	--	--	--	--	--	--	--	--
	09-20-00	5.9	87.8	.32	<.020	13	12.2	<.010	.021	323
394014075060001	08-22-00	8.2	29.1	E.10	<.020	--	10.9	<.010	<.010	148

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATERSHED MANAGEMENT AREA 17--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
391854075065501	*08-10-00*	--	--	--	--	--	--	--	--	--
	08-10-00	--	1	29	<.9	34	<1.0	<.8	2	<10
392123074534801	09-20-00	15	1	53	<.9	16	<1.0	<.8	<1	70
392753075204701	*09-20-00*	--	--	--	--	--	--	--	*<1*	--
	09-20-00	--	--	--	--	--	--	--	*3*	--
	09-20-00	--	--	*1*	*<.9*	*<1*	*<.3*	--	*2*	*10*
	09-20-00	302	1	<1	<.9	66	<1.0	E.6	2	<10
394014075060001	08-22-00	--	4	383	<.9	331	<1.0	E.8	1	E10

STATION NUMBER	DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)
391854075065501	08-10-00	--	--	--	--	--	--	--	--	--
	08-10-00	<1	2	<.2	<.7	<1	1	.60	1.5	<3.00
392123074534801	09-20-00	<1	34	<.2	<.7	<1	6	E.28	2.5	3.25
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	*<1*	*M*	*<.2*	*<.7*	*<1*	*2*	--	--	--
	09-20-00	<1	10	<.2	E.7	<1	2	2.5	4.3	10.3
394014075060001	08-22-00	2	94	<.2	2.5	<1	1	3.2	3.2	6.16

STATION NUMBER	DATE	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)
391854075065501	08-10-00	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-10-00	3.7	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10
392123074534801	09-20-00	3.9	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	7.1	73.7	<.10	<.10	<.10	<.2	<.10	<.10	<.10
394014075060001	08-22-00	4.1	<4.00	<.10	<.10	<.10	<.2	<.10	<.10	<.10

STATION NUMBER	DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)
391854075065501	*08-10-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-10-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	3.22	<.10
392123074534801	09-20-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	1.33	<.10
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10
394014075060001	08-22-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10

E Estimated value.
< Actual value is known to be less than the value shown.
M Presence of material verified but not quantified.

WATERSHED MANAGEMENT AREA 17--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
391854075065501	*08-10-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
	08-10-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
392123074534801	09-20-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
394014075060001	08-22-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

STATION NUMBER	DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
391854075065501	*08-10-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	08-10-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
392123074534801	09-20-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
392753075204701	*09-20-00*	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	--	--	--	--	--	--	--	--	--
	09-20-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
394014075060001	08-22-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	DATE	TIME	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
391854075065501	08-10-00	1120	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
392123074534801	09-20-00	1000	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
392753075204701	09-20-00	1200	<.002	<.003	E.003	E.001	E.002	E.002	<.001	<.002
394014075060001	08-22-00	1030	.014	.177	<.003	<.002	E.093	<.002	.013	<.002

STATION NUMBER	DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
391854075065501	08-10-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
392123074534801	09-20-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
392753075204701	09-20-00	<.005	E.002	<.004	<.006	<.004	<.018	<.004	.006	<.010
394014075060001	08-22-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 18

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*394108075250401	330939	NJDEP CARNEYS PT MW22	394108	0752504	35	19.5	14.5 - 19.9	211MRSL
394245075151001	151516	NJDEP SO HARRISON MW21	394245	0751510	112	29.5	24.5 - 29.5	121CKKD
394849075184501	151515	NJDEP REPAUPO MW20	394849	0751845	8	12.7	7.7 - 12.7	111HPPM
*395143075044101	071005	NJDEP BELLMAWR MW17	395143	0750441	15	13.6	8.6 - 13.6	211EGLS
395358075053701	071004	NJDEP AUDUBON PARK MW14	395358	0750537	15	18.7	13.7 - 18.7	211MCVL

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
211MRSL - Marshalltown Formation
121CKKD - Kirkwood-Cohansey aquifer system
111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene
211EGLS - Englishtown Formation
211MCVL - Merchantville Formation

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)
394108075250401	08-15-00	1000	ENVIRONMENTAL	766	45	4.6	4.5	223	15.0
394245075151001	08-22-00	1400	ENVIRONMENTAL	765	84	7.7	4.1	284	20.0
395143075044101	*08-16-00*	*0959*	*AMBIENT BLANK*	--	--	--	--	--	--
	08-16-00	1000	ENVIRONMENTAL	760	5	.5	5.5	507	15.5
395358075053701	*09-11-00*	*1319*	*AMBIENT BLANK*	--	--	--	--	--	--
	09-11-00	1320	ENVIRONMENTAL	765	--	--	5.6	895	29.0

STATION NUMBER	DATE	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
394108075250401	08-15-00	59	15.5	4.85	11.9	3.2	--	--	11.6	<.1
394245075151001	08-22-00	72	22.4	3.92	2.9	7.7	--	--	19.1	.2
395143075044101	*08-16-00*	--	--	--	--	--	--	--	--	--
	08-16-00	46	12.3	3.80	6.1	49.5	4	5	94.4	<.1
395358075053701	*09-11-00*	--	--	--	--	--	--	--	--	--
	09-11-00	150	34.8	15.7	6.5	58.4	55	67	191	<.1

STATION NUMBER	DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
394108075250401	08-15-00	6.3	30.6	.12	<.020	10	10.1	<.010	<.010	140
394245075151001	08-22-00	8.7	30.1	.11	<.020	13	13.0	.015	<.010	166
395143075044101	*08-16-00*	--	--	--	--	--	--	--	--	--
	08-16-00	6.6	35.3	1.1	.950	--	<.050	<.010	.011	274
395358075053701	*09-11-00*	--	--	--	--	--	--	--	--	--
	09-11-00	19.4	68.9	E.10	.061	--	<.050	.019	<.010	455

< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 18--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
394108075250401	08-15-00	--	4	221	E.5	88	<1.0	<.8	7	80
394245075151001	08-22-00	--	33	1360	<.9	133	<1.0	1.5	7	20
395143075044101	*08-16-00*	--	--	--	--	--	--	--	--	--
	08-16-00	232	1	65	112	53	<1.0	1.3	<1	29400
395358075053701	*09-11-00*	--	--	--	--	--	--	--	--	--
	09-11-00	493	880	<1	1.1	249	<1.0	<.8	<1	64100

STATION NUMBER	DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)
394108075250401	08-15-00	<1	104	<.2	1.9	<1	65	.84	3.4	7.28
394245075151001	08-22-00	3	328	<.2	.8	<1	20	1.2	6.2	30.1
395143075044101	*08-16-00*	--	--	--	--	--	--	--	--	--
	08-16-00	<1	71	<.2	<.7	<1	9	4.4	3.7	4.91
395358075053701	*09-11-00*	--	--	--	--	--	--	--	--	--
	09-11-00	<1	963	<.2	<.7	<1	79	1.1	3.1	<3.00

STATION NUMBER	DATE	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)
394108075250401	08-15-00	4.4	14.8	<.10	<.10	<.10	<.2	<.10	<.10	<.10
394245075151001	08-22-00	4.6	10.6	<.10	<.10	<.10	<.2	<.10	<.10	<.10
395143075044101	*08-16-00*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	08-16-00	4.7	10.4	<.10	<.10	<.10	<.2	<.10	<.10	<.10
395358075053701	*09-11-00*	--	--	*<.10*	*<.10*	*<.10*	*<.2*	*<.10*	*<.10*	*<.10*
	09-11-00	5.0	5.69	<.10	<.10	<.10	<.2	<.10	<.10	<.10

STATION NUMBER	DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)
394108075250401	08-15-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10
394245075151001	08-22-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	2.14	<.10
395143075044101	*08-16-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	08-16-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10
395358075053701	*09-11-00*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*	*<.10*	*<.10*
	09-11-00	<.10	<.10	<.10	<.20	<.20	<.10	<.2	.28	<.10

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 18--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION	NUMBER	DATE	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
394108075250401		08-15-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
394245075151001		08-22-00	.33	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
395143075044101		*08-16-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
		08-16-00	<.10	<.2	6.3	<.2	<.10	E.1	<.10	<.10	47.1
395358075053701		*09-11-00*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*	*<.2*
		09-11-00	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.4

STATION	NUMBER	DATE	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
394108075250401		08-15-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
394245075151001		08-22-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395143075044101		*08-16-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
		08-16-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395358075053701		*09-11-00*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
		09-11-00	<.2	<.20	<.10	<.10	<.1	.14	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION	NUMBER	DATE	TIME	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
394108075250401		08-15-00	1000	<.002	.004	<.003	<.002	E.060	<.002	<.001	<.002
394245075151001		08-22-00	1400	<.002	<.001	<.020	<.002	<.002	<.002	<.001	<.002
395143075044101		08-16-00	1000	<.002	<.001	E.47	<.002	<.002	<.002	<.001	--
395358075053701		09-11-00	1320	<.002	.008	<.003	<.002	E.019	<.002	<.001	<.002

STATION	NUMBER	DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
394108075250401		08-15-00	<.005	.005	<.004	E.003	<.004	<.018	<.004	<.005	<.010
394245075151001		08-22-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
395143075044101		08-16-00	<.005	<.050	<.004	<.006	.019	<.018	<.004	<.005	<.010
395358075053701		09-11-00	E.004	E.002	<.004	<.006	<.004	E.007	<.004	E.004	<.010

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 19

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*395341074345101	051502	NJDEP LEBANON ST F MW15	395341	0743451	134	39	34 - 39	121CKKD
395806074540501	051500	NJDEP CAMBRDGECROSS MW11	395806	0745405	50	19.5	14.5 - 19.5	211EGLS
395814075002201	051499	NJDEP MAPLE SHADE MW10	395814	0750022	18	49	44 - 49	211MRPAU
395855074470701	051498	NJDEP LUMBERTON PLZ MW8	395855	0744707	54	26	21 - 26	211MRSL

* - Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:
121CKKD - Kirkwood-Cohansey aquifer system
211EGLS - Englishtown Formation
211MRPAU - Magothy-Raritan-Potomac aquifer system, upper aquifer
211MRSL - Marshalltown Formation

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-control data" in the "Explanation of Records" section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	TIME	SAMPLE TYPE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
395341074345101	09-19-00	0930	ENVIRONMENTAL	762	43	4.5	5.5	55	12.9	13
395806074540501	09-14-00	1320	ENVIRONMENTAL	760	23	2.1	4.4	182	19.5	42
395814075002201	*09-25-00*	*1129*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	09-25-00	1130	ENVIRONMENTAL	759	2	.2	6.7	670	16.0	180
395855074470701	*09-13-00*	*1109*	*AMBIENT BLANK*	--	--	--	--	--	--	--
	09-13-00	1110	ENVIRONMENTAL	758	54	4.5	4.3	582	24.0	140

STATION NUMBER	DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
395341074345101	09-19-00	2.67	1.43	.8	3.2	4	4	5.8	<.1	5.0	8.1
395806074540501	09-14-00	12.2	2.72	2.9	11.2	--	--	31.6	<.1	7.6	19.9
395814075002201	*09-25-00*	--	--	--	--	--	--	--	--	--	--
	09-25-00	50.6	13.7	4.6	38.0	215	263	72.7	.4	13.0	5.4
395855074470701	*09-13-00*	--	--	--	--	--	--	--	--	--	--
	09-13-00	19.4	22.7	3.9	34.3	--	--	112	<.1	8.9	47.5

STATION NUMBER	DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)
395341074345101	09-19-00	<.10	<.020	<.050	<.010	<.010	35	29	1	15	<.9
395806074540501	09-14-00	<.10	<.020	.535	<.010	<.010	102	92	3	56	<.9
395814075002201	*09-25-00*	--	--	--	--	--	--	--	--	--	--
	09-25-00	1.3	1.00	<.050	.010	.015	361	352	1	<1	42.3
395855074470701	*09-13-00*	--	--	--	--	--	--	--	--	--	--
	09-13-00	E.10	<.020	7.91	<.010	.020	296	286	1	460	<.9

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 19--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)
395341074345101	09-19-00	19	<1.0	<.8	38	E10	1	18	<.2	E.6	<1
395806074540501	09-14-00	40	<1.0	<.8	<1	50	<1	102	<.2	<.7	<1
395814075002201	*09-25-00*	--	--	--	--	--	--	--	--	--	--
	09-25-00	47	<1.0	.8	<1	22500	<1	677	<.2	<.7	<1
395855074470701	*09-13-00*	--	--	--	--	--	--	--	--	--	--
	09-13-00	86	3.4	1.2	1	10	<1	261	<.2	E.4	<1

STATION NUMBER	DATE	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)
395341074345101	09-19-00	19	.54	2.0	<3.00	3.8	<4.00	<.10	<.10	<.10	<.2
395806074540501	09-14-00	15	E.24	3.2	6.60	4.0	5.19	<.10	<.10	<.10	<.2
395814075002201	*09-25-00*	--	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*
	09-25-00	3	3.5	3.2	4.32	4.8	10.8	<.10	<.10	<.10	<.2
395855074470701	*09-13-00*	--	--	--	--	--	--	*<.10*	*<.10*	*<.10*	*<.2*
	09-13-00	237	.50	3.1	3.80	4.1	<4.00	<.10	<.10	<.10	<.2

STATION NUMBER	DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
395341074345101	09-19-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
395806074540501	09-14-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
395814075002201	*09-25-00*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*
	09-25-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2
395855074470701	*09-13-00*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.10*	*<.20*	*<.20*	*<.10*	*<.2*
	09-13-00	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2

STATION NUMBER	DATE	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
395341074345101	09-19-00	7.09	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
395806074540501	09-14-00	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
395814075002201	*09-25-00*	*<.10*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*
	09-25-00	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
395855074470701	*09-13-00*	*<.10*	*<.10*	*<.10*	*<.2*	*<.2*	*<.2*	*<.10*	*<.2*	*<.10*	*<.10*
	09-13-00	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 19--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION NUMBER	DATE	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
395341074345101	09-19-00	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395806074540501	09-14-00	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395814075002201	*09-25-00*	*<.2*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	09-25-00	.6	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
395855074470701	*09-13-00*	*<.2*	*<.2*	*<.20*	*<.10*	*<.10*	*<.1*	*<.10*	*<.10*	*<.20*	*<.2*
	09-13-00	1.6	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION NUMBER	DATE	TIME	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
395341074345101	09-19-00	0930	<.002	<.001	<.003	<.002	<.002	E.003	<.001	<.002
395806074540501	09-14-00	1320	<.002	.006	<.003	<.002	<.002	<.002	<.001	<.002
395814075002201	09-25-00	1130	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002
395855074470701	09-13-00	1110	<.002	<.001	<.003	<.002	<.002	<.002	<.001	<.002

STATION NUMBER	DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
395341074345101	09-19-00	<.005	<.002	<.004	<.006	<.004	<.018	E.003	<.005	<.010
395806074540501	09-14-00	<.005	E.004	<.004	<.006	<.004	<.018	<.004	<.005	<.010
395814075002201	09-25-00	<.005	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010
395855074470701	09-13-00	<.007	<.002	<.004	<.006	<.004	<.018	<.004	<.005	<.010

E Estimated value.
< Actual value is known to be less than the value shown.

WATERSHED MANAGEMENT AREA 20

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
400954074302001	250790	NJDEP IMLAYSTOWN MW1	400954	0743020	119	14.2	9.2 - 14.2	211MLRL

Aquifer units:
211MLRL - Mount Laurel Sand

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION	NUMBER	DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
400954074302001		09-28-00	0950	760	3	.3	5.7	506	20.0	87	23.0	7.27

STATION	NUMBER	DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
400954074302001		09-28-00	1.6	58.7	52	63	82.6	<.1	10.1	46.8	.25	<.020

STATION	NUMBER	DATE	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)
400954074302001		09-28-00	.41	.168	<.010	.104	284	263	1	6	1.0	7

STATION	NUMBER	DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
400954074302001		09-28-00	<1.0	<.8	<1	130	<1	54	<.2	E.4	<1	8

STATION	NUMBER	DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)
400954074302001		09-28-00	4.1	2.2	<3.00	4.3	4.52	<.10	<.10	<.10	<.2	<.10

STATION	NUMBER	DATE	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DICHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMOFORM TOTAL (UG/L) (32104)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	CHLOROBENZENE TOTAL (UG/L) (34301)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)
400954074302001		09-28-00	<.10	<.10	<.10	<.10	<.10	<.20	<.20	<.10	<.2	<.10

STATION	NUMBER	DATE	CIS-1,2-DICHLOROETHENE WATER TOTAL (UG/L) (77093)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	DICHLORODIFLUOROMETHANE TOTAL (UG/L) (34668)	DI-ISOPROPYLETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYLBENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)
400954074302001		09-28-00	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2

E Estimated value.
< Actual value is known to be less than the value shown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION	NUMBER	DATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)
400954074302001		09-28-00	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides using laboratory schedule 2001 (listed in its entirety, with minimum reporting levels, in the "Explanation of the Records" section in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table.

STATION	NUMBER	DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
400954074302001		09-28-00	0950	<.002	.009	<.041	<.003	E.008	<.005	<.005	<.002

STATION	NUMBER	DATE	MALA- THION, DIS- SOLVED (UG/L) (39532)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	P,P' DDE DISSOLV (UG/L) (34653)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
400954074302001		09-28-00	<.027	E.008	<.002	<.002	<.002	<.015	<.011	<.011	<.016

E Estimated value.
< Actual value is known to be less than the value shown.

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

The following tables contain site, water-level, and water-quality data from a network of 30 domestic and observation wells. The network was established as part of the National Water-Quality Assessment (NAWQA) Program in the Delaware River Basin (DELR).

The wells were sampled to assess the status of ground-water quality in the clastic bedrock of the Piedmont Physiographic Province. Samples were tested for field parameters, nutrients, major ions, trace elements, dissolved and volatile organic compounds (VOCs), pesticides (including their metabolites), and radioisotopes. Many VOCs and pesticide constituents were not detected at any of the 30 wells.

Tables listing all of the VOC and pesticide schedule analytes and their reporting levels are on pages 463-466. Only VOCs and pesticide compounds measured at or above the reporting levels at one or more sites (either surface water or ground water) of the DELR NAWQA Project are listed in the water-quality table.

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

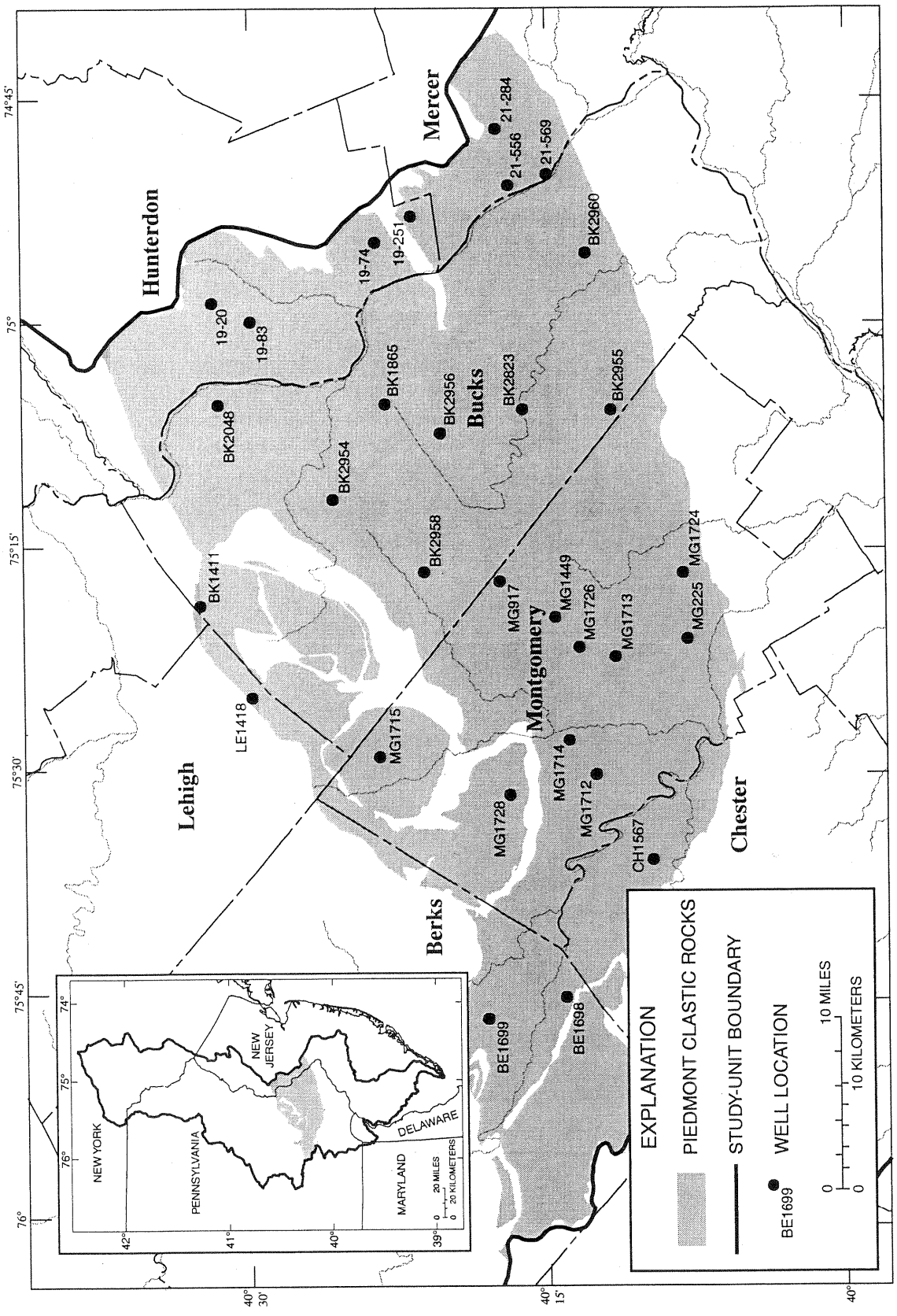

Figure 48.--Location of Delaware River Basin National Water-Quality Assessment Program ground-water-sampling sites in the Clastic Bedrock within the Triassic Lowlands Section of the Piedmont Physiographic Province.

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
			BERKS COUNTY PA					
BE 1698	401416075445601	06-29-99	1200	ENVIRONMENTAL	80020	1028	270	95.00
BE 1699	401811075462501	09-28-99	1200	ENVIRONMENTAL	80020	1028	270	260.00
		09-28-99	1201	REPLICATE	80020	1028	270	260.00
		09-28-99	1204	REPLICATE	80020	1028	270	260.00
			BUCKS COUNTY PA					
BK 1411	403237075185301	06-16-99	1200	ENVIRONMENTAL	80020	1028	600	160.00
BK 1865	402315075052701	10-13-99	1200	ENVIRONMENTAL	80020	1028	475	160.00
BK 2048	403140075052901	07-01-99	0900	ENVIRONMENTAL	80020	1028	460	190.00
BK 2823	401620075055001	10-05-99	1200	ENVIRONMENTAL	80020	1028	266	200.00
		10-05-99	1201	REPLICATE	80020	1028	266	200.00
		10-05-99	1210	REPLICATE	80020	1028	266	200.00
		10-05-99	1222	REPLICATE	80020	1028	266	200.00
BK 2954	402555075114701	06-15-99	1100	ENVIRONMENTAL	80020	1028	370	92.00
BK 2955	401154075055001	08-18-99	1200	ENVIRONMENTAL	80020	1028	300	67.00
BK 2956	402027075072901	09-08-99	1000	ENVIRONMENTAL	80020	1028	320	160.00
BK 2958	402119075173701	09-30-99	1100	ENVIRONMENTAL	80020	1028	410	160.00
BK 2960	401306074552001	11-23-99	1200	ENVIRONMENTAL	80020	1028	180	200.00
			CHESTER COUNTY PA					
CH 1567	400954075354501	07-15-99	1100	ENVIRONMENTAL	80020	1028	340	105.00
			LEHIGH COUNTY PA					
LE 1418	403002075250201	09-21-99	1400	ENVIRONMENTAL	80020	1028	740	400.00
			MONTGOMERY COUNTY PA					
MG 225	400808075210401	07-28-99	1300	ENVIRONMENTAL	80020	1028	165	486.00
MG 917	401733075171401	07-14-99	1400	ENVIRONMENTAL	80020	1028	350	500.00
		07-14-99	1401	REPLICATE	80020	1028	350	500.00
		07-14-99	1410	REPLICATE	80020	1028	350	500.00
MG 1449	401446075193701	10-21-99	1100	ENVIRONMENTAL	80020	1028	265	114.50
MG 1712	401245075300901	06-09-99	1100	ENVIRONMENTAL	80020	1028	245	150.00
MG 1713	401146075221601	06-10-99	1100	ENVIRONMENTAL	80020	1028	285	240.00
MG 1714	401405075275101	06-22-99	1100	ENVIRONMENTAL	80020	1028	200	210.00
MG 1715	402337075290001	06-30-99	1200	ENVIRONMENTAL	80020	1028	325	200.00
MG 1724	400821075164001	08-17-99	1100	ENVIRONMENTAL	80020	1028	310	92.00
MG 1726	401334075213801	10-20-99	1200	ENVIRONMENTAL	80020	1028	180	93.40
		10-20-99	1201	REPLICATE	80020	1028	180	93.40
		10-20-99	1204	REPLICATE	80020	1028	180	93.40
MG 1728	401705075313101	11-15-99	1100	ENVIRONMENTAL	80020	1028	280	150.00
			HUNTERDON COUNTY NJ					
190020	403156074583901	06-17-99	1300	ENVIRONMNETAL	80020	1028	525	275.00
190074	402341074543601	06-03-99	1300	ENVIRONMENTAL	80020	1028	290	107.00
190083	403003075000001	08-19-99	1100	ENVIRONMENTAL	80020	1028	510	168.00
190251	402151074525301	07-21-99	1100	ENVIRONMENTAL	80020	1028	405	299.00
		07-21-99	1110	REPLICATE	80020	1028	405	299.00

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
BERKS COUNTY PA										
BE 1698	9.62	8.2	7.5	299	13.4	130	38.8	8.36	.5	7.4
BE 1699	--	1.0	7.1	709	14.6	360	103	25.6	1.1	11.0
	--	1.0	7.1	709	14.6	--	--	--	--	--
	--	1.0	7.1	709	14.6	--	--	--	--	--
BUCKS COUNTY PA										
BK 1411	70.79	--	6.2	305	15.6	120	38.6	6.45	1.6	9.1
BK 1865	-.66	<.2	7.5	418	13.4	180	60.4	7.67	4.6	12.5
BK 2048	48.62	4.4	7.8	239	12.6	100	29.8	6.86	1.4	10.2
BK 2823	65.60	7.6	8.0	380	12.6	170	25.1	25.7	1.8	10.8
	65.60	7.6	8.0	380	12.6	170	25.1	25.7	1.7	10.8
	65.60	7.6	8.0	380	12.6	--	--	--	--	--
	65.60	7.6	8.0	380	12.6	--	--	--	--	--
BK 2954	58.02	5.5	7.4	282	13.0	120	26.4	14.2	.8	8.7
BK 2955	17.73	2.3	6.5	433	13.4	190	55.1	11.8	.6	12.7
BK 2956	15.60	4.6	5.6	192	13.8	61	15.1	5.67	1.3	14.5
BK 2958	65.60	1.8	7.5	511	13.6	250	60.4	23.2	.6	11.9
BK 2960	24.96	5.9	5.9	382	14.4	120	35.2	8.06	1.4	21.1
CHESTER COUNTY PA										
CH 1567	22.67	4.8	7.1	398	12.4	170	52.8	8.16	.9	11.6
LEHIGH COUNTY PA										
LE 1418	68.76	2.2	7.3	597	12.2	260	80.6	14.9	1.7	19.7
MONTGOMERY COUNTY PA										
MG 225	17.29	<.2	7.5	625	15.6	300	66.2	33.8	.9	15.5
MG 917	11.97	<.2	7.4	513	15.4	260	62.9	24.9	.9	12.9
	11.97	<.2	7.4	513	15.4	260	63.5	25.7	.9	13.8
	11.97	<.2	7.4	513	15.4	--	--	--	--	--
MG 1449	10.49	1.9	7.8	410	13.8	150	36.4	13.8	.8	34.6
MG 1712	6.81	4.2	7.7	295	14.0	130	40.2	7.02	.5	9.8
MG 1713	57.72	6.6	7.7	334	13.4	150	47.9	7.12	.8	9.3
MG 1714	74.20	6.0	7.6	401	13.8	180	36.8	21.7	.8	11.3
MG 1715	21.00	3.6	7.5	479	13.2	230	49.5	25.2	1.0	11.2
MG 1724	31.07	7.2	6.3	329	13.8	120	35.9	8.49	.9	16.6
MG 1726	24.64	4.5	7.4	463	13.0	200	63.3	10.6	1.0	18.2
	24.64	4.5	7.4	463	13.0	--	--	--	--	--
	24.64	4.5	7.4	463	13.0	--	--	--	--	--
MG 1728	-1.35	1.2	7.6	514	11.8	240	54.1	25.9	.9	11.0
HUNTERDON COUNTY NJ										
190020	18.07	3.3	8.0	282	12.4	110	22.5	12.7	.6	11.1
190074	41.47	5.3	7.1	360	14.0	190	55.2	13.8	1.0	11.6
190083	40.22	.4	7.4	463	14.0	220	50.3	23.9	1.0	14.8
190251	6.64	4.2	6.9	538	16.6	220	67.7	11.6	2.2	21.7
	6.64	4.2	6.9	538	16.6	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
BERKS COUNTY PA										
BE 1698	126	10.0	<.1	29.7	11.1	E.10	.027	3.77	<.010	.205
BE 1699	243	58.0	<.1	13.8	38.9	E.10	<.020	7.86	<.010	.040
	243	--	--	--	--	--	--	--	--	--
	243	--	--	--	--	--	--	--	--	--
BUCKS COUNTY PA										
BK 1411	74	20.4	<.1	16.7	24.0	E.10	<.020	3.98	<.010	.159
BK 1865	203	12.1	.1	20.0	35.6	E.10	.034	<.050	<.010	--
BK 2048	112	3.5	.3	25.6	8.6	<.10	.021	.382	<.010	.080
BK 2823	138	19.8	<.1	16.8	21.4	E.10	<.020	2.49	<.010	.034
	138	20.0	<.1	16.8	21.4	--	--	--	--	--
	138	--	--	--	--	--	--	--	--	--
	138	--	--	--	--	--	--	--	--	--
BK 2954	103	9.0	<.1	14.7	15.5	.13	<.020	4.68	<.010	.113
BK 2955	140	36.4	<.1	28.5	9.6	<.10	<.020	3.35	<.010	.288
BK 2956	30	25.8	<.1	23.1	13.5	<.10	<.020	2.78	<.010	.098
BK 2958	167	29.5	.1	21.2	56.2	E.10	<.020	.125	<.010	--
BK 2960	44	57.9	<.1	24.9	<.3	<.10	<.020	7.09	<.010	.267
CHESTER COUNTY PA										
CH 1567	101	42.1	<.1	21.3	11.9	<.10	<.020	4.29	<.010	.172
LEHIGH COUNTY PA										
LE 1418	196	46.5	<.1	11.8	40.7	<.10	<.020	1.87	<.010	.074
MONTGOMERY COUNTY PA										
MG 225	228	30.5	<.1	21.7	58.6	E.10	.039	<.050	<.010	.064
MG 917	245	10.4	.1	21.4	35.3	.40	.031	.199	<.010	1.91
	245	10.5	<.1	21.8	34.7	.10	<.020	.191	<.010	1.92
	245	--	--	--	--	--	--	--	--	--
MG 1449	145	23.4	<.1	18.1	19.9	E.10	<.020	3.10	<.010	.071
MG 1712	105	10.4	<.1	16.1	21.1	<.10	<.020	2.81	<.010	.132
MG 1713	107	15.8	<.1	19.0	13.9	<.10	<.020	5.00	<.010	.132
MG 1714	170	5.7	<.1	22.1	19.9	<.10	<.020	2.71	<.010	.126
MG 1715	196	13.5	<.1	21.3	18.5	E.10	<.020	6.30	<.010	.049
MG 1724	83	30.4	.1	32.0	16.7	<.10	<.020	3.42	<.010	.846
MG 1726	152	41.0	<.1	17.5	12.6	.16	<.020	3.07	<.010	.092
	152	--	--	--	--	--	--	--	--	--
	152	--	--	--	--	--	--	--	--	--
MG 1728	155	39.1	.1	16.3	32.1	<.10	<.020	3.29	<.010	--
HUNTERDON COUNTY NJ										
190020	113	6.1	<.1	19.8	10.9	E.10	<.020	3.35	<.010	.104
190074	133	26.3	<.1	23.9	28.8	E.10	.021	2.89	<.010	.147
190083	223	7.5	.2	22.7	18.7	<.10	<.020	.203	<.010	--
190251	148	50.4	.1	24.7	52.1	<.10	<.020	.887	.018	.049
	148	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINC

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (µG/L AS SB) (01095)	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)
BERKS COUNTY PA										
BE 1698	.079	.067	.40	192	199	0	<1	<1	2.2	376
BE 1699	.004	.013	1.1	450	433	0	<1	<1	<2.0	290
	--	--	1.1	--	--	0	--	--	--	--
	--	--	--	--	--	0	--	--	--	--
BUCKS COUNTY PA										
BK 1411	.071	.052	.70	218	179	0	<1	<1	<1.0	59
BK 1865	.012	<.010	.61	257	275	0	<1	<1	3.8	20
BK 2048	.029	.026	.40	157	155	0	<1	<1	2.9	149
BK 2823	.013	.011	.54	219	216	1	<1	<1	4.6	291
	--	--	--	215	204	1	--	--	--	--
	--	--	--	--	--	1	<1	<1	4.6	288
	--	--	--	--	--	1	--	--	--	--
BK 2954	.034	.037	1.0	190	172	0	<1	<1	1.7	304
BK 2955	.102	.094	.60	262	255	6	<1	<1	<1.0	739
BK 2956	.055	.032	.40	134	130	0	<1	<1	1.3	268
BK 2958	E.004	<.010	.79	316	304	1	<1	<1	6.3	122
BK 2960	.118	.087	.42	257	--	7	<1	<1	<2.0	240
CHESTER COUNTY PA										
CH 1567	.066	.056	.30	273	229	0	<1	<1	<1.0	433
LEHIGH COUNTY PA										
LE 1418	.006	.024	.60	336	342	13	<1	<1	4.5	173
MONTGOMERY COUNTY PA										
MG 225	.024	.021	.90	378	365	4	<1	<1	5.1	136
MG 917	--	.624	1.4	329	319	1	<1	<1	5.3	342
	.703	.626	--	328	321	1	--	--	--	--
	--	--	--	--	--	1	<1	<1	4.0	357
MG 1449	.015	.023	.50	249	248	1	<1	<1	3.9	272
MG 1712	.052	.043	.10	203	181	0	<1	<1	<1.0	183
MG 1713	.057	.043	.40	220	201	1	2	<1	2.7	349
MG 1714	.014	.041	.50	244	233	0	<1	<1	17.3	205
MG 1715	.014	.016	.60	287	286	3	<1	<1	4.3	377
MG 1724	.251	.276	.50	224	207	2	<1	<1	<1.0	319
MG 1726	.036	.030	.64	282	270	1	<1	<1	5.4	503
	--	--	.59	--	--	1	--	--	--	--
	--	--	--	--	--	1	--	--	--	--
MG 1728	E.004	<.010	.36	297	287	0	<1	<1	2.3	151
HUNTERDON COUNTY NJ										
190020	.031	.034	--	192	167	0	<1	<1	25.4	97
190074	.037	.048	.50	282	254	0	<1	<1	1.2	203
190083	.021	<.010	.70	274	274	2	<1	<1	4.0	272
190251	.007	.016	.80	342	324	3	1	<1	2.8	98
	--	--	--	--	--	3	2	<1	2.9	99

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	BERYLLIUM, DISSOLVED (µG/L AS BE) (01010)	BORON, DISSOLVED (µG/L AS B) (01020)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CADMIUM DISSOLVED (µG/L AS CD) (01025)	CHROMIUM, DISSOLVED (µG/L AS CR) (01030)	COBALT, DISSOLVED (µG/L AS CO) (01035)	COPPER, DISSOLVED (µG/L AS CU) (01040)	IRON, DISSOLVED (µG/L AS FE) (01046)	LEAD, DISSOLVED (µG/L AS PB) (01049)	MANGANESE, DISSOLVED (µG/L AS MN) (01056)
BERKS COUNTY PA										
BE 1698	<1	<16	.04	<1.0	<1.0	<1	1	<10	<1	<1
BE 1699	<1	26	.05	<1.0	<.8	<1	2	<10	<1	<1
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BUCKS COUNTY PA										
BK 1411	<1	16	.02	<1.0	<1.0	<1	23	E10	<1	<1
BK 1865	<1	17	.05	<1.0	<.8	<1	<1	50	2	71
BK 2048	<1	63	.03	<1.0	<1.0	<1	3	<10	<1	<1
BK 2823	<1	18	.03	<1.0	<.8	<1	4	<10	<1	<1
	--	--	.03	--	--	--	--	<10	--	<2
	<1	--	--	<1.0	<.8	<1	4	--	<1	<1
	--	--	--	--	--	--	--	--	--	--
BK 2954	<1	E15	.03	<1.0	<1.0	<1	1	<10	<1	<1
BK 2955	<1	19	.08	<1.0	--	<1	50	E10	<1	1
BK 2956	<1	E14	.03	<1.0	<1.0	<1	28	<10	2	1
BK 2958	<1	36	.04	<1.0	<.8	<1	1	50	<1	25
BK 2960	<1	37	.05	<1.0	<.8	<1	9	<10	<1	2
CHESTER COUNTY PA										
CH 1567	<1	E10	.09	<1.0	<1.0	<1	4	<10	2	<1
LEHIGH COUNTY PA										
LE 1418	<1	--	.03	<1.0	<1.0	<1	10	E10	<1	2
MONTGOMERY COUNTY PA										
MG 225	<1	51	.11	<1.0	<1.0	<1	<1	40	<1	127
MG 917	<1	21	.03	<1.0	<1.0	<1	<1	260	<1	335
	--	24	.06	--	--	--	--	260	--	--
	<1	--	--	<1.0	<1.0	<1	<1	--	<1	326
MG 1449	<1	57	.06	<1.0	<.8	<1	<1	<10	<1	<1
MG 1712	<1	34	.03	<1.0	--	<1	2	<10	<1	<1
MG 1713	<1	22	.03	<1.0	<1.0	<1	2	<10	1	<1
MG 1714	<1	38	.04	<1.0	<1.0	<1	2	<10	<1	<1
MG 1715	<1	48	.04	<1.0	<1.0	<1	2	<10	<1	<1
MG 1724	<1	E12	.04	<1.0	--	<1	24	<10	1	<1
MG 1726	<1	30	.05	<1.0	<.8	<1	3	<10	1	<1
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
MG 1728	<1	20	.03	<1.0	<.8	<1	2	<10	<1	<1
HUNTERDON COUNTY NJ										
190020	<1	233	.03	<1.0	<1.0	<1	2	<10	1	<1
190074	<1	E10	.03	<1.0	<1.0	<1	<1	<10	<1	<1
190083	<1	35	.04	<1.0	<1.0	<1	1	E10	2	1
190251	<1	<16	.08	<1.0	<1.0	1	<1	<10	<1	480
	<1	--	--	<1.0	<1.0	1	<1	--	<1	492

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	MOLYB-DENUM, DIS-SOLVED (µG/L AS MO) (01060)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (µG/L AS SE) (01145)	SILVER, DIS-SOLVED (µG/L AS AG) (01075)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ACETO-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)	ALA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (µG/L) (50009)
BERKS COUNTY PA										
BE 1698	<1	<1	<1.0	<1	<1	<.05	<.05	<.002	<.05	.110
BE 1699	<1	1	<2.4	<1	12	<.05	<.05	<.002	<.05	.140
	--	--	--	--	--	<.05	<.05	<.002	<.05	.140
	--	--	--	--	--	--	--	--	--	--
BUCKS COUNTY PA										
BK 1411	<1	2	<1.0	<1	253	<.05	<.05	<.002	<.05	<.050
BK 1865	1	1	<2.4	<1	2	<.05	<.05	<.002	<.05	<.050
BK 2048	1	<1	2.7	<1	2	<.05	<.05	<.002	<.05	<.050
BK 2823	8	<1	<2.4	<1	102	<.05	<.05	<.002	<.05	.160
	--	--	--	--	--	--	--	--	--	--
	8	<1	<2.4	<1	101	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BK 2954	2	<1	1.3	<1	8	<.05	<.05	<.002	<.05	<.050
BK 2955	<1	2	<1.0	<1	2	<.05	<.05	<.002	<.05	<.050
BK 2956	<1	3	1.2	<1	9	<.05	<.05	<.002	<.05	<.050
BK 2958	11	<1	<2.4	<1	5	<.05	<.05	<.002	<.05	<.050
BK 2960	<1	3	<2.4	<1	2	<.05	<.05	<.002	<.05	<.050
CHESTER COUNTY PA										
CH 1567	<1	1	<1.0	<1	1	<.05	<.05	<.002	<.05	<.050
LEHIGH COUNTY PA										
LE 1418	2	1	<1.0	<1	35	<.05	<.05	<.002	<.05	<.050
MONTGOMERY COUNTY PA										
MG 225	6	1	<1.0	<1	<1	<.05	<.05	<.002	<.05	<.050
MG 917	2	2	5.4	<1	4	<.05	<.05	<.002	<.05	.120
	--	--	--	--	--	--	--	--	--	--
	1	<1	<1.0	<1	4	--	--	--	--	--
MG 1449	1	<1	<2.4	<1	<1	<.05	<.05	<.002	<.05	.340
MG 1712	2	<1	<1.0	<1	<1	--	--	<.002	--	--
MG 1713	<1	<1	<1.0	<1	<1	<.05	<.05	<.002	<.05	2.42
MG 1714	9	<1	<1.0	<1	1	<.05	<.05	<.002	<.05	.050
MG 1715	<1	<1	2.0	<1	<1	<.05	<.05	<.002	<.05	.600
MG 1724	<1	2	<1.0	<1	3	<.05	<.05	<.002	--	<.050
MG 1726	1	1	<2.4	<1	10	<.05	<.05	<.002	<.05	.150
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
MG 1728	4	<1	<2.4	<1	2	.15	<.05	<.002	<.05	.060
HUNTERDON COUNTY NJ										
190020	2	<1	<1.0	<1	17	<.05	<.05	<.002	<.05	.620
190074	<1	<1	<1.0	<1	9	--	--	<.002	--	--
190083	<1	2	<1.0	<1	363	<.05	<.05	<.002	<.05	<.050
190251	1	2	<1.0	<1	3	.43	<.05	<.002	<.05	1.41
	1	2	<1.0	<1	4	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL	ALA-CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (µG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µG/L) (04040)
BERKS COUNTY PA										
BE 1698	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.013
BE 1699	<.002	.041	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.069
	<.002	.039	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.078
	--	--	--	--	--	--	--	--	--	--
BUCKS COUNTY PA										
BK 1411	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
BK 1865	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
BK 2048	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
BK 2823	<.002	E.002	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.004
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
BK 2954	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005
BK 2955	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
BK 2956	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003
BK 2958	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
BK 2960	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.015
CHESTER COUNTY PA										
CH 1567	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
LEHIGH COUNTY PA										
LE 1418	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
MONTGOMERY COUNTY PA										
MG 225	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
MG 917	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.009
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
MG 1449	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	E.004	E.010
MG 1712	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006
MG 1713	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005
MG 1714	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
MG 1715	<.002	.007	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.021
MG 1724	<.002	.005	<.002	<.002	E.004	<.003	<.004	<.004	<.002	E.004
MG 1726	<.002	E.004	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.007
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MG 1728	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
HUNTERDON COUNTY NJ										
190020	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
190074	<.002	E.003	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.024
190083	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003
190251	<.002	.058	<.002	<.002	<.003	<.003	<.004	<.009	<.002	E.076
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	DI-AZINON, DIS-SOLVED (µG/L) (39572)	DI-ELDRIN DIS-SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS-SOLVED (µG/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA-THION, DIS-SOLVED (µG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61044)
BERKS COUNTY PA										
BE 1698	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.44	<.05
BE 1699	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	2.06	.66
	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	2.00	.65
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BUCKS COUNTY PA										
BK 1411	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
BK 1865	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
BK 2048	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
BK 2823	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.06	<.05
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BK 2954	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.90	.13
BK 2955	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
BK 2956	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.08	<.05
BK 2958	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
BK 2960	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
CHESTER COUNTY PA										
CH 1567	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
LEHIGH COUNTY PA										
LE 1418	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
MONTGOMERY COUNTY PA										
MG 225	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
MG 917	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.07	<.05
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MG 1449	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.10	<.05
MG 1712	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	--	--
MG 1713	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.56	.32
MG 1714	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.12	<.05
MG 1715	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.39	.32
MG 1724	E.001	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
MG 1726	<.002	<.001	<.010	E.003	<.004	<.002	<.005	<.001	1.14	<.05
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MG 1728	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
HUNTERDON COUNTY NJ										
190020	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.09	<.05
190074	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	--	--
190083	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
190251	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	5.54	1.05
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	METO-LACHLOR WATER DISSOLV (µG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO-METON, WATER, DISS, REC (µG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)
BERKS COUNTY PA									
BE 1698	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BE 1699	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
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BUCKS COUNTY PA									
BK 1411	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BK 1865	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BK 2048	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BK 2823	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
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BK 2954	.007	<.004	<.003	<.006	<.004	E.006	<.003	<.007	<.004
BK 2955	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BK 2956	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
BK 2958	<.002	<.004	<.003	<.006	<.004	E.008	<.003	<.007	<.004
BK 2960	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
CHESTER COUNTY PA									
CH 1567	<.002	<.004	<.003	E.001	<.004	<.018	<.003	<.007	<.004
LEHIGH COUNTY PA									
LE 1418	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MONTGOMERY COUNTY PA									
MG 225	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 917	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
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MG 1449	.004	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 1712	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 1713	.006	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 1714	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 1715	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
MG 1724	E.004	<.004	<.003	<.006	<.004	<.018	<.003	<.007	E.002
MG 1726	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
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MG 1728	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
HUNTERDON COUNTY NJ									
190020	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
190074	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
190083	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
190251	.064	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	SI-MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (µG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (µG/L) (34496)
BERKS COUNTY PA									
BE 1698	<.005	<.010	<.007	--	<.001	<.002	E.01	<.06	<.07
BE 1699	E.004	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
	E.004	<.010	<.007	--	<.001	<.002	--	--	--
	--	--	--	--	--	--	<.03	<.06	<.07
BUCKS COUNTY PA									
BK 1411	<.005	<.010	<.007	--	<.001	<.002	E.01	<.06	<.07
BK 1865	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
BK 2048	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
BK 2823	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
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BK 2954	.204	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
BK 2955	<.005	<.077	<.007	--	<.001	<.002	.21	E.03	<.07
BK 2956	<.008	<.010	<.007	--	<.001	<.002	E.05	<.06	<.07
BK 2958	E.004	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
BK 2960	<.005	<.010	<.007	--	<.001	<.002	E.06	<.06	E.05
CHESTER COUNTY PA									
CH 1567	<.005	<.010	<.007	--	<.001	<.002	E.05	<.06	<.07
LEHIGH COUNTY PA									
LE 1418	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
MONTGOMERY COUNTY PA									
MG 225	<.005	<.077	<.007	--	<.001	<.002	<.03	<.06	E.07
MG 917	<.005	<.077	<.007	--	<.001	<.002	<.03	<.06	.54
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MG 1449	<.005	<.010	<.007	--	<.001	<.002	E.02	<.06	<.07
MG 1712	<.005	<.010	<.007	--	<.001	<.002	E.01	<.06	<.07
MG 1713	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
MG 1714	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
MG 1715	<.005	<.010	<.007	--	<.001	<.002	.26	<.06	<.07
MG 1724	<.005	<.010	<.007	--	<.001	E.004	.33	<.06	<.07
MG 1726	<.005	<.010	<.007	--	E.003	E.001	<.03	<.06	<.07
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MG 1728	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
HUNTERDON COUNTY NJ									
190020	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
190074	<.005	<.010	<.007	--	<.001	<.002	E.01	<.06	<.07
190083	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
190251	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (µG/L) (34541)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (µG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (µG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34571)
BERKS COUNTY PA									
BE 1698	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BE 1699	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
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	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
BUCKS COUNTY PA									
BK 1411	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BK 1865	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
BK 2048	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BK 2823	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
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BK 2954	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BK 2955	E.02	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BK 2956	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
BK 2958	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
BK 2960	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
CHESTER COUNTY PA									
CH 1567	<.04	<.07	<5	<.1	<.2	<.06	<.04	E.01	<.05
LEHIGH COUNTY PA									
LE 1418	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
MONTGOMERY COUNTY PA									
MG 225	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 917	.18	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
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MG 1449	E.02	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
MG 1712	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 1713	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 1714	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 1715	.10	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 1724	.13	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
MG 1726	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
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	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
MG 1728	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
HUNTERDON COUNTY NJ									
190020	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
190074	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
190083	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
190251	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINC

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	ISO-PROPYL-BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO-FORM TOTAL (µG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (µG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (µG/L) (32102)	CHLORO-BENZENE TOTAL (µG/L) (34301)
BERKS COUNTY PA									
BE 1698	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BE 1699	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
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	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
BUCKS COUNTY PA									
BK 1411	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BK 1865	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
BK 2048	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BK 2823	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
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BK 2954	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BK 2955	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BK 2956	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
BK 2958	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
BK 2960	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
CHESTER COUNTY PA									
CH 1567	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
LEHIGH COUNTY PA									
LE 1418	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
MONTGOMERY COUNTY PA									
MG 225	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 917	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
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MG 1449	<.03	<.2	<.04	<.05	<.04	E.07	<.07	<.06	<.03
MG 1712	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 1713	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 1714	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 1715	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 1724	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
MG 1726	<.03	<.2	<.04	<.05	<.04	.25	<.07	E.04	<.03
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	<.03	<.2	<.04	<.05	<.04	.22	<.07	E.04	<.03
MG 1728	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
HUNTERDON COUNTY NJ									
190020	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
190074	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
190083	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
190251	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	CHLORO-DI-BROMO-METHANE TOTAL (µG/L) (32105)	CHLORO-ETHANE TOTAL (µG/L) (34311)	CHLORO-FORM TOTAL (µG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)	ETHYL-BENZENE TOTAL (µG/L) (34371)
BERKS COUNTY PA									
BE 1698	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1	<.03
BE 1699	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
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	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
BUCKS COUNTY PA									
BK 1411	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1	<.03
BK 1865	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
BK 2048	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
BK 2823	<.2	<.1	E.05	<.04	<.05	<.2	<.05	<.1	<.03
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BK 2954	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
BK 2955	<.2	<.1	.17	<.04	<.05	<.2	<.05	<.1	<.03
BK 2956	<.2	<.1	E.04	<.04	<.05	<.2	<.05	<.1	<.03
BK 2958	<.2	<.1	<.05	E.04	<.05	<.2	<.05	<.1	<.03
BK 2960	<.2	<.1	.15	<.04	<.05	<.2	<.05	<.1	<.03
CHESTER COUNTY PA									
CH 1567	<.2	<.1	.23	<.04	<.05	<.2	<.05	<.1	<.03
LEHIGH COUNTY PA									
LE 1418	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1	<.03
MONTGOMERY COUNTY PA									
MG 225	<.2	<.1	<.05	E.02	<.05	<.2	<.05	<.1	<.03
MG 917	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
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MG 1449	M	<.1	.13	<.04	E.03	<.2	<.05	<.1	<.03
MG 1712	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1	<.03
MG 1713	<.2	M	3.30	<.04	<.05	<.2	<.05	<.1	<.03
MG 1714	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1	<.03
MG 1715	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1	<.03
MG 1724	<.2	<.1	1.15	<.04	E.08	<.2	<.05	<.1	<.03
MG 1726	E.1	<.1	3.94	<.04	E.05	<.2	<.05	<.1	<.03
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	E.1	<.1	3.75	<.04	E.05	<.2	<.05	<.1	<.03
MG 1728	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
HUNTERDON COUNTY NJ									
190020	<.2	<.1	E.04	<.04	<.05	<.2	<.05	<.1	<.03
190074	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
190083	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
190251	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	FREON-113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA-HYDRO- WATER UNFLTRD RECOVER (µG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL-CHLO-RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (µG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (µG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (µG/L) (85795)
BERKS COUNTY PA									
BE 1698	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
BE 1699	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
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	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BUCKS COUNTY PA									
BK 1411	<.03	<9	M	E.1	<.2	<.4	<2	<.4	<.06
BK 1865	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BK 2048	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
BK 2823	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
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BK 2954	<.03	<9	<.2	E.1	<.2	<.4	<2	<.4	<.06
BK 2955	E.04	<9	<.2	E.2	<.2	<.4	<2	<.4	<.06
BK 2956	<.03	<9	<.2	.2	<.2	<.4	<2	<.4	<.06
BK 2958	<.06	<2	<.2	M	<.5	<.4	<2	<.4	<.06
BK 2960	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
CHESTER COUNTY PA									
CH 1567	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
LEHIGH COUNTY PA									
LE 1418	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MONTGOMERY COUNTY PA									
MG 225	<.03	<9	<.2	E.1	<.2	<.4	<2	<.4	<.06
MG 917	<.03	<9	<.2	E.1	<.2	<.4	<2	<.4	<.06
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MG 1449	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MG 1712	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
MG 1713	<.03	<9	<.2	<.2	<.2	E.1	<2	<.4	<.06
MG 1714	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
MG 1715	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
MG 1724	<.03	<9	<.2	E.1	<.2	<.4	<2	<.4	<.06
MG 1726	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
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	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
MG 1728	<.06	<2	<.2	M	<.5	<.4	<2	<.4	<.06
HUNTERDON COUNTY NJ									
190020	<.03	<9	<.2	<.2	M	<.4	<2	<.4	<.06
190074	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
190083	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
190251	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	NAPHTHALENE TOTAL (µG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRACHLOROETHYLENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRICHLOROETHYLENE TOTAL (µG/L) (39180)
BERKS COUNTY PA									
BE 1698	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	<.04
BE 1699	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BUCKS COUNTY PA									
BK 1411	E.1	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
BK 1865	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BK 2048	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	<.04
BK 2823	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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BK 2954	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
BK 2955	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	E.03
BK 2956	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	<.04
BK 2958	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	E.08
BK 2960	<.2	<.04	<.04	<.07	<.04	M	<.06	1.05	.18
CHESTER COUNTY PA									
CH 1567	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	.14
LEHIGH COUNTY PA									
LE 1418	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04
MONTGOMERY COUNTY PA									
MG 225	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
MG 917	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
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MG 1449	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	E.03
MG 1712	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
MG 1713	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
MG 1714	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
MG 1715	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	E.02
MG 1724	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	E.02
MG 1726	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04
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	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04
MG 1728	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
HUNTERDON COUNTY NJ									
190020	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
190074	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
190083	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
190251	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	TRI-CHLORO-FLUORO-METHANE TOTAL (µG/L) (34488)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228 DIS-SOLVED (PCI/L AS RA-228) (81366)	RA-224 WATER FLTRD (PCI/L) (50833)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (µG/L AS U) (22703)
BERKS COUNTY PA								
BE 1698	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	2040	<1
BE 1699	<.09	<3.00	<4.00	<1.00	1.45	<1.00	1400	4
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	<.09	--	--	--	--	--	--	--
BUCKS COUNTY PA								
BK 1411	<.09	<3.00	8.48	<1.00	<1.00	<1.00	1100	<1
BK 1865	<.09	31.7	13.5	7.59	2.53	<1.00	1750	6
BK 2048	<.09	19.3	13.3	<1.00	<1.00	<1.00	3550	4
BK 2823	<.09	7.11	6.17	<1.00	<1.00	<1.00	1740	6
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	--	7.12	5.28	<1.00	1.82	<1.00	--	--
BK 2954	<.09	4.88	<4.00	<1.00	<1.00	<1.00	1800	3
BK 2955	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1170	<1
BK 2956	.25	5.03	<4.00	<1.00	<1.00	<1.00	5010	<1
BK 2958	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	566	3
BK 2960	<.09	<3.00	4.83	<1.00	1.09	<1.00	1810	<1
CHESTER COUNTY PA								
CH 1567	<.09	4.06	4.75	<1.00	<1.00	<1.00	1660	<1
LEHIGH COUNTY PA								
LE 1418	<.09	4.27	4.07	<1.00	<1.00	<1.00	375	2
MONTGOMERY COUNTY PA								
MG 225	<.09	4.45	<4.00	<1.00	<1.00	<1.00	1750	5
MG 917	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1700	3
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MG 1449	E.04	8.56	<4.00	<1.00	<1.00	<1.00	1830	4
MG 1712	<.09	6.54	<4.00	<1.00	<1.00	<1.00	2100	7
MG 1713	<.09	10.8	5.12	<1.00	<1.00	<1.00	2150	2
MG 1714	<.09	6.72	<4.00	<1.00	<1.00	<1.00	2560	4
MG 1715	<.09	4.76	<4.00	<1.00	<1.00	<1.00	2280	3
MG 1724	.14	3.43	<4.00	<1.00	<1.00	<1.00	2190	<1
MG 1726	<.09	6.69	<4.00	<1.00	1.16	<1.00	2900	8
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	<.09	--	--	--	--	--	--	--
MG 1728	<.09	20.7	14.6	<1.00	<1.00	<1.00	4560	4
HUNTERDON COUNTY NJ								
190020	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	2560	2
190074	<.09	3.17	5.85	<1.00	<1.00	<1.00	2730	3
190083	<.09	9.61	8.15	<1.00	1.21	<1.00	1020	2
190251	<.09	3.93	4.53	<1.00	<1.00	<1.00	2650	2
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
				HUNTERDON COUNTY NJ				
190251	402151074525301	07-21-99	1101	REPLICATE	80020	1028	405	299.00
				MERCER COUNTY NJ				
210284	401734074470301	10-12-99	1200	ENVIRONMENTAL	80020	1028	200	63.00
210556	401658074505001	04-14-99	1600	ENVIRONMENTAL	80020	1028	70.0	125.00
		06-08-99	1300	ENVIRONMENTAL	1028	1028	70.0	125.00
210569	401458074501101	07-29-99	1200	ENVIRONMENTAL	80020	1028	30.0	66.00
		07-29-99	1201	REPLICATE	80020	1028	30.0	66.00

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
					HUNTERDON COUNTY NJ					
190251	6.64	4.2	6.9	538	16.6	220	67.1	11.8	2.3	21.4
					MERCER COUNTY NJ					
210284	11.21	.2	7.7	601	16.2	250	56.4	26.5	3.8	25.3
210556	14.24	5.5	7.2	434	12.6	180	45.6	15.3	<.1	18.5
	--	5.2	7.1	241	13.0	--	--	--	--	--
210569	--	4.5	6.4	263	14.0	100	26.9	8.36	1.2	11.3
	--	4.5	6.4	263	14.0	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
					HUNTERDON COUNTY NJ					
190251	148	48.8	.1	24.6	51.3	E.10	<.020	.841	.020	.046
					MERCER COUNTY NJ					
210284	181	13.1	<.1	21.1	5.5	E.10	<.020	.118	<.010	.055
210556	115	39.6	.1	19.3	28.1	<.10	<.020	1.41	<.010	.067
	--	--	--	--	--	--	--	--	--	--
210569	71	18.0	<.1	19.7	19.6	E.10	<.020	2.37	<.010	.150
	71	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (µG/L AS SB) (01095)	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)
				HUNTERDON COUNTY NJ						
190251	.008	.015	--	336	320	3	--	--	--	--
				MERCER COUNTY NJ						
210284	.012	.018	.76	347	261	0	<1	<1	4.0	264
210556	.026	.022	.50	273	--	0	<1	<1	1.0	87
	--	--	--	--	--	0	--	--	--	--
210569	.059	.049	.30	164	159	0	<1	<1	<1.0	221
	--	--	--	--	--	0	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	BERYL-LIUM, DIS-SOLVED (µG/L AS BE) (01010)	BORON, DIS-SOLVED (µG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (µG/L AS CR) (01030)	COBALT, DIS-SOLVED (µG/L AS CO) (01035)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)
				HUNTERDON COUNTY NJ						
190251	--	--	.08	--	--	--	--	<10	--	434
				MERCER COUNTY NJ						
210284	<1	93	.07	<1.0	<.8	<1	<1	E10	<1	18
210556	<1	63	.04	<1.0	<1.0	<1	6	<10	<1	<1
	--	--	--	--	--	--	--	--	--	--
210569	<1	27	.04	<1.0	<1.0	<1	8	<10	<1	<1
	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	MOLYB-DENUM, DIS-SOLVED (µG/L AS MO) (01060)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (µG/L AS SE) (01145)	SILVER, DIS-SOLVED (µG/L AS AG) (01075)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ACETO-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)	ALA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (µG/L) (50009)
				HUNTERDON COUNTY NJ						
190251	--	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ						
210284	4	1	<2.4	<1	2	<.05	<.05	<.002	<.05	<.050
210556	.9	<1	<1.0	<1	3	--	--	<.002	--	--
	--	--	--	--	--	--	--	--	--	--
210569	<1	<1	<1.0	<1	1	<.05	<.05	<.002	<.05	.120
	--	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	ALACHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRAZINE, WATER, DISS, REC (µG/L) (39632)	BENFLURALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYLATE, WATER, DISS, REC (µG/L) (04028)	CARBARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLORPYRIFOS DISSOLVED (µG/L) (38933)	CYANAZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (µG/L) (04040)
				HUNTERDON COUNTY NJ						
190251	--	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ						
210284	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002
210556	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.005
	--	--	--	--	--	--	--	--	--	--
210569	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.007
	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	DIAZINON, DISSOLVED (µG/L) (39572)	DIELDRIN DISSOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DISSOLVED (µG/L) (39341)	LINURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALATHION, DISSOLVED (µG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METOLACHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61043)	METOLACHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61044)
				HUNTERDON COUNTY NJ						
190251	--	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ						
210284	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.05	<.05
210556	<.002	.031	<.002	<.003	<.004	<.002	<.005	<.001	--	--
	--	--	--	--	--	--	--	--	--	--
210569	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.26	<.05
	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	METOLACHLOR WATER DISSOLV (µG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (µG/L) (82630)	NAPROPAMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PROMETON, WATER, DISS, REC (µG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPACHLOR, WATER, DISS, REC (µG/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)
				HUNTERDON COUNTY NJ					
190251	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ					
210284	<.002	<.004	<.003	<.006	<.004	E.011	<.003	<.007	<.004
210556	E.003	<.004	<.003	<.006	<.004	E.014	<.003	<.007	<.004
	--	--	--	--	--	--	--	--	--
210569	<.002	<.004	<.003	<.006	<.004	<.018	<.003	<.007	<.004
	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	SI-MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (µG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (µG/L) (34496)
				HUNTERDON COUNTY NJ					
190251	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ					
210284	<.005	<.010	<.007	--	<.001	<.002	<.03	<.06	<.07
210556	.008	<.077	<.007	--	<.001	<.002	E.03	<.06	<.07
	--	--	--	--	--	--	--	--	--
210569	<.005	<.010	<.007	--	<.001	<.002	E.01	<.06	<.07
	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (µG/L) (34541)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (µG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (µG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34571)
				HUNTERDON COUNTY NJ					
190251	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ					
210284	<.04	<.07	<7	<.1	<.2	<.06	<.04	<.05	<.05
210556	<.04	<.07	E4	<.1	<.2	<.06	<.04	<.05	<.05
	--	--	--	--	--	--	--	--	--
210569	<.04	<.07	<5	<.1	<.2	<.06	<.04	<.05	<.05
	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	ISO-PROPYL-BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO-FORM TOTAL (µG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (µG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (µG/L) (32102)	CHLORO-BENZENE TOTAL (µG/L) (34301)
				HUNTERDON COUNTY NJ					
190251	--	--	--	--	--	--	--	--	--
				MERCER COUNTY NJ					
210284	<.03	<.2	<.04	<.05	<.04	<.06	<.07	<.06	<.03
210556	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
	--	--	--	--	--	--	--	--	--
210569	<.03	<.2	<.04	<.05	<.10	<.10	<.37	<.09	<.03
	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	CHLORO-DI-BROMO-METHANE TOTAL (µG/L) (32105)	CHLORO-ETHANE TOTAL (µG/L) (34311)	CHLORO-FORM TOTAL (µG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)	ETHYL-BENZENE TOTAL (µG/L) (34371)
HUNTERDON COUNTY NJ									
190251	--	--	--	--	--	--	--	--	--
MERCER COUNTY NJ									
210284	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1	<.03
210556	<.2	<.1	7.14	<.04	E.03	<.2	<.05	<.1	<.03
	--	--	--	--	--	--	--	--	--
210569	<.2	<.1	4.63	<.04	E.01	<.2	<.05	<.1	<.03
	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	FREON-113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (µG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL-CHLO-RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (µG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (µG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (µG/L) (85795)
HUNTERDON COUNTY NJ									
190251	--	--	--	--	--	--	--	--	--
MERCER COUNTY NJ									
210284	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
210556	<.03	<9	<.2	<.2	<.2	<.4	<2	<.4	<.06
	--	--	--	--	--	--	--	--	--
210569	<.03	<9	<.2	E.1	<.2	<.4	<2	<.4	<.06
	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	NAPHTH-ALENE TOTAL (µG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µG/L) (39180)
HUNTERDON COUNTY NJ									
190251	--	--	--	--	--	--	--	--	--
MERCER COUNTY NJ									
210284	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
210556	<.2	<.04	<.06	<.11	<.04	M	<.10	<.05	<.04
	--	--	--	--	--	--	--	--	--
210569	<.2	<.04	<.06	<.11	<.04	<.1	<.10	<.05	<.04
	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE TRIASSIC LOWLANDS SECTION OF THE PIEDMONT PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEARS 1999 AND 2000

LOCAL ID	TRI-CHLORO-FLUORO-METHANE TOTAL (µG/L) (34488)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228 DIS-SOLVED (PCI/L AS RA-228) (81366)	RA-224 WATER FLTRD (PCI/L) (50833)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (µG/L AS U) (22703)
			HUNTERDON COUNTY NJ					
190251	--	--	--	--	--	--	--	--
			MERCER COUNTY NJ					
210284	<.09	5.45	<4.00	<1.00	<1.00	<1.00	813	4
210556	<.09	--	--	--	--	--	1970	<1
	--	<3.00	<4.00	<1.00	<1.00	<1.00	--	--
210569	<.09	3.63	<4.00	<1.00	<1.00	<1.00	1520	<1
	--	--	--	--	--	--	1590	--

WATER-QUALITY CONTROL DATA

As part of the water-quality sampling for the DELR NAWQA, an extensive quality-assurance plan was executed to ensure the integrity of the sample results. Quality-control samples were collected as blanks, including ambient, trip, source-solution, and equipment blanks; replicates; and spikes. These quality-control samples were analyzed for nutrients, major ions, trace elements, dissolved and volatile organic compounds, pesticides and their metabolites, and radioisotopes. Source-solution blanks were analyzed for volatile organic compounds (VOCs) and dissolved organic carbon (DOC), and spikes were analyzed for pesticides and VOCs.

The following summarizes the quality-control sample results: Replicate samples were collected at 20 separate sample sites for one or more of the above chemical groups. All replicates closely reproduced the results for the environmental samples. Results from replicate samples are included within the water-quality tables on pages 601-622. Twenty-eight blank samples were collected. Concentrations of all constituents analyzed in the blank samples were less than the method detection limits, except for total toluene, which had two detections at E 0.01 and E 0.04 µG/L. As a result, toluene was censored for results below the lab reporting limit of 0.05 µG/L, and was assigned a value of <0.05 µG/L. The four pesticide spikes of 100-µL/1-L liter of sample had recoveries between 72 and 113 percent. The four VOC spikes of 20-µL/40-mL of sample had recoveries between 96 and 104 percent.

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

The following tables contain site, water-level, and water-quality data from a network of 30 domestic and observation wells. The network was established as part of the National Water-Quality Assessment (NAWQA) Program in the Delaware River Basin (DELR).

The wells were sampled to assess the status of ground-water quality in the clastic bedrock of the Valley and Ridge Physiographic Province. Samples were tested for field parameters, nutrients, major ions, trace elements, dissolved and volatile organic compounds (VOCs), pesticides (including their metabolites), radioisotopes, and selected bacteriological parameters. Many VOCs and pesticide constituents were not detected at any of the 30 wells.

Tables listing all of the VOC and pesticide schedule analytes and their reporting levels are on pages 463-466. Only VOCs and pesticide compounds measured at or above the reporting levels at one or more sites (either surface water or ground water) of the DELR NAWQA Project are listed in the water-quality table.

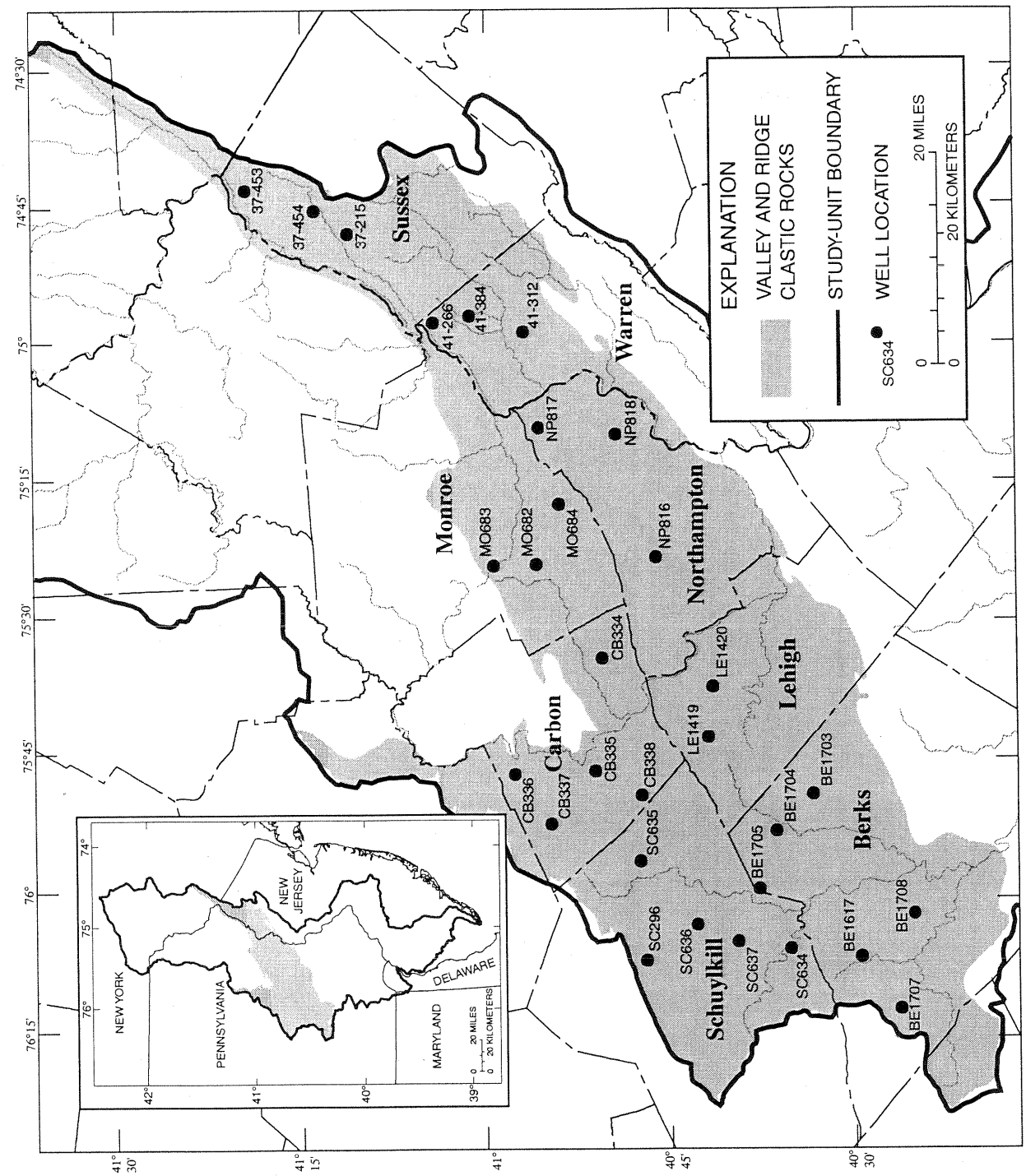

Figure 49.--Location of Delaware River Basin National Water-Quality Assessment Program ground-water sampling sites in the Clastic Bedrock within the Valley and Ridge Physiographic Province.

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
			BERKS COUNTY PA					
BE 1617	402939076062701	07-11-00	1200	ENVIRONMENTAL	80020	1028	560	128.00
BE 1703	403342075485901	05-08-00	1100	ENVIRONEMNTAL	80020	1028	560	120.00
BE 1704	403640075530001	05-23-00	1200	ENVIRONMENTAL	80020	1028	500	300.00
BE 1705	403803075591401	07-18-00	1200	ENVIRONMENTAL	80020	1028	1300	245.00
BE 1707	402622076120201	06-20-00	1200	ENVIRONMENTAL	80020	1028	550	90.00
		06-20-00	1201	REPLICATE	80020	1028	550	90.00
		06-20-00	1210	REPLICATE	80020	1028	550	90.00
BE 1708	402517076014701	06-22-00	1200	ENVIRONMENTAL	80020	1028	400	175.00
			CARBON COUNTY PA					
CB 334	405046075341901	05-10-00	1200	ENVIRONMENTAL	80020	1028	1030	440.00
CB 335	405118075464101	06-13-00	1100	ENVIRONMENTAL	80020	1028	1060	220.00
		06-13-00	1101	REPLICATE	80020	1028	1060	220.00
CB 336	405754075470401	06-15-00	1100	ENVIRONMENTAL	80020	1028	1280	88.00
CB 337	405453075522601	07-10-00	1300	ENVIRONMENTAL	80020	1028	1240	500.00
		07-10-00	1301	REPLICATE	80020	1028	1240	500.00
CB 338	404734075491601	07-12-00	1200	ENVIRONMENTAL	80020	1028	620	150.00
		07-12-00	1201	REPLICATE	80020	1028	620	150.00
		07-12-00	1204	REPLICATE	80020	1028	620	150.00
			LEHIGH COUNTY PA					
LE 1419	404212075425401	05-22-00	1200	ENVIRONMENTAL	80020	1028	615	220.00
LE 1420	404150075371901	05-24-00	1200	ENVIRONMENTAL	80020	1028	710	130.00
			MONROE COUNTY PA					
MO 682	405605075240901	05-15-00	1200	ENVIRONMENTAL	80020	1028	970	340.00
MO 683	405934075242001	05-16-00	1100	ENVIRONMENTAL	80020	1028	1120	160.00
MO 684	405414075174001	06-12-00	1400	ENVIRONMENTAL	80020	1028	760	260.00
			NORTHAMPTON COUNTY PA					
NP 816	404624075232001	05-09-00	1100	ENVIRONMENTAL	80020	1028	840	150.00
NP 817	405552075091901	05-11-00	1200	ENVIRONMENTAL	80020	1028	800	200.00
		05-11-00	1201	REPLICATE	1028	1028	800	200.00
		05-11-00	1210	REPLICATE	1028	1028	800	200.00
NP 818	404935075100201	06-14-00	1200	ENVIRONMENTAL	80020	1028	740	260.00
			SCHUYLKILL COUNTY PA					
SC 296	404708076070701	04-26-00	1400	ENVIRONMENTAL	80020	1028	1290	242.00
SC 634	403529076054201	04-25-00	1300	ENVIRONMENTAL	80020	1028	540	120.00
SC 635	404740075562301	04-27-00	1200	ENVIRONMENTAL	80020	1028	1030	306.00
SC 636	404306076031101	06-19-00	1200	ENVIRONMENTAL	80020	1028	1060	314.00
SC 637	403944076045901	06-21-00	1100	ENVIRONMENTAL	80020	1028	660	164.00
		06-21-00	1101	REPLICATE	80020	1028	660	164.00

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
BERKS COUNTY PA										
BE 1617	75.70	2.1	7.5	197	15.8	83	22.8	6.32	.6	6.5
BE 1703	29.20	9.3	7.7	323	13.6	140	42.4	8.83	.6	3.9
BE 1704	47.68	6.0	7.4	168	12.2	78	25.3	3.45	.6	3.7
BE 1705	75.65	6.1	5.3	18	13.0	5	.51	.95	.3	.9
BE 1707	41.48	4.6	6.8	195	15.0	92	5.86	18.7	.6	5.1
	41.48	4.6	6.8	195	15.0	93	6.04	18.8	.7	5.2
	41.48	4.6	6.8	195	15.0	--	--	--	--	--
BE 1708	15.26	.2	7.9	269	14.6	120	40.2	5.34	.8	4.8
CARBON COUNTY PA										
CB 334	105.11	6.6	7.3	183	12.2	83	22.5	5.32	.3	5.0
CB 335	78.55	9.0	5.8	35	12.2	14	4.29	.80	.3	1.3
	78.55	9.0	5.8	35	12.2	--	--	--	--	--
CB 336	74.00	7.3	5.3	49	13.4	13	2.76	1.51	.7	3.6
CB 337	25.74	9.2	5.6	137	14.2	51	15.2	3.05	.6	2.7
	25.74	9.2	5.6	137	14.2	--	--	--	--	--
CB 338	--	.2	7.6	122	14.2	52	14.5	3.67	E.2	4.8
	--	.2	7.6	122	14.2	--	--	--	--	--
	--	.2	7.6	122	14.2	--	--	--	--	--
LEHIGH COUNTY PA										
LE 1419	7.69	<.2	8.0	297	11.8	130	38.9	8.97	.6	6.9
LE 1420	57.15	4.0	7.4	271	15.2	130	38.7	8.43	.4	7.6
MONROE COUNTY PA										
MO 682	87.49	5.7	6.2	144	12.6	46	10.4	4.83	.5	8.5
MO 683	55.95	9.4	5.1	82	11.0	22	3.81	2.93	.7	5.0
MO 684	126.09	9.5	6.9	105	12.4	49	17.9	1.06	E.2	1.0
NORTHAMPTON COUNTY PA										
NP 816	52.21	7.0	6.9	304	16.6	120	41.8	3.95	.4	10.0
NP 817	36.92	1.2	7.7	175	12.2	79	24.3	4.28	.3	6.7
	36.92	1.2	7.7	175	12.2	--	24.3	4.25	.28	6.6
	36.92	1.2	7.7	175	12.2	--	--	--	--	--
NP 818	46.97	8.5	6.2	187	12.2	85	24.6	5.60	.8	3.9
SCHUYLKILL COUNTY PA										
SC 296	40.12	7.1	5.6	79	11.8	30	8.61	2.00	.7	1.6
SC 634	45.27	.4	7.8	158	15.0	67	21.6	3.05	.4	5.2
SC 635	14.05	3.7	7.4	186	10.8	53	19.2	1.01	E.2	16.9
SC 636	65.95	11.6	6.2	47	11.6	20	6.55	.97	.4	.6
SC 637	14.46	.2	7.3	188	13.4	85	26.9	4.34	.4	5.9
	14.46	.2	7.3	188	13.4	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
BERKS COUNTY PA										
BE 1617	84	1.9	<.1	14.4	5.9	<.10	<.020	2.74	<.010	.083
BE 1703	93	9.4	<.1	11.6	14.0	<.10	<.020	10.7	<.010	.040
BE 1704	75	1.7	<.1	11.1	6.0	<.10	<.020	1.20	<.010	.043
BE 1705	5	2.1	<.1	5.9	.4	<.10	<.020	<.050	<.010	--
BE 1707	78	3.5	.1	15.7	9.1	<.10	<.020	3.70	<.010	.178
	78	3.5	.2	15.6	9.1	<.10	<.020	3.68	<.010	.178
	78	--	--	--	--	--	--	--	--	--
BE 1708	77	3.5	.1	14.6	50.8	<.10	<.020	<.050	<.010	.113
CARBON COUNTY PA										
CB 334	70	3.7	<.1	12.8	9.4	<.10	<.020	1.99	<.010	--
CB 335	13	1.7	<.1	7.7	1.0	E.10	<.020	.134	<.010	.049
	13	--	--	--	--	--	--	--	--	--
CB 336	8	7.9	<.1	7.1	.4	<.10	<.020	.753	<.010	--
CB 337	10	7.8	<.1	8.3	2.4	<.10	<.020	10.1	<.010	--
	10	--	--	--	--	--	--	--	--	--
CB 338	52	1.0	.2	18.8	8.6	E.10	.028	<.050	<.010	.261
	52	--	--	--	--	--	--	--	--	--
	52	--	--	--	--	--	--	--	--	--
LEHIGH COUNTY PA										
LE 1419	70	13.0	<.1	13.4	56.2	<.10	.028	.129	.051	--
LE 1420	60	7.2	.1	13.5	76.3	E.10	<.020	.660	.145	--
MONROE COUNTY PA										
MO 682	18	21.7	<.1	10.2	12.9	<.10	<.020	.831	<.010	--
MO 683	4	12.5	<.1	6.1	5.3	<.10	<.020	1.42	<.010	--
MO 684	49	1.0	.2	6.1	2.2	<.10	<.020	.500	<.010	.874
NORTHAMPTON COUNTY PA										
NP 816	70	19.7	<.1	9.9	31.5	E.10	<.020	4.73	<.010	--
NP 817	87	.5	<.1	18.7	3.9	<.10	<.020	<.050	<.010	.129
	87	.4	.11	18.5	--	.4	.023	<.050	<.010	--
	87	--	--	--	--	--	--	--	--	--
NP 818	46	3.6	<.1	12.0	36.9	<.10	<.020	4.39	<.010	.046
SCHUYLKILL COUNTY PA										
SC 296	25	1.4	<.1	8.6	5.5	<.10	<.020	.749	<.010	.064
SC 634	75	1.5	<.1	15.4	11.6	<.10	<.020	.183	<.010	.043
SC 635	63	13.7	.1	9.0	4.9	<.10	<.020	.582	<.010	.052
SC 636	15	1.2	<.1	5.6	4.7	<.10	<.020	.088	<.010	.080
SC 637	90	1.5	.1	20.6	12.5	<.10	<.020	<.050	<.010	.061
	90	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (µG/L AS SB) (01095)
BERKS COUNTY PA										
BE 1617	.028	.027	E.26	124	121	0	K1	<1	4	<1
BE 1703	.009	.013	E.24	205	194	0	<1	<1	18	<1
BE 1704	.018	.014	E.32	102	102	2	<1	<1	10	<1
BE 1705	<.006	<.010	<.33	13	14	1	<1	<1	10	<1
BE 1707	.062	.058	E.20	120	122	0	<1	<1	4	<1
	.062	.058	--	125	122	0	--	--	--	--
	--	--	--	--	--	0	--	--	12	<1
BE 1708	.037	.037	<.33	176	167	0	<1	<1	<1	<1
CARBON COUNTY PA										
CB 334	.006	<.010	E.26	119	114	0	<1	<1	5	<1
CB 335	.020	.016	<.33	30	26	3	<1	<1	8	<1
	--	--	--	--	--	3	--	--	--	--
CB 336	.008	<.010	E.26	35	32	<1	<1	<1	5	<1
CB 337	.012	<.010	E.31	125	91	8	<1	<1	10	<1
	--	--	--	--	--	8	--	--	--	--
CB 338	.092	.085	<.33	86	--	0	<1	<1	8	<1
	--	--	<.33	--	--	0	--	--	--	--
	--	--	--	--	--	0	--	--	--	--
LEHIGH COUNTY PA										
LE 1419	E.005	<.010	E.22	187	181	13	K1	<1	15	<1
LE 1420	E.003	<.010	E.20	201	192	0	K110	<1	14	<1
MONROE COUNTY PA										
MO 682	.009	<.010	E.25	91	84	1	K91	<1	8	<1
MO 683	E.004	<.010	E.23	53	45	0	<1	<1	17	<1
MO 684	.317	.285	<.33	68	--	10	<1	<1	2	<1
NORTHAMPTON COUNTY PA										
NP 816	.010	<.010	E.29	199	180	0	<1	<1	12	<1
NP 817	.050	.042	<.33	115	111	6	<1	<1	9	<1
	.050	.045	--	--	--	6	--	--	--	--
	--	--	--	--	--	6	--	--	12.5	<1
NP 818	.015	.015	.33	144	135	0	28	K7	11	<1
SCHUYLKILL COUNTY PA										
SC 296	.024	.021	.43	50	47	2	<1	<1	2	<1
SC 634	.008	.014	E.32	100	105	1	<1	<1	<1	<1
SC 635	<.006	.017	E.22	110	--	7	<1	<1	<1	<1
SC 636	.027	.026	.44	35	30	0	24	<1	<1	<1
SC 637	.029	.020	E.23	134	128	2	<1	<1	5	<1
	--	--	E.21	--	--	2	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE) (01010)	BORON, DIS-SOLVED (µG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (µG/L AS CR) (01030)	COBALT, DIS-SOLVED (µG/L AS CO) (01035)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	IRON, DIS-SOLVED (µG/L AS FE) (01046)
BERKS COUNTY PA										
BE 1617	E.6	44	<1	E9	.02	<1.0	<.8	<1	7	<10
BE 1703	1.0	25	<1	E10	.02	<1.0	<.8	<1	2	<10
BE 1704	<.9	21	<1	E7	.01	<1.0	<.8	<1	5	<10
BE 1705	<.9	3	<1	E11	.01	<1.0	<.8	<1	51	<10
BE 1707	2.8	20	<1	E11	.01	<1.0	<.8	<1	3	<10
	--	--	--	--	.02	--	--	--	--	<10
	2.9	20	<1	E11	--	<1.0	<.8	<1	4	--
BE 1708	6.0	69	<1	E11	.02	<1.0	<.8	<1	<1	190
CARBON COUNTY PA										
CB 334	8.4	96	<1	13	.02	<1.0	<.8	<1	9	<10
CB 335	<.9	<1	<1	<12	.01	<1.0	<.8	<1	16	<10
	--	--	--	--	--	--	--	--	--	--
CB 336	<.9	19	<1	<12	.02	<1.0	E.4	<1	2	<10
CB 337	<.9	14	<1	<12	.01	<1.0	E.6	<1	11	<10
	--	--	--	--	--	--	--	--	--	--
CB 338	<.9	14	<1	E11	<.01	<1.0	<.8	<1	<1	170
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--
LEHIGH COUNTY PA										
LE 1419	E.9	65	<1	15	.02	<1.0	<.8	<1	<1	E10
LE 1420	E.6	62	<1	27	.02	<1.0	<.8	<1	<1	20
MONROE COUNTY PA										
MO 682	<.9	3	<1	E11	.02	<1.0	<.8	<1	14	<10
MO 683	<.9	32	<1	E7	<.01	<1.0	<.8	<1	21	<10
MO 684	<.9	2	<1	<12	<.01	<1.0	<.8	<1	2	30
NORTHAMPTON COUNTY PA										
NP 816	<.9	1	<1	E11	.03	<1.0	<.8	<1	7	<10
NP 817	1.0	6	<1	E7	.02	<1.0	<.8	<1	<1	80
	--	--	--	--	.018	--	--	--	--	79
	.982	6.5	<1	E8	--	<1.0	<.8	<1	<1	--
NP 818	<.9	3	<1	33	<.01	<1.0	E.5	<1	7	<10
SCHUYLKILL COUNTY PA										
SC 296	<.9	4	<1	<12	<.01	<1.0	<.8	<1	<1	<10
SC 634	E.7	47	<1	E7	.01	<1.0	<.8	<1	<1	140
SC 635	3.2	<1	<1	15	.02	<1.0	<.8	<1	<1	<10
SC 636	E.9	2	<1	<12	.01	<1.0	<.8	<1	3	<10
SC 637	E.7	28	<1	<12	.06	<1.0	<.8	<1	<1	960
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LITHIUM DIS-SOLVED (µG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (µG/L AS MO) (01060)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (µG/L AS SE) (01145)	SILVER, DIS-SOLVED (µG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (µG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (µG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (µG/L AS V) (01085)
BERKS COUNTY PA										
BE 1617	<1	6.9	<1	<1	1	<.7	<1	132	<.9	<1
BE 1703	1	2.2	<1	<1	2	<.7	<1	165	<.9	<1
BE 1704	<1	4.0	<1	<1	<1	<.7	<1	98.6	<.9	<1
BE 1705	1	3.9	13	<1	1	<.7	<1	2.7	<.9	<1
BE 1707	<1	2.7	1	<1	<1	<.7	<1	47.6	<.9	<1
	--	--	<2	--	--	--	--	--	--	--
	<1	2.7	1	<1	<1	<.7	<1	47.4	<.9	1
BE 1708	<1	7.8	85	5	<1	E.6	<1	208	<.9	<1
CARBON COUNTY PA										
CB 334	<1	9.1	<1	1	2	1.1	<1	3780	<.9	<1
CB 335	2	1.9	4	<1	<1	<.7	<1	26.7	<.9	<1
	--	--	--	--	--	--	--	--	--	--
CB 336	<1	1.4	6	<1	2	<.7	<1	24.8	<.9	<1
CB 337	6	2.5	10	<1	2	<.7	<1	80.5	<.9	<1
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CB 338	<1	19.6	130	<1	<1	<.7	<1	154	<.9	<1
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LEHIGH COUNTY PA										
LE 1419	<1	9.1	140	16	<1	E.5	<1	393	<.9	<1
LE 1420	<1	6.1	20	<1	1	E.7	<1	478	<.9	<1
MONROE COUNTY PA										
MO 682	<1	7.6	<1	<1	<1	E.6	<1	55.4	<.9	<1
MO 683	2	1.2	3	<1	3	<.7	<1	17.2	<.9	<1
MO 684	<1	E.2	1	<1	1	<.7	<1	32.6	<.9	<1
NORTHAMPTON COUNTY PA										
NP 816	<1	2.5	<1	<1	2	E.5	<1	253	<.9	<1
NP 817	<1	6.2	161	<1	<1	<.7	<1 •	132	<.9	<1
	--	--	153	--	--	--	--	--	--	--
	<1	6.3	161	<1	<1	<.7	<1	131	<.9	<1
NP 818	5	2.0	<1	<1	3	E.5	<1	118	<.9	<1
SCHUYLKILL COUNTY PA										
SC 296	<1	3.3	<1	<1	<1	<.7	<1	39.5	<.9	<1
SC 634	<1	5.2	114	<1	<1	<.7	<1	78.0	<.9	<1
SC 635	<1	31.4	2	2	<1	<.7	<1	704	<.9	<1
SC 636	1	1.0	<1	<1	<1	<.7	<1	22.0	<.9	<1
SC 637	<1	10.9	155	<1	<1	<.7	<1	83.2	<.9	<1
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ACETO-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)	ALA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (µG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (µG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µG/L) (04028)
BERKS COUNTY PA										
BE 1617	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
BE 1703	5	<.05	<.05	<.002	<.05	.280	<.002	.043	<.002	<.002
BE 1704	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
BE 1705	17	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
BE 1707	6	<.05	<.05	<.002	.21	.210	.178	E.004	<.002	<.002
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	9	--	--	--	--	--	--	--	--	--
BE 1708	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
CARBON COUNTY PA										
CB 334	4	<.05	<.05	<.002	<.05	.470	<.002	.005	<.002	<.002
CB 335	4	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
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CB 336	5	<.05	<.05	<.002	<.05	<.050	<.002	.006	<.002	<.002
CB 337	7	<.05	<.05	<.002	<.05	.150	<.002	.021	<.002	<.002
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CB 338	4	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
	--	<.05	<.05	--	<.05	<.050	--	--	--	--
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LEHIGH COUNTY PA										
LE 1419	3	<.05	<.05	--	<.05	<.050	--	--	--	--
LE 1420	5	<.05	<.05	<.002	<.05	<.050	<.002	.006	<.002	<.002
MONROE COUNTY PA										
MO 682	7	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
MO 683	16	<.05	<.05	<.002	<.05	.210	<.002	E.004	<.002	<.002
MO 684	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
NORTHAMPTON COUNTY PA										
NP 816	9	<.05	<.05	<.002	<.05	<.050	<.002	<.005	<.002	<.002
NP 817	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
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	3	--	--	--	--	--	--	--	--	--
NP 818	5	<.05	<.05	<.002	<.05	.260	<.002	.006	<.002	<.002
SCHUYLKILL COUNTY PA										
SC 296	2	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
SC 634	<1	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
SC 635	2	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
SC 636	<1	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
SC 637	3	<.05	<.05	<.002	<.05	<.050	<.002	E.002	<.002	<.002
	--	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µG/L) (04040)	DI-AZINON, DIS-SOLVED (µG/L) (39572)	DI-ELDRIN DIS-SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)
BERKS COUNTY PA										
BE 1617	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
BE 1703	<.003	<.003	<.004	<.004	<.002	E.23	<.002	<.001	<.002	<.003
BE 1704	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
BE 1705	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
BE 1707	<.003	<.003	<.004	<.004	<.002	E.004	<.002	<.001	<.002	<.003
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BE 1708	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
CARBON COUNTY PA										
CB 334	<.003	<.003	<.004	<.004	<.002	E.017	<.002	<.001	<.002	<.003
CB 335	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
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CB 336	<.003	<.003	<.004	<.004	<.002	E.022	<.002	<.001	<.002	<.003
CB 337	<.003	<.003	<.004	<.004	<.002	E.20	<.002	<.001	<.002	<.003
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CB 338	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
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LEHIGH COUNTY PA										
LE 1419	--	--	--	--	--	--	--	--	--	--
LE 1420	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
MONROE COUNTY PA										
MO 682	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
MO 683	<.003	<.003	<.004	<.004	<.002	E.003	<.002	<.001	<.002	<.003
MO 684	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
NORTHAMPTON COUNTY PA										
NP 816	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
NP 817	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
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NP 818	E.004	<.003	<.004	<.004	<.002	E.005	E.001	<.001	<.002	<.003
SCHUYLKILL COUNTY PA										
SC 296	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
SC 634	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
SC 635	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
SC 636	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
SC 637	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	LINDANE DIS-SOLVED (µG/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA-THION, DIS-SOLVED (µG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61044)	METO-LACHLOR WATER DISSOLV (µG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)
BERKS COUNTY PA										
BE 1617	<.004	<.002	<.005	<.001	.08	<.05	<.002	<.004	<.003	<.006
BE 1703	<.004	<.002	<.005	<.001	1.41	.08	.005	<.004	<.003	<.006
BE 1704	<.004	<.002	<.005	<.010	<.05	<.05	<.002	<.004	<.003	<.006
BE 1705	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
BE 1707	<.004	<.002	<.005	<.010	<.05	<.05	.005	<.004	<.003	<.006
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BE 1708	<.004	<.002	<.005	<.001	<.05	<.05	<.002	E.002	<.003	<.006
CARBON COUNTY PA										
CB 334	<.004	<.002	<.005	<.010	.59	<.05	<.002	<.004	<.003	<.006
CB 335	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	E.001
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CB 336	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
CB 337	<.004	<.002	<.005	<.001	10.1	2.51	.500	.005	.034	<.006
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CB 338	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
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LEHIGH COUNTY PA										
LE 1419	--	--	--	--	.06	<.05	--	--	--	--
LE 1420	<.004	<.002	<.005	<.001	.42	.12	.004	<.004	<.003	<.006
MONROE COUNTY PA										
MO 682	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
MO 683	<.004	<.002	<.005	<.010	.22	<.05	.005	<.004	<.003	<.006
MO 684	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	E.002
NORTHAMPTON COUNTY PA										
NP 816	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
NP 817	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
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NP 818	<.004	<.002	<.005	<.001	<.05	<.05	E.004	E.002	<.003	E.002
SCHUYLKILL COUNTY PA										
SC 296	<.004	<.002	<.005	<.001	.37	<.05	<.002	<.004	<.003	<.006
SC 634	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
SC 635	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
SC 636	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
SC 637	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO-METON, WATER, DISS, REC (µG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI-MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER-BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL-LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)
BERKS COUNTY PA										
BE 1617	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
BE 1703	<.004	<.018	<.003	<.007	<.004	.014	<.010	<.007	--	<.001
BE 1704	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
BE 1705	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
BE 1707	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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BE 1708	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	E.001
CARBON COUNTY PA										
CB 334	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
CB 335	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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CB 336	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
CB 337	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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CB 338	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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LEHIGH COUNTY PA										
LE 1419	--	--	--	--	--	--	--	--	--	--
LE 1420	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
MONROE COUNTY PA										
MO 682	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	--	<.001
MO 683	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
MO 684	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
NORTHAMPTON COUNTY PA										
NP 816	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
NP 817	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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NP 818	<.004	<.018	E.001	<.007	E.001	<.005	<.010	<.007	--	<.001
SCHUYLKILL COUNTY PA										
SC 296	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
SC 634	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
SC 635	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
SC 636	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
SC 637	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)	1,1,1-TRI-CHLORO-ETHANE TOTAL (µG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (µG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (µG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (µG/L) (34501)	1,2-DI-CHLORO-PROPANE TOTAL (µG/L) (34541)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (µG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (µG/L) (77222)
BERKS COUNTY PA										
BE 1617	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
BE 1703	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
BE 1704	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
BE 1705	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
BE 1707	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
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BE 1708	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
CARBON COUNTY PA										
CB 334	<.002	E.07	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
CB 335	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
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CB 336	<.002	M	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
CB 337	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
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CB 338	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
	--	--	--	--	--	--	--	--	--	--
	--	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
LEHIGH COUNTY PA										
LE 1419	--	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
LE 1420	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MONROE COUNTY PA										
MO 682	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MO 683	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
MO 684	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
NORTHAMPTON COUNTY PA										
NP 816	<.002	.24	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
NP 817	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
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NP 818	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SCHUYLKILL COUNTY PA										
SC 296	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SC 634	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SC 635	<.002	E.01	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SC 636	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
SC 637	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
	<.002	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	BENZENE 135-TRI METHYL WATER UNFLTRD REC (µG/L) (77226)	BENZENE 1,3-DI-CHLORO- WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DI-CHLORO- WATER UNFLTRD REC (µG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DI-CHLORO- WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMO-FORM TOTAL (µG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (µG/L) (77041)
BERKS COUNTY PA										
BE 1617	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
BE 1703	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
BE 1704	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
BE 1705	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
BE 1707	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
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BE 1708	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
CARBON COUNTY PA										
CB 334	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
CB 335	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
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CB 336	<.04	<.05	E.06	<.03	<.2	<.04	<.05	<.04	<.06	<.07
CB 337	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
	--	--	--	--	--	--	--	--	--	--
CB 338	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
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	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
LEHIGH COUNTY PA										
LE 1419	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
LE 1420	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MONROE COUNTY PA										
MO 682	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MO 683	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
MO 684	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
NORTHAMPTON COUNTY PA										
NP 816	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
NP 817	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
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NP 818	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SCHUYLKILL COUNTY PA										
SC 296	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SC 634	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SC 635	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SC 636	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
SC 637	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	CARBON TETRA-CHLO-RIDE TOTAL (µG/L) (32102)	CHLORO-BENZENE TOTAL (µG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µG/L) (32105)	CHLORO-ETHANE TOTAL (µG/L) (34311)	CHLORO-FORM TOTAL (µG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (µG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)
BERKS COUNTY PA										
BE 1617	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
BE 1703	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
BE 1704	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
BE 1705	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
BE 1707	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
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BE 1708	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
CARBON COUNTY PA										
CB 334	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
CB 335	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
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CB 336	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
CB 337	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
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CB 338	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
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	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
LEHIGH COUNTY PA										
LE 1419	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
LE 1420	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MONROE COUNTY PA										
MO 682	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
MO 683	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
MO 684	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
NORTHAMPTON COUNTY PA										
NP 816	<.06	<.03	<.2	<.1	E.05	<.04	<.05	<.2	<.05	<.1
NP 817	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
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NP 818	<.06	<.03	<.2	<.1	E.01	<.04	<.05	<.2	<.05	<.1
SCHUYLKILL COUNTY PA										
SC 296	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
SC 634	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
SC 635	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
SC 636	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
SC 637	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ETHYL-BENZENE TOTAL (µG/L) (34371)	FREON-113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (µG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL-CHLO-RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (µG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (µG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (µG/L) (85795)
BERKS COUNTY PA										
BE 1617	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BE 1703	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BE 1704	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BE 1705	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
BE 1707	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
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BE 1708	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
CARBON COUNTY PA										
CB 334	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
CB 335	<.03	<.06	<2	<.2	<.2	<.5	E.1	<2	<.4	<.06
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CB 336	<.03	E.04	<2	<.2	.9	<.5	<.4	<2	<.4	<.06
CB 337	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
	--	--	--	--	--	--	--	--	--	--
CB 338	<.03	<.06	<2	<.2	<.2	E.1	<.4	<2	<.4	<.06
	--	--	--	--	--	--	--	--	--	--
	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
LEHIGH COUNTY PA										
LE 1419	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
LE 1420	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MONROE COUNTY PA										
MO 682	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
MO 683	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	<.4	<.06
MO 684	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
NORTHAMPTON COUNTY PA										
NP 816	<.03	<.06	<2	<.2	<.2	<.5	E.2	<2	<.4	<.06
NP 817	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
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NP 818	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SCHUYLKILL COUNTY PA										
SC 296	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SC 634	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SC 635	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06
SC 636	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
SC 637	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	NAPHTH-ALENE TOTAL (µG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µG/L) (39180)
BERKS COUNTY PA									
BE 1617	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BE 1703	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BE 1704	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BE 1705	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
BE 1707	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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BE 1708	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
CARBON COUNTY PA									
CB 334	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
CB 335	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04
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CB 336	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
CB 337	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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CB 338	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
	--	--	--	--	--	--	--	--	--
	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
LEHIGH COUNTY PA									
LE 1419	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
LE 1420	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
MONROE COUNTY PA									
MO 682	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
MO 683	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
MO 684	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
NORTHAMPTON COUNTY PA									
NP 816	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
NP 817	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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NP 818	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
SCHUYLKILL COUNTY PA									
SC 296	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
SC 634	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
SC 635	<.2	<.04	<.04	<.07	<.04	M	<.06	<.05	<.04
SC 636	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
SC 637	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
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GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	TRI-CHLORO-FLUORO-METHANE TOTAL (µG/L) (34488)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228 DIS-SOLVED (PCI/L AS RA-228) (81366)	RA-224 WATER FLTRD (PCI/L) (50833)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (µG/L AS U) (22703)
BERKS COUNTY PA								
BE 1617	<.09	6.18	4.62	<1.00	<1.00	<1.00	1200	<1
BE 1703	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	765	<1
BE 1704	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1320	<1
BE 1705	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3680	<1
BE 1707	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1500	<1
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BE 1708	<.09	5.35	5.33	<1.00	<1.00	<1.00	82.0	2
CARBON COUNTY PA								
CB 334	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1830	<1
CB 335	<.09	36.7	47.9	<1.00	<1.00	<1.00	6020	<1
	--	--	--	--	--	--	5980	--
CB 336	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	5930	<1
CB 337	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3460	<1
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CB 338	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	60.0	<1
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	<.09	--	--	--	--	--	--	--
LEHIGH COUNTY PA								
LE 1419	<.09	<3.00	4.46	<1.00	<1.00	<1.00	139	<1
LE 1420	<.09	5.25	5.56	<1.00	<1.00	<1.00	661	<1
MONROE COUNTY PA								
MO 682	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1360	<1
MO 683	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3060	<1
MO 684	<.09	9.92	8.50	<1.00	<1.00	<1.00	4300	<1
NORTHAMPTON COUNTY PA								
NP 816	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3450	<1
NP 817	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	586	<1
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NP 818	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3660	<1
SCHUYLKILL COUNTY PA								
SC 296	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	3980	<1
SC 634	<.09	7.66	8.85	<1.00	<1.00	<1.00	542	<1
SC 635	<.09	9.09	11.5	<1.00	<1.00	<1.00	847	<1
SC 636	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	2410	<1
SC 637	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	313	<1
	--	--	--	--	--	--	294	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
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GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COLLECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)
				SUSSEX COUNTY NJ				
370215	411117074480401	06-06-00	1100	ENVIRONMENTAL	80020	1028	760	185.00
370453	411930074431401	07-19-00	1200	ENVIRONMENTAL	80020	1028	560	65.00
		07-19-00	1222	REPLICATE	80020	1028	560	65.00
370454	411401074452901	06-05-00	1300	ENVIRONMENTAL	80020	1028	860	325.00
				WARREN COUNTY NJ				
410266	410422074575101	06-07-00	1300	ENVIRONMENTAL	80020	1028	650	172.00
410312	405702074585201	05-17-00	1200	ENVIRONMENTAL	80020	1028	685	400.00
410384	410127074571601	05-18-00	1200	ENVIRONMENTAL	80020	--	780	115.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
					SUSSEX COUNTY NJ					
370215	--	7.4	6.7	99	12.0	45	9.76	5.04	.5	1.8
370453	11.83	6.2	8.0	315	13.2	150	31.8	17.2	.7	4.4
	11.83	6.2	8.0	315	13.2	--	--	--	--	--
370454	19.25	2.3	7.7	234	11.6	110	24.9	11.1	1.2	7.5
					WARREN COUNTY NJ					
410266	33.41	2.4	8.0	225	12.4	110	25.5	12.0	.8	3.4
410312	-1.11	2.9	7.4	549	14.2	280	68.2	27.5	.6	5.4
410384	--	5.5	6.6	296	11.6	110	38.8	4.25	1.5	11.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)
					SUSSEX COUNTY NJ					
370215	40	1.8	<.1	6.6	6.0	<.10	<.020	<.050	<.010	.034
370453	110	3.2	<.1	9.1	47.7	<.10	<.020	.459	<.010	.037
	110	--	--	--	--	--	--	--	--	--
370454	118	1.7	<.1	11.4	6.6	<.10	<.020	<.050	<.010	.037
					WARREN COUNTY NJ					
410266	112	1.6	<.1	7.9	6.5	<.10	<.020	<.050	<.010	.046
410312	170	25.2	<.1	12.6	64.3	<.10	<.020	7.20	.021	--
410384	103	25.9	<.1	10.7	18.0	<.10	<.020	1.55	<.010	--

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
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GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	E. COLI WTR FLT MF 0.7U NUT AG-AR+MUG 4HR35D COL/100 (50278)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (µG/L AS SB) (01095)
				SUSSEX COUNTY NJ						
370215	.013	.011	E.29	57	56	0	<1	<1	1	<1
370453	.008	.012	E.19	192	185	1	<1	<1	19	<1
	--	--	--	--	--	1	--	--	--	--
370454	.012	.012	E.29	134	136	9	<1	<1	10	<1
				WARREN COUNTY NJ						
410266	.019	.015	E.22	123	125	7	<1	<1	3	<1
410312	E.004	<.010	E.25	352	338	1	<1	<1	9	<1
410384	E.004	<.010	.34	178	180	0	<1	<1	12	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE) (01010)	BORON, DIS-SOLVED (µG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (µG/L AS CR) (01030)	COBALT, DIS-SOLVED (µG/L AS CO) (01035)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	IRON, DIS-SOLVED (µG/L AS FE) (01046)
				SUSSEX COUNTY NJ						
370215	<.9	60	<1	E8	<.01	<1.0	<.8	<1	11	<10
370453	E.5	56	<1	34	.01	<1.0	1.0	<1	3	<10
	--	--	--	--	--	--	--	--	--	--
370454	7.7	175	<1	21	.02	<1.0	<.8	<1	1	<10
				WARREN COUNTY NJ						
410266	<.9	85	<1	E6	.02	<1.0	<.8	<1	7	<10
410312	E.7	41	<1	E9	.03	<1.0	1.9	<1	3	E10
410384	<.9	3	<1	29	.02	<1.0	<.8	<1	6	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LITHIUM DIS-SOLVED (µG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (µG/L AS MO) (01060)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (µG/L AS SE) (01145)	SILVER, DIS-SOLVED (µG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (µG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (µG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (µG/L AS V) (01085)
				SUSSEX COUNTY NJ						
370215	<1	3.2	<1	<1	<1	<.7	<1	50.4	<.9	<1
370453	<1	11.1	<1	<1	<1	<.7	<1	2390	<.9	<1
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370454	<1	16.2	<1	2	<1	E.4	<1	1030	<.9	<1
				WARREN COUNTY NJ						
410266	<1	2.8	<1	<1	1	<.7	<1	193	<.9	<1
410312	<1	3.7	5	<1	2	2.8	<1	278	<.9	<1
410384	<1	3.5	<1	<1	<1	<.7	<1	184	<.9	<1

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
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GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ACETO-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61029)	ACETO-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61030)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)	ALA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61031)	ALA-CHLOR, (ESA) WAT FLT GF 0.7U REC (µG/L) (50009)	ALA-CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (µG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (µG/L) (04028)
				SUSSEX COUNTY NJ						
370215	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
370453	7	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
	--	--	--	--	--	--	--	--	--	--
370454	3	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
				WARREN COUNTY NJ						
410266	2	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002
410312	38	<.05	<.05	<.002	<.05	.360	<.002	<.001	<.002	<.002
410384	5	<.05	<.05	<.002	<.05	<.050	<.002	<.001	<.002	<.002

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	CAR-BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (µG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (µG/L) (04040)	DI-AZINON, DIS-SOLVED (µG/L) (39572)	DI-ELDRIN DIS-SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)
				SUSSEX COUNTY NJ						
370215	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
370453	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
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370454	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
				WARREN COUNTY NJ						
410266	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
410312	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003
410384	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.002	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	LINDANE DIS-SOLVED (µG/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA-THION, DIS-SOLVED (µG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METOLA-CHLOR ESA FLTRD 0.7 µM GF REC (µG/L) (61043)	METOLA-CHLOR OA FLTRD 0.7 µM GF REC (µG/L) (61044)	METO-LACHLOR WATER DISSOLV (µG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)
				SUSSEX COUNTY NJ						
370215	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
370453	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
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370454	<.004	<.002	<.005	<.001	<.05	<.05	.005	<.004	<.003	<.006
				WARREN COUNTY NJ						
410266	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006
410312	<.004	<.002	<.005	<.010	1.44	.60	.005	<.004	<.003	<.006
410384	<.004	<.002	<.005	<.001	<.05	<.05	<.002	<.004	<.003	<.006

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
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GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	PENDIMETHALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PROMETON, WATER, DISS, REC (µG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPACHLOR, WATER, DISS, REC (µG/L) (04024)	PROPANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SIMAZINE, WATER, DISS, REC (µG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TERBACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TERBUTHYLAZINE, WATER, DISS, REC (µG/L) (04022)	TRIALLATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)
					SUSSEX COUNTY NJ					
370215	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
370453	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
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370454	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
					WARREN COUNTY NJ					
410266	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
410312	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001
410384	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	TRIFLURALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)	1,1,1-TRICHLOROETHANE TOTAL (µG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (µG/L) (34511)	1,1-DICHLOROETHANE TOTAL (µG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (µG/L) (34501)	1,2-DICHLOROPROPANE TOTAL (µG/L) (34541)	ACETONE WATER WHOLE TOTAL (µG/L) (81552)	BENZENE 123-TRIMETHYL-WATER UNFLTRD RECOVER (µG/L) (77221)	BENZENE 1,2,4-TRICHLORO-WAT UNF REC (µG/L) (34551)	BENZENE 124-TRIMETHYL UNFILT RECOVER (µG/L) (77222)
					SUSSEX COUNTY NJ					
370215	<.002	E.01	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
370453	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
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370454	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
					WARREN COUNTY NJ					
410266	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06
410312	<.002	<.03	<.06	<.07	<.04	E.05	<7	<.1	<.2	<.06
410384	<.002	<.03	<.06	<.07	<.04	<.07	<7	<.1	<.2	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	BENZENE 135-TRIMETHYL WATER UNFLTRD REC (µG/L) (77226)	BENZENE 1,3-DICHLORO-WATER UNFLTRD REC (µG/L) (34566)	BENZENE 1,4-DICHLORO-WATER UNFLTRD REC (µG/L) (34571)	ISOPROPYLBENZENE WATER WHOLE REC (µG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (µG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (µG/L) (77224)	BENZENE O-DICHLORO-WATER UNFLTRD REC (µG/L) (34536)	BENZENE TOTAL (µG/L) (34030)	BROMOFORM TOTAL (µG/L) (32104)	CARBON DISULFIDE WATER WHOLE TOTAL (µG/L) (77041)
					SUSSEX COUNTY NJ					
370215	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
370453	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
	--	--	--	--	--	--	--	--	--	--
370454	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
					WARREN COUNTY NJ					
410266	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
410312	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07
410384	<.04	<.05	<.05	<.03	<.2	<.04	<.05	<.04	<.06	<.07

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GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	CARBON TETRA-CHLO-RIDE TOTAL (µG/L) (32102)	CHLORO-BENZENE TOTAL (µG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (µG/L) (32105)	CHLORO-ETHANE TOTAL (µG/L) (34311)	CHLORO-FORM TOTAL (µG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (µG/L) (77093)	BROMO-DI-CHLORO-METHANE TOTAL (µG/L) (32101)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)
					SUSSEX COUNTY NJ					
370215	<.06	<.03	<.2	<.1	E.02	<.04	<.05	<.2	<.05	<.1
370453	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
	--	--	--	--	--	--	--	--	--	--
370454	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
					WARREN COUNTY NJ					
410266	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
410312	<.06	<.03	<.2	<.1	<.05	<.04	<.05	<.2	<.05	<.1
410384	<.06	<.03	<.2	<.1	E.03	<.04	<.05	<.2	<.05	<.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	ETHYL-BENZENE TOTAL (µG/L) (34371)	FREON-113 WATER UNFLTRD REC (µG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (µG/L) (81607)	ISO-DURENE WATER UNFLTRD RECOVER (µG/L) (50000)	METHYL TERT-BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL-CHLO-RIDE TOTAL (µG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (µG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (µG/L) (81595)	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (µG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (µG/L) (85795)
					SUSSEX COUNTY NJ					
370215	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
370453	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
	--	--	--	--	--	--	--	--	--	--
370454	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
					WARREN COUNTY NJ					
410266	<.03	<.06	<2	<.2	<.2	<.5	<.4	<2	<.4	<.06
410312	<.03	<.06	<2	<.2	.3	<.5	<.4	<2	<.4	<.06
410384	<.03	<.06	<2	<.2	E.1	<.5	<.4	<2	<.4	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	NAPHTH-ALENE TOTAL (µG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (µG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (µG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (µG/L) (77356)	STYRENE TOTAL (µG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (µG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (µG/L) (77220)	TOLUENE TOTAL (µG/L) (34010)	TRI-CHLORO-ETHYL-ENE TOTAL (µG/L) (39180)
					SUSSEX COUNTY NJ				
370215	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
370453	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
	--	--	--	--	--	--	--	--	--
370454	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
					WARREN COUNTY NJ				
410266	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
410312	<.2	<.04	<.04	<.07	<.04	<.1	<.06	<.05	<.04
410384	<.2	<.04	<.04	<.07	<.04	.2	<.06	<.05	<.04

GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
DELAWARE RIVER BASIN NAWQA PROJECT

GROUND WATER IN THE CLASTIC BEDROCK WITHIN THE VALLEY AND RIDGE PHYSIOGRAPHIC PROVINCE

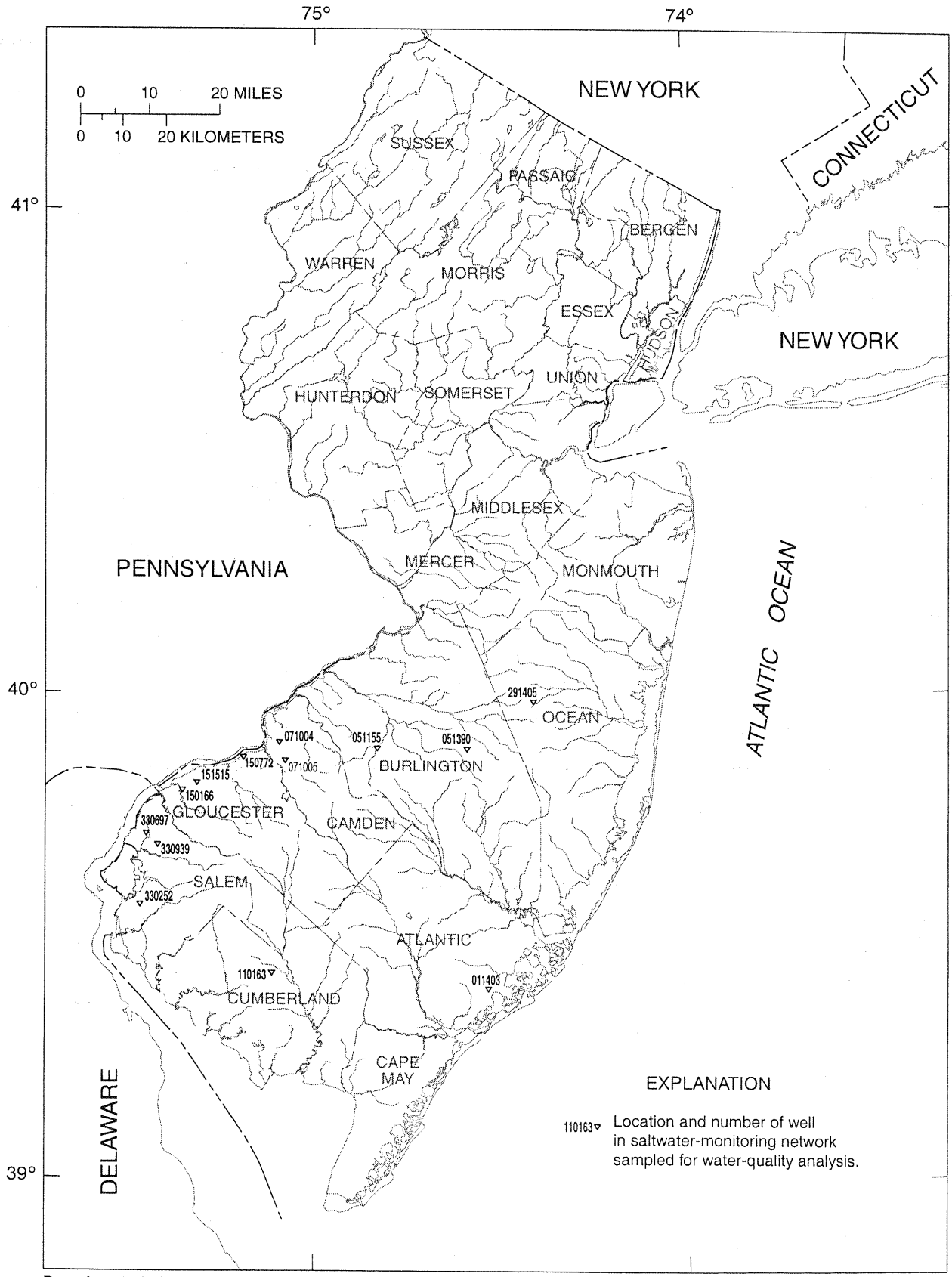
WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL ID	TRI-CHLORO-FLUORO-METHANE TOTAL (µG/L) (34488)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	RADIUM 226, DIS-SOLVED (PCI/L) (09503)	RADIUM 228 DIS-SOLVED (PCI/L AS RA-228) (81366)	RA-224 WATER FLTRD (PCI/L) (50833)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS-SOLVED (µG/L AS U) (22703)
			SUSSEX COUNTY NJ					
370215	<.09	<3.00	5.18	<1.00	<1.00	<1.00	5310	<1
370453	<.09	3.56	<4.00	<1.00	<1.00	<1.00	1440	<1
	--	<3.00	<4.00	<1.00	<1.00	<1.00	--	--
370454	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	957	2
			WARREN COUNTY NJ					
410266	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1080	<1
410312	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	1330	2
410384	<.09	<3.00	<4.00	<1.00	<1.00	<1.00	2970	<1

WATER-QUALITY CONTROL DATA

As part of the water-quality sampling for the DELR NAWQA, an extensive quality-assurance plan was executed to ensure the integrity of the sample results. Quality-control samples were collected as blanks, including ambient, trip, source solution, and equipment; replicates; and spikes. These quality-control samples were analyzed for nutrients, major ions, trace elements, dissolved and volatile organic compounds, pesticides and their metabolites, radioisotopes, and bacteria. Source-solution blanks were analyzed for volatile organic compounds (VOCs), and spikes were analyzed for pesticides and VOCs.

The following summarizes the quality-control sample results: Replicate samples were collected at 15 separate sample sites for one or more of the above chemical groups. All replicate closely reproduced the results for the environmental samples. Results from replicate samples are included within the water-quality tables on pages 625-646. Thirty-one blank samples were collected. Concentrations of all constituents analyzed in the blank samples were less than the method detection limits, except for total toluene, which had three detections at E 0.01, E 0.01, and E 0.02 µG/L. As a result, toluene was censored for results below the lab reporting limit of 0.05 µG/L, and was assigned a value of <0.05 µG/L. The two pesticide spikes of 100-µL/1-L liter of sample had recoveries between 96 and 114 percent. The two VOC spikes of 20-µL/40-mL had recoveries between 91 and 109 percent. For the bacteriological samples, 69 quality-control samples were run (30 equipment blanks, 30 final blanks run between each test series, and 9 replicates). Two of the final blanks had a total coliform count of 1 colony/100 mls, indicating incomplete rinsing between dilutions. Both of the series with the final blank detections had high coliform counts. The differences between the sets of 9 replicates were within five percent.



Base from U.S. Geological Survey
digital line graph files, 1:24,000

Figure 50. Location of Saltwater-Monitoring Network sampling sites in New Jersey.

QUALITY OF GROUND WATER--SALTWATER MONITORING NETWORK

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
392328074315401	011403	NJDEP PLEASANTVILLE MW49	392328	0743154	29	18 - 23	121CKKD
395309074352102	051390	NEW LISBON 2 OBS	395310	0743520	105	615 - 635	211EGLS
395315074494601	051155	MEDFORD TWP MW-1 OBS	395315	0744946	46.15	120 - 180	211MLRW
395143075044101	071005	NJDEP BELLMAWR MW17	395143	0750441	15	8.6 - 13.6	211EGLS
395358075053701	071004	NJDEP AUDUBON PARK MW14	395358	0750537	15	13.7 - 18.7	211MCVL
392528075064101	110163	FAIR GROUNDS 3 OBS	392526	0750643	80	463 - 473	124PNPN
394755075210802	150166	BRIDGEPORT 2	394755	0752108	5	65.4 - 85.4	211MRPAM
394849075184501	151515	NJDEP REPAUPO MW20	394849	0751845	8	7.7 - 12.7	111HPPM
395206075111801	150772	NATIONAL PARK #3-OW-AL	395206	0751118	10	196 - 216	211MRPAL
395900074242801	291405	NJDEP MANCHESTER MW62	395900	0742428	120	13 - 18	121CKKD
393348075275702	330252	SALEM 2 OBS	393348	0752755	3.25	91 - 96	211MLRW
394108075250401	330939	NJDEP CARNEYS PT MW22	394108	0752504	35	14.5 - 19.5	211MRSL
394203075265401	330697	LAYTON 2	394203	0752654	12	47 - 62	211MRPAU

Aquifer units:
- 111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene
- 121CKKD - Kirkwood-Cohansey aquifer system
- 124PNPN - Piney Point Formation
- 211EGLS - Englishtown aquifer system
- 211MCVL - Merchantville Formation
- 211MRSL - Marshalltown Formation
- 211MLRW - Wenonah-Mount Laurel aquifer
- 211MRPAU - Upper Potomac-Raritan-Magothy aquifer
- 211MRPAM - Middle Potomac Raritan Magothy aquifer
- 211MRPAL - Lower Potomac-Raritan-Magothy aquifer

STATION IDENTIFICATION NUMBER	LOCAL IDENTIFIER	DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
392328074315401	NJDEP PLEASANTVILLE MW49	09-14-00	4.7	684	17.0	106	153
395309074352102	NEW LISBON 2 OBS	06-20-00	9.0	245	16.5	42.2	1.4
395315074494601	MEDFORD TWP MW-1 OBS	06-23-00	8.1	210	16.0	3.8	2.9
395143075044101	NJDEP BELLMAWR MW17	08-16-00	5.5	507	15.5	49.5	94.4
395358075053701	NJDEP AUDUBON PARK MW14	09-11-00	5.6	895	--	58.4	191
392528075064101	FAIR GROUNDS 3 OBS	06-21-00	8.7	1110	16.5	212	179
394755075210802	BRIDGEPORT 2	06-05-00	5.1	191	13.6	13.3	24.7
394849075184501	NJDEP REPAUPO MW20	08-16-00	4.4	522	--	64.2	135
395206075111801	NATIONAL PARK #3-OW-AL	06-28-00	6.8	399	16.0	53.8	31.0
395900074242801	NJDEP MANCHESTER MW62	07-31-00	4.5	166	13.5	22.6	37.5
393348075275702	SALEM 2 OBS	06-27-00	7.6	760	16.0	3.6	91.9
394108075250401	NJDEP CARNEYS PT MW22	08-15-00	4.5	223	15.0	3.2	11.6
394203075265401	LAYTON 2	09-28-00	5.8	268	15.5	9.2	22.0

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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