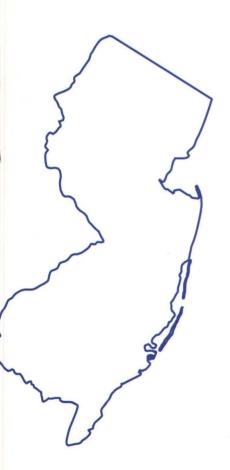


Water Resources Data New Jersey Water Year 2001

Volume 3. Water-Quality Data

Water-Data Report NJ-01-3



U.S. GEOLOGICAL SURVEY RESTON, VA.

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

CALENDAR FOR WATER YEAR 2001

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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 2001". 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 governmental 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), and the Long Island-New Jersey Coastal Plain and the Delaware River Basin National Water Quality Assessments (NAWQA).

The Ambient Stream Monitoring Network Reconnaissance Study consisted of 3-6 day surveys of temperature, dissolved oxygen, percent of dissolved oxygen saturation, pH, and specific conductance from 24 stations in the ASMN. Continuous 1-2 month surveys of temperature were conducted at 17 sites in the Delaware River Basin NAWQA study unit.

Water year 2001 is the third year in the first 5-year cycle of the AGWQN. Thirty wells were sampled in the Raritan, Upper Delaware, and Atlantic Coastal Regions.

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-01-1 (for Volume 1), NJ-01-2 (for Volume 2), or NJ-01-3 (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, Chief

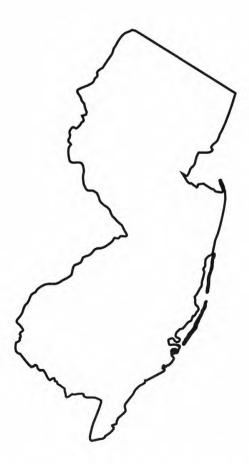
Hydrologic Data Assessment Program

Water Resources Data New Jersey Water Year 2001

Volume 3. Water-Quality Data

By M.J. DeLuca, H.L. Hoppe, H.A. Doyle, B.J. Gray.

Water-Data Report NJ-01-3





UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

GEOLOGICAL SURVEY

Charles G. Groat, Director

For information on the water program in New Jersey write to

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West Trenton, New Jersey 08628-1099

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. Hoppe and H.A. Doyle. W.H. Ellis, G.L. Simpson, and D.K. Sun drafted the illustrations.

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

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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	400000000000000000000000000000000000000

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 Catherine L. Hill, Regional Hydrologist, Northeastern Region.

REPORT DOCUMENTATION PAGE

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records of stage, discharge, ity of ground water. Volume is water year, a listing of currer ticles, and facts sheets for N of chemical analyses from 1 ground-water sites, and recounds-recording stations. Loc	and quality of streams; stage 3 contains a summary of sur- nt water-resources projects in lew Jersey completed by the 28 continuing-record surface ords of daily statistics of temp ations of water-quality station in figures 59-64. These da	and contents of lakes and face- and ground-water hy n New Jersey, a bibiliograte Geological Survey in recevater stations, 29 miscel erature and other physica are shown in figures 22 ta represent that part of the	three volumes, and consists of reservoirs; and levels and qual-drologic conditions for the 2001 phy of water-related reports, arent years, water-quality records llaneous surface-water sites, 53 I measurements from 44 contin-24. Locations of miscellaneous ne National Water Data System gencies in New Jersey.
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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) continuous physical measurements, (w) whole-water-recoverable metals, (v) volatile organic compounds, (p) pesticide, (b) biota, (h) bed material, (WMA #) NJDEP watershed management area.]

bed material, (WMA #) NJDEP watersned management area.j	Ctation	Dana
	Station	Page
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(WMA 2 - WALLKILL RIVER & TRIBUTARIES)		
HUDSON RIVER BASIN		
Rondout Creek:		
Wallkill River at Sparta (cms)	01367625	68
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Great Brook:	01070000	0,
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Passaic River:	01070700	101
Dead River near Millington (cms)	01379200	105
Rockaway River:	013/3200	103
Beaver Brook at Morris Avenue, at Denville (cmswvp)	01380008	108
Beaver Brook at Rockaway (cms)	01380100	111
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Rahway River at Rahway (cms)	01395000	182
South Branch Rahway River at Colonia (cmswvph)	01396030	185
(WMA 8 - NORTH AND SOUTH BRANCHES OF THE RARITAN RIVER, LAMINGTON RIVER		
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WHALE FOND BROOK BASIN	01407017	040
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WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

(WMA 15 - ATLANTIC OCEAN & TRIBUTARIES - GREAT EGG HARBOR RIVER)		
GREAT EGG HARBOR RIVER BASIN		
Great Egg Harbor River:		
Hospitality Branch at Blue Bell Road, near Cecil (cm)	01411035	295
Great Egg Harbor River at Weymouth (cs)		297
Babcock Creek near Mays Landing (cs)		298
Tuckahoe River near Estell Manor (cswvp)	01411290	299
Tuckahoe River at Head of River (cswvp)	01411300	302
(WMA 16 - DELAWARE BAY (PART OF ZONE 6) & TRIBUTARIES)		
FISHING CREEK BASIN	0444400	005
Fishing Creek at Rio Grande (cs)	01411400	305
DENNIS CREEK BASIN Dennis Creek:		
Dennis Creek Tributary 2 at Dennsiville (cswvp)	01/11/28	308
		300
WEST CREEK BASIN West Creek near Leesburg (cmswvph)	01411444	311
(WMA 17 - DELAWARE BAY (PART OF ZONE 6) & TRIBUTARIES)	01411444	311
MAURICE RIVER BASIN		
Still Run at Little Mill Road, near Clayton (cmswvph)	01411452	315
Scotland Run:	01411402	010
Indian Branch near Malaga (cms)	01411466	319
Maurice River at Norma (cms)		321
Buckshutem Creek:		
Gravelly Run at Laurel Lake (cmswvp)	01411955	323
COHANSEY RIVER BASIN		
Cohansey River at Seely (cms)	01412800	326
Barrett Run at Bridgeton (cmswvph)	01413013	328
(WMA 1 - UPPER DELAWARE (ZONE 1C, ZONE 1D, AND THE UPPER PART OF ZONE 1E)	& TRIBUTARIES)	
DELAWARE RIVER BASIN		
Delaware River at Port Jervis, NY (cstvp) [site not within WMA 1]		332
Neversink River near Claryville, NY (csp) [site not within WMA 1]		337
Delaware River at Montague (cms)		339
Flat Brook near Flatbrookville(cmstp)	01440000	341
Dunnfield Creek at Dunnfield (cmswvp)	01442760	346
Delaware River at Portland, PA (cms)	01443000	349 351
Paulins Kill at Warbasse Juriction Hoad, flear Larayette (criswyph)	01443230	355
Pequest River:	01445500	000
Bear Brook at Dark Moon Road, near Johnsonburg (cms)	01445160	357
Honey Run near Hope (cmswvph)	01445900	359
Pequest River at Belvidere (cms)	01446400	363
Jordan Creek near Schnecksville, PA (cstvp) [site not within WMA 1]		365
Lehigh River at Glendon, PA (cstvp) [site not within WMA 1]	01454700	370
Musconetcong River at Riegelsville (cms)	01457400	374
(WMA 11 - UPPER DELAWARE & TRIBUTARIES - LOCKATONG, ALEXAUKEN CREEK, AS	SUNPINK CREEK)	
Delaware River at Riegelsville (cms)		377
Nishisakawick Creek near Frenchtown (cms)		379
Delaware River at Lumberville, PA (cms)	01461000	381
Wickecheoke Creek near Sergeantsville (cmswvp)	01461282	383
Delaware River at Trenton (cmswvpt)	01463500	386
Assunpink Creek:	04.400050	105
Miry Run at Route 533, at Mercerville (cms)	01463850	405 408
(WMA 20 - LOWER DELAWARE (UPPER PART OF ZONE 2) & TRIBUTARIES)	01464020	400
Crosswicks Creek:		
North Run at Cookstown (cmswvph)	01464380	411
Crosswicks Creek at Groveville Road, at Groveville (cmswvph)		415
Doctors Creek at Allentown (cms)		419
Blacks Creek at Chesterfield (cms)	01464527	421
Little Neshaminy Creek at Valley Road, near Neshaminy, PA (cswvp)	01464907	424

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

(WMA 19 - LOWER DELAWARE (LOWER PART OF ZONE 2 AND UPPER PART OF ZONE 3) & TRIBUTARIES) Rancocas Creek: South Branch Rancocas Creek: Southwest Branch Rancocas Creek: 429 North Branch Rancocas Creek: North Branch Mt. Misery Brook: 431 Greenwood Branch: 435 439 441 Cooper River at Haddonfield (cmstvp).......01467150 443 450 (WMA 18 - LOWER DELAWARE (LOWER PART OF ZONE 3, ZONE 4, ZONE 5, AND PART OF ZONE 6) & TRIBUTARIES) Big Timber Creek: 453 Schuylkill River: 456 460 466 Mantua Creek: 472 476 483 486

WATER RESOURCES DATA - NEW JERSEY, 2001

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 or sediment were collected and published for the period of record shown for each station.

		Drainage		
Station name	Station number	area (mi ²)	Type of record	Period of record (water years)
Passaic River at Millington, NJ	01379000		Temp.	1997-98
Passaic River near Chatham, NJ	01379500	100	Sed. Temp.	1964-68 1967-68
Rockaway River at Longwood Valley, NJ	01379680		Temp.	1997-98
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
assaic River at Two Bridges, NJ	01382000	361	Temp.,	1963-74
			S.C., pH, D.O.	1969-74
Vanaque River at Wanaque, NJ	01387000	90.4	Temp.	1964-80
Ramapo River near Mahwah, NJ	01387500	118	Sed.	1964-65
ompton River near Two Bridges, NJ	01389000	372	Temp., S.C., pH, D.O.	1969-74
assaic River at Little Falls, NJ	01389500	762	Sed.	1964-65
			Temp., S.C.	1981-86
Saddle River at Ridgewood, NJ	01390500		Temp.	1997-98
Rahway River at Washington Park at Springfield, NJ	01394200		Temp.	1997-98
South Branch Raritan River near High Bridge, NJ	01396500	65.3	Temp.	1961-79
			S.C.	1969-79
Mulhockaway Creek at Van Syckel, NJ	01396660		Temp.	1997-98
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
leshanic River at Reaville, NJ	01398000	2.2.2	Temp.	1997-98
South Branch Rockaway Creek at Whitehouse, NJ	01399690	13.2	Temp., S.C.	1977-78
	5,555555	227	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
Name David at District All	04404000	44.5	Sed.	1963-69
Stony Brook at Princeton, NJ	01401000	44.5	Temp.	1957-70, 1997-9
Dadas Dasak sasa Daska Hill M.I.	04404000		Sed.	1960-70
Beden Brook near Rocky Hill, NJ	01401600	007	Temp.	1997-98
Millstone River near Manville, NJ	01402900	287	Temp., S.C., pH, D.O.	1968-74
Raritan River at Queens Bridge	01403300		Temp.	1997-98 1996-98
Bound Brook at Middlesex, NJ Raritan River near South Bound Brook, NJ	01403900	862	Temp., S.C. Temp., S.C., pH, D.O.	1969-77
Manasquan River at Squankum, NJ	01404100	44		1969-74
oms River near Toms River, NJ	01408000	123	Temp., S.C., pH, D.O.	1964-66, 1975-8
ons river hear forms river, No	01408500	123	Temp., S.C.	1975-81
Dyster Creek near Brookville, NJ	01409095	7.43	Temp., D.O.	1975-76
Dyster Greek flear Brookville, No	01409093	7.45	S.C., pH	1975-77
Vest Branch Wading River near Jenkins, NJ	01409810	84.1	Temp., S.C.	1978-81
Great Egg Harbor River at Sicklerville, NJ	01410784	04.1	Temp., S.C.	1996-98
Great Egg Harbor River trib. at Sicklerville, NJ	01410787	1.64	Sed.	1974-78
Fourmile Branch at New Brooklyn, NJ	01410707	7.74	Sed.	1974-78
Great Egg Harbor River at Folsom, NJ	01411000	57.1	Temp.	1961-75, 1977-8
areat Egg Flandor Fliver at Foldom, No	01411000	07.1	S.C.	1969-75, 1977-8
			Sed.	1966-70, 1979
Delaware Bay at Ship John Shoal Lighthouse, NJ	01412350	-22	Temp.	1970-86
Maurice River at Norma, NJ	01411500	112.0	Temp.	1967-68, 1980-8 1993-94
			S.C.	1980-87, 1993-9
			pH	1993-94
		Sed.	1965-68	1000 04

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

WATER RESOURCES DATA - NEW JERSEY, 2001 DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Delaware River near Delaware Water Gap, Pa.	01440200	3850	Sed.	1964-65, 1972
Delaware River at Dunnfield, NJ	01442750	4150	Temp.	1967-76
	4570455		Sed.	1966-76
Delaware and Raritan Canal Feeder at Raven Rock, NJ			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
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 Bruns- wick, NJ	01460600		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).



01398000 Neshanic River at Reaville
Agricultural Land Use Indicator 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 water quality in streams; stage, contents, and water quality in lakes and reservoirs; and water levels and water quality in ground-water wells. This volume contains water quality records, containing various chemical analyses, at 128 surface-water and 53 ground-water stations. Locations of these stations are shown in figures 22-24, and 62. Additional water-quality data were collected at various sites that are not part of the systematic data collection program. Miscellaneous data were collected at 29 surface-water sites and 53 ground-water sites. Locations of these sites are shown in figures 59-64. 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-01-3." 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, Bradley M. Campbell, Commissioner

North Jersey District Water Supply Commission, Michael Barnes, 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

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

Yearly Trend of Precipitation, Stream Discharge, and Physical Water-Quality Characteristics Monitored at Several Index Stations

New Jersey received 39.12 inches of precipitation during water year 2001 (October 2000 to September 2001); precipitation was calculated from a spatially weighted average at several dozen stations throughout the State. This is a 5.68-inch (13 percent) deficit when compared to the long-term (1895-2000) mean-yearly value of 44.80 inches (Statewide Monthly Precipitation 1895-2001, Climate Data, N.J. State Climatologist, Rutgers University; accessed at http://climate.rutgers.edu/stateclim/data/index.html). Monthly mean values for March and June were above long-term (1895-2000) mean-monthly values; October, January, February, April, May, and July to September were below long-term means, whereas November and December were near normal (fig. 1). Streamflow was above average during March and June at the High Bridge and Folsom index stations and during December, April, and June at the Trenton index station (fig. 2). Below-average streamflow was recorded during November, January, May, and July to September at all three index stations.

One effect of the yearlong precipitation deficit can be seen in the plot of monthly mean values of specific conductance (SC) at the continuous-monitoring station on the Delaware River at Trenton (fig. 3). All monthly mean values of SC for the 2001 water year were above long-term (1968-2000) mean-monthly values. The values for May and July exceeded the highest monthly mean values for the period of record; values for February, March, and August were within 3 μS/cm (microsiemens per centimeter at 25 degrees Celsius) of period-of-record maximum values. Near-average monthly mean SC values recorded during April and June correspond to above average streamflow during these months. SC is generally inversely related to stream discharge and is often used as an indicator of dissolved solids concentration.

The spatially weighted average ambient temperature for New Jersey for the 2001 water year was 52.5° F (11.4° C); the long-term (1895-2000) meanyearly temperature was 52.1° F (11.2° C) (Statewide Monthly Mean Temperatures 1895-2001, Climate Data, N.J. State Climatologist, Rutgers University; accessed at http://climate.rutgers.edu/stateclim/data/index.html). Most water temperatures measured throughout the year at stations in the Ambient Stream Monitoring Network (described later in this section) were within previously measured maximums and minimums. Monthly mean water temperature values for water year 2001 measured at Delaware River at Trenton, New Jersey, closely matched long-term (1895-2000) mean-monthly values and did not exceed period-of-record minimums or maximums (fig. 4).

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. As expected, the highest monthly median of the daily maximum DO concentrations, 15.4 mg/L (milligrams per liter), occurred in February when the mean water temperature was 2.7 C(fig. 5). The lowest monthly median of the daily-minimum DO concentrations, 7.4 mg/L, and the highest monthly mean water temperature, 26.9 C occurred in August. No monthly medians of daily maximum or minimum values for water year 2001 exceeded previously established highest or lowest monthly median values for the period of record.

Ambient Stream Monitoring Network

The United States Geological Survey (USGS) in cooperation with the New Jersey Department of Environmental Protection (NJDEP), operates the cooperative Ambient Stream Monitoring Network (ASMN) which is designed to determine statewide water-quality status and trends, measure water-quality near the downstream end of each NJDEP Watershed Management Area (WMA), define background water quality in each of the four physiographic provinces of New Jersey, and measure nonpoint source contributions from major land-use areas and atmospheric deposition. The ASMN consists of 112 stations located throughout the 20 WMAs. Five stations are located on the Delaware River main stem—the border between New Jersey and Pennsylvania—and are excluded from the following descriptive statistics of the ASMN data. The remaining 107 stations are segregated into 5 distinct types that together are used to define the surface-water quality in the State. Six background stations are located on reaches of streams that remain relatively unaffected by human activity in order to develop a baseline waterquality database. Twenty-three Watershed-Integrator (WI) stations are located at the farthest downstream point, not affected by tide, in one of the large drainage basins in each WMA, except areas 9 and 16. The WI stations provide information on the sum of point and nonpoint source contributions to surface water quality within each WMA. Land Use Indicator (LUI) 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. Of the 43 LUI stations, 15 are designated undeveloped, 9 agriculture, 13 urban, and 6 mixed. Forty statewide-status (SS) stations, two in each WMA, are chosen randomly to obtain a statistical basis that can be used to estimate values of water-quality indicators statewide. In water year 2001, five of the SS stations were co-located at existing WI or LUI stations; data from both station types were included in the statistics of both station types. Watercolumn samples were collected at each station to assess water-quality constituents that can be used as environmental indicators statewide. In addition to the regularly scheduled samples a Watershed Reconnaissance study is devised annually according to specific project needs. The purpose of the Watershed Reconnaissance study in water year 2001 was to assess 3 to 6 day diurnal physical measurements and constituent concentrations at a subset of the network sites. This is

discussed further in Ambient Stream Monitoring Network Reconnaissance Study.

Distribution of Selected Constituents in Filtered and Unfiltered Surface Water from Stations in the ASMN

Measurements were made of physical characteristics of, and analyses were conducted to determine concentrations of total and filtered nutrients, filtered common ions, filtered organic carbon, and biochemical oxygen demand (BOD) in, water samples from 112 stations in the ASMN. Samples were collected at each station four times a year during the periods November to December, February to March, May to June, and August to September. The analyzing laboratory used two different methods and reporting conventions for establishing the minimum concentration above which a quantitative measurement could 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. Estimated values, which were determined to be greater than the LT-MDL but less than the LRL, also were included, and they are marked with an "E" in the water-quality tables. Refer to "Laboratory Measurements" in the "Introduction" for additional information on reporting limits and estimated concentrations.

The highest median water temperature and lowest median percent of dissolved oxygen saturation during the growing season (April-October) occurred at urban LUI stations (fig. 6). Streams affected by wastewater and road salt runoff are likely to have high levels of total dissolved solids (TDS); samples from urban LUI, WI, and agriculture LUI stations had the highest median concentrations of TDS—252, 174, and 152 mg/ L, respectively. In contrast, samples from undeveloped LUI and background stations had the lowest median concentrations, 49 and 73 mg/L, respectively. Samples from SS stations had the most outliers greater than 400 mg/L of TDS. The two highest values, 1,700 and 4,190 mg/L, were from samples collected the day after a snowfall and the subsequent application of road salt. The lowest median concentration of BOD, 0.5 mg/L, was present in samples from background stations and is lower than the minimum reporting level of 1.0 mg/L.

Runoff containing chemical fertilizer or animal waste, and discharge of municipal sewage, are likely contributors of nutrients to streams. The highest median concentrations of ammonia, as nitrogen, were present in samples from urban and agriculture LUI stations, 0.095 and 0.060 mg/L, respectively. The highest median concentrations of nitrite plus nitrate, as nitrogen, were present in samples from agriculture LUI and WI stations, 1.50 and 1.25 mg/L, respectively. The highest median concentrations of ammonia plus organic nitrogen were present in sample from urban and agriculture LUI stations, 0.52 and 0.42 mg/L, respectively. The highest median concentrations of phosphorous were present in samples from urban LUI

and WI stations, 0.070 and 0.066 mg/L, respectively. Samples from background and undeveloped LUI stations contained the lowest median concentrations of the four nutrient species.

The median concentration of filtered organic carbon in samples from network stations of all types for water years 1998-2000 is 3.7 mg/L. Median values measured in samples during water year 2001 ranged from 2.0 at background stations to 4.8 mg/L at undeveloped LUI stations. Some undeveloped LUI stations were located on streams that drained low-relief cedar wetlands in the Coastal Plain physiographic province where the water has sufficient residence time to extract organic carbon compounds from decaying plant material. Predictably, samples from undeveloped LUI stations had the largest range of filtered organic carbon concentrations, 1.4 to 19.0 mg/L, and the highest median concentration, 4.8 mg/L.

Distribution, Detection Frequency, and Concentration of Selected Whole-Water Recoverable Trace Elements, Volatile Organic Compounds, and Filtered Pesticides in Samples from 46 Stations in the ASMN

Concentrations of trace elements, volatile organic compounds (VOCs), and pesticides in samples from background stations were determined to develop a baseline with which to compare the water quality at other stations and at SS stations to provide a general overview of water quality statewide and of the aerial distribution of these compounds. Samples for analysis of trace elements, VOCs, and pesticides were collected during the period when the constituents were most likely to be detected, during August and September, February and March, and May and June, respectively. For ease of discussion, only those constituents detected in one or more samples are shown in the figures or tables. A detected constituent was one whose value is reported to be greater than or equal to the laboratory MRL or LRL. Data on selected whole-waterrecoverable trace elements with a high percentage of detection in samples (greater than 75 percent) are summarized in box plots; data on constituents with a lower percentage of detection in samples are summarized in scatter plots. Values reported by the analyzing laboratory as less than the MRL or LRL were included in the box plots but were reported as a value equal to one-half the MRL or LT-MDL; they were excluded from the scatter plots. Estimated values were included in both types of plots.

Abundant minor elements, iron and manganese, and less abundant trace elements that might affect human health, and plant nutrition and toxicity (Hem, 1985), were detected less often and in smaller concentrations in samples from background stations than in samples from SS stations (figs. 7 and 8). Arsenic, chromium, mercury, and silver were not detected in any sample from background stations; lead, nickel, and selenium were detected once each. Median concentrations of minor elements and detection frequencies of trace elements were greatest in samples from SS stations.

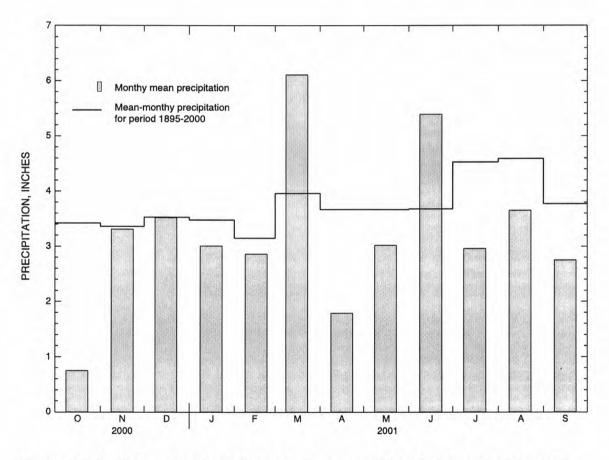
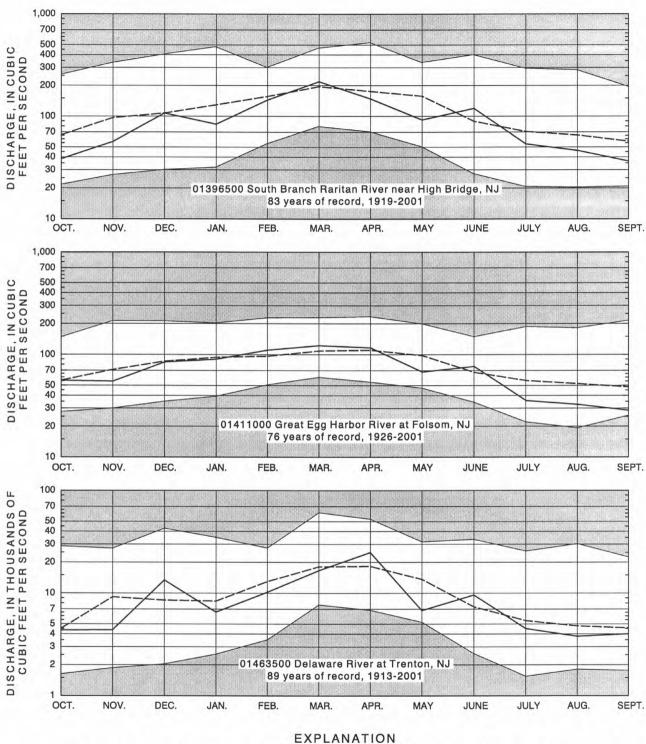


Figure 1. Monthly mean precipitation for water year 2001 and mean-monthly precipitation for 1895-2000. [Mean-monthly and monthly mean precipitation are spatially weighted averages of several dozen stations throughout the State]

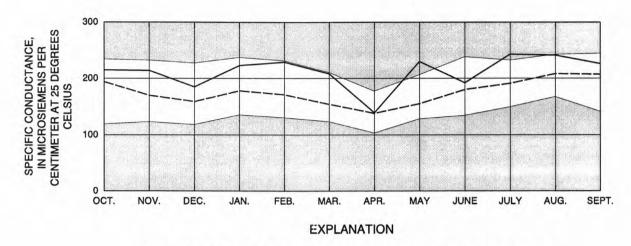


UNSHADED AREA--Indicates range between highest and lowest mean discharge recorded for the month, prior to 2000 water year

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, water year 2001.

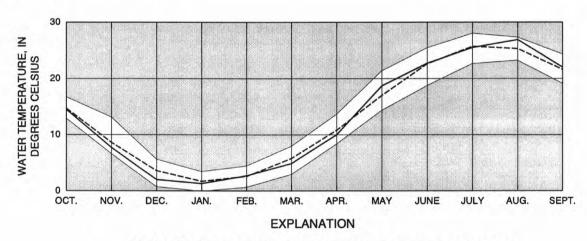


UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-2000.

SOLID LINE--Indicates the monthly mean values for water year 2001.

BROKEN LINE--Indicates the mean monthly values for water years 1968-2000.

Figure 3. Monthly mean specific conductance at Delaware River at Trenton, New Jersey, water year 2001.

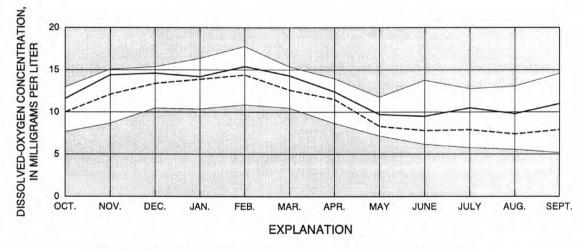


UNSHADED AREA--Indicates the range between the highest monthly mean values and the lowest monthly mean values, water years 1968-2000.

SOLID LINE--Indicates the monthly mean values for water year 2001.

BROKEN LINE--Indicates the mean monthly values for water years 1968-2000.

Figure 4. Monthly mean water temperature at Delaware River at Trenton, New Jersey, water year 2001.



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 1968-2000.

SOLID LINE--Indicates the monthly median of daily maximum values for water year 2001.

BROKEN LINE--Indicates the monthly median of daily minimum values for water year 2001.

Figure 5. Monthly medians of daily maximum and minimum dissolved-oxygen concentrations at Delaware River at Trenton, New Jersey, water year 2001.

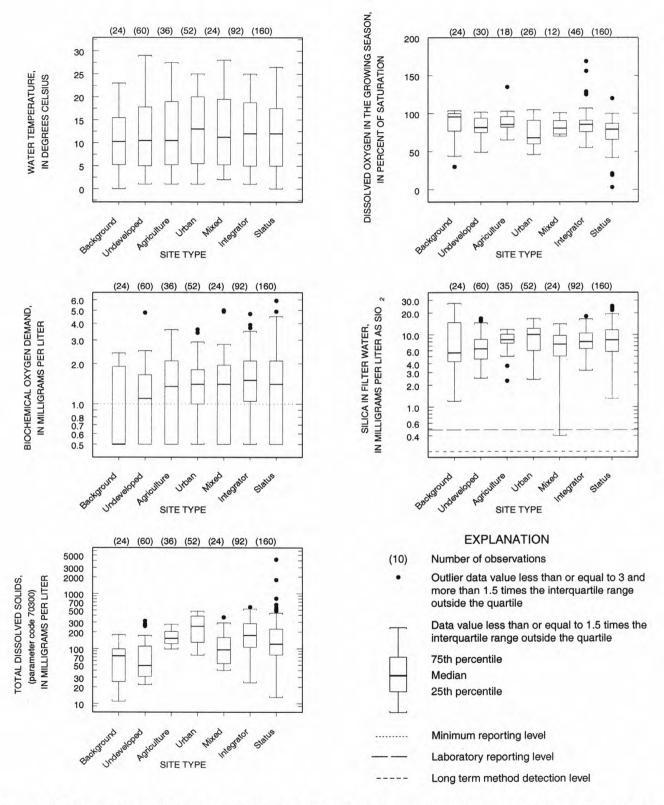


Figure 6. Distribution of physical characteristics of, and constituent concentrations in, samples from 112 stations in the Ambient Stream Monitoring Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

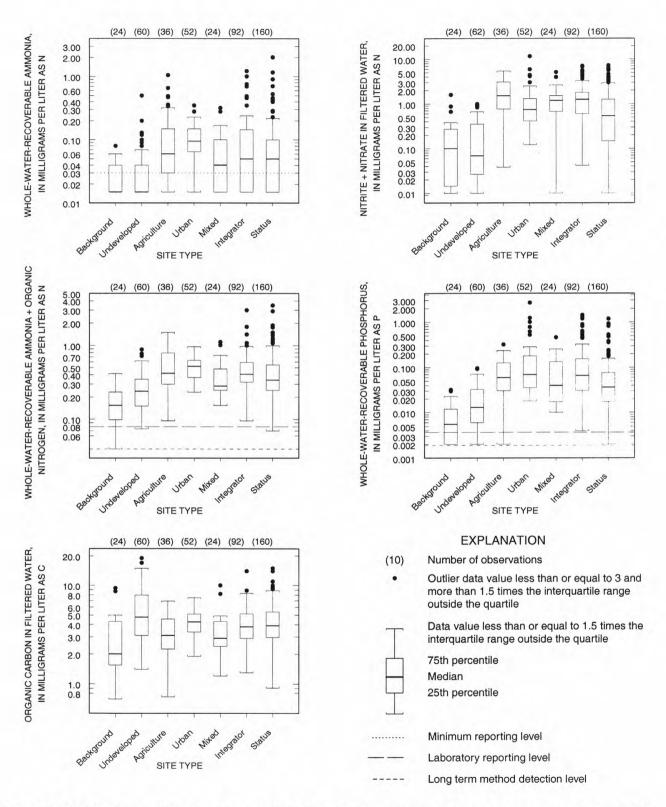


Figure 6. Distribution of physical characteristics of, and constituent concentrations in, samples from 112 stations in the Ambient Stream Monitoring Network, water year 2001--continued. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level; excludes data from Delaware River main stem sites 01438500, 01443000, 01457500, 01461000, and 01463500]

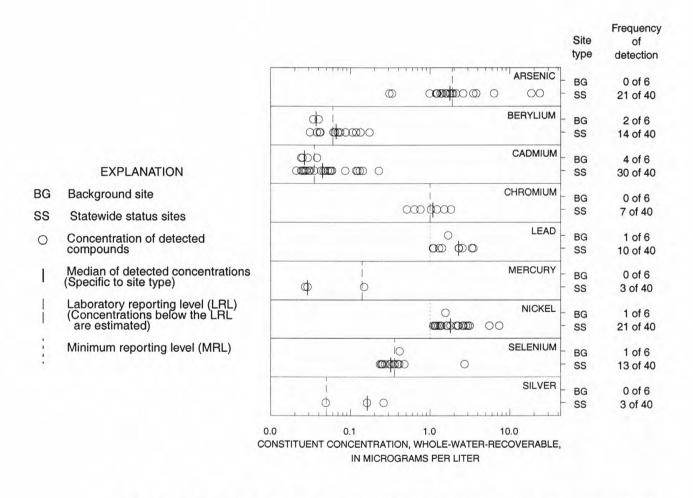


Figure 7. Concentration and detection frequency of whole-water-recoverable trace elements detected in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

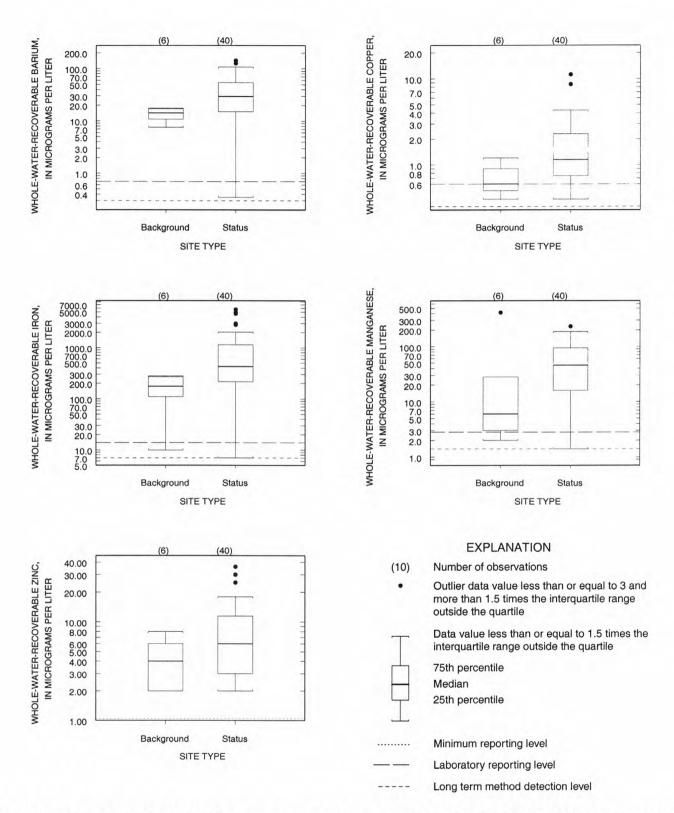


Figure 8. Distribution of selected whole-water-recoverable trace-element concentrations in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

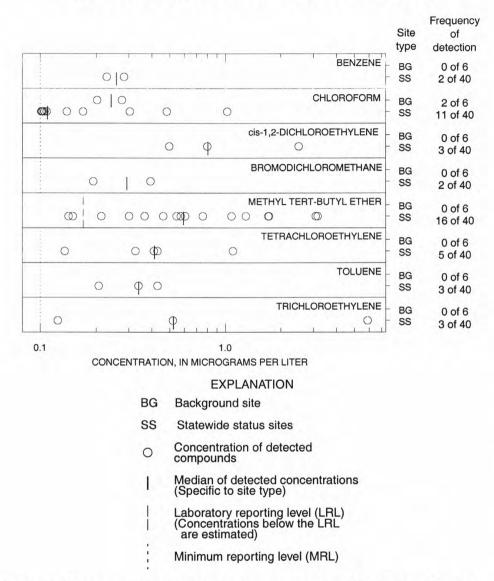


Figure 9. Concentration and detection frequency of volatile organic compounds detected in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 1. Concentration of volatile organic compounds detected only once in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001.

[SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE	
1,1,1-TRICHLOROETHANE	1.092	SS	
1,2-DICHLOROETHANE	0.6656	SS	
CHLOROBENZENE	0.7946	SS	
META+PARA XYLENE	E.1851	SS	
VINYL CHLORIDE	1.0300	SS	

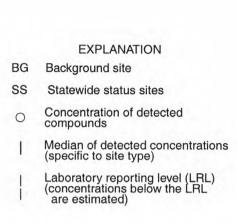


Table 2. Detection frequency of selected pesticides in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [All values are estimated due to poor recovery or poor precision]

CONSTITUENT	STATEWIDE	BACKGROUND	
	STATUS		
CARBARYL	20 of 40	0 of 6	
CARBOFURAN	2 of 40	0 of 6	
DACTHAL (DCPA)	2 of 40	0 of 6	
DEETHYLATRAZINE	23 of 40	1 of 6	
METHYLAZINPHOS	4 of 40	0 of 6	
TEBUTHIURON	2 of 40	0 of 6	
TERBACIL	4 of 40	0 of 6	
TRIFLURALIN	8 of 40	0 of 6	

Table 3. Concentration of pesticides detected only once in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001.

[SS, statewide status; E, estimated]

CONSTITUENT	CONCENTRATION	SITE	
	(micrograms per liter)	TYPE	
ALPHA-HCH	0.0053	SS	
BENFLURALIN	E.0046	SS	
CYANAZINE	0.7660	SS	
DIELDRIN	0.0098	SS	
EPTC	0.0098	SS	
LINDANE	E.0022	SS	
LINURON	0.0717	SS	

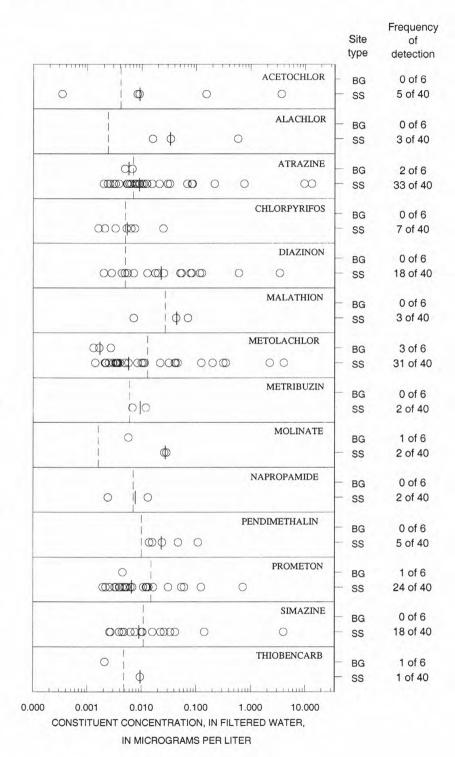


Figure 10. Concentration and detection frequency of pesticides detected in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

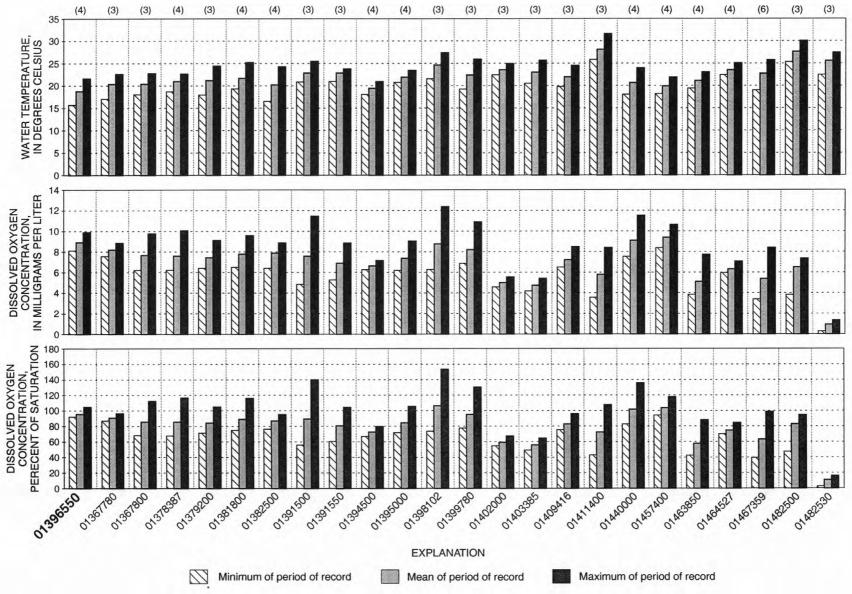


Figure 11. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during June, July, August, or September, 2001.

[Station number in bold represents a background site; (3), 3 days in period of record]

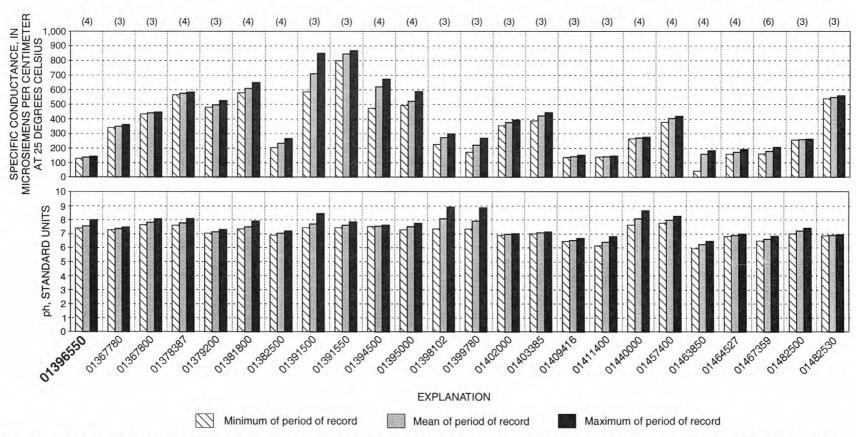


Figure 11. Field characteristics and concentrations of constituents in surface water at selected stations in the Ambient Stream Monitoring Network during June, July, August, or September, 2001--continued.

[Station number in bold represents a background site; (3), 3 days in period of record]

Samples from 6 background and 40 SS stations were analyzed for 34 VOCs. Only those detected in one or more samples are included in figure 9 and table 1. (See individual station records for tables listing all the compounds.) Five compounds were detected once, and eight were detected multiple times. The most frequently detected VOCs in 46 samples were Methyl tert-butyl ether (MTBE), in 35 percent of samples and chloroform, in 28 percent. Chloroform was the only compound detected in samples from background stations. Chloroform and Bromodicholoromethane are byproducts of the chlorination of drinking water. Benzene and Toluene are components of gasoline; MTBE is a gasoline additive.

Filtered samples from 6 background and 40 SS stations were analyzed for 47 pesticides by use of USGS National Water Quality Laboratory schedule 2001. Only compounds detected in one or more samples are included in figure 10 and tables 2 and 3. (Refer to "Laboratory Measurements" in the "Introduction" for the complete list of those pesticides and the LRL for each compound.) Estimated values, concentrations to the left of the LRL lines in figure 10, also are included. Twenty-nine pesticides were detected at one or more SS stations; six of these also were detected at background stations. Seven of the detected compounds are insecticides—Chlorpyrifos, Diazinon, Malathion, Carbaryl, Carbofuran, Dieldrin, and Lindane. The remaining compounds are herbicides. The most frequently detected pesticides in 46 samples were Atrazine, in 76 percent of samples; Metolachlor, in 74 percent; Prometon, in 54 percent; Deethylatrazine (a degradation product of Atrazine), in 52 percent; Carbaryl, in 43 percent; and Diazinon and Simazine, in 39 percent each. The six compounds detected at background stations are commonly used herbicides. The two most frequently detected at background stations were Metolachlor, in 50 percent of samples with a median concentration 0.002 µg/L (micrograms per liter) and Atrazine, in 33 percent with a median concentration of 0.006 µg/L. The median concentrations of Metolachlor and Atrazine in samples from SS stations were 0.006 and 0.009 µg/L, respectively.

Ambient Stream Monitoring Network Reconnaissance Study

For the reconnaissance study done in water year 2001, base-flow extremes of continuously monitored water temperature, dissolved oxygen concentration, percent of dissolved oxygen saturation, specific conductance, and pH were measured during periods of less than 1 week. The occurrence and magnitude of diurnal variations that could not be observed during normal station visits, which generally took place between the hours of 8 a.m. and 2 p.m., were documented. The continuous measurements were made by insitu multi-constituent sensors, or monitors, deployed from 3 to 6 days at 24 network stations during the summer months. Values were recorded hourly. Statistical summaries for the periods of record for all stations are shown in figure 11; graphs of hourly values are included in the individual station records.

Reconnaissance stations were selected on the

basis of previous occurrences of DO supersaturation (greater than 120 percent of saturation) or DO undersaturation (less than 60 percent of saturation). One background station was included as a control for comparison with other stations and to demonstrate constituent variations in pristine watersheds. Other station types represented are undeveloped LUI (two), agriculture LUI (four), urban LUI (five), WI (eight), and SS (four).

Mean values for percent-of-DO-saturation above 100 percent, for the periods of record, occurred at undeveloped LUI station 01440000 (Flat Brook at Flatbrookville) and WI stations 01398102 (South Branch Raritan River at South Branch) and 01457400 (Musconetcong River at Riegelsville). Additionally, maximum values for percent-of-DO-saturation above 120 percent, for the periods of record, occurred at WI stations 01391500 (Saddle River at Lodi) and 01399780 (Lamington River at Burnt Mills). Mean values for percent-of-DO-saturation below 60 percent, for the periods of record, occurred at urban-LUI stations 01403385 (Bound Brook at Middlesex) and 01463850 (Miry Run at Mercerville), WI station 01402000 (Millstone River at Blackwells Mill), and SS station 01482530 (Major Run at Sharptown). Additionally, minimum percent-of-DO-saturation below 60 percent, for the periods of record, occurred at undeveloped, urban, and agriculture LUI stations 01411400 (Fishing Creek at Rio Grande), 01467359 (North Branch Big Timber Creek at Glendora), and 01482500 (Salem River at Woodstown); WI station 01391500; and SS station 01391550 (Saddle River at Garfield).

SC and pH measurements at some stations exhibited diurnal variation. When respiring, plants and algae release carbon dioxide; it is quickly converted to bicarbonate, affecting SC and pH levels. Diurnal variation and high values of pH occurred at WI stations 01391500, 01398102, and 01399780; and undeveloped LUI station 01440000. Diurnal variation of SC occurred at WI stations 01391500 and 01398102. Non-diurnal, period-long fluctuations of SC caused by specific events or conditions like rainfall, poor mixing, or diminishing stream discharge occurred at WI stations 01395000 (Rahway River at Rahway) and 01399780 and urban LUI stations 01394500 (Rahway River at Springfield) and 01463850.

Ground Water Quality

The United States Geological Survey (USGS) in cooperation with the New Jersey Department of Environmental Protection (NJDEP), operates the Ambient Ground-Water-Quality Network (AGWQN), which is designed to monitor the quality of ground water at or near the water table throughout the State. 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 the land surface. The AGWQN is a long-term monitoring network with goals to assess the status of ground-water quality by examining the concentrations of various constituents that can be used as environmental indicators, assess water-quality trends by examining data collected on a 5-year cycle, deter-

mine the effects of land use on shallow ground-water quality, identify threats from nonpoint sources of contamination, and identify emerging or new environmental issues of concern to the public.

The network will consist of 150 shallow ground-water 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 (WMRs)—the Passaic, the Raritan, the Upper Delaware, the Lower Delaware, and the Atlantic Coastal. These five WMRs are further divided into 20 watershed-management areas (WMAs). Every year approximately 30 sites are sampled in one or several of the five WMRs. The cycle of sampling all 150 wells will be completed every 5 years. Water year 2001 was the third year of operation of the first 5-year cycle of the AGWQN.

Thirty shallow wells were sampled in water year 2001. Fifteen wells are located in the Upper Delaware WMR, in WMAs 1, 2, and 11 (fig. 12). Four are located in the Raritan WMR, in WMAs 9 and 10. Eleven are located in the Atlantic Coastal WMR, in WMAs 12-14. The wells have 2-inch polyvinyl-chloride casings, range in depth from 10 to 58 feet, and represent 3 landuse types, 8 water-chemistry types, and 13 hydrogeologic units (table 4). Samples from the wells were analyzed for physical characteristics, major ions, nutrients, trace elements, organic constituents, and gross alpha and beta radioactivity. The records of chemical constituents are in the section, "Water-Quality at Miscellaneous Ground-Water Sites."

Distribution, Detection Frequency, and Concentration of Selected Constituents in Filtered Samples from 30 Sites in the AGWQN

Measurements were made of physical characteristics of, and analyses were conducted to determine concentrations of filtered nutrients, common ions, trace elements, and organic carbon in, water samples from 30 wells in the AGWQN. Data on nutrients and trace elements with a high percentage of detection in samples (greater than 75 percent) are summarized in box plots; data on constituents with a lower percentage of detection in samples are summarized in scatter plots. Values reported by the analyzing laboratory as less than the MRL or LRL were included in the box plots but were reported as a value equal to one-half the MRL or LT-MDL; they were excluded from the scatter plots. Estimated values were included in both types of plots.

Similarity in ground-water chemistry among wells located in areas with agriculture, undeveloped, and urban land-use designations is suggested by the data summarized in figures 13 and 14. The median values of most constituents were present in similar concentrations in samples from wells in different areas, with some exceptions. The lowest median concentrations of nitrite plus nitrate and manganese, and the highest median concentration of filtered organic carbon were present in samples from wells in undeveloped areas. The highest median concentrations of aluminum and nickel were present in samples from urban areas.

As a result of agricultural practices, the highest median concentrations of hardness and nitrite plus nitrate were present in samples from agriculture areas. Orthophosphorus was detected in only 20 percent of the 30 samples (fig. 18); this frequency was the lowest for the nutrients that were analyzed for.

The effect of land use on the proportions of the major ions in water samples from the wells can be observed in the data presented in the trilinear or Piper diagrams (figs. 15 to 17). These diagrams and the "Water Type" column (column 5) in table 4 are grouped by land-use type and the major ion chemistry of the water from similar land-use areas is summarized.

Silver is not included in figure 19 because this trace element was not detected in any of the 30 samples. Mercury was detected in one sample (urban). Lead and zinc were detected in 70 percent of the samples; the same number of detections of lead and zinc occurred in samples from each land-use type.

Concentration and Detection Frequency of Selected Organic Constituents in Filtered Samples from 30 Sites in the AGWQN

Samples from 30 wells were analyzed for 34 VOCs. Only those detected in one or more samples are listed in table 5. (See individual station records for tables listing all the compounds.) Estimated values are included. The most frequently detected VOCs in samples from wells located in all land-use areas were Chloroform and Methyl tert-butyl ether (20 percent each). They were most often detected in samples from urban areas (5 of 12). Cis-1, 2-dichloroethene was detected twice. The remaining compounds in table 5 were detected once. The highest total number of VOC detections (15 detections in 12 samples) occurred in samples from wells in urban areas, followed by undeveloped (5 in 9), and agriculture (2 in 9).

Filtered samples from 30 wells were analyzed for 47 pesticides by use of USGS National Water Quality Laboratory schedule 2001. Only pesticides detected in one or more samples are included in figure 20 or tables 6 and 7. (Refer to "Laboratory Measurements" in the "Introduction" for the complete list of those pesticides and the LRL for each compound.) Estimated values, concentrations to the left of the LRL lines in figure 20, are included. Only 10 pesticide compounds were detected in samples from the 30 wells. The most frequently detected pesticides in samples from wells located in all land-use areas were the herbicides Metolachlor, in 27 percent of samples; Atrazine and Deethylatrazine, in 23 percent each; and Prometon, in 13 percent. Chlorpyrifos and Dieldrin were the only insecticides detected, only once each. Samples from wells in agriculture land-use areas had the highest total number of pesticide detections, 17 in 9 samples. Pesticides were detected 10 times in 12 samples from urban landuse areas, and 5 times in 9 samples from undeveloped areas.

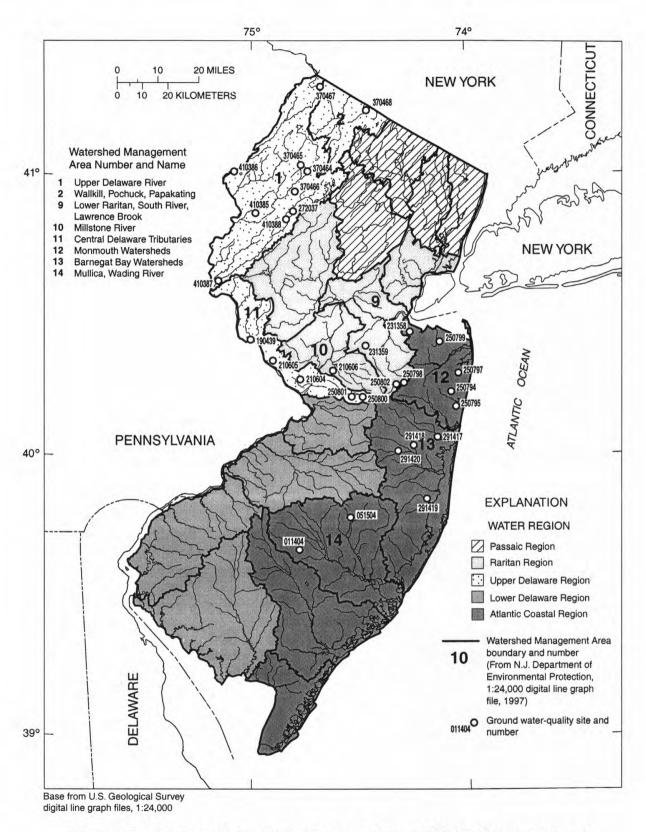


Figure 12. Location of sites in the Ambient Ground-Water-Quality Network, water year 2001.

Table 4. 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 2001.

[WMA, Watershed Mangement Area; VOCs, volatile organic compounds; mg/L, milligrams per liter; NO2+NO3, nitrite plus nitrate; dis, dissolved; <, less than; ft bls, feet below land surface; 121 CKKD, Kirkwood-Cohansey aquifer system; 111HPPM, Undifferentiated sediments of Holocene, Pleistocene, Pliocene, or Miocene age; 111ALVM, Holocene Alluvium; 112SFDF, Stratified Drift; 125VNCN, Vincenton Formation; 211MRSL, Marshalltown Formation; 211MLRW, Mount Laurel Sand-Wenona Formation; 211RDBK, Red Bank Sand; 211EGLS, Englishtown Formation; 211MRPAU, Magothy-Rartian-Potomac Upper Aquifer; 227PSSC, Passaic Formation; 231SCKN, Stockton Formation; 350HGFL, High Falls Formation; ---, data not available]

				7,675,555		Nitrogen			Number of	
NJ-WRD		Hydrogeologic	0	Water type	Dissolved	NO2+NO3	Number of	Number	trace	1
well	WMA	unit aquifer	Predominant	(dominant	oxygen	dissolved	pesticides	of VOCs	elements	Well depth
number	number	code	land use1	cation-anion)	(mg/L)	(mg/L)	detected ²	detected ²	detected ²	(ft bls)
370466	1	112SFDF	Agricultural	Calcium-bicarbonate	5.2	10.5	3	1	4	13.8
410387	1	112SFDF	Agricultural	Calcium-bicarbonate	4.5	3.86	3	None	9	12
370468	2	112SFDF	Agricultural	Calcium-bicarbonate	1.1	1.85	2	None	9	13.5
370465	1	112SFDF	Agricultural	Calcium-bicarbonate	5.1	3.67	None	None	6	31.5
210605	11	227PSSC	Agricultural	Calcium-bicarbonate	3.8	E3.02	4	None	8	13.5
250800	11	211MLRW	Agricultural	Magnesium-sulfate	5.2	3.86	1	None	11	18.5
051504	14	121CKKD	Agricultural	Potassium-sulfate	0.3	E.04	None	1	9	10
250801	11	211EGLS	Agricultural	Calcium-sulfate	9.0	E3.78	3	None	7	26
250802	9	211RDBK	Agricultural	Sodium-chloride	4.2	0.95	None	None	8	35.1
370467	1	350HGFL	Undeveloped	Magnesium-bicarbonate	4.4	E.04	None	None	8	50.0
370464	1	112SFDF	Undeveloped	Calcium-bicarbonate	4.2	0.07	None	None	7	38
410386	1	112SFDF	Undeveloped	Calcium-bicarbonate	3.9	0.23	None	None	8	36
410385	1	112SFDF	Undeveloped	Calcium-bicarbonate	4.8	E.03	None	None	4	37
272037	1	112SFDF	Undeveloped	Calcium-bicarbonate	5.5	0.11	1	None	10	57.5
190439	11	111ALVM	Undeveloped	Calcium-bicarbonate	5.3	1.98	None	None	9	39
011404	14	121CKKD	Undeveloped	Magnesium-sulfate	< 0.2	8.69	1	None	12	14
231359	9	111HPPM	Undeveloped	Iron-bicarbonate	< 0.2	<.05	None	None	11	14.5
231358	12	211MRPAU	Undeveloped	Calcium-sulfate	3.0	0.78	None	4	7	55
410388	1	112SFDF	Urban	Calcium-bicarbonate	6.9	0.9	3	5	8	12
250797	12	125VNCN	Urban	Calcium-bicarbonate	3.6	1.17	None	1	4	38.5
210604	11	231SCKN	Urban	Calcium-bicarbonate	3.6	E.03	1	1	8	19.5
250795	12	121CKKD	Urban	Sodium-chloride	1.6	5.92	None	1	10	27.5
291417	13	121CKKD	Urban	Sodium-chloride	3.6	3.14	None	None	11	18.5
291418	13	121CKKD	Urban	Sodium-chloride	10.0	0.56	3	2	9	24
291419	13	121CKKD	Urban	Sodium-chloride	1.4	2.75	None	1	9	20
210606	10	111HPPM	Urban	Sodium-chloride	5.4	1.65	2	None	12	18
250798	9	211RDBK	Urban	Sodium-chloride	0.6	4.41	None	2	11	22
250799	12	211MRSL	Urban	Calcium-sulfate	1.6	E.03	1	2	8	23.8
250794	12	121CKKD	Urban	Iron-sulfate	1.4	E.03	None	None	10	29.5
291420	13	121CKKD	Urban		4.7	3.27	2	None	4	25

¹Land use based on New Jersey geographic information system (New Jersey Department of Environmental Protection, 1996).

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

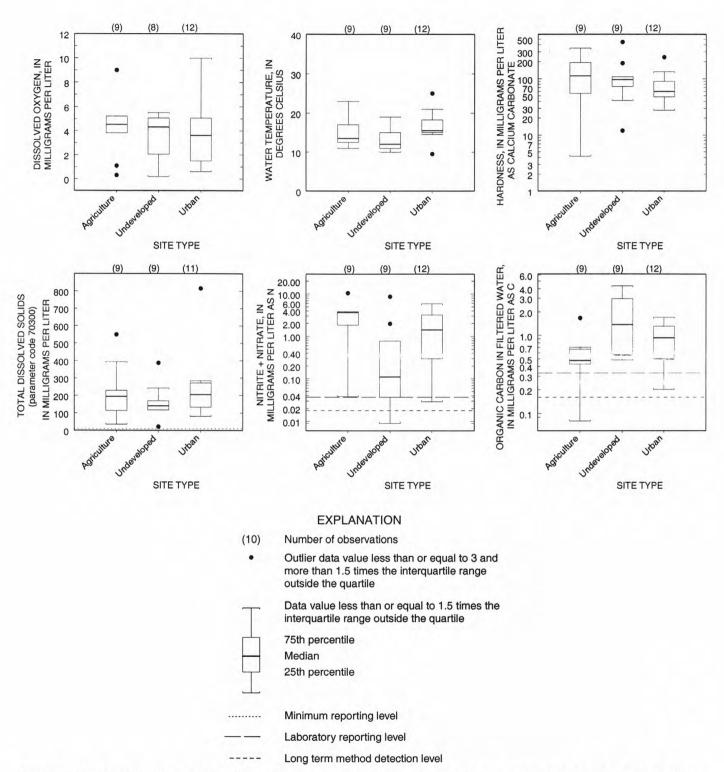


Figure 13. Distribution of physical characteristics of, and constituent concentrations in, samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

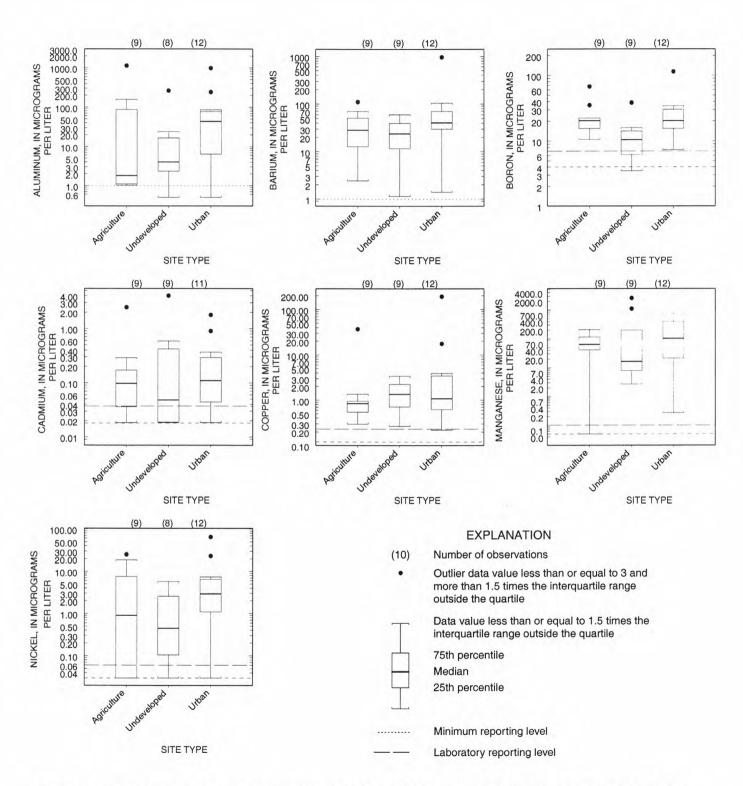


Figure 14. Distribution of selected trace-element concentrations in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. ["Less-than" values reported as equal to one-half the minimum reporting level or long-term method detection level]

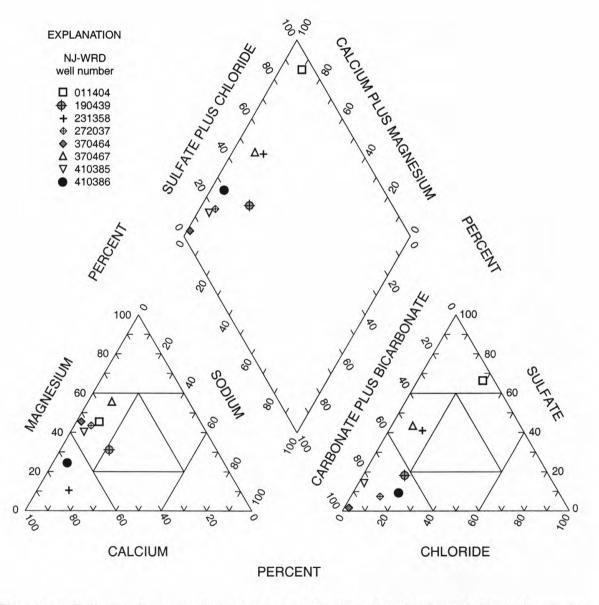


Figure 15. Trilinear diagram showing the distribution of major ions in filtered samples from eight sites in undeveloped land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.

[Excludes site 231359 because data are not available]

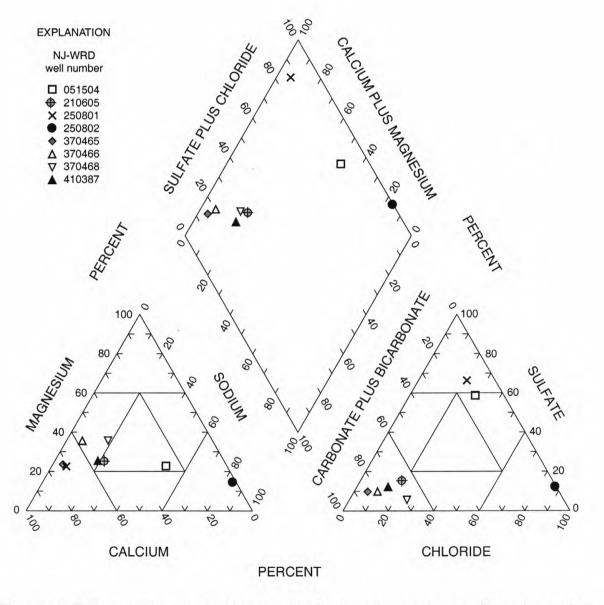


Figure 16. Trilinear diagram showing the distribution of major ions in filtered samples from eight sites in agricultural land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.

[Excludes site 250800 because data are not available]

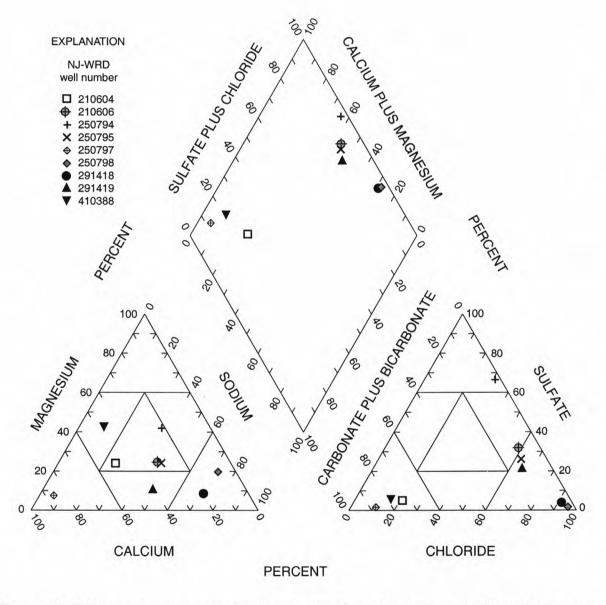


Figure 17. Trilinear diagram showing the distribution of major ions in filtered samples from nine sites in urban land-use areas in the Ambient Ground-Water-Quality Network, water year 2001.

[Excludes sites 250799, 291417, and 291420 because data are not available]

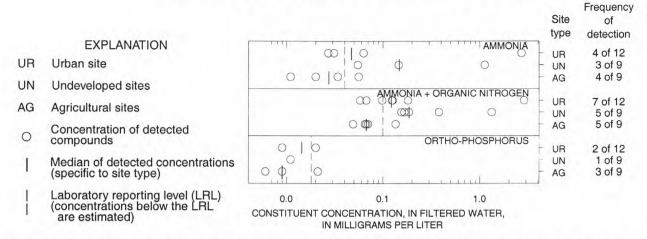


Figure 18. Concentration and detection frequency of nutrients detected in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

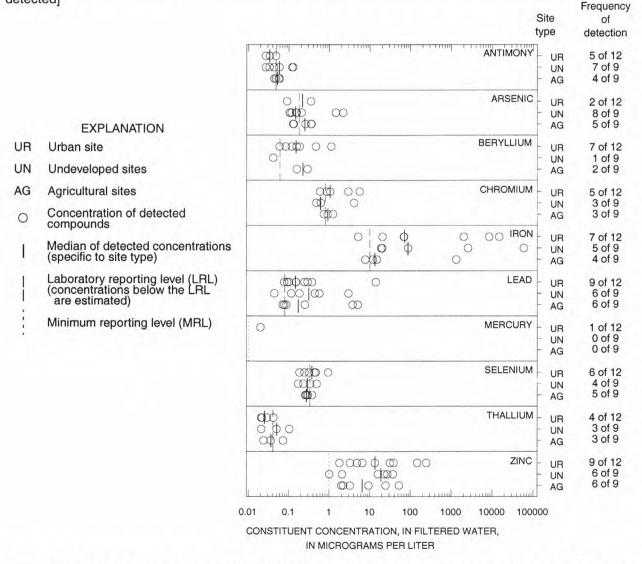


Figure 19. Concentration and detection frequency of trace elements detected in filtered-samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 5. Detection frequency of selected volatile organic compounds in samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.

[AG, agriculture; UR, urban; UN, undeveloped]

		SITE TYPE	
CONSTITUENT	AG	UR	UN
1,1,1-TRICHLOROETHANE	0 of 9	1 of 12	0 of 9
CHLORODIBROMOMETHANE	0 of 9	0 of 12	1 of 9
CHLOROFORM	0 of 9	5 of 12	1 of 9
Cis-1,2-DICHLOROETHENE	0 of 9	1 of 12	1 of 9
BROMODICHLOROMETHANE	0 of 9	0 of 12	1 of 9
FREON-113	0 of 9	1 of 12	0 of 9
METHYL TERT-BUTYL ETHER	1 of 9	5 of 12	0 of 9
METHYLENECHLORIDE	0 of 9	0 of 12	1 of 9
TETRACHLOROETHYLENE	0 of 9	1 of 12	0 of 9
TOLUENE	1 of 9	0 of 12	0 of 9
TRICHLOROETHYLENE	0 of 9	1 of 12	0 of 9

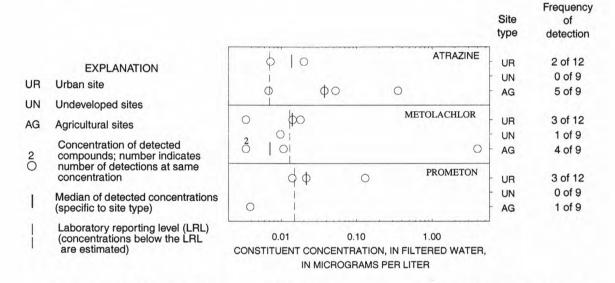


Figure 20. Concentration and detection frequency of pesticides detected in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Table 6. Detection frequency of selected pesticides in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.

[All values are estimated due to poor recovery or poor precision; AG, agriculture; UR, urban; UN, undeveloped]

Manufacture To the Control of the Co		SITE TYPE		
CONSTITUENT	AG	UR	UN	
DEETHYLATRAZINE	5 of 9	0 of 9	2 of 12	

Table 7. Concentration of pesticides detected only once in filtered samples from 30 sites in the Ambient Ground-Water-Quality Network, water year 2001.

[AG, agriculture; UR, urban; UN, undeveloped; E, estimated]

CONSTITUENT	CONCENTRATION (micrograms per liter)	SITE TYPE
CHLORPHYRIFOS	E.002	AG
CYANAZINE	0.046	UR
DIELDRIN	0.491	UR
NAPROPAMIDE	0.007	AG
TERBACIL	E.297	UN
TRIFLURALIN	E.006	UN

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 groundwater-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, ground-water, 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 waterquality issues.

The surface-water network consists of 112 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 Integrator 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 sites 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 sites. Samples for the analyses of trace elements and polyaromatic hydrocarbons in streambed sediments are also collected in August and September at 19 Statewide Status sites and 2 Back-

ground sites. Samples for the analyses of fecal coliform, E. coli, and enterococcus bacteria were collected synoptically in May, June, July, and August.

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 ground-water network will consist 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 encompasses WMAs 3-6; the Lower Delaware Region, WMAs 17-20; the Raritan Region, WMAs 7-10; the Upper Delaware Region, WMAs 1, 2, and 11; and, the Atlantic Coastal Region, 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. Water year 2001 was the third year of operation of the first five-year cycle. Samples were collected from 30 wells in the Upper Delaware, Raritan, and Atlantic Coastal WMR's and 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 of 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 longterm, 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/.

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special inter-comparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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 53 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 will be 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.

NAWQA study units are divided into three groups that are studied intensively on a rotational basis. Two NAWQA studies are currently run out of the New Jersey District of the USGS. The Long Island-New Jersey Coastal Plain (LINJ) study unit conducted intensive sampling from 1996 through 1998 and is currently in a low-intensity phase. The LINJ study unit is slated to resume intensive sampling starting in 2006. The Delaware River Basin (DELR) study unit conducted intensive sampling from 1999 through 2001, and is currently in a low-intensity phase. The DELR is scheduled to resume intensive sampling in 2009.

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 semi-annually 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 stations published in this report (fig.23) are: Raritan River at Queens Bridge, at Bound Brook, NJ (01403300) and Bound Brook at Middlesex, NJ (01403900). The location of ground-water sites that are sampled as part of the low-intensity-phase of the LINJ-NAWQA study are shown in figure 64. Ground-water data collected for the LINJ-NAWQA study are published in this report in the section titled "Water Quality at Miscellaneous Ground-Water Sites."

Delaware River Basin (DELR) NAWQA fixed stations published in this report (fig.24) 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 Phoenix-ville, PA (01472157); Schuylkill River at Philadelphia, PA (01474500); and Raccoon Creek near Swedesboro, NJ (01477120). The location of ground-water sites that are sampled as part of the DELR NAWQA study are shown in figure 63. Ground-water data collected for the DELR study are published in this record in the section titled "Water Quality at Miscellaneous Ground-Water Sites."

Water-quality data were collected at 23 additional surface-water synoptic sites in the Appalachian Plateau, Valley and Ridge and Coastal Plain 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. Sampling was conducted from May 7 through May 16. The samplings were repeated from August 20 through August 29. The location of sites that were part

of the synoptic study are shown in figure 59. Synoptic survey data are published in this report in the section titled "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature data was also collected at 17 of the synoptic sites. These sites are printed in italics below and shown in figure 60. Equinunk Creek at Equinunk, PA (01427203); Callicoon Creek at Callicoon, NY (01427500); Calkins Creek 1200 feet above mouth at Milanville, PA (01427702): West Branch Lackawaxen River near Aldenville, PA (01428750); Middle Creek at Hawley, PA (01431250); Wallenpaupak Creek at East Sterling, PA (01431600); Halfway Brook at Barryville, NY (01432180); Shohola Creek at Shohola, PA (01432512); Mongaup River at Mongaup, NY (01433510); Neversink River near Claryville, NY (01435000); Vandermark Creek at mouth at Milford, PA (01438302); Sawkill Creek 2000 feet above mouth at Milford, PA (01438396); Shimers Brook at Millville Road near Montague, NJ (01438399); Raymondskill Creek below Swale Brook near Silver Spring, PA (01438712); Dingmans Creek below Fulmer Falls near Dingmans Ferry, PA (01438890); Toms Creek at Egypt Mills, PA (01439400); Little Bushkill Creek at Bushkill, PA (01439680); Flat Brook near Flatbrookville, NJ (01440000); Brodhead Creek near Mountainhome, PA (01440304); Marshalls Creek near Marshalls Creek, PA (01442550); Lehigh River near Gouldsboro, PA (01447120); Tobyhanna Creek at Warnertown, PA (01447530); and North Branch Rancocas Creek at Pemberton, NJ (01467000).

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 Surface-Water Sites". These sites are (fig. 61): 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 water-quality records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. 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 22-24, and 59-64. 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 downstreamorder 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. 21). 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 LOCA-TION paragraph of the station description.

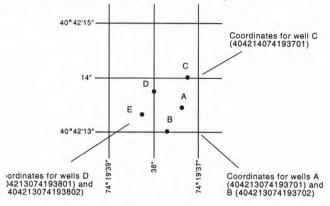


Figure 21.--System for numbering wells and miscellaneous sites (latitude and longitude)

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 22-24, and 59-61.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A <u>continuing-record station</u> 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 <u>partial-record station</u> 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 <u>miscellaneous</u> 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 from continuing-record and continuous-recording stations are listed in downstream order immediately after the "Introduction." Water-quality records from miscellaneous surface-water and groundwater sites are listed immediately after the continuing-

record stations.

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 continuous water-quality 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.

Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value did not exceed recalibration criteria were considered to be reliable and were not adjusted. Differences between sensor responses documented during cleaning or verification of sensor calibration that exceeded the criteria listed below (recalibration criteria) indicated the need for sensor recalibration and adjustment of the recorded data for the period between

inspections.

Water Temperature ±0.2 °C

Specific Conductance greater of ±5 uS/cm or 3%

pH ±0.3 units

Dissolved Oxygen greater of ±0.3 mg/L or 5%

Turbidity greater of ±2 NTU or 5%

Continuous-record water-quality data for periods for which the differences between the sensor's response and a known value exceeded the criteria listed below (deletion criteria) were considered to be unreliable and were not published.

Water Temperature ± 1.5 °C Specific Conductance ± 25 % ± 1.5 units

Dissolved Oxygen greater of ±1.5 mg/L or

25%

Turbidity ±25 %

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, E. coli, enterococcus bacteria, hexavalent chromium, total suspended solids in surface water, and kjeldahl nitrogen in bottom material are analyzed at the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Chlorophyll A samples are analyzed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Samples for nutrients are analyzed at the New Jersey Department of Health or at the U.S. Geological Survey National Water-Quality Laboratory (NWQL) in Denver, Colorado. Sediment samples--parameter codes, 80154, 80157, and 80164--are analyzed in the U.S. Geological Survey Laboratories in Iowa City, Iowa. Replicate samples for the ASMN were analyzed by the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment. All other samples are analyzed in the U.S. Geological Survey laboratory in Denver, 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 NAWQA study sites were analyzed for pesticides by use of NWQL schedule 2001. This table lists the pesticides on the schedule, the unit of measure (micrograms per liter, mg/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 (mg/L)
82660	2,6-Diethylaniline	0.0017
49260	Acetochlor	0.0041
46342	Alachlor	0.0024
34253	alpha-HCH	0.0046
39632	Atrazine	0.007
82673	Benfluralin	0.010
04028	Butylate	0.002
82680	Carbaryl	0.041
82674	Carbofuran	0.020
38933	Chlorpyrifos	0.005
04041	Cyanazine	0.018
82682	Dacthal	0.0030
04040	Deethylatrazine	0.006
39572	Diazinon	0.005
39381	Dieldrin	0.0048
82677	Disulfoton	0.021
82668	EPTC	0.0020
82663	Ethalfluralin	0.009
82672	Ethoprophos	0.005
04095	Fonofos	0.0027
39341	Lindane	0.0040
82666	Linuron	0.035
39532	Malathion	0.027
82686	Azinphos-methyl	0.05
82667	Parathion-methyl	0.007
39415	Metolachlor	0.013
82630	Metribuzin	0.006
82671	Molinate	0.0016
82684	Napropamide	0.007
34653	p,p¢-DDE	0.0025
39542	Parathion	0.0023
82669	Pebulate	0.0016
82683	Pendimethalin	0.010
82687	cis-Permethrin	0.006
82664	Phorate	0.000
04037	Prometon	0.011
82676	Propyzamide	0.0041
04024	Propachlor	0.0041
82679	Propanil	0.010
82685	Propargite	0.023
04035	Simazine	0.023
82670	Tebuthiuron	0.011
82665	Terbacil	0.016
82675	Terbufos	0.017
04022	Terbuthylazine	0.1
82681	Thiobencarb	0.0048
82678	Triallate	0.0048
82661	Trifluralin	0.0023
02001	militaili	0.009

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

Selected samples from NAWQA study sites were analyzed for volatile organic compounds (VOCs) by use of NWQL schedules 2020/2021. The NWQL created this schedule to provide a method for accurate determination of VOCs in water in the nanogram per liter range. 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 (mg/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:

- 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.
- 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.
- 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 quadro-

pole 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 (mg/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	0.035
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	0.029
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	0.030
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	0.021
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	0.024

PCode	Compound Name	LRL (mg/L)
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	0.25
34423 81595	Dichloromethane 2-Butanone	0.16 1.6
78133	4-Methyl-2-pentanone	0.37
85795	m- and p-Xylene	0.06
34696	Naphthalene	0.00
77275	2-Chlorotoluene	0.026
77135	o-Xylene	0.028
77356	4-Isopropyl-1-methylbenzene	0.030
49999	1,2,3,4-Tetramethylbenzene	0.23
77173	1,3-Dichloropropane	0.12
78109	3-Chloropropene	0.07
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

Analyses of pesticides in ground-water samples (schedule 2060)

Selected water samples from the DELR-NAWQA study sites were analyzed for pesticides by use of NQWL schedule 2060. This table lists the pesticides analyzed for by the schedule, the unit of measure (micrograms per liter, mg/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.--Determination of pesticides in filtered water by Graphitized Carbon-based Solid Phase Extraction (SPE) and analyzed by High Performance Liquid Chromatography/Mass Spectrometry (HPLC/MS).

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

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

PCODE.--The EPA/USGS parameter code.

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

MRL.--Minimum reporting level.

PCode	Common Name	MRL (mg/L)
39732	2,4-D	0.021
50470	2,4-D methyl ester	0.0086
38746	2,4-DB	0.016
50355	2-Hydroxyatrazine	.008
61692	3(4-Chlorophenyl)-1-methylurea	0.024
49308	3-Hydroxycarbofuran	0.0058
50295	3-Ketocarbofuran	1.5
49315	Acifluoren	0.0066
49312	Aldicarb	0.04
49313	Aldicarb sulfone	0.02
49314	Aldicarb sulfoxide	0.0082
39632	Atrazine	0.009
50299	Bendiocarb	0.025
50300	Benomyl	0.0038
61693	Bensulfuron-methyl	0.015
38711	Bentazon	0.011
04029	Bromacil	0.033
49311	Bromoxynil	0.017
5030	Caffeine	0.0096
49310	Carbaryl	0.028
49309	Carbofuran	0.0056
61188	Chloramben methyl ester	0.018
50306	Chlorimuron-ethyl	0.0096
49306	Chlorothalonil	0.035
49305	Clopyralid	0.013
04031	Cycloate	0.013
49304	Dacthal monoacid	0.011
04040	Deethylatrazine	0.028
04039	Deethyldeisopropylatrazine	0.01
04038	Deisopropylatrazine	0.044
38442	Dicamba	0.012
49302	Dichloroprop	0.013
49301	Dinoseb	0.012
04033	Diphenamid	0.026
49300	Diuron	0.015
49297	Fenuron	0.031
61694	Flumetsulam	0.011
38811	Fluometuron	0.031

PCode	Common Name	MRL (mg/L)
50356	Imazaquin	0.016
50407	Imazethapyr	0.017
61695	Imidacloprid	0.0068
38478	Linuron	0.014
38482	MCPA	0.016
38487	MCPB	0.015
50359	Metalaxyl	0.02
38501	Methiocarb	0.008
49296	Methomyl	0.0044
61696	Methomyl oxime	0.011
61697	Metsulfuron-methyl	0.025
49294	Neburon	0.012
50364	Nicosulfuron	0.013
49293	Norflurazon	0.016
49292	Oryzalin	0.017
38866	Oxamyl	0.012
50410	Oxamyl oxime	0.013
49291	Picloram	0.019
49236	Propham	0.0096
50471	Propiconazole	0.021
38538	Propoxur	0.008
38548	Siduron	0.016
50337	Sulfometuron-methyl	0.0088
82670	Tebuthiuron	.0062
04032	Terbacil	0.0098
61159	Tribenuron-methyl	0.0088
49235	Triclopyr	0.022

Analyses of pesticide metabolites in ground-water samples (schedule LCAA)

Ground-water samples from Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA) study sites were analyzed for pesticide metabolites by use of NWQL schedule LCAA (Hostetler and Thurman, 1999).

SCHEDULE DESCRIPTION.--Determination of pesticide metabolites in filtered water analyzed by High Performance Liquid Chromatograph-Diode Array Detection and High Performance Liquid Chromatograph/Mass Spectrometry.

SAMPLE REQUIREMENTS.--500 milliliter (ml) of water filtered through a 0.7-micron glass-fiber depth filter, chilled at 4 °C (packed on ice).

CONTAINER REQUIREMENTS.--Four 125 baked amber glass bottle (GCC) from Ocala Quality Water Service Unit.

PCODE.--The USGS/EPA parameter code.

MRL.--Minimum reporting level.

PCode	Pesticide Metabolite (OA, Oxanilic Acid; ESA, Ethanesulfonic Acid)	MRL (ug/ L)	Metabolite parent compound (PCode)
61030	Acetochlor OA	.05	Acetochlor (49260)
61029	Acetochlor ESA	.05	Acetochlor (49260)

PCode	Pesticide Metabolite (OA, Oxanilic Acid; ESA, Ethanesulfonic Acid)	MRL (ug/ L)	Metabolite parent compound (PCode)
61031	Alachlor OA	.05	Alachlor (46342)
50009	Alachlor ESA	.05	Alachlor (46342)
62482	Dimethenamid OA	.05	Dimethenamid (61588)
61951	Dimethenamid ESA	.05	Dimethenamid (61588)
62483	Flufenacet OA	.05	Flufenacet (62481)
61952	Flufenacet ESA	.05	Flufenacet (62481)
61044	Metolachlor OA	.05	Metolachlor (39415)
61043	Metolachlor ESA	.05	Metolachlor (39415)

Polyaromatic hydrocarbons in stream bottom material

Stream bed sediments collected at stations in the Ambient Stream Monitoring Network 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	

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/

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 ALKA-LINITY, 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 in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. 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 NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

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).
- Biological organism count less than 0.5 percent (organism may be observed rather than counted).
- 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 sec-

tion. 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 containment vessel 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 (mg/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 mg/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.

Delaware River Basin National Water Quality Assessment

Development of Database and Models to Support Source Water Assessment Program

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

Distribution of Radium and Related Radionuclides in Coastal-Plain Aquifers

Effects of Land Use, Septic Systems, and Sewering on the Distribution of Nitrate in Shallow Ground Water

EPA Technical Assistance Program

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

Flood Characteristics of New Jersey Streams

Flow Characteristics and Basis for Development of Ecological Goals for 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 Southern Ocean County

Head of Tide Sampling Program for the New Jersey Harbour Toxic Contaminant Assessment Reduction Program

High-Flow Water Quality Management Objectives

Hydrology of Surficial Aquifer Systems

Hydrogeologic Support to McGuire Air Force Base, 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 Ground-Water/Surface-Water Interaction in the Northern Passaic River Valley, New Jersey

Investigation of hydrogeology and Volatile Organic Compound Contamination in Fair Lawn, New Jersey

Investigation of Potential Threats to Water Supply from the Potomac-Raritan-Magothy Aquifer in Salem and Western Gloucester Counties, New Jersey

Lower Delaware Non-Point Source

Low Flow Characteristics of New Jersey Streams

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

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

New Jersey Drought Monitoring System

Long Island-New Jersey 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

CURRENT WATER RESOURCES PROJECTS IN NEW JERSEY--Continued

- Refinement of a Data Model for Watershed Water Transfer Analysis
- Small Watershed Flood Data Collection
- Somerset County Flood-Information System
- 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)
- Water-Quality Characteristics of Upper-Delaware Watershed

WATER-RELATED REPORTS FOR NEW JERSEY COMPLETED BY THE GEOLOGICAL SURVEY IN RECENT YEARS

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- Baehr, A.L., and Zapecza, O.S., 1998, Methyl tert-butyl ether (MTBE) and other volatile organic compounds in lakes in Byram Township, Sussex County, New Jersey, summer 1998: U.S. Geological Survey Water-Resources Investigations Report 98-4264, unpaginated.
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ACCESS TO USGS WATER DATA

The U.S. Geological Survey provides near realtime 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 availability 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

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical

list apply to every State. 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 a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")
- Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes ATP 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.
- 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 that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.
- Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 to September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. 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.)
- **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.

Artificial substrate is a device that 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. (See also "Substrate")

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/m³), and periphyton and benthic organisms in grams per square meter (g/m²). (See also "Biomass")

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peaks per year will be published.

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 ft) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler may also contain a component of the suspended load.

Bedload discharge (tons per day) is rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload" and "Sediment")

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Benthic organisms are the group of organisms 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.

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

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Bluegreen algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

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 cellsize variation among the algal species. Cell volume (mm³) 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 pr³ cone 1/3 pr³h cylinder pr³h.

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

From cell volume, total algal biomass expressed as biovolume (mm³/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.

Cfs-day (See "Cubic foot per second-day")

- 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. [See also "Biochemical oxygen demand (BOD)"]
- Clostridium perfringens (C. perfringens) is a sporeforming bacterium that is common in the feces of human and other warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")
- **Coliphages** are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of waters and of the survival and transport of viruses in the environment.
- 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. (See also "Aquifer")
- **Contents** is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.
- Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.
- **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 gage.

- 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, ft³/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 or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.
- Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/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, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily-mean discharges reported in the daily-value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.
- Cubic foot per second per square mile [CFSM, (ft³/ s)/mi²] 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. (See also "Annual runoff")
- Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24hour day. (See also "Daily mean suspended-sediment concentration," "Sediment," and "Suspended-sediment concentration")
- Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.
- Data Collection Platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.
- Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

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. (See also "Phytoplankton")

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

Discharge, or flow, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents such as suspended sediment, bedload, and dissolved or suspended chemical constituents, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

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 and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water 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 concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It 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 the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L CaCO₃) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon Index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

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

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

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas 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 contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 C until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

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. (See also "Wet weight")

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 Con mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive, the index usually decreases with pollution.

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. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the laboratory reporting level (LRL) but greater than the long-term method detection level (LT-MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the LRL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the LRL preceded by a less than sign (<).

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. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediments.

Fecal coliform bacteria 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 Cplus or minus 0.2 Con M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestine of warm-blooded animals and are ubiquitous in the environment. They are characterized as grampositive, 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. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

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 a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any National geodetic datum. However, if the elevation of the gage datum relative to the National datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the National datum by adding the elevation of the gage datum to the gage reading.

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

Gage values are values that are recorded, transmitted and/or computed from a gaging station. Gage values

typically are collected at 5-, 15-, or 30-minute intervals.

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.

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. (See also "Phytoplankton")

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

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

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution which uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum \frac{(n)(a)}{N}$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

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 humaninduced 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 index stations referred to in this report are four continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

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 USGS. Each hydrologic unit is identified by an 8-digit number.

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. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

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 nondetection 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-MDLs and to establish LRLs. These values are reevaluated 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 NDVa term that is no longer used.)

Land-surface datum (Isd) 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

$$I = I_o e^{-\lambda L},$$

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

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

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.

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.

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

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.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

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

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the

National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

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-nymphadult.

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. 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, μ g/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, μ g/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. One microgram per liter is equivalent to 1 part per billion.

- Microsiemens per centimeter (US/CM, mS/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, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.
- 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 gaspositive 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 fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, 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 (See "North American Vertical Datum of 1988")

- Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate.")
- **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.
- North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and U.S. first-order terrestrial leveling networks.
- 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), particulate organic carbon (POC), or total organic carbon (TOC).
- 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. (See also "Ash mass," "Biomass," and "Dry mass")
- 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 (m²), 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.
- 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 USGS 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, as 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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation to the true peak, which may occur between the

recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

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, mass, or volume.

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, 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 hydrogenion 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.

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. (See also "Plankton")

Picocurie (PC, pCi) is one trillionth (1 x 10⁻¹²) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that

yields 3.7 x 10¹⁰ 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).

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

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

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

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m²/time)] for periphyton and macrophytes or per volume [mg C/(m³/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. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/ (m²/time)] for periphyton and macrophytes or per volume [mg O/(m³/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. (See also "Primary productivity")

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 bed (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. (See also "Bed material")

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 (7Q₁₀) 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 7Q₁₀ 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 (See "Recurrence interval")

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council, and typically used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in a given time period. Runoff data may be presented as volumes in acrefeet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums, (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums. See conversion of units page (inside back cover) for identification of the datum used in this report.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

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. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water 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.

Substrate Embeddedness Class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

0 < no gravel or larger substrate</p>

1 > 75%

2 51-75% 4 5-25%

3 26-50% 5 < 5%

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on

USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which 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 operationally defined as 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 water-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 directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocityweighted 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 analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/day) is the rate of sediment transport, as measured by dry mass or volume, 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 (ft³/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. 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. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-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 directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

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.

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

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

Kingdom: Animal

Phylum: Arthropoda Class: Insecta

Order: Ephemeroptera Family: Ephemeridae Genus: *Hexagenia*

Species: Hexagenia limbata

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder' is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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 resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (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 a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required

to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

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 Cplus or minus 1.0 Con M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

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 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 organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume.")

Total recoverable is the amount of a given constituent in a whole-water sample after a 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 particu-

late 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 for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspendedsediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

Total sediment load or total load is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-Sediment Load," and "Total load")

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore - diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of tur-

bidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) 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 VOCs are human-made 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 table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

Water year in USGS reports dealing with surfacewater 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, 2001, is called the "2001 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.
- Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")
- Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")
- **WSP** is used as an acronym for "Water-Supply Paper" in reference to previously published reports.
- 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. (See also "Plankton")

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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 publica-

tions, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

- 1-D1. Water temperature—influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS-TWRI book 1, chap. D1. 1975. 65 p.
- 1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W.W. Wood: USGS-TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

- 2-D1. Application of surface geophysics to ground-water investigations, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS-TWRI book 2, chap. D1. 1974. 116 p.
- 2-D2. Application of seismic-refraction techniques to hydrologic studies, by F.P. Haeni: USGS-TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

- 2-E1. Application of borehole geophysics to waterresources investigations, by W.S. Keys and L.M. MacCary: USGS-TWRI book 2, chap. E1. 1971. 126 p.
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Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

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- 3-A2. Measurement of peak discharge by the slopearea method, by Tate Dalrymple and M.A. Benson: USGS-TWRI book 3, chap. A2. 1967. 12 p.

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- 3-A6. General procedure for gaging streams, by R.W. Carter and Jacob Davidian: USGS-TWRI book 3, chap. A6. 1968. 13 p.
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- 3-A16. Measurement of discharge using tracers, by F.A. Kilpatrick and E.D. Cobb: USGS-TWRI book 3, chap. A16. 1985. 52 p.
- 3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS-TWRI book 3, chap. A17. 1985. 38 p.
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- R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS-TWRI book 3, chap. A18. 1989. 52 p.
- 3-A19. Levels at streamflow gaging stations, by E.J. Kennedy: USGS-TWRI book 3, chap. A19. 1990. 31 p.
- 3-A20. Simulation of soluble waste transport and buildup in surface waters using tracers, by F.A. Kilpatrick: USGS-TWRI book 3, chap. A20. 1993. 38 p.
- 3-A21 Stream-gaging cableways, by C. Russell Wagner: USGS-TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

- 3-B1. Aquifer-test design, observation, and data analysis, by R.W. Stallman: USGS-TWRI book 3, chap. B1. 1971. 26 p.
- 3-B2. Introduction to ground-water hydraulics, a programed text for self-instruction, by G.D. Bennett: USGS-TWRI book 3, chap. B2. 1976. 172 p.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J.E. Reed: USGS-TWRI book 3, chap. B3. 1980. 106 p.
- 3-B4. Regression modeling of ground-water flow, by R.L. Cooley and R.L. Naff: USGS-TWRI book 3, chap. B4. 1990. 232 p.
- 3-B4. Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems, by R.L. Cooley: USGS-TWRI book 3, chap. B4. 1993. 8 p.
- 3-B5. Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS—TWRI book 3, chap. B5. 1987. 15 p.
- 3-B6. The principle of superposition and its application in ground-water hydraulics, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS—TWRI book 3, chap. B6. 1987. 28 p.
- 3-B7. Analytical solutions for one-, two-, and threedimensional solute transport in ground-water systems with uniform flow, by E.J. Wexler: USGS-TWRI book 3, chap. B7. 1992. 190 p.
- 3-B8. System and boundary conceptualization in ground-water flow simulation, by T.E. Reilly: USGS-TWRI book 3, chap. B8. 2001. 29 p.

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- 3-C1. Fluvial sediment concepts, by H.P. Guy: USGS-TWRI book 3, chap. C1. 1970. 55 p.
- 3-C2. Field methods for measurement of fluvial sediment, by T.K. Edwards and G.D. Glysson: USGS-TWRI book 3, chap. C2. 1999. 89 p.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS-TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation Section A. Statistical Analysis

- 4-A1. Some statistical tools in hydrology, by H.C. Riggs: USGS-TWRI book 4, chap. A1. 1968. 39 p.
- 4-A2. Frequency curves, by H.C. Riggs: USGS—TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

- 4-B1. Low-flow investigations, by H.C. Riggs: USGS—TWRI book 4, chap. B1. 1972. 18 p.
- 4-B2. Storage analyses for water supply, by H.C. Riggs and C.H. Hardison: USGS-TWRI book 4, chap. B2. 1973. 20 p.
- 4-B3. Regional analyses of streamflow characteristics, by H.C. Riggs: USGS-TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. Computation of rate and volume of stream depletion by wells, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M.J. Fishman and L.C. Friedman, editors: USGS-TWRI book 5, chap. A1. 1989. 545 p.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P.R. Barnett and E.C. Mallory, Jr.: USGS-TWRI book 5, chap. A2. 1971. 31 p.
- 5-A3. Methods for the determination of organic substances in water and fluvial sediments, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS—TWRI book 5, chap. A3. 1987. 80 p.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by

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- 5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS-TWRI book 5, chap. A5. 1977. 95 p.
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5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS-TWRI book 5, chap. C1. 1969. 58 p.

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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 p.
- 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 p.
- 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 p.
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- 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 p.
- 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 p.

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 p.
- 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 p.
- 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 p.

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 p.
- 8-A2. Installation and service manual for U.S.

 Geological Survey manometers, by J.D. Craig:
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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 p.

Book 9. Handbooks for Water-Resources Investigations

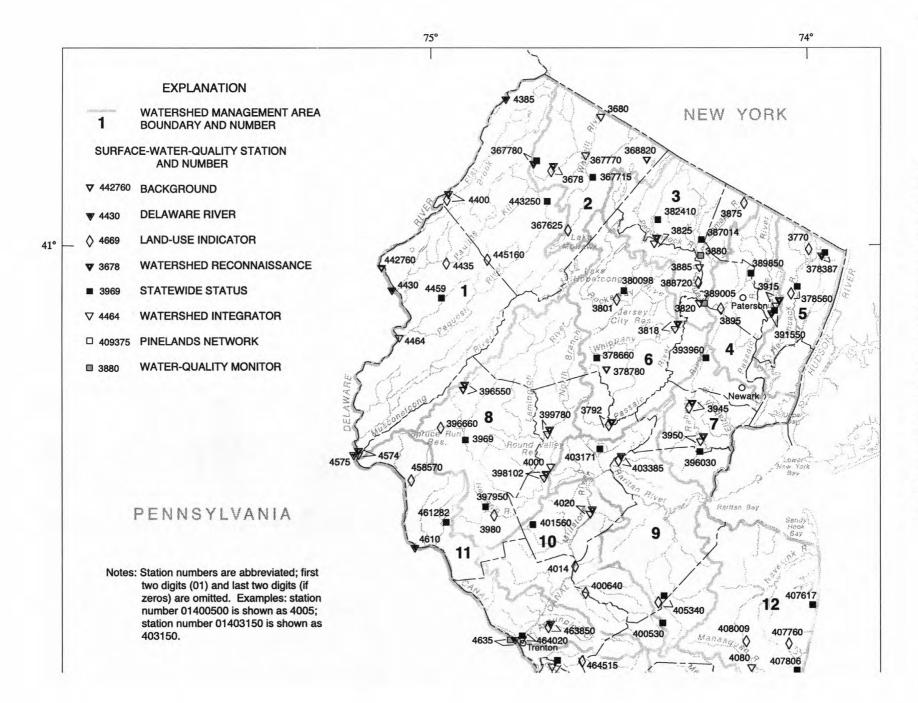
Section A. National Field Manual for the Collection of Water-Quality Data

- 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.
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- 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.
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- 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 p.
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01398102 South Branch Raritan River at South Branch
Watershed Integrator Station
Ambient Stream Monitoring Network
(File photograph, U.S. Geological Survey, West Trenton, New Jersey



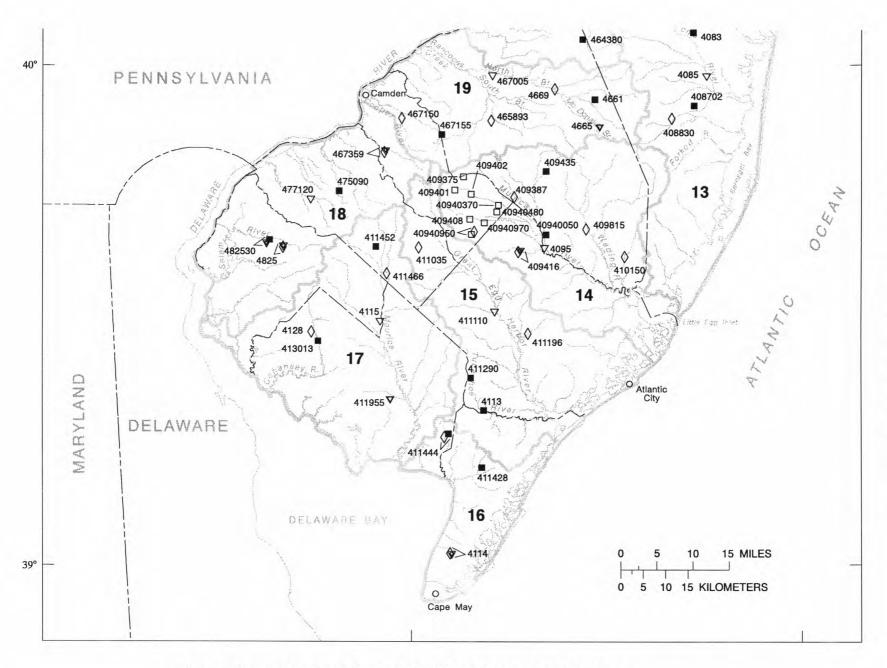


Figure 22. Locations and types of surface-water-quality stations.

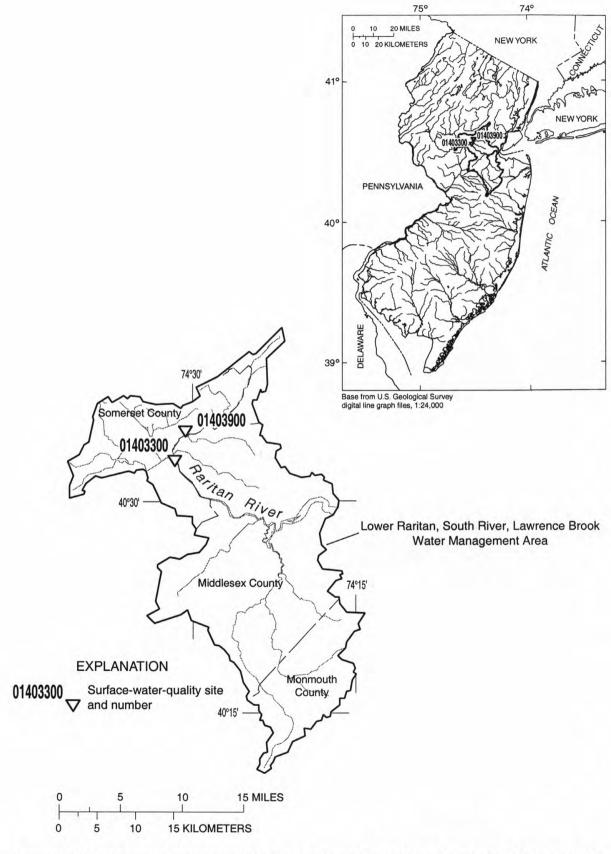


Figure 23. Location of stations in the Long Island-New Jersey National Water-Quality Assessment Program, surface-water low-intensity-phase network, water year 2001.

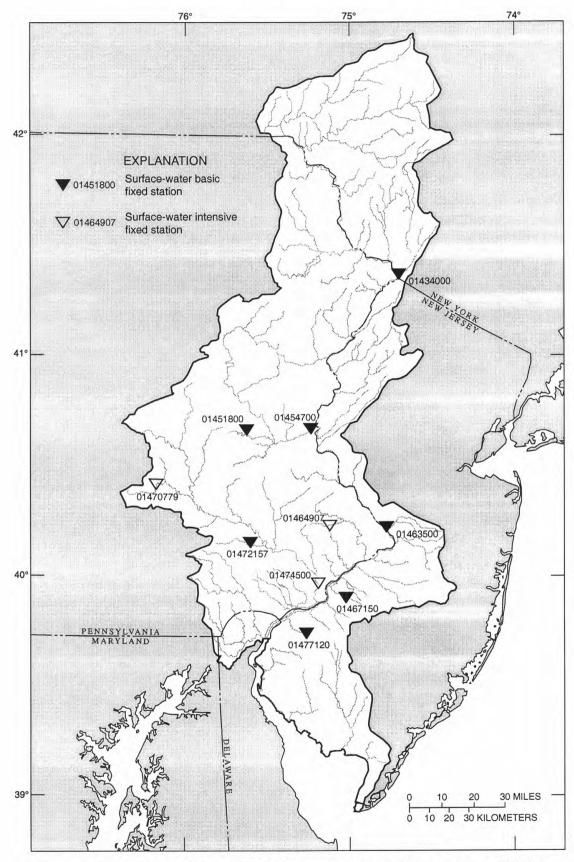


Figure 24. Location of the stations in the Delaware River National Water-Quality Assessment Program surface-water fixed station network, water year 2001.



Figure 25. Counties in New Jersey.

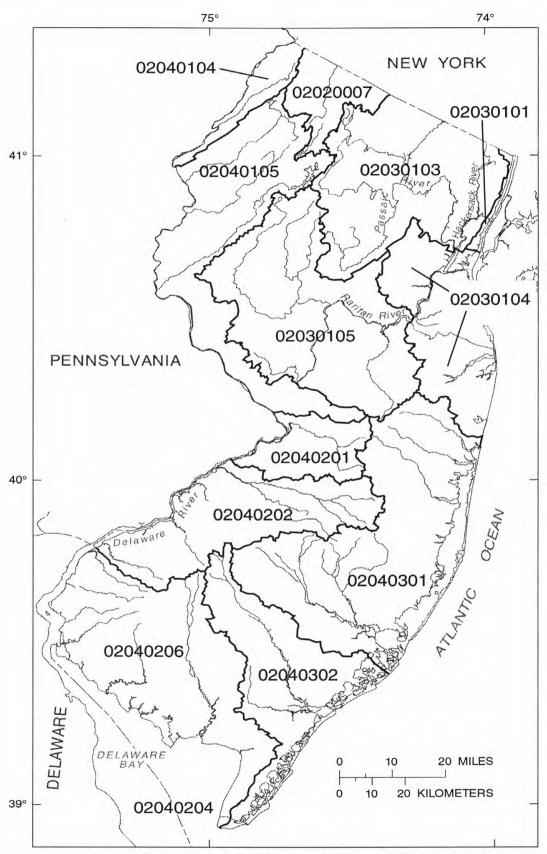


Figure 26. Cataloging units and codes in New Jersey. (Modified from Seaber and others, 1987)

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-OUALITY D	ATA. WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001	

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
16 FEB	1200	6.5		.066	.049	742	99	11.4	8.3	642	7.0	8.0	180
14 MAY	1330	15		.058	.043	744	101	13.2	8.3	770	<5.0	3.0	170
17	1210	3.0	3.7	.049	.036	745	93	9.5	8.0	772	14.5	13.5	230
08	1220	1.1	1.7	.101	.071	743	93	8.1	7.8	743	32.5	21.0	240
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
	(00313)	(00925)	(00935)	(00930)	(90410)	(00940)	(00350)	(00955)	(00945)	(70300)	(70301)	(00000)	(00023)
NOV 16 FEB	43.9	17.8	1.57	53.9	144	107	E.1	5.5	17.2	345	335	<.030	.26
14 MAY	41.0	16.1	1.41	69.7	120	134	<.2	4.3	19.3	365	360	.060	.23
17	54.0	21.9	1.41	64.2	164	132	E.1	6.7	17.8	408	402	.070	.29
08	55.2	24.9	2.11	54.4	181	116	E.1	10.9	16.1	417	393	<.030	.20
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
16 FEB	<.03	.38	.436	.005	. 69	.81	.100	.015	.036	.9	<.1	2.9	.9
14 MAY	.10	.29	.462	.005	. 69	.75	.080	.009	.020	.6	<.1	2.7	.6
17 AUG	.08	.33	1.07	.057	1.4	1.4	.132	.022	.047	.9	<.1	2.3	.9
08	<.03	. 24	.910	.008	1.1	1.2	.060	.022	.035	.4	<.1	3.2	.4

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	2.9		22	1
FEB				
14	<1.0		18	<1
MAY				
17	E1.3	3.00	36	1
AUG				
08	<1.0	4.90	29	5

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

69

HUDSON RIVER BASIN

01367625 WALLKILL RIVER AT SPARTA, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1105	<20	<100	90	01	1105	<20	<100	20
11	1103	490	100	280					
18	1110	50	<100	30					
25	1100	20	<100	20					

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

01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ

LOCATION.--Lat 41°08'00", long 74°34'44", Sussex County, Hydrologic Unit 02020007, at bridge on on Scott Road, 1.2 mi north of Franklin, 1.7 mi south of Hamburg, and 3.4 mi downstream of Franklin Pond.

DRAINAGE AREA .-- 40.6 mi2.

PERIOD OF RECORD. -- Water year 1999, November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFL/TRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
15 FEB	0800	77	.151	.116	742		9.6	8.2			7.0	190	45.5
08	0830		.087	.066	758		12.0	7.7			.00	150	37.1
10	0800	3.5	.107	.081	750	77	7.4	8.3	598	11.0	16.5	200	46.0
AUG 07	0800	2.9	.112	.086	750	75	6.2	8.0	669	26.0	24.0	250	53.4
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
15 FEB	19.4	2.20	33.3	171	63.6	E.1	8.5	14.4	298	290	<.030	.32	<.03
08 MAY	14.1	1.26	56.2	117	108	E.1	6.9	15.1	324	311	.070	.21	.04
10	21.3	1.33	40.6	173	79.1	E.1	5.4	14.2	349	313	<.030	.29	<.03
07	27.2	1.73	40.0	209	78.9	E.1	8.7	14.8	341	352	.050	.31	.04
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
15	.39	.243	<.003	.56	.63	.036	.007	.018	.5	<.1	4.7	.5	E1.5
08	.29	.472	<.003	.68	.76	.054	.008	.015	.4	<.1	2.8	.4	3.4
10	.33	.250	.004	.54	.58	.072	.009	.025	.6	м	3.7	E.6	E1.8
07	.38	.557	.004	.87	.94	.074	.011	.023	<.1	<.1	3.3	<.1	E1.2

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
15		E12	4
FEB			
08		E12	1
MAY			
10	3.20	20	1
AUG			
07	9.10	32	5

E Estimated value.

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

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01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
AUG 07	0800	4	56.7	<.06	27	.06	<1	1.1	220	<1	130	<.01	1
					ATE	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	7	<.4	<.05	25					
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 UNFLITRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITRD 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)
FEB 08	0830	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	FEB		METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)		
	0	8	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITED 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)
MAY 10	0800	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005

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

01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY										1.2	0.0220	- 0.041.60	
10	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.005
			ב כ	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITED 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	.0	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1035	330	600	250	01	1035	110	100	90
11	1030	1300	800	2500					
18	1035	130	200	190					
25	1025	310	300	310					

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

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TYO.	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS
		SECOND (00061)	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)
NOV													
16 FEB	1000	149		.138	.105	750	85	10.4	7.9	579	7.5	6.0	210
MAY	0940	177		.086	.065	754	93	13.0	7.4	538	6.0	1.0	160
17	0940	34	6.5	.097	.074	756	76	7.8	7.8	669	14.0	14.0	240
14	0930	12	5.4	.109	.084	751	86	7.3	8.1	754	25.0	22.5	250
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	SOLVED (MG/L AS CL) (00940)	SOLVED (MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	SOLVED (MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
	(00313)	(00323)	(00333)	(00330)	(30410)	(00340)	(00330)	(00955)	(00343)	(70300)	(70301)	(00000)	(00023)
NOV	14.4	44.4	2.42	02.15		122.3	3.5	2.2	200				
16 FEB	48.2	21.1	2.72	35.0	183	65.9	E.1	9.5	16.6	326	315	<.030	.35
MAY	38.8	16.2	1.52	40.6	133	75.5	<.2	7.4	16.1	297	280	.040	.22
17	54.9	25.0	2.15	42.8	198	82.3	E.1	6.6	17.2	367	359	.060	.39
14	55.2	28.1	3.92	46.8	213	93.4	E.1	10.5	19.5	397	402	.040	.39
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		,,	,,,,,,,,,,	,,,,,,,,	, = 55.57	,00000/	,00000/	,,,,,,,,	,00000/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
16	<.03	.35	1.42	.003	1.8	1.8	.063	.014	.024	.5	<.1	4.3	.4
FEB 14 MAY	.04	.29	.865		1.1	1.2	.112	.007	.018	.4	<.1	2.8	.4
17	.05	.43	2.15	.017	2.5	2.6	.112	.027	.057	.9	<.1	3.3	.9
14	.13	.49	3.74	.012	4.1	4.2	.067	.069	.087	.6	<.1	3.3	.6

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	<1.0		25	7
FEB				
14	<1.0		18	<1
MAY				
17	E1.5	3.90	32	10
AUG				
14	<1.0	2.10	50	4

E Estimated value.

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

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HUDSON RIVER BASIN

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1010	330	400	380	01	1040	140	300	130
11	1030	3500	400	550					
18	1015	130	400	60					
25	1030	310	100	140					

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ

LOCATION.--Lat 41°09'59", long 74°43'39", Sussex County, Hydrologic Unit 02020007, at bridge at intersection of County Route 629 and Gunn Road, 0.7 mi north of intersection of County Routes 629 and 519, and 1.7 mi northeast of Culvers Lake.

DRAINAGE AREA. -- 1.99 mi2.

PERIOD OF RECORD .-- Water Year 1999, November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)
NOV													
16 FEB	1115		.129	.100	746	100	12.5	7.7	294		5.0	86	27.6
14	1115		.061	.047	749	97	13.6	7.7	310	4.0	1.0	77	24.3
MAY								2.2					
10	1100		.142	.108	748	94	9.2	7.9	325	26.0	15.5	95	30.7
17	0800	12	.078	.057	747	87	9.4	7.8	419		11.0	130	41.2
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
- Charles					25.55		A THE STATE OF						
NOV 16	4.10	2.52	18.4	54	43.2			17.6	171	155	<.030	.23	<.03
FEB	4.10	2.52	10.4	54	43.2	E.1	8.4	17.6	1/1	155	<.030	.23	4.03
14 MAY	3.91	1.16	24.9	37	53.8	<.2	8.0	16.7	177	158	.030	.14	<.03
10 SEP	4.49	1.27	22.9	62	51.2	E.1	4.7	12.1	201	165	<.030	.30	<.03
17	6.00	2.05	26.3	73	67.6	<.2	10.2	17.0	218	216	<.030	.20	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
16		101	<.003	.41	.47	.060	.013	.022	.3	<.1	3.9	.3	2.1
FEB	.28	.184	1.003										
												4.7	
14	.19	.704	.003	.85	.89	.051	.007	.014	.3	<.1	2.0	.3	E1.9
							.007	.014	.3	<.1 M	2.0	.3 E2.4	E1.9

E Estimated value.

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

M Presence of material verified but not quantified.

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

				ו כנ	ATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)					
				NO	7 16		E8	2					
				FEI			E10	<1					
				MA		67.7	E9	6					
				SEI	?								
					17	1.00	E9	10					
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)	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)
SEP 17	0800	<2	11.3	<.06	9	E.03	<1	1.6	520	<1	187	<.01	<1
				DA	ATE	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)					
				SEI 1	.7	<.4	<.05	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITED 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)
FEB 14	1115	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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, UNFLIRD 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)
FEB	2680	8-20											
14	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITRD 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 1	4	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

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

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01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FL/TRD 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)
MAY 23	1000	E.003	<.002	<.005	.013	<.010	<.041	<.020	<.005	<.018	<.003	E.005	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 23	<.005	<.002	<.004	<.035	<.027	<.050	.032	<.006	.026	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	3	<.011	<.016	<.034	.009	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1140	1100	300	450	01	1125	790	200	660
11	1059	2200	<100	2800					
18	1120	330	<100	100					
25	1120	940	800	1090					

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

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

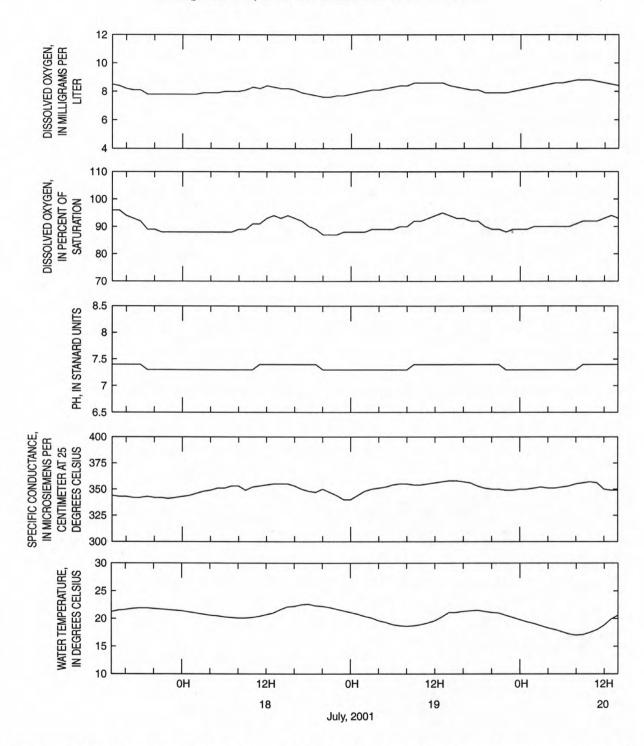


Figure 27. Reconnaissance Study -- Physical characteristics and concentrations of constituents measured at 01367780 Papakating Creek near Wykertown.

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 mi2.

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS
		SECOND (00061)	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)
NOV													
16 FEB	1230	13	77	.182	.138	747	101	12.3	7.8	334	7.5	6.0	110
14 MAY	1140	30		.082	.062	752	98	13.8	7.2	325	5.0	1.0	90
17	1210	5.5	3.4	.093	.070	753	95	9.9	8.1	420	20.0	13.0	150
AUG	1210	3.3	3.4	.033	.070	755	33	3.3	0.1	420	20.0	13.0	130
14	1220	2.6	4.5	.094	.072	750	99	8.5	8.1	458	28.0	22.0	170
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
16 FEB	34.8	5.04	2.53	18.9	78	41.3	E.1	10.3	20.2	197	182	<.030	.37
MAY	28.8	4.43	1.57	22.5	52	49.7	<.2	8.2	21.3	189	172	<.030	.17
17	50.8	6.54	1.31	20.8	115	39.8	<.2	7.9	22.4	240	226	.030	.27
14	56.9	7.56	1.98	19.3	136	42.0	<.2	10.6	26.3	249	254	<.030	.26
		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV	12.163												
16 FEB	<.03	.33	.464	<.003	.83	.80	.051	.014	.020	.3	<.1	5.2	.3
14	<.03	.21	.897	<.003	1.1	1.1	.033	.008	.018	.3	<.1	2.5	.3
MAY							.000	.000					
AUG	.05	.31	1.76	.014	2.0	2.1	.068	.014	.025	.5	<.1	2.5	.5
14	.06	.32	1.75	.006	2.0	2.1	<.022	.022	.034	.3	<.1	2.7	.3

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	<1.0		E12	5
FEB				
14	<1.0		E9	<1
MAY				
17	<1.0	2.20	E13	4
AUG				
14	<1.0	2.30	18	<1

E Estimated value.

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

80

HUDSON RIVER BASIN

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ--Continued

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

COLI- ENTERO- COLI- FORM, E COLI, FORM, E CO	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL AUG	
05 1025 790 100 400 01 1055 790 200	110
11 1045 2400 1800 830	
18 1035 5400 1100 280	
25 1115 1300 300 270	

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

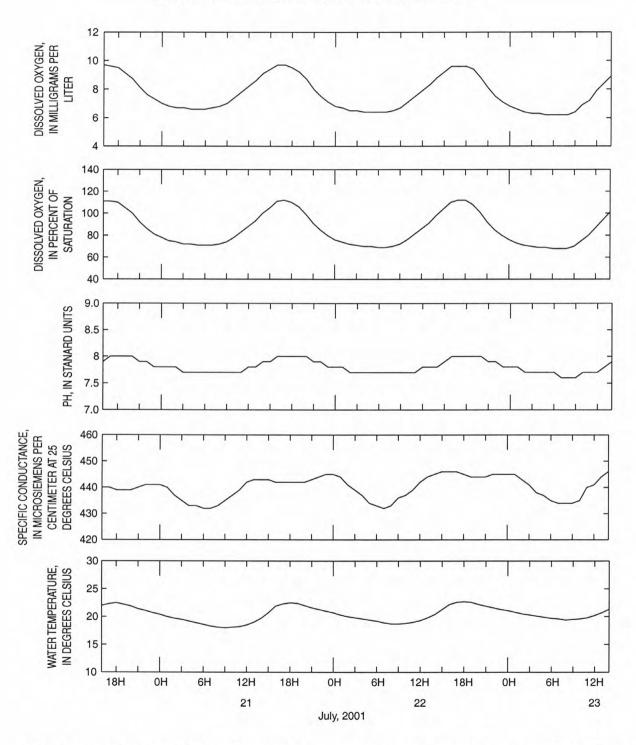


Figure 28. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01367800 Papakating Creek at Pellettown, water year 2001.

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION.--Lat 41°15'36", long 74°32'58", Sussex County, New Jersey, Hydrologic Unit 02020007, at bridge on Quarryville-Milton Road, 2.0 mi south of New York-New Jersey State line, and 3.0 mi south of Unionville.

DRAINAGE AREA. -- 140 mi2.

PERIOD OF RECORD. --Water years 1963-78, 1991 to September 1997, and November 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-OUALITY	DAMA	TATA (TITELE)	32777 3 73	COMODED	2000	mo	CEDMENDED	2001
MATER-COURTILI	DATA.	WAILK	ILAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS
		SECOND (00061)	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)
NOV													
21 FEB	1300	60		.168	.129	747	89	11.7	7.7	490		3.0	170
MAY	1040	280		.104	.079	754	85	12.0	7.7	437	8.0	1.0	120
AUG	1250	65	13	.133	.100	753	70	7.0	7.9	558	17.5	15.0	200
27	1210	16	7.1	.139	.103	747	156	12.6	7.8	647	26.5	25.0	220
	CALCTIM	MAGNE- SIUM,	POTAS-	CODTIN	ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM- MONIA +
	DIS- SOLVED	DIS- SOLVED	SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	LAB	RIDE, DIS-	DIS-	DIS- SOLVED	SULFATE DIS- SOLVED	AT 180 DEG. C DIS-	CONSTI- TUENTS, DIS-	AMMONIA DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
-	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
21 FEB	42.2	14.9	2.28	28.2	138	54.3	E.1	8.3	22.4	271	260	.050	.35
MAY	32.4	10.1	1.67	33.8	87	63.5	<.2	7.2	18.7	241	224	.040	.26
17	50.0	17.7	1.86	34.5	158	65.5	E.1	6.6	18.5	294	296	.080	.42
27	51.5	21.7	3.41	43.4	180	81.5	E.1	6.0	20.8	364	345	<.030	.43
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	DIS- SOLVED	GEN DIS- SOLVED	GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 21	.05	.47	.947	<.003	1.3	1.4	.044	.014	.040	.8	<.1	4.5	.8
FEB 14 MAY	.05	.28	.971	.039	1.2	1.2	.055	.015	.031	.6	<.1	3.1	.6
17 AUG	.08	.47	1.41	.024	1.8	1.9	.130	.027	.065	.9	<.1	3.8	.9
27	.07	.54	1.98	.016	2.4	2.5	.184	.032	.057	1.2	<.1	4.5	1.2

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	E1.7		21	9
FEB				
14	<1.0		E10	2
MAY				
17	E1.2	3.30	27	8
AUG				
27	E1.4	28.9	38	1

E Estimated value.

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

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	0945	110	<100	210	01	1015	50	100	30
11	1010	330	100	150					
18	0955	130	200	30					
25	1015	110	<100	40					

< Actual value is known to be less 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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
16 FEB	0930	4.1		.132	.098	760	92	11.7	7.4	256	3.0	5.0	66
14	1100	11		.132	.098	735	96	13.0	7.6	216	5.5	1.5	56
24 AUG	0930	7.3	2.8	.125	.093	728	102	9.7	7.5	238	15.5	15.5	65
08	0950	E.03	1.6	152	.114	732	44	3.6	7.4	285	29.5	23.0	80
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV	44.2		-	44.4						2.12			
16 FEB	16.9	5.79	.98	20.6	57	39.5	E.1	2.8	7.5	143	128	<.030	.29
14 MAY	14.4	4.82	.92	16.9	43	30.1	<.2	3.9	8.8	122	106	<.030	.21
24 AUG	16.9	5.51	.97	21.8	47	38.8	E.1	1.2	9.4	136	123	.030	.33
08	20.6	7.02	.82	23.6	64	44.1	<.2	7.0	5.8	179	148	.050	.38
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L	NITRO- GEN, NITRITE DIS- SOLVED (MG/L	NITRO- GEN DIS- SOLVED (MG/L	NITRO- GEN, TOTAL (MG/L	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L	PHOS- PHORUS DIS- SOLVED (MG/L	PHOS- PHORUS TOTAL (MG/L	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L	CARBON, ORGANIC DIS- SOLVED (MG/L	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)
DATE	TOTAL	TOTAL		SOLVED (MG/L AS N)	SOLVED SOLVED (MG/L AS N) AS N)	SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L AS N) AS N) AS N)	SOLVED SOLVED SOLVED TOTAL (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N)	SOLVED SOLVED SOLVED TOTAL SUSP (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS N)	SOLVED SOLVED SOLVED TOTAL SUSP SOLVED (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS N) AS P)	SOLVED SOLVED SOLVED TOTAL SUSP SOLVED TOTAL (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS P) AS P)	SOLVED SOLVED SOLVED TOTAL SUSP SOLVED TOTAL TOTAL (MG/L AS N) AS N)	SOLVED SOLVED SOLVED TOTAL SUSP SOLVED TOTAL TOTAL TOTAL (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS N) AS N) AS P) AS P) AS C) AS C)	SOLVED SOLVED SOLVED TOTAL SUSP SOLVED TOTAL TOTAL TOTAL SOLVED (MG/L (M

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	E1.1		15	4
FEB				
14	E1.6		E11	<1
MAY				
24	E1.9	7.80	15	5
AUG				
08	<1.0	1.70	20	4

.33

.44

.57

.080

.051

.130

.073

.005

.004

.012

.020

.011

.011

.030

.032

.4

.4

.7

4.7

4.1

4.3

4.3

.4

.4

.7

.3

<.1

<.1

<.1

<.1

NOV 16...

FER

MAY

AUG 08...

14 . . .

24 . . .

<.03

.04

<.03

.06

.32

.26

.40

.42

<.037

.078

.042

.150

<.003

<.003

.003

<.003

.29

.38

.53

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 2000 TO SEPTEMBER 2001

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)	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)
AUG 08	0950	<2	10.8	<.06	17	<.04	<1	.6	270	<1	418	<.01	<1
				DA AUG	ATE	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)					
					8	<.4	<.05	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITED REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITED REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 14	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
-	DA FEE	VTE	METHYL ENE CHLO- 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)		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 24	0930	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 24	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.004
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	4	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	0947	<20	<100	350	01	0945	1300	1700	540
11	0946	210	200	2100					
18	0946	40	100	170					
25	0945	<20	<100	140					

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

HACKENSACK RIVER BASIN

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, 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 mi2.

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

COOPERATION. -- Field data and samples for laboratory analyse were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-QUALITY	DATE	WATER	VEAR	OCTOBER	2000	TO	SEDTEMBER	2001
MATER-COMPITIE	DATA!	MATER	ILAK	OCTOBER	2000	10	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
28 FEB	0800	23		.142	.106	757	72	9.0	7.6	428		5.5	130
22 MAY	0830	42		.105	.076	768	71	10.0	8.0	903	-5.0	1.5	160
23 AUG	0800	86	9.1	.119	.086	755	68	6.6	7.7	570	14.0	16.5	120
09	0800	86	16	.137	.099	758	60	4.9	7.6	502	27.0	25.0	110
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFL/TRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
28 FEB	40.6	7.49	2.10	31.2	94	55.5	E.1	5.1	15.5	228	217	.060	.51
22 MAY	49.2	8.73	2.09	98.8	98	180	<.2	5.3	18.3	425	425	.120	.38
AUG 23	36.0	6.34	1.68	59.9	80	112	<.2	2.4	15.9	323	284	.150	.48
09	34.7	6.25	2.09	47.0	83	88.5	<.2	6.0	9.7	268	245	.200	.57
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	(MG/L AS N) (00610)	TOTAL (MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	(MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
NOV													
28 FEB	.08	.52	.531	.005	1.0	1.1	.101	.020	.043	.6	<.1	5.1	.6
22 MAY	.11	.56	.777	.005	1.2	1.3	.088	.011	.031	.7	<.1	3.8	.7
AUG	.11	. 59	.371	.016	. 85	.96	.181	.021	.063	1.5	<.1	4.7	1.5
09	.20	.96	.189	.021	.76	1.2	.253	.011	.098	1.7	<.1	5.3	1.7

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
28	E1.8		50	<1
FEB				
22	E1.1		51	7
MAY				
23	2.8	10.9	44	12
AUG				
09	2.4	42.5	43	12

E Estimated value.

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

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HACKENSACK RIVER BASIN

01377000 HACKENSACK RIVER AT RIVERVALE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05	1015	5400	2100	4500	16	1105	220	100	170
09	1112	220	600	260	23	1120	1700	500	340
					30	1114	330	300	90

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ

LOCATION.--Lat 41°58'43", long 73°58'02", Bergen County, Hydrologic Unit 02030103, at bridge on Old Closter Dock Road, 0.4 mi upstream of Oradell Reservoir, 0.4 mi north of Closter, and 1.6 mi north of Demarest.

DRAINAGE AREA . -- 8.69 mi2.

PERIOD OF RECORD. -- Water Year 1999, November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION. --Field data and samples for laboratory analyse were provided by the New Jersey Department of Environmental Protection.

Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
08	1000		.078	.061	766	74	8.9	7.7	578		7.5	220	67.7
01 MAY	1000		.159	.120	763	86	11.3	7.5	671	5.5	4.0	150	45.1
23 SEP	1000	5.8	.201	.154	760	56	5.7	7.4	377	15.5	14.5	120	38.6
05	1030	3.5	.059	.043	766	84	8.1	8.0	587	23.0	17.5	210	67.5
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L AS MG)	SOLVED (MG/L AS K)	SOLVED (MG/L AS NA)	(MG/L AS CACO3)	SOLVED (MG/L AS CL)	SOLVED (MG/L AS F)	(MG/L AS SIO2)	SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L)	DIS- SOLVED (MG/L)	SOLVED (MG/L AS N)	DIS. (MG/L AS N)	TOTAL (MG/L AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)
NOV													
08 FEB	11.3	2.36	29.3	162	65.9	<.2	17.5	25.8	324	322	.060	.23	.09
01 MAY	8.68	2.79	68.0	91	127	<.2	12.5	25.8	372	352	.110	.35	.08
23 SEP	6.81	2.59	23.9	88	46.9	<.2	10.7	18.7	234	206	.150	.70	.14
05	11.1	2.05	30.9	159	71.4	<.2	17.4	27.7	348	324	<.030	E.29	<.03
	NITRO- GEN,AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
08 FEB	.24	1.27	.021	1.5	1.5	.045	.015	.031	.4	<.1	2.8	.4	E1.2
01 MAY	.48	1.73	.013	2.1	2.2	.067	.018	.040	.6	<.1	4.8	.6	E1.1
23 SEP	.78	.952	.034	1.6	1.7	.215	.052	.103	1.7	<.1	6.3	1.7	2.3
05	.30	E1.54	.034			.069	.033	.058	.5	<.1	2.3	.5	<1.0

E Estimated value

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

HACKENSACK RIVER BASIN

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			WATER-	-QUALITY I	DATA, WATE	ER YEAR OO	TOBER 200	00 TO SEPT	EMBER 200	1			
				DATE		CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)					
				NON	7 08		66	1					
				FEB 01			51	1					
				MAX	23	10.2	64	8					
				SEI	5	12.7	65	5					
			BARIUM,	BERYL- LIUM,	BORON,	CADMIUM	CHRO-	COPPER,	IRON,	LEAD,	MANGA- NESE,	MERCURY	NICKEL,
DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	TOTAL RECOV- ERABLE (UG/L AS B) (01022)	WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)
SEP 05	1030	<2	126	<.06	63	<.04	<1	1.5	250	<1	76	<.01	1
		DATE			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 05		.4	<.05	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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 01	1000	1.09	. 67	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 01	<.10	<.2	.10	.50	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.7
	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)		
	FEB 01		<.2	<.20	<.10	<.10	1.1	<.10	.12	<.20	<.2		

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

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITD 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 FLITD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
MAY 23	1000	<.004	<.002	<.005	.011	E.005	E.618	<.020	E.003	<.018	<.003	<.006	.051
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 23	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	.061
			DA	те	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLIRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	3	.041	<.016	<.034	<.005	E.007				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 05 09	0945 1104	>24000 2400	5900 1800	7500 2200	JUL 16 23 30	1056 1105 1104	230 490 2400	900 800 500	230 200 320

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.

01378387 TENAKILL BROOK AT OLD CLOSTER DOCK ROAD, AT CLOSTER, NJ--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

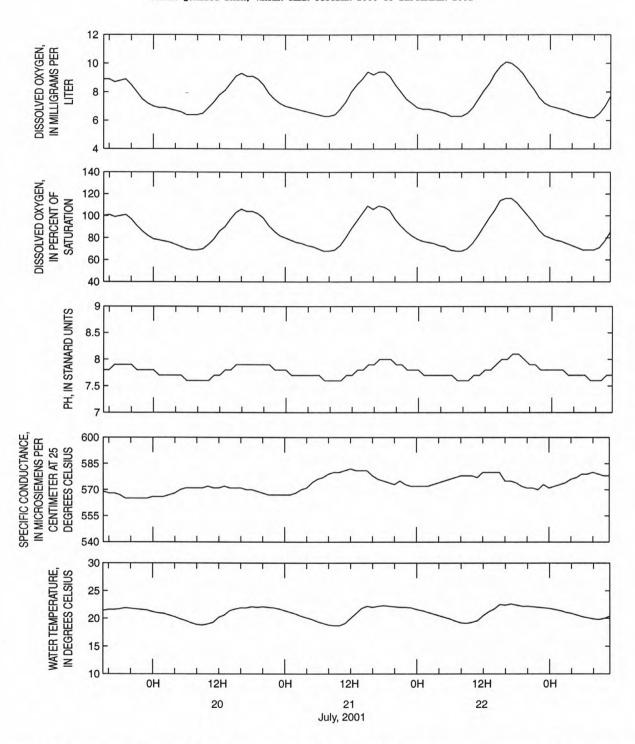


Figure 29. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01378387 Tenakill Brook at Old Closter Dock Road, at Closter, water year 2001.

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 mi2.

PERIOD OF RECORD .-- Water years 1962, 1965, 1967, 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

TATA OTTED	OTTAT TITU	DAMA	TATA (TITE TO	WEND	COMODED	2000	mo	SEPTEMBER	2001

		DIS- CHARGE, INST.	TUR- BID- ITY	UV ABSORB- ANCE	UV ABSORB- ANCE	BARO- METRIC PRES-	OXYGEN, DIS- SOLVED		PH WATER WHOLE	SPE- CIFIC			HARD- NESS
		CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-	TEMPER-	TEMPER-	TOTAL
		FEET	WATER	WTR FLT	WTR FLT	(MM)	CENT	DIS-	(STAND-	DUCT-	ATURE	ATURE	(MG/L
DATE	TIME	PER	UNFLTRD	(UNITS	(UNITS	OF	SATUR-	SOLVED	ARD	ANCE	AIR	WATER	AS
		SECOND	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)	(DEG C)	(DEG C)	CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
NOV													
01	1140	1.3		.100	.079	759	60	7.1	7.9	689	14.0	8.0	240
FEB					.075	,,,,	00	/	,	005	24.0	0.0	
13	1130	5.5		.077	.056	769	106	14.0	7.8	855	8.0	4.0	220
MAY						, 0,5			,,,				
03	0950	4.3		.090	.069	767	70	6.6	7.8	759	28.0	18.5	220
AUG													
13	1030	4.1	10	.173	.132	759	68	5.8	7.2	130	28.0	23.0	37
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
01	70.7	15.2	2.87	39.1	170	97.3	<.2	15.1	24.6	388	371	.070	.34
FEB													
13	67.6	13.0	2.01	74.5	144	153	<.2	11.8	30.1	477	447	.060	.23
MAY													
03	67.3	13.4	2.28	50.2	158	124	<.2	9.2	25.5	440	392	.150	.56
AUG 13	11.3	2.11	1.69	8.0	26			2.2		200	67	100	40
13	11.3	2.11	1.69	8.0	20	14.1	<.2	3.3	6.9	76	67	.120	.40
		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV			-		372	4-8					100	2.5	
01	.12	.41	.855	.010	1.2	1.3	.061	.027	.043	.4	<.1	3.4	. 4
FEB				44-	2.72	2-2	221	446		-	5/2	2.2	
13	.05	.30	1.95	.017	2.2	2.3	.064	.008	.030	.6	<.1	3.3	.6
MAY 03	20	72	1 00	074					0.00		14.5		- 0
AUG	.20	.73	1.20	.074	1.8	1.9	.116	.023	.068	E.9	<.1	2.9	E.9
13	.13	.56	.731	.021	1.1	1.3	.100	.082	.131	1.2	<.1	4.5	1.1

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

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

	OXYGEN DEMAND, BIO- CHEM- ICAL,	CHLORO- PHYLL A FLUORO- METRIC METHOD	BORON, DIS- SOLVED	RESIDUE TOTAL AT 105 DEG. C, SUS-
DATE	5 DAY (MG/L) (00310)	CORR. (UG/L) (32209)	(UG/L AS B) (01020)	PENDED (MG/L) (00530)
NOV				
01 FEB	E1.6		45	1
13 MAY	E1.0		30	6
03 AUG	E1.4	20.3	45	14
13	E1.6	10.3	18	3

DATE	TIME	SAME		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 13	0945	CHURN BI				14			12				22
13 13	0946 1030	FIELD BI			22					2	32.3	<.06	20
13	1030	BED MATE		7.00	100	3.5	130	2.4	.2	=-			
DATE	CADMIUM WATER UNFLITRD 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)	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)
AUG													
13							44						
13			<.2		.==	<.08		.5-	<.01		<.06		
13	.04	<1	==	4.2	450		4	87		<.01		1	E.2
13	-		7-				1				122		
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG													*
13		4			122								
13		7											
13	<.05		11					. 77					
13				<1	.1	7.7	2.7	18	5600	27	87	.01	7.7
DATE	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)	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													
13					4.2					044			122
13					32		22					22	
13													
13	<1	60	80	<50	E40	<50	90	E40	170	400	430	400	280
-			7.5		7.27		12.2				7.77	47.7	

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

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

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)	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)
AUG													20
13	370	510	80	930	310	<50	<50	<50	<50	<50	<50	E30	20
		ATE	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. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)			
	AUG 1	3	<50	50	560	<50	50	760	<1	<1			
		1,1,1- TRI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHANE	1,1-DI- CHLORO- ETHYL- ENE	1,2-DI- CHLORO- ETHANE	1,2-DI- CHLORO- PROPANE	TRANS- 1,2-DI- CHLORO- ETHENE	BENZENE 1,3-DI- CHLORO- WATER UNFL/TRD	BENZENE 1,4-DI- CHLORO- WATER UNFL/TRD	BENZENE O-DI- CHLORO- WATER UNFL/TRD	BENZENE	BROMO- FORM	CARBON TETRA- CHLO- RIDE
DATE	TIME	TOTAL (UG/L) (34506)	TOTAL (UG/L) (34496)	TOTAL (UG/L) (34501)	TOTAL (UG/L) (32103)	TOTAL (UG/L) (34541)	TOTAL (UG/L) (34546)	REC (UG/L) (34566)	REC (UG/L) (34571)	REC (UG/L) (34536)	TOTAL (UG/L) (34030)	TOTAL (UG/L) (32104)	TOTAL (UG/L) (32102)
FEB													
13	1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	CHLORO- BENZEME 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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB						10.20			-3-24				
13	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	3.1
	DA	TE	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 1	3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		
	1			20				1.10		1.20			

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

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

				- comments of		2, 2,000		ALCO ADD					
DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 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)
MAY													
03	0950	<.004	<.002	<.005	E.003	<.010	E.017	<.020	.005	<.018	<.003	<.006	.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
03	.010	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.020	E.012
			DA	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY										
			0	3	E.006	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 05 09	0915 1034	>24000 1700	3200 1800	6000 3600	JUL 16 23 30	1036 1030 1032	3500 1100 2200	700 1500 1000	350 360 460

<sup>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.</sup>

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ

LOCATION.--Lat 40°46'17", long 74°34'12", Morris County, Hydrologic Unit 02030103, at bridge on Tempe Wick Road, 1.2 mi east of intersection of Tempe Wick Road and State Route 24, 0.6 mi upstream of Ledells Pond, and 1.7 mi east of Mendham.

DRAINAGE AREA. -- 1.80 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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 sample for laboratory analyses were provided by the New Jersey Department of Environmental Protection.

Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-OUALITY	DATTA	WATER	VEAR	OCTOBER	2000	TO	SEDTEMBER	2001
MYTEY-COVETIT	DAIA,	MWITT	ILAK	OCTOBER	2000	10	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV	22.5			1		21				11.1		-	
29 FEB	0800		.098	.077	754	89	11.4	7.4	181	20.0	4.5	53	12.9
27 MAY	0800		.078	.059	753	80	10.8	7.5	265		2.5	48	12.0
24 AUG	0800		.107	.084	749	72	7.5	7.1	213	14.0	12.6	55	13.5
14	0800	6.8	.232	.182	750	79	7.2	7.0	207	20.0	19.0	52	12.8
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV	5.45	4134											
29 FEB	5.07	1.06	12.2	33	19.7	E.1	23.3	15.2	120	111	E.030	.15	<.03
27 MAY	4.43	.86	26.1	23	46.7	<.2	15.8	13.0	142	135	.040	.10	.04
24 AUG	5.18	.86	17.6	34	30.4	E.1	23.5	15.0	129	128	<.030	.22	.03
14	4.93	1.25	17.1	36	27.7	E.1	19.5	13.7	134	120	<.030	.31	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV 29	.46	.303	< 003	45	76	212	010	025	2.2	<.1	3.0	2.3	E1.8
FEB			<.003	.45	.76	.212	.010	.025	2.3				
27 MAY	.20	.543	<.003	.64	.74	.046	.007	.021	.7	<.1	2.2	.7	<1.0
24 AUG	.24	.348	<.003	.57	.58	.087	.015	.034	.8	<.1	3.1	.8	E1.4
14	.46	.461	.004	.78	.92	.076	.023	.069	1.2	<.1	5.5	1.2	<1.1

	PHYLL A		TOTAL	
	FLUORO-	BORON,	AT 105	
	METRIC	DIS-	DEG. C,	
	METHOD	SOLVED	SUS-	
DATE	CORR.	(UG/L	PENDED	
	(UG/L)	AS B)	(MG/L)	
	(32209)	(01020)	(00530)	
NOV				
29		17	6	
FEB				
27		18	3	
MAY				
24	3.40	E10	6	
AUG				
14	3.20	26	16	

CHLORO-

RESTRIE

E Estimated value.

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

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

DATE	TIME	SAME		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 14	0710	FIELD BI	ANK			22			22			- 25	
14	0800	ENVIRONM	MENTAL							24	24.2	E.04	25
14	0800	BED MATE	ERIAL	7.00	130	1.4	210	4.5	<.2				
DATE	CADMIUM WATER UNFLITED 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)	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)
AUG											0.5		
14 14	.04	M	<.2	3.1	1070	<.08	2	80	<.01	<.01	<.06	2	.4
14				-12									
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG													
14	<.05	<1	9	==									
14				<1	.1	15	4.8	11	10000	13	230	<.01	7.1
DATE	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)	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													
14 14		- 22											
14	<1	10000	E30	<50	E30	<50	E50	E30	90	220	200	170	120
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)	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)
AUG													
14 14						22						===	
14	190	240	E40	410	140	<50	<50	<50	<50	<50	<50	<50	<5
	DĄ	TE	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. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)			
	AUG												
		4											
		4	<50	<50	280	<50	E30	340	<1	3			

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

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
27	0800	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	D# FEE	ATE	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)		
		7	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 24	0800	<.004	<.002	<.005	E.002	<.010	E.060	<.020	<.005	<.018	<.003	E.003	E.002
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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)
MAY 24	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.003	<.007	<.003	<.010	<.015
			D#	VTE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	4	<.011	<.016	<.034	<.005	<.009				

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

100

PASSAIC RIVER BASIN

01378660 PASSAIC RIVER AT TEMPE WICK ROAD, NEAR MENDHAM, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY 23	1155	5400	4500	4300	JUN 06	1110	270	400	130
30	1045	490	1100	900	13	1110 1123	790 230	400 200	190 90

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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

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

		SAME	PLE	DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-
DATE	TIME	TYI		PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)
NOV													
16 FEB	1050	ENVIRON	ENTAL	.63	27	.044	.035	750	94	11.4	7.4	130	
26	1010	ENVIRON	ENTAL	2.6		.081	.062	749	95	12.4	6.7	88	11.0
08	1050	ENVIRONM	ENTAL	1.5	2.8	.040	.031	763	96	10.6	7.5	119	16.5
21 21	1150 1150	ENVIRON		.64	3.9	.052	.041	750	96	8.9	7.1	133	24.5
21	1151	SPLIT RE	ENT REPLIC							===	- 22	32	- 22
		HARD-		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF
	TEMPER- ATURE	NESS TOTAL (MG/L	CALCIUM DIS- SOLVED	SIUM, DIS- SOLVED	SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	TIT 4.5 LAB (MG/L	RIDE, DIS- SOLVED	RIDE, DIS- SOLVED	DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	AT 180 DEG. C DIS-	CONSTI- TUENTS, DIS-
DATE	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)
NOV													
16	6.5	46	11.8	4.12	.96	5.4	38	5.8	E.1	27.3	14.9	94	94
26 MAY	3.5	31	7.86	2.72	.62	3.8	21	4.0	<.2	18.0	12.6	73	64
08 AUG	11.0	41	10.4	3.60	.55	5.6	31	5.5	E.1	23.0	14.9	90	89
21	18.0	47	12.0	4.10	.91	5.6	39	6.3	E.1	25.9	14.0	98	94
21		47	12.0	4.20	.99	6.0	39	5.8	<.1		13.0	100	68
21		47	12.0	4.20	1.00	6.0	38	5.8	<.1		13.0	100	66
	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS ORTHO, DIS-	PHOS- PHORUS ORTHO	PHOS- PHORUS
DATE	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)	TOTAL (MG/L AS N) (00610)	TOTAL (MG/L AS N) (00625)	SOLVED (MG/L AS N) (00631)	SOLVED (MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	TOTAL (MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	TOTAL (MG/L AS P) (70507)	TOTAL (MG/L AS P) (00665)
NOV	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(00000)	(000007	(00000)	(0000-)	(00020)	(00002)	(00000)	(130,0)	(00000)	(000,-)	1.000.7	(00000)
16 FEB	<.030	E.08	<.03	E.08	.124	<.003			.038	.004	44		.004
26 MAY	.050	E.09	.04	.13	.381	<.003		.51	.061	E.003			.011
08 AUG	<.030	E.08	<.03	.11	1.59	<.003		1.7	E.013	.005			.020
21	<.030	.12	<.03	.29	.337	<.003	.46	.63	.100	.014	<.020	<.020	.023
21	.025	.09	.03	<.10	.600	<.050	. 69			.009	.042	.042	.022
21	.025	.13	.03	.28	.270	<.050	.40	. 55		.018	.046	.042	.032

E Estimated value.

< 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 2000 TO SEPTEMBER 2001

			CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-		RESIDUE			
	D.	ATE	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)			
	NOV	7 16	2			2	-1.0		W10				
	FEE	3	.2	<.1	1.5	.2	<1.0		E12	3			
	MAS	26 C	.5	<.1	2.4	.5	<1.0		E12	6			
	AUG	3	.7	<.1	1.2	.7	<1.0	4.20	<13	5			
	2	21 21	1.0	<.1	1.8	1.0		.200	E13 32	6			
		21		44	.81	==			22	7			
DATE	TIME	SAMI TYI		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													
21 21	1002 1150	FIELD BI								<2	12.0	E.03	9
21	1150	BED MATE	ERIAL	7.00	4000	17	780	66	<.2				
21	1150 1151		EPLICATE ENT REPLIC				==			<2 <2	13.0 13.0	<1.30 <1.30	30 21
DATE	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)	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)
AUG													
21 21	E.03	<1	<.2	.9	280	<.08	<1	28	<.01	<.01	<.06	<1	<.4
21 21	<1.00	<2		<1.5								 <5	-1 0
21	<1.00	<2		<2.5	350 260		3 2	20 20	==		45	<5	<1.8 <1.8
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG													
21 21	<.05	<1	6					==	22		22		
21	<1.50			3	14	31	11	46	2500	33	510	.04	.4
21	<1.50	==	<8 <8	==			==		===				
DATE	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)	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												,	
21 21								==	===			20	
21	<1	80	<50	<50	<50	<50	E50	<50	<50	60	70	E50	<50

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

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

					Saluta								
DATE	BENZO K FLUOR- ANTHENE SED, BM WS,<2MM DW, REC	CHRY- SENE SED, BM WS,<2MM DW, REC	DIBENZ (AH), AN THRACEN SED, BM WS, <2MM DW, REC	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC	ISOPHOR ONE SED, BM WS,<2MM DW, REC	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC	ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC	NAPTHAL ENE, 236 TRIMETH SED, BM WS, <2MM DW, REC	ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC	NAPTHAL ENE, 2- ETHYL- SED BM WS <2MM DW REC	NAPHTH- ALENE, SED, BM WS,<2MM DW, REC	PCB, TOTAL IN BOT TOM MA TERIAL
	(UG/KG) (49397)	(UG/KG) (49450)	(UG/KG) (49461)	(UG/KG) (49466)	(UG/KG) (49390)	(UG/KG) (49400)	(UG/KG) (49403)	(UG/KG) (49404)	(UG/KG) (49405)	(UG/KG) (49406)	(UG/KG) (49948)	(UG/KG) (49402)	(UG/KG) (39519)
AUG													
21													
21	E40	80	<50	110	E40					<50	<50	<50	<10
21	E40	80	450	110	E40	<50	<50	<50	<50	<50	<50	450	410
	υ	ATE	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. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)			
	AUG		22.55	14 15 45 7	***********		10000	*******	3.000,000	362335			
		21											
	- 2	21			155					577			
		21	<50	<50	<50	<50	<50	90	19	56			
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)	CARBON TETRA CHLO- RIDE TOTAL (UG/L (32102
FEB													
26	1010	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNI REC (UG/L) (78032
FEB													
26	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	TE	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)		
	FEE												
		6	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

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

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

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 08	1050	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLITRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY 08	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY	8	<.011	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1213	130	<100	60	06	1128	<20	<100	90
30	1105	50	<100	80	13	1130	20	200	180
					19	1145	70	100	400

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

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 County 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 mi2

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

	DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER- ATURE	TEMPER- ATURE	HARD- NESS TOTAL (MG/L
TIME	SECOND (00061)	(NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
1310	E13		.143	.111	750	73	8.0	7.5	500	11.5	10.5	130
1310	153		.202	.159	757	90	12.0	6.6	558	11.5	3.0	87
1240	51	33	.226	.175	753	65	6.5	7.3	422	18.0	14.5	96
1140	5.5	20	.096	.071	759	91	8.2	7.5	712	25.5	20.0	160
CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
		DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
												DIS.
												(MG/L AS N)
(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
				78	67.3	E.2	15.8	38.8	293	287	<.030	.52
			63.9	28	135	<.2	10.4	14.6	311	278	.040	.26
24.5	8.34	2.70	38.7	55	68.8	E.1	13.3	25.1	252	223	.120	.71
41.3	14.4	6.99	72.1	79	109	.2	14.0	53.4	427	359	.070	.59
NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
<.03	. 54	5.94	.014	6.5	6.5	.067	1.17	1.23	.7	<.1	4.8	.6
.16	.36	1.26	<.003	1.5	1.6	.080	.087	.096	.7	<.1	5.4	.7
.11	. 89	1.90	.038	2.6	2.8	.245	.519	.619	1.9	<.1	6.9	1.9
	1310 1240 1140 1140 CALCIUM DISSOLVED (MG/L AS CA) (00915) 33.0 22.2 24.5 41.3 NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) <.03	CHARGE, INST. CUBIC FEET PER SECOND (00061) 1310 E13 1310 153 1240 51 1140 5.5 MAGNE-SIUM, DIS-SOLVED SOLVED (MG/L AS CA) AS MG) (00915) (00925) 33.0 11.4 22.2 7.74 24.5 8.34 41.3 14.4 NITRO-GEN, AM-GEN, MONIA + AMMONIA ORGANIC TOTAL (MG/L AS N) AS N) (00610) (00625) <.03 .54	CHARGE, INST. ITY CUBIC FIELD FEET WATER WATER UNFILTED SECOND (NTU) (00061) (61028) 1310 E13 1310 153 1240 51 33 1140 5.5 20 MAGNE- SIUM, DIS- SOLVED SOLVED SOLVED (MG/L AS CA) AS MG) (00915) (00925) (00935) 33.0 11.4 4.90 22.2 7.74 1.54 24.5 8.34 2.70 41.3 14.4 6.99 NITRO- GEN, AM- GEN, GEN, GEN, MONIA + COMMONIA CRGANIC TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL (MG/L AS N) AS N) (00610) (00625) (00631) <.03 .54 5.94	CHARGE, INST. ITY ANCE CUBIC FIELD 254 NM, FEET WATER UNFITED (UNITS SECOND (NTU) /CM) (00061) (61028) (50624) 1310 E13143 1310 153202 1240 51 33 .226 1140 5.5 20 .096 MAGNE- POTAS- SIUM, SIUM, SODIUM, DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L (MG/	CHARGE, BID- ANCE ANCE CUBIC FIELD 254 NM, 280	CHARGE, BID- ABSORB- ANCE PRES- CUBIC FIELD 254 NM, 280 NM, SURE FEET WATER WTR FLT WTR FLT (MM SECOND (NTU) / (CM) / (CM) (61028) (50624) (61726) (00025) 1310 E13143 .111 750 1310 153202 .159 757 1240 51 33 .226 .175 753 1140 5.5 20 .096 .071 759 MAGNE- POTAS- CALCIUM SIUM, SIUM, SODIUM, TIT 4.5 RIDE, DIS- SOLVED SOLVED SOLVED SOLVED (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	CHARGE, BID— ANCE ANCE ANCE PRES- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L (MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	CHARGE	CHARGE, BID. ABSORB- ANCE PRES SOLVED CUBIC FIELD 254 NM, WTR FLT WATTER SECOND (NTU) /CM) /CM)	CHARGE BID ABSORB METRIC DIS- MATER SUE CIFIC CIFIC FIELD CIFIC FIELD CIFIC CIFIC FIELD CIFIC FIELD CIFIC CIFIC CIFIC CIFIC FIELD CIFIC CIFIC	CHARGE, BID. ABSORB- ABSORB- METRIC UNST. TITY ANCE ANCE ANCE ANCE ANCE ANCE ANCE ANCE	CHARGE BID ABSORB ABSORB METRIC TINST LINST LINST CUBIC FIELD 254 NM, 280 NM, 28

OXYGEN	CHLORO-		RESIDUE	
	7777			
	METRIC			
ICAL,	METHOD	SOLVED	SUS-	
5 DAY	CORR.	(UG/L	PENDED	
(MG/L)	(UG/L)	AS B)	(MG/L)	
(00310)	(32209)	(01020)	(00530)	
E1.1		230	4	
E1.2		61	7	
2.8	6.00	138	28	
<1.0	4.50	312	11	
	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) E1.1 E1.2	DEMAND, PHYLL A BIO- FLUORO- CHEM- METHOD 5 DAY CORR. (MG/L) (UG/L) (00310) (32209) E1.1 E1.2 2.8 6.00	DEMAND, PHYLL A BIO- FLUORO- BORON, CHEM- METRIC DIS- ICAL, METHOD SOLVED 5 DAY CORR. (UG/L) (MG/L) (UG/L) AS B) (00310) (32209) (01020) E1.1 230 E1.2 61 2.8 6.00 138	DEMAND, PHYLL A BIO- FLUORO- BORON, AT 105 CHEM- METRIC DIS- DEG. C, ICAL, METHOD SOLVED SUS- 5 DAY CORR. (UG/L PENDED (MG/L) (UG/L) AS B) (MG/L) (00310) (32209) (01020) (00530) E1.1 230 4 E1.2 61 7 2.8 6.00 138 28

E Estimated value.

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

106

PASSAIC RIVER BASIN

01379200 DEAD RIVER NEAR MILLINGTON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1045	16000	500	3600	06	1045	2200	200	300
30	1110	490	300	390	13	1020	3500	1900	2500
					19	1015	3500	3000	890

PASSAIC RIVER BASIN 01379200 DEAD RIVER NEAR MILLINGTON, NJ--Continued

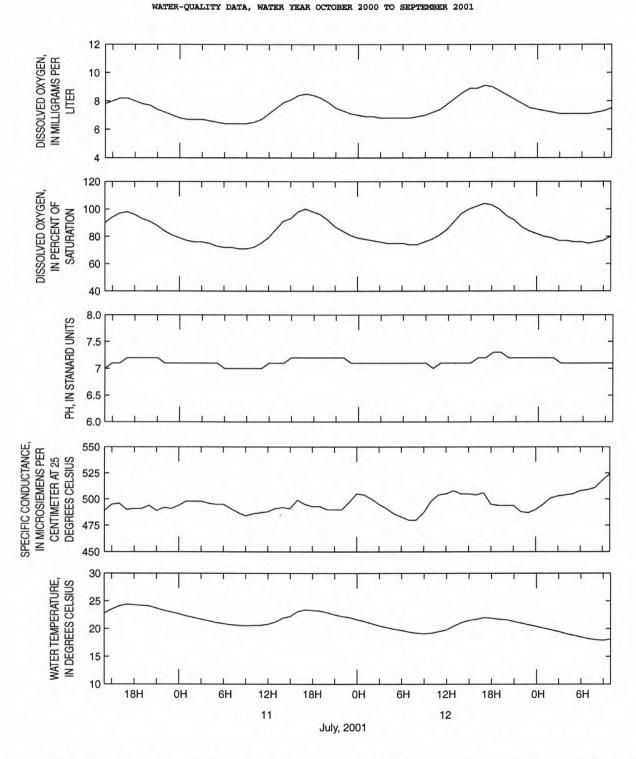


Figure 30. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01379200 Dead River near Millington, water year 2001.

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ

LOCATION.--Lat 40°54'21", long 74°29'50", Morris County, Hydrologic Unit 02030103, at bridge on Morris Avenue, 0.8 mi upstream of mouth, 1.3 mi northeast of Denville, and 1.4 mi downstream of White Meadow Lake.

DRAINAGE AREA . -- 22.1 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

LINER OTTO TOTAL		***			2000	mo	annamann.	2001
WATER-QUALITY	DATA,	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	ZUUI

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)
NOV													
30	1100		.160	.127	744	79	10.0	6.7	157	4.5	4.5	45	11.2
MAR			.100		7.4.	,,,	10.0	0.7	137			•••	
08	1100	22	.081	.061	750	89	12.0	7.3	264	14.5	2.5	52	13.5
MAY	2000	2.3		2.20		100	100 Tab.		200		0.2.70	200	2.7.0
16 AUG	1100	9.0	.163	.129	747	56	5.4	7.0	201	18.3	16.0	58	14.5
09	1100	5.7	.187	.148	746	46	3.7	6.9	177	25.0	25.5	58	14.3
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)
NOV													
30 MAR	4.18	.94	10.9	27	20.7	<.2	10.7	11.1	89	87	.040	.25	.07
08 MAY	4.35	.91	26.2	26	47.4	<.2	7.3	15.4	139	132	<.030	.14	<.03
16 AUG	5.15	.93	15.0	38	29.9	E.1	9.3	8.8	144	107	.050	.29	.06
09	5.34	.91	11.8	39	25.4	E.1	8.2	8.0	110	98	.080	.27	.09
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
30 MAR	.28	.244	<.003	.49	.52	.041	.008	.024	.7	<.1	4.0	.7	E1.1
08 MAY	.19	.258	<.003	.40	.45	.032	.004	.015	.4	<.1	2.7	.3	<1.0
16 AUG	.55	.191	.009	.48	.74	.078	.010	.068	.6	<.1	3.4	.6	E1.4
09	.34	.133	<.003	.41	.48	.087	.014	.014	.6	<.1	3.8	.6	E1.7

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
30		E8	5
MAR			
08		13	1
MAY			
16	3.20	14	16
AUG			
09	7.70	E11	5

E Estimated value.

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

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
AUG 09	1100	E2	10.7	<.06	14	E.02	<1	1.1	1090	<1	184	<.01	<1
					ATE	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	9	<.4	<.05	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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
MAR 08	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	E.1
	DA MAR	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNIFLTRD 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)		5.7

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 16	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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

01380098 BEAVER BROOK AT MORRIS AVENUE, AT DENVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLIRD 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)	MOL- INATE WATER FLIRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY										. 007	. 003	. 010	. 015
16	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			ג ם	NTE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITRD 0.7 U GF, REC (UG/L) (&2665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	6	<.011	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	
MAY					JUN					
23	1040	3500	2000	2300	06	1015	330	500	120	
30	0945	230	<100	300	13	1020	210	200	200	
					19	1025	790	700	430	

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

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 mi2.

PERIOD OF RECORD. -- Water years 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
13 FEB	1110	12		.192	.151	748	82	9.3	7.2	196		9.0	55
12 MAY	1050	63		.092	.070	764	94	13.4	7.2	292	3.0	1.0	71
02 AUG	1110	19	4.1	.128	.100	756	95	8.9	7.5	213	30.5	18.0	55
22	1140	4.8	5.0	.146	.114	750	88	7.6	7.0	205	26.0	22.0	58
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
D1000	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
13 FEB	13.5	5.19	1.62	13.3	33	26.5	E.1	10.9	14.6	114	106	.030	.30
12 MAY	19.3	5.63	1.33	25.5	34	46.7	E.1	7.6	23.9	163	152	.040	.25
02 AUG	14.5	4.59	.97	16.6	35	33.7	E.1	6.8	12.7	132	111	<.030	. 27
22	14.6	5.21	1.03	13.7	40	30.6	E.1	8.2	9.9	121	108	<.030	. 25
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
13 FEB	.03	.34	.071	<.003	.37	.42	.042	.011	.027	.4	<.1	5.4	.4
12 MAY	.04	.22	.352	.003	.60	.57	.113	.006	.018	.9	<.1	3.0	.9
02 AUG	<.03	.34	.123	.006	.39	.46	.104	.013	.029	.5	<.1	3.4	.5
22	<.03	.29	.213	<.003	.46	.50	.043	.017	.044	.4	<.1	3.4	.4

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
13	4.8		E13	3	
FEB					
12	<1.0		E13	4	
MAY					
02	E1.8	7.70	E7	12	
AUG					
22	<1.0	2.80	E11	14	

E Estimated value.

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

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PASSAIC RIVER BASIN

01380100 BEAVER BROOK AT ROCKAWAY, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY	2222	2.22	2000	2000	JUN	3636		-	2.22
23	1055	5400	1200	2000	06	1028	220	300	120
30	1000	170	<100	310	13	1030	340	200	150
					19	1039	940	100	400

< 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, at site 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 mi2.

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-recomnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM,	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED (PER-	OXYGEN,	PH WATER WHOLE FIELD	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	WTR FLT (UNITS /CM) (61726)	(MM OF HG) (00025)	CENT SATUR- ATION) (00301)	DIS- SOLVED (MG/L) (00300)	(STAND- ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
14 FEB	1100	74		.336	.257	755	71	7.9	7.4	460		10.0	130
15 MAY	1100	199		.153	.116	758	84	10.9	7.3	754	5.0	4.0	130
10	1100	50		.093	.067	758	73	6.9	7.5	568	24.0	18.0	160
30	1030	27	3.9	.118	.087	759	91	8.0	7.8	631	25.0	21.5	170
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
14 FEB	32.6	11.0	3.51	36.1	74	75.3	E.1	15.1	25.1	268	250	.030	.66
15 MAY	35.2	10.9	2.67	85.9	65	165	E.1	11.0	24.8	412	381	.170	.45
10	39.6	14.2	3.32	47.4	86	104	E.1	13.2	25.3	350	310	.200	.59
30	43.9	15.4	3.65	53.7	94	116	<.2	13.5	28.8	379	332	.090	.42
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	(00688)	(00681)	(00689)
NOV													
14 FEB	<.03	.75	1.55	.003	2.2	2.3	.125	.164	.255	1.1	<.1	8.3	1.1
15 MAY	.19	.50	1.45	.056	1.9	1.9	.086	E.048	.099	.7	<.1	4.6	.7
10	.20	.84	2.56	.042	3.2	3.4	.190	.160	.324	1.8	М	3.2	E1.8
30	.07	.49	E3.14	.011			.079	.280	.289	.5	<.1	3.9	.5

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

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PASSAIC RIVER BASIN

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
14	E1.3		67	10
FEB				
15	<1.0		46	7
MAY				
10	E1.7	13.1	78	27
AUG				
30	<1.3	11.3	99	<1
				-

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1015	9200	4400	8200	06	0945	330	100	150
30	0926	5400	<100	2300	13	0953	330	400	320
					19	1000	2200	1300	490

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

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

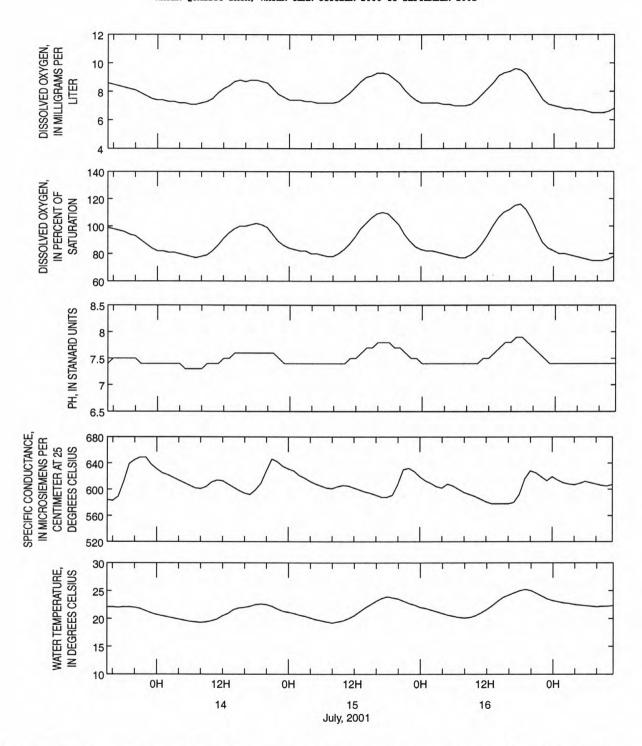


Figure 31. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01381800 Whippany River near Pine Brook, water year 2001.

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 mi2.

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

PERIOD OF DAILY RECORD. --

SPECIFIC COMMUCTANCE: 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-	OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
14 FEB	1020	336		.348	.278	753	51	5.6	7.3	418	12.0	10.5	100
21 MAY	1230	810		.168	.128	759	98	12.9	7.6	504	5.0	3.5	97
02 AUG	0930	230	14	.150	.114	760	91	8.5	7.6	590	25.5	18.5	140
23	1320	143	20	.129	.094	755	87	7.2	7.5	590	27.0	24.5	140
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD	CHLO-	FLUO-	SILICA,	SULFATE	SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM- MONIA +
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	TIT 4.5 LAB (MG/L	RIDE, DIS- SOLVED	RIDE, DIS- SOLVED	DIS- SOLVED (MG/L	DIS- SOLVED	AT 180 DEG. C DIS-	CONSTI- TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
14 FEB	25.6	9.13	4.57	37.2	67	60.9	E.1	12.6	32.4	244	230	.060	.72
21 MAY	24.7	8.49	2.52	51.5	51	96.7	<.2	11.3	22.3	276	255	.050	.31
02	35.2	12.1	3.55	54.2	84	105	E.1	9.9	29.1	344	310	.080	.46
23	35.9	12.7	5.65	53.6	83	102	<.2	13.6	34.8	342	325	<.030	.40
•	NITRO- GEN,	NITRO- GEN, AM- MONIA +	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE	NITRO- GEN	NITRO-	NITRO- GEN, PAR TICULTE	PHOS- PHORUS	PHOS-	CARBON, INORG + ORGANIC	CARBON, INOR- GANIC,	CARBON, ORGANIC	CARBON, ORGANIC PARTIC-
DATE	AMMONIA TOTAL (MG/L AS N)	ORGANIC TOTAL (MG/L AS N)	SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	DIS- SOLVED (MG/L AS N)	GEN, TOTAL (MG/L AS N)	WAT FLT SUSP (MG/L AS N)	DIS- SOLVED (MG/L AS P)	PHORUS TOTAL (MG/L AS P)	PARTIC. TOTAL (MG/L AS C)	PARTIC. TOTAL (MG/L AS C)	DIS- SOLVED (MG/L AS C)	TOTAL (MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
14 FEB	.16	. 84	1.62	.019	2.3	2.5	.173	.358	.445	1.2	<.1	8.9	1.1
21 MAY	.04	.43	1.48	.013	1.8	1.9	.052	.155	.187	.6	<.1	4.6	.6
02 AUG	.10	.76	2.41	.034	2.9	3.2	.250	.294	.473	1.5	<.1	4.7	1.5
23	.03	.71	3.65	.032	4.0	4.4	.324	.497	.592	2.1	<.1	4.3	2.1

	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
14	2.7		109	15
FEB				
21	<1.2		61	8
MAY				
02	3.3	43.4	113	22
AUG				
23	E1.6	78.0	141	29

OXYGEN CHLORO-

RESTRIE

E Estimated value.

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

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PASSIAC RIVER BASIN

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
02	1300	110	100	40	02	1250	80	<100	20
11	1155	220	<100	90					
18	1200	130	100	30					
25	1145	40	20	<100					

< 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, 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 mi2.

PERIOD OF RECORD .-- Water year 1998, October 1999 to present.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20	WATER-OUALI	TY DATA	WATER '	YEAR	OCTOBER	2000	TO	SEPTEMBER	200
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DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
21	0945		.256	.189	737	95	11.6	7.4	120		5.5	36	9.20
FEB 14	1000		.254	.188	744	100	13.3	7.4	133	4.0	2.5	35	8.88
MAY												12.5	
22 AUG	1030	3.1	.189	.141	736	79	7.9	7.2	125	16.0	13.5	39	10.3
02	1030	1.3	.066	.048	748	79	7.1	7.7	309	27.0	19.5	100	26.8
	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
21 FEB	3.21	.50	8.1	22	13.6	<.2	3.7	8.0	78	60	.080	.53	.09
MAY	3.22	. 57	9.3	21	16.6	<.2	3.9	8.4	84	65	.040	.43	.06
22 AUG	3.29	.53	7.7	27	14.9	<.2	3.5	7.5	81	65	.030	.39	.06
02	8.89	.68	20.0	85	39.8	E.1	11.1	8.1	173	167	<.030	.11	.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
21 FEB	.74	.179	.004	.71	.92	.147	.007	.032	.9	<.1	6.9	.9	E1.7
14 MAY	.55	.249	<.003	.68	.80	.173	.008	.025	1.0	<.1	6.9	1.0	E1.8
22 AUG	.55	.181	<.003	.57	.73	.161	.013	.036	1.1	<.1	5.4	1.1	2.2
02	.14	.227	<.003	.34	. 37	.040	.024	.027	.3	<.1	2.2	.3	<1.0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
21		E7	7
FEB			
14		E12	4
MAY			
22	16.9	E7	9
AUG			
02	.400	13	4

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 2000 TO SEPTEMBER 2001

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)	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)
AUG 02	1030	м	9.6	<.06	17	<.04	<1	1.1	100	<1	41	<.01	<1
					ATE .	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	2	<.4	<.05	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 14	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB	0.40	23.23	12.22									2022	100
14	FEB		METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLIRD REC (UG/L) (85795)	C- 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)	<.10	<.2

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITRD 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)
MAY 22	1030	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 22	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.002
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLITD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY	2	<.011	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02	0945	<20	<100	70	16	1000	20	100	20
09	0945	<20	<100	40	23	0955	<20	100	10
					30	0935	<20	<100	20

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

01382500 PEOUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ

LOCATION.--Lat 41°01'05", long 74°24'07", Morris County, Hydrologic Unit 02030103, at culvert on 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 mi2.

PERIOD OF RECORD. -- Water years 1924, 1962-69, 1973-79, 1991 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 3.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
29 FEB	1000	14		.252	.193	752	115	14.5	7.6	155	7.0	5.0	41
21 MAY	1000	15		.127	.096	750	101	13.5	7.9	229	3.5	2.5	47
24 AUG	1000	12	2.1	.254	.196	750	89	9.0	7.5	218	15.0	14.0	48
29	1000	.33	.8	.069	.051	750	78	6.9	7.3	291		20.5	84
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
29 FEB	10.3	3.71	.91	11.9	24	20.4	<.2	6.8	9.3	94	80	<.030	.35
21 MAY	12.1	4.00	.71	22.2	24	42.8	<.2	7.4	10.3	122	116	<.030	.17
AUG	12.4	4.19	.94	20.6	29	36.8	E.1	7.3	9.1	129	110	<.030	.36
29	22.0	7.14	1.08	21.7	61	44.4	E.1	6.4	11.2	160	150	<.030	.28
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 29	<.03	.44	.401	.008	.75	.84	.079	.009	.021	.5	<.1	6.5	.5
FEB 21	.04	.25	.472	<.003	.65	.72	<.022	.006	.011	.3	<.1	3.4	.3
MAY 24	<.03	.39	.202	<.003	.56	.59	.100	.027	.034	.7	<.1	6.3	.7
AUG 29	<.03	.20	E.087	<.003			.028	.011	.010	.2	<.1	2.4	.2

E Estimated value.

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

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
29	<1.0	22	17	<1
FEB				
21	<1.0		E12	1
MAY				
24	E1.4	3.30	13	3
AUG				
29	<1.0	1.40	18	1

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	
JUL					JUL					
02	1002	50	<100	480	16	1015	<20	<100	20	
09	1000	20	200	270	23	1010	50	<100	20	
					30	0950	<20	100	50	

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

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

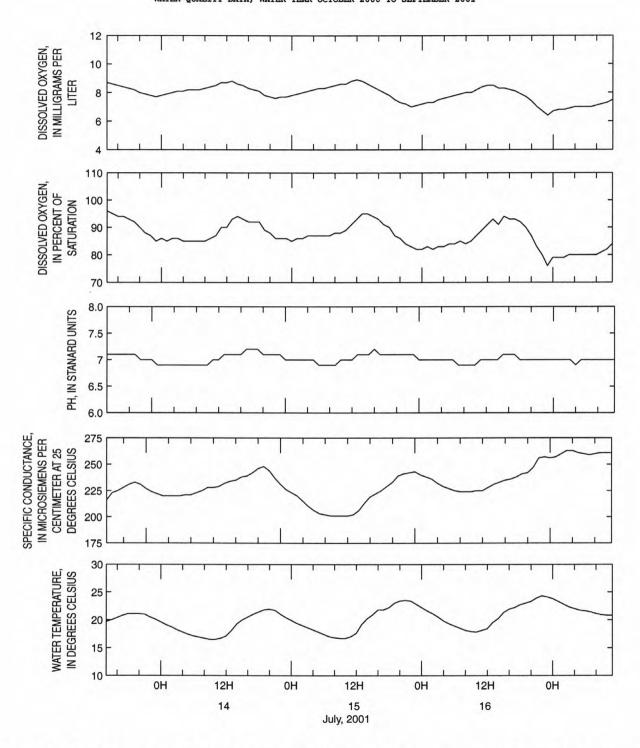


Figure 32. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01382500 Pequannock River at Macopin Intake Dam, water year 2001.

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ

LOCATION.--Lat 41°00'25", long 74°17'34", Passaic County, Hydrologic Unit 02030103, at bridge on Wanaque Avenue in Pompton Lakes, 0.1 mi north of intersection of Wanaque Avenue and Paterson Hamburg Turnpike, and 0.1 mi downstream of Lake Inez.

DRAINAGE AREA .-- 48.0 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
21 FEB	1000		.071	.055	751	99	10.0	7.4	240	5.5	14.0	60	16.4
15 MAY	1000		.068	.051	752	104	13.6	7.6	363	7.5	3.5	72	19.9
22 AUG	1100	7.0	.100	.077	752	83	8.8	7.6	235	19.1	12.0	57	15.6
16	1100	2.2	.067	.051	758	92	8.5	7.5	271	21.5	19.0	67	17.6
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
21 FEB	4.72	1.62	20.2	40	32.7	<.2	5.4	15.1	134	122	.530	.89	.53
15 MAY	5.47	1.71	39.0	39	68.4	<.2	7.5	18.1	204	188	.200	.36	.20
AUG	4.48	1.81	22.6	33	41.4	<.2	5.3	15.3	145	130	.150	.39	.22
16	5.50	1.96	28.1	40	45.7	<.2	4.8	22.5	158	152	.120	.27	.45
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
21 FEB	.97	.306	.011	1.2	1.3	.095	.064	.083	.8	<.1	3.7	.8	2.9
15 MAY	.35	.930	.006	1.3	1.3	.214	.012	.030	1.4	<.1	2.6	1.3	E1.0
22 AUG	.48	.715	.021	1.1	1.2	.118	.023	.054	.9	<.1	4.4	.9	3.2
16	.41	.430	.012	.70	.84	.063	.037	.043	.4	<.1	3.0	.4	E1.3

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
21		36	5
FEB			
15		24	7
MAY			
22	9.40	24	3
AUG			
16	6.80	37	3

E Estimated value.

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

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
AUG 16	1100	<2	10.3	<.06	36	E.02	<1	2.5	140	<1	93	.15	<1
					ATE	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 1	6	E.2	<.05	10					
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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITED REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITED REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 15	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	CHLORO- BENZEME 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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 15	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.3
	DA FEB	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 22	1100	<.004	<.002	<.005	E.006	<.010	E.169	<.020	<.005	<.018	<.003	<.006	.013

E Estimated value.

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

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PASSAIC RIVER BASIN

01387014 WANAQUE RIVER AT WANAQUE AVENUE, AT POMPTON LAKES, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 22	<.005	<.002	<.004	<.035	E.070	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.006
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	2	E.004	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02	1026	9200	2200	5700	16	1015	330	100	30
09	1020	790	300	620	23	1030	490	400	150
					30	1010	170	200	160

E Estimated value.
< 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, 350 ft downstream from bridge on 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 3.

WATER-QUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
16	0800	105		.106	.082	753	76	9.2	7.7	410		6.5	83
20	0830	235		.062	.047	756	87	11.9	7.6	447	3.5	2.0	81
MAY 08	0800	70		000	0.50			- 4		-41		14.0	130
AUG	0800	72	2.3	.077	.060	762	72	7.4	7.8	541	8.0	14.0	130
02	0800	22	3.9	.077	.060	760	70	6.1	7.4	686	23.0	22.0	150
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
	1000000000	MAGNE-	POTAS-		UNFLIRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI-	AMMONIA DIS-	MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
16 FEB	23.0	6.22	1.95	36.1	60	59.4	E.1	7.3	15.3	199	192	<.030	.31
MAY	22.6	5.85	1.16	45.7	47	79.2	<.2	6.8	12.6	221	206	.090	.24
08	34.9	9.90	1.92	51.2	86	98.1	<.2	4.7	15.8	293	274	.120	.47
02	39.5	11.5	3.00	69.5	93	127	E.1	7.5	21.6	370	347	.270	.57
		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
D3.000	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
16	<.03	.28	1.65	.005	2.0	1.9	.058	.157	.158	.6	<.1	3.5	.6
FEB	100		-			384	23.5		5/212			123	
20 MAY	.10	.25	.853	.007	1.1	1.1	.058	<.050	E.035	.4	<.1	2.4	.4
08	.17	.56	1.34	.033	1.8	1.9	.200	.114	.151	E1.3	<.1	2.5	E1.3
02	.28	.74	2.65	.074	3.2	3.4	.139	.397	.460	.9	<.1	2.9	.9

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	BORON, DIS- SOLVED (UG/L AS B)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
16	5.0		39	7	
20 MAY	E1.7		19	2	
08 AUG	2.6	15.8	42	<1	
02	E1.6	25.6	78	7	

E Estimated value.

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

PASSAIC RIVER BASIN

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05	0900	460	1600	2000	16	0923	9200	1600	130
09	0927	1200	800	570	23	0915	1700	<100	200
					30	0913	3500	400	350

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

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ

LOCATION.--Lat $40^{\circ}59^{\circ}33^{\circ}$, long $74^{\circ}16^{\circ}44^{\circ}$, 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 mi2.

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. The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted:

DISSOLVED OXYGEN: Oct. 1 to Nov. 21, Dec. 21 to Jan. 18, Apr. 3 to May 15, May 31 to Jun. 18, Jun. 19 to Sept. 13, and Sept. 17 to Sept. 30.

SPECIFIC CONDUCTANCE: Nov. 8 to Nov. 21, Jan. 18 to Feb. 1, May 15 to May 31, Jul. 18 to Aug. 23, Aug. 30 to Sept. 13.

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 . --

TREMES FOR CORRENT ISLAN. -DISSOLVED OXYGEN: Maximum, 15.0 mg/L, Feb. 24; minimum, 5.7 mg/L, Aug. 10.
SPECIFIC CONDUCTANCE: Maximum, 828 uS/cm, Mar. 12; minimum, 193 uS/cm, Dec. 19.
WATER TEMPERATURE: Maximum, 29.9°C, Aug. 9; minimum, 0.4°C, Jan. 2, 3, 4, 5.

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
		OCTOBER	1	N	OVEMBER		r	ECEMBER			JANUARY	
1	9.5	9.1	9.3	14.7	11.2	12.2				14.1	13.9	14.1
2	9.4	8.7	9.1	12.9	10.8	11.7				14.2	14.0	14.2
3	9.4	8.6	8.9							14.3	14.0	14.1
4	9.4	8.6	8.9	12.1	10.8	11.3						
5	10.0	8.6	9.0	11.9	10.6	11.1						
6	10.2	8.8	9.1	12.1	10.6	11.2			242		424	
7	9.4	8.9	9.1	12.0	10.7	11.2				14.6	14.1	14.3
8	10.3	9.0	9.4	11.6	9.7	10.5				14.2	13.9	14.0
9	10.6	9.2	9.6	10.4	9.6	9.9				14.1	13.8	14.0
10	11.2	9.4	9.9	10.3	9.8	10.1				14.3	13.9	14.1
11	10.4	9.7	10.0	10.4	10.2	10.3				14.3	14.0	14.2
12	10.1	9.4	9.8	10.6	10.3	10.4				14.4	14.1	14.2
13	10.2	9.4	9.8	10.7	10.4	10.5				14.5	14.2	14.3
14	10.1	9.3	9.7	10.5	10.4	10.5				14.5	14.3	14.4
15	9.7	8.9	9.3	10.9	10.5	10.7				14.5	14.2	14.3
16	9.0	8.9	8.9	11.0	10.9	10.9	14.1	13.7	13.9	14.4	14.2	14.3
17	9.4	9.0	9.2	11.0	10.8	10.9	13.7	12.3	13.2	14.5	14.3	14.4
18	9.4	9.1	9.2	11.3	10.9	11.1	13.2	12.3	12.7	14.5	14.3	14.4
19	9.7	9.2	9.5	11.5	11.1	11.3	13.5	13.1	13.4	14.3	14.1	14.2
20	9.8	9.4	9.5	11.6	11.3	11.4	13.8	13.3	13.6	14.2	14.1	14.1
21	9.8	9.4	9.6				13.9	13.7	13.8	14.3	14.0	14.2
22	9.8	9.3	9.5				13.9	13.7	13.7	14.6	14.3	14.5
23	10.0	9.3	9.6				14.2	13.9	14.1	14.6	14.4	14.5
24	10.0	9.4	9.6				14.2	14.0	14.1	14.6	14.4	14.5
25	10.1	9.4	9.7				14.2	14.0	14.1	14.7	14.5	14.6
26	10.5	9.7	10.0				14.3	14.0	14.1	14.8	14.6	14.7
27	11.1	9.5	10.0				14.0	13.9	13.9	14.6	14.4	14.5
28	11.4	9.4	10.2				14.0	13.8	13.9	14.8	14.6	14.7
29	11.3	9.5	10.5				14.0	13.8	13.9	14.8	14.5	14.7
30	12.1	10.4	11.2				13.8	13.6	13.7	14.5	14.3	14.4
31	14.5	11.0	11.9				14.0	13.6	13.8	14.5	14.3	14.4
MONTH	14.5	8.6	9.6	14.7	9.6	10.9	14.3	12.3	13.7	14.8	13.8	14.3

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

									TEMBER 20			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	14.3	14.4	14.2	14.0	14.1				9.7	9.2	9.5
2	14.4	14.2	14.3	14.2	14.0	14.1				9.6	9.0	9.3
3	14.3	14.1	14.3	14.3	14.0	14.1				9.2	8.5	8.9
4	14.5	14.3	14.4	14.3		14.2	12.4	11.9	12.2	8.8	7.7	8.3
5	14.5	14.4	14.4	14.4	14.0	14.2	12.0	11.5	11.8	8.4	7.7	8.1
6	14.7	14.4	14.6	14.6	14.2	14.4	11.7	11.4	11.5		8.2	8.5
7 8	14.9 14.9	14.6	14.8	14.7 14.5	14.4	14.5	11.6 11.5		11.4	9.0	8.4	8.7
9	14.6	14.6	14.8	14.3	14.3	14.4	11.4	11.2	11.4	9.1 9.1	8.0	8.6
10	14.3	14.0	14.2	14.3		14.1	10.3	10.0			7.8	8.2
11 12	14.5	14.2 14.5	14.4	14.1	13.9 13.6	14.0	10.2	9.8	10.0	8.5	7.8	8.2
13	14.8	14.5	14.7	13.8	13.6	13.7	10.1	9.7	9.8	8.2		7.8
14	14.7	14.4	14.6	13.8		13.7	10.1	9.4	9.8		7.7	8.1
15	14.5	14.3	14.4	13.9	13.7	13.8	9.7	9.2	9.4	8.7	7.8	8.2
16	14.4	14.2	14.3	13.9	13.4	13.7	9.6	9.2	9.4	8.7	7.8	8.3
17	14.4	14.1	14.3	13.6	13.4	13.5	9.8	9.3	9.6	8.8		8.5
18	14.6	14.4	14.5	13.8	13.4	13.5	10.2		10.0	8.8		8.7
19 20	14.6 14.6	14.5 14.5	14.5				10.4	10.1	10.3			8.5
20	14.0	14.5	14.5				10.5	10.2	10.4			0.4
21	14.6	14.4	14.5				10.5	10.2	10.4	8.9	8.4	8.6
22	14.7	14.4	14.6				10.5	9.6	10.2	9.1	8.6	8.9
23 24	14.7	14.3	14.5				10.5		9.8	9.2	9.0 8.9	9.1
25	15.0 14.8	14.7 14.6	14.8				9.7 9.5	9.0	9.3	9.3	8.9	9.1
26	14.7	14.5	14.6				9.7	9.4	9.5	9.4	9.2	9.3
27 28	14.6 14.4	14.2 14.1	14.4				9.6		9.5 9.5	9.3	9.2	9.2
29							9.8		9.6	9.3	8.8	9.0
30							10.0	9.4	9.7	9.3	8.8	9.1
31										9.3	8.4	8.8
MONTH	15.0	14.0	14.5	14.7	13.4	14.0	12.4	9.0	10.2	9.7	7.5	8.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												-
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	8 9		8.6						7.5			
1 2	8.9 9.1	JUNE 8.4 8.7	8.6 8.9		JULY		8.1	7.0	7.5 7.1	8.0 7.9	6.5	7.1 7.2
2	9.1 9.1	8.4 8.7 9.0	8.9 9.1				8.1 7.7 7.4	7.0 6.7	7.5 7.1 6.9	8.0 7.9 8.2	6.5 6.5 6.9	7.1 7.2 7.6
2 3 4	9.1 9.1 9.1	8.4 8.7 9.0 8.9	8.9 9.1 9.0		==		8.1 7.7 7.4 7.2	7.0 6.7 6.5 6.6	7.1 6.9 6.8	8.0 7.9 8.2 8.3	6.5 6.5 6.9 7.2	7.1 7.2 7.6 7.6
2	9.1 9.1	8.4 8.7 9.0	8.9 9.1				8.1 7.7 7.4 7.2 7.2	7.0 6.7 6.5 6.6 6.3	7.1 6.9	8.0 7.9 8.2	6.5 6.5 6.9	7.1 7.2 7.6
2 3 4 5	9.1 9.1 9.1 9.1	8.4 8.7 9.0 8.9 8.7	8.9 9.1 9.0		==		8.1 7.7 7.4 7.2 7.2	7.0 6.7 6.5 6.6 6.3	7.1 6.9 6.8	8.0 7.9 8.2 8.3 8.4	6.5 6.5 6.9 7.2 6.9	7.1 7.2 7.6 7.6 7.6 7.6
2 3 4 5	9.1 9.1 9.1 9.1 9.0 8.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5	8.9 9.1 9.0 8.9 8.8 8.7	7.5	7.0 7.0	7.2 7.3	8.1 7.7 7.4 7.2 7.2 7.3 7.2	7.0 6.7 6.5 6.6 6.3	7.1 6.9 6.8 6.7 6.7	8.0 7.9 8.2 8.3 8.4	6.5 6.5 6.9 7.2 6.9	7.1 7.2 7.6 7.6 7.6 7.5
2 3 4 5 6 7 8	9.1 9.1 9.1 9.1 9.0 8.9 8.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5	8.9 9.1 9.0 8.9 8.8 8.7 8.7	7.5 7.7	7.0 7.0 6.9	7.2 7.3 7.3	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1	7.1 6.9 6.8 6.7 6.7 6.8 6.6	8.0 7.9 8.2 8.3 8.4 8.3 8.5	6.5 6.5 6.9 7.2 6.9 6.0 6.5 7.1	7.1 7.2 7.6 7.6 7.6 7.5 7.8
2 3 4 5	9.1 9.1 9.1 9.1 9.0 8.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5	8.9 9.1 9.0 8.9 8.8 8.7	7.5	7.0 7.0	7.2 7.3	8.1 7.7 7.4 7.2 7.2 7.3 7.2	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8	7.1 6.9 6.8 6.7 6.7	8.0 7.9 8.2 8.3 8.4 8.3 8.5	6.5 6.5 6.9 7.2 6.9	7.1 7.2 7.6 7.6 7.6 7.5
2 3 4 5 6 7 8 9	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.5 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3	7.0 7.0 6.9 6.5 6.6	7.2 7.3 7.3 7.0 6.9	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8	7.1 6.9 6.8 6.7 6.7 6.8 6.6 6.5	8.0 7.9 8.2 8.3 8.4 8.3 8.5 8.6 8.6	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9
2 3 4 5 6 7 8 9 10	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.5 8.4 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3	7.0 7.0 6.9 6.5 6.6	7.2 7.3 7.3 7.0 6.9	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7	7.1 6.9 6.8 6.7 6.7 6.8 6.6 6.5 6.4	8.0 7.9 8.2 8.3 8.4 8.3 8.5 8.6 8.6 8.2	6.5 6.5 7.2 6.9 6.0 6.5 7.1 7.3 7.2	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.5 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3	7.0 7.0 6.9 6.5 6.6	7.2 7.3 7.3 7.0 6.9	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8	7.1 6.9 6.8 6.7 6.7 6.8 6.6 6.5	8.0 7.9 8.2 8.3 8.4 8.3 8.5 8.6 8.6	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9
2 3 4 5 6 7 8 9 10 11 12 13 14	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0	8.4 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 8.5 8.5	7.5 7.7 7.7 7.4 7.3 7.6 7.9	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0	7.2 7.3 7.3 7.0 6.9 7.2 7.5	8.1 7.7 7.4 7.2 7.2 7.3 7.2 6.9 7.0	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9 10 11 12 13	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.6 7.9	7.0 7.0 7.0 6.9 6.5 6.6	7.2 7.3 7.3 7.0 6.9 7.2 7.5	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.2 6.9	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4 8.2 8.1	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 9.9	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3	7.2 7.3 7.3 7.3 7.0 6.9 7.2 7.5 7.6	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9 7.0	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9 10 11 12 13 14	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0	8.4 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 8.5 8.5	7.5 7.7 7.7 7.4 7.3 7.6 7.9	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0	7.2 7.3 7.3 7.0 6.9 7.2 7.5	8.1 7.7 7.4 7.2 7.2 7.3 7.2 6.9 7.0	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.6	6.5 6.9 7.2 6.9 7.3 7.3 7.3 7.3	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.0 10.5 9.7 9.5	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.2 8.1 8.3 9.2	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.5 9.9	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9 7.0 	7.0 6.7 6.5 6.6 6.3 6.1 5.8 5.7 6.3 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.3 7.3 7.3 7.3	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 10.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4 8.2 8.1 8.3 9.2 8.4 7.5 8.5	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.4 9.9 9.7 9.2 8.6 8.9	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 7.9	7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.0 6.5	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5 7.4 7.4 7.4 8.6	8.1 7.7 7.4 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7	7.0 6.7 6.5 6.6 6.3 6.1 6.1 5.8 5.7 6.3 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3	8.0 7.9 8.2 8.3 8.4 8.3 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 6.0 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.0 10.5 9.7 9.5 9.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.2 8.1 8.3 9.4 7.5 8.3	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.4 9.9 9.7 9.2 8.6 8.9	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 8.0 9.3	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1 7.9 8.0	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5 7.4 7.2 8.6 8.5	8.1 7.7 7.4 7.2 7.3 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7	7.0 6.7 6.5 6.6 6.3 6.1 5.8 5.7 6.3 6.6 6.6 6.4 6.1	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.2 6.9 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 10.9 10.5 9.7 9.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.4 8.2 8.1 8.3 9.2 8.4 7.5 8.3 7.5	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.5 8.4 9.9 9.7 9.2 8.6 8.9	7.5 7.7 7.7 7.4 7.3 7.3 7.6 7.9 8.0 7.9 7.9 7.9 7.9	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.0 6.5 7.9 8.0	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5 7.4 7.4 7.4 7.4 8.6 8.5	8.1 7.7 7.4 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6	7.0 6.7 6.5 6.6 6.3 6.1 5.8 5.7 6.3 6.6 6.6 6.4 6.3 6.3	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2 8.5 8.4	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.0 10.5 9.7 9.5 9.9	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.2 8.1 8.3 9.4 7.5 8.3	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.9 9.7 9.2 8.6 8.9 8.4	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 8.0 9.3	7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1 7.0 6.5 7.8	7.2 7.3 7.3 7.3 7.0 6.9 7.2 7.5 7.5 7.4 7.4 7.2 8.5 9.0	8.1 7.7 7.4 7.2 7.3 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6	7.0 6.7 6.5 6.6 6.3 6.1 6.4 6.1 5.8 5.7 6.3 6.6 6.6 6.4 6.3	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.2 6.9 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 10.9 10.5 9.7 9.5 9.1 8.5	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4 8.2 8.1 8.3 9.2 8.5 8.3 7.5 7.0 6.6 6.3 7.3	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.5 8.4 9.9 9.7 9.2 8.6 8.9	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 7.9 8.0 7.9	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.0 6.5 7.9 8.0	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5 7.4 7.4 7.4 7.4 8.6 8.5	8.1 7.7 7.4 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6	7.0 6.7 6.5 6.6 6.3 6.1 5.8 5.7 6.3 6.6 6.6 6.4 6.3 6.3	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8 7.0 6.9 6.6	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2 8.5 8.4	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.7 7.8 7.9 7.6 7.7 7.7
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 10.9 9.5 9.5 8.6 9.9 9.5	8.4 8.7 9.0 8.7 8.6 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.6 7.5 7.0 6.6 7.3 7.5 7.6 6.7 8.9 7.8 8.9 7.8 8.9 7.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.8 9.9 9.7 9.2 8.6 8.9 8.4 7.9 7.4 8.0 8.7	7.5 7.7 7.7 7.4 7.3 7.3 7.3 7.9 8.0 7.9 7.9 8.0 9.3 9.3 9.1 8.5 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1 7.0 6.5 7.9 8.0 8.6 7.6 7.3	7.2 7.3 7.3 7.3 7.0 6.9 7.5 7.6 7.5 7.4 7.4 7.4 7.2 8.6 8.5 9.0 8.0 7.7	8.1 7.7 7.4 7.2 7.3 7.3 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.5 7.7	7.0 6.7 6.5 6.6 6.3 6.1 5.8 5.7 6.3 6.6 6.6 6.4 6.3 6.2 6.3 6.4 6.5 6.6 6.6 6.3	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8 7.0 6.9 6.6 7.0 7.1	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2 8.5 8.4	6.5 6.9 7.2 6.9 7.2 6.9 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 10.9 10.5 9.7 9.5 9.1 8.2 7.8 8.9 9.1	8.4 8.7 9.0 8.9 8.7 8.6 8.5 8.4 8.4 8.5 8.4 8.3 9.2 8.4 7.5 8.5 7.0 6.6 7.3 8.2 8.2 8.3 7.5 8.3 7.5 8.3 7.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.7 8.9 9.7 9.2 8.6 8.9 8.4 7.4 7.0 8.7	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 7.9 7.9 8.0 9.3 9.1 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.0 6.5 7.9 8.0 8.6 7.6 7.3	7.2 7.3 7.3 7.3 7.5 6.9 7.5 7.5 7.5 7.4 7.2 8.5 9.4 8.0 8.7 7.7	8.1 7.7 7.4 7.2 7.3 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.5 7.0 7.5 7.7	7.0 6.5 6.6 6.3 6.14 6.15 5.7 6.3 6.4 6.6 6.6 6.4 6.3 6.3 6.16 6.3 6.3 6.4 6.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8 7.0 6.8 7.0	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 9.5 9.5 9.5 9.5 9.1 8.5 8.6 9.9	8.4 9.0 8.7 8.6 8.5 8.4 8.5 8.4 8.4 8.2 8.3 7.5 8.3 7.6 6.3 7.3 8.0 8.0 7.5	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 9.9 9.7 9.2 8.6 8.9 8.4 7.9 7.4 7.0 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 8.0 9.3 9.0 9.3 9.1 8.5 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1 7.1 7.0 6.5 7.9 8.0 8.6 7.6 7.6 7.3	7.2 7.3 7.3 7.3 7.5 6.9 7.5 7.6 7.4 7.2 8.6 8.0 7.7 7.4 8.0 8.0 7.7	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.6 7.5 7.7	7.0 6.5 6.6 6.3 6.4 6.1 5.7 6.3 6.4 6.6 6.6 6.4 6.6 6.6 6.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.2 6.9 7.3 7.3 7.3 	7.1 7.2 7.6 7.6 7.6 7.2 7.5 7.8 7.9 7.6 7.7 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 21 22 22 23 24 24 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 9.5 9.5 8.6 9.9 9.5 8.7 8.7 8.7	8.4 9.098.7 8.5 8.4 8.5 8.4 8.4 8.5 8.4 8.5 8.4 8.5 7.5 7.0 6.6 7.3 8.0 8.5 7.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.8 9.9 9.7 9.2 8.6 8.9 8.4 7.9 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.3 7.6 7.9 8.0 7.9 8.0 9.3 9.1 8.5 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.5 7.9 8.0 8.6 7.6 7.3 6.9 6.9	7.2 7.3 7.3 7.3 7.6 9 6.9 7.5 7.6 7.4 7.4 7.4 8.6 8.0 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4	8.1 7.7 7.4 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.5 7.7 7.9 7.8 8.2 8.2 8.2	7.0 6.5 6.6 6.3 6.1 6.1 5.8 7 6.6 6.6 6.6 6.4 6.3 6.2 6.6 6.6 6.7 6.8 6.8 7.0	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.2 8.8 9.0 9.5 9.5 9.5 9.5 9.1 8.5 8.6 9.9	8.4 9.0 8.7 8.6 8.5 8.4 8.5 8.4 8.4 8.2 8.3 7.5 8.3 7.6 6.3 7.3 8.0 8.0 7.5	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 9.9 9.7 9.2 8.6 8.9 8.4 7.9 7.4 7.0 8.7 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 8.0 9.3 9.0 9.3 9.1 8.5 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.0 7.3 7.1 7.1 7.1 7.0 6.5 7.9 8.0 8.6 7.6 7.6 7.3	7.2 7.3 7.3 7.3 7.5 6.9 7.5 7.6 7.4 7.2 8.6 8.0 7.7 7.4 8.0 8.0 7.7	8.1 7.7 7.4 7.2 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.6 7.5 7.7	7.0 6.5 6.6 6.3 6.4 6.1 5.7 6.3 6.4 6.6 6.6 6.4 6.6 6.6 6.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.2 6.9 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.2 8.8 9.0 10.9 10.5 9.7 9.5 9.1 8.5 8.2 7.8 8.9 9.5 9.7 8.9	8.4 9.0 8.7 8.6 8.5 8.4 8.4 8.4 8.4 8.4 8.5 8.4 7.5 8.7 7.6 6.3 8.2 7.5 8.2 8.2 7.5 8.6 7.6 8.6 7.6 8.6 7.6 8.6 7.6 8.6 7.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.7 8.8 9.9 9.7 9.2 8.6 8.9 8.4 7.0 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.6 7.9 8.0 7.9 7.9 8.0 9.3 9.3 9.1 8.5 8.1	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.0 6.5 7.9 8.0 8.6 7.6 7.3 6.9 7.1 7.5	7.2 7.3 7.3 7.5 7.6 9 6.9 7.5 7.6 7.4 7.2 8.6 8.0 7.7 7.4 6.9 8.0 7.7	8.1 7.7 7.4 7.2 7.3 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.5 7.5 7.7 7.9 7.8 8.2 2.7	7.0 6.5 6.6 6.3 6.14 6.18 5.7 6.6 6.6 6.6 6.4 6.3 6.2 6.6 6.3 6.3 6.4 6.3 6.3 6.4 6.5 6.5 6.5 6.6 6.5 6.6 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8 7.0 6.8 7.0 7.1	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.2 8.5 8.4	6.5 6.9 7.2 6.9 6.0 6.5 7.1 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	9.1 9.1 9.1 9.1 9.0 8.9 8.9 9.0 9.0 9.0 9.5 9.7 9.5 9.9 9.5 8.6 9.9 9.5 8.7 8.7	8.4 8.7 9.0 8.7 8.6 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.5 8.6 7.6 6.6 7.6 8.7 8.6 8.7 8.6 8.7 8.6 8.7 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.9 9.1 9.0 8.9 8.8 8.7 8.7 8.7 8.7 8.8 8.5 8.4 9.9 9.7 9.2 8.6 8.9 8.4 7.9 8.7 8.7	7.5 7.7 7.7 7.4 7.3 7.3 7.3 7.9 8.0 7.9 8.0 9.3 9.1 8.5 8.5 8.1 7.4 7.9 8.2 8.2 8.4	7.0 7.0 6.9 6.5 6.6 6.4 6.7 7.3 7.1 7.1 7.5 7.9 8.0 8.6 7.6 7.3 6.9 6.9 7.3	7.2 7.3 7.3 7.3 7.5 6.9 7.5 7.5 7.4 7.2 8.5 9.4 8.0 7.7 7.4 7.6 8.5 7.5	8.1 7.7 7.4 7.2 7.3 7.2 7.1 7.2 6.9 7.0 8.2 7.8 8.0 7.7 7.6 7.5 7.7 7.9 7.8 8.2 8.2 7.7	7.0 6.5 6.6 6.3 6.1 6.1 5.8 7 6.6 6.6 6.4 6.3 6.2 6.6 6.3 6.4 6.3 6.4 6.5 6.6 6.6 6.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6	7.1 6.9 6.8 6.7 6.8 6.6 6.5 6.4 6.6 7.5 7.1 7.3 7.0 6.8 7.0 6.6 7.0 7.1 7.3 7.2 7.4 7.5 7.1 6.8	8.0 7.9 8.2 8.3 8.4 8.5 8.6 8.6 8.6 8.2	6.5 6.9 7.2 6.9 7.2 6.9 7.3 7.2 6.9 7.3 	7.1 7.2 7.6 7.6 7.6 7.5 7.8 7.9 7.6 7.7 7.7

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1	371	368	370	508		497	309	299	305	336	328	332
2	378	371	374	512	484	499	301	291	297	338	336	338
3	379 378	373 375	375 376	506 505	481	493	293 290	290 289	291 289	341	336 337 338	338 339
5	385	376	383	518	505	512	293	290	292	348	341	344
	303	3.0	505	310	303	512	255	250		5.0		
6	399	384	390	527	518	524	295	293	294	355	348	351
7	401	393	398	532	527	530	298	295	296	362	355	358
8	402	398	400	535	532	533		298	299	372	362	366
9 10	404	400	402	536 529	529	533	304	301	302	387 402	372 387	379 394
10	414	403	400	529	511	219	304 313	304	308	402	367	354
11	434	412	424	530	521	527	321 329 336	313	317	423	402	413
12	429	418	423	529	524	526	329	321	325	453		438
13	428	420	424	525	519	522	336	329	332		423 453	472
14	437	423	430	519	509	514	336 343 383	332	336	499	483	493
15	449	423	436	509	486	497	383	343	361	509	499	504
16	449	437	445	486	470	476	410	380	393	516	509	513
17	443	437	440	470	460		419 523	379	455	522	516	520
18	441	431	435	460	450	452	379	199	262	535	522	528
19	455	441	452	451	443	447	199	193	195	556	535	544
20	461	452	455	443	423	434	523 379 199 202	194	197	575	556	567
21	474	461	469	424		422	222 234 248 262	202	214	644	575	608
22	474	465	409	422	410	416	234	222	227	673	644	665
23 24	479 486	474	477 479		404	407	248	234 248	241 254	683 700	672 683	675 696
25	485	467	479	404	403	403	262 276	262	269		697	701
				-05		-03	2.0	202	203		03.	,01
26	487	479	483	403	379	398	285	276	281	697	681	691
27	490	478	482	379	358	369	285 295	285	289	681	665	671
28	490	479	485	358	343	353	305	295	300	665 643	643	655
29	492	488	490	343	320	330	305 313 319	305	309	643	624	631
30 31	500 492	486 487	492 490	320	309	314	319	313	316	624	616	619
31	454	407	490				328	319	323	619	592	602
MONTH	500	368	437	536	309	460	523	193	296	703	328	508
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	633	599	624	F10	400		256 266	040	050	406	400	416
2	627	594	605	519 490	490 454	506 477	266	249 254	252 260	426 426	409 419	416 423
3	594	567	581	454	431	440	282	265	273	432	424	427
4	567	543	553	433	431	432	295	281	287	432	422	428
5	543	520	533	442	433	437	303	295	298	439	425	432
6	F00	F00	F00	400	440			202	200	440	420	440
7	520 500	500 496	509 497	478 522	442	457 499	314	303 314	309 318	449 457	439 449	445 453
8	538	497	515	605	522	566	324 328	324	326	464	457	460
9	560	538	550	707	605	651	333	328	329	465	463	464
10	574	560	568	750	707	737	331	305	320	467	464	466
	-	601	2.1	8.574	2.29				0.57	25.75	438	
11	588	574	581	806	745	773	305	281	291	475	467	470
12	585	574 539	577	828	806	821 763	285 291	281	282 287	479 479	473 478	475
14	539	494	515	689	611	648	300	290	295	481	478	479
15	494	457	476	613	535	571	313	295	303	496	481	489
16	457	437	445	535	461	495	330	306	316	500	496	499
17	437	431	433	461	398	425	333	318	327	505	500	503
18	462	435	449	400	368	386	346	331	339	511	504	507
19 20	465 465	461 458	463 462	368 355	354 348	361 352	349	341 347	344	518 520	509 517	513 518
20	405	430	402	333	340	352	353	347	350	520	317	310
21	458	439	448	351	333	344	362	351	356	521	519	520
22	439	425	431	333	253	300	368	360	364	519	512	516
23	425	415	419	253	231	236	382	364	374	530	511	520
24 25	419 450	416 419	418 429	248 258	235	242	388	382	384	538	530 525	536
					248	254	388	386	387	533		528
26 27	506 550	450	471	270	258	264	388	387	387	525	506	515
28	542	506 519	537 534	294 311	270 293	283 301	392 399	388 392	389 396	506 486	486 467	497 476
29		319		321	310	316	405	399	403	467	450	458
30				326	298	319	410	405	408	450	435	441
31				298	252	272				437	428	432
MONTH	633	415	507	828	231	449	410	249	332	538	409	477

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST			SEPTEMBE	iR.
1	428	410	424			122	466	443	458	514	493	504
2	411	301	374				457	442	450	501	491	495
3	301	239	256				476	453	465	497	488	494
4	239	220	226				472	447	461	493	483	489
5	232	222	226				457	443	452	489	483	486
6	244	229	237	372	362	366	458	443	450	493	486	489
7	262	242	251	393	372	382	459	454	456	495	491	493
8	278	262	271	393	385	390	476	459	470	499	490	495
9	293	278	286	396	391	394	486	474	479	500	497	499
10	309	293	302	398	393	396	486	471	478	501	495	499
11	329	309	316	397	393	395	493	479	485	499	492	495
12	336	326	331	397	394	395				499	495	498
13	355	333	345	398	394	397				501	496	498
14	375	355	364	402	398	400				498	488	492
15	392	375	383	405	402	403				488	488	488
16	400	392	396	409	405	407	517	500	510	495	486	489
17	395	350	372	413	409	411	521	512	518	500	489	496
18	350	334	341	422	413	417	521	509	516	502	493	499
19	336	326	329	427	422	424	522	501	512	503	491	494
20	332	325	329	435	427	431	510	492	503	498	489	494
21	331	327	329	443	434	438	511	490	500	492	488	491
22	340	330	335	455	442	445	499	489	493	496	488	491
23	346	331	338	469	455	460	505	496	500	495	489	491
24	335	255	289	482	467	473	515	503	508	495	489	490
25	255	235	243	483	470	477	517	509	514	518	495	508
26	241	235	238	471	466	468	512	508	510	517	504	510
27	252	238	245	477	466	472	516	504	512	514	510	513
28	262	248	256	477	469	474	512	503	507	514	510	512
29	283	261	272	480	470	474	508	486	501	514	508	511
30	295	277	285	482	470	477	498	484	489	511	506	508
31				474	458	466	517	493	509			
MONTH	428	220	306	483	362	428	522	442	489	518	483	497
YEAR	828	193	431									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	1	N	OVEMBER		DI	ECEMBER			JANUARY	
1	16.5	15.5	16.0	10.5	10.0	10.5	5.0	4.5	5.0	1.0	.5	.5 .5
2	18.5	16.0	17.0	10.5	10.0	10.0	4.5	3.5	4.0	.5	.5	.5
3	18.5	16.5	17.5	11.0	10.0	10.5	3.5	3.5	3.5	.5	.5	.5
4	18.0	17.0	17.5	11.0	10.5	10.5	3.5	3.0	3.5	.5	.5	.5
5	18.0	17.0	17.5	11.0	10.0	10.5	3.5	3.5	3.5	.5	.5	.5
6	17.0	17.0	17.0	10.5	10.0	10.0	4.0	3.5	4.0	.5	.5	.5
7	17.0	16.0	16.5	10.0	9.5	10.0	4.0	3.5	3.5	.5	.5	.5
8	16.0	15.5	15.5	10.0	9.5	10.0	3.5	3.0	3.5	.5	.5	.5
9	15.5	14.5	15.0	10.5	10.0	10.0	3.0	3.0	3.0	.5	.5	.5
10	14.5	13.0	13.5	10.5	10.0	10.0	3.0	3.0	3.0	.5	.5	.5
11	13.5	12.5	13.0	10.5	10.5	10.5	3.0	3.0	3.0	1.0	.5	1.0
12	15.0	13.0	13.5	10.5	10.0	10.0	3.0	3.0	3.0	1.0	1.0	1.0
13	14.5	13.0	13.5	10.0	10.0	10.0	3.0	2.0	2.0	1.0	1.0	1.0
14	14.5	13.0	13.5	10.0	9.5	10.0	2.5	2.0	2.5	1.0	1.0	1.0
15	16.0	14.0	15.0	9.5	9.0	9.5	2.5	2.5	2.5	1.0	1.0	1.0
16	16.0	15.0	15.5	9.0	8.5	8.5	3.0	2.5	2.5	1.5	1.0	1.0
17	15.0	14.5	15.0	8.5	8.0	8.5	5.5	2.5	3.5	1.5	1.0	1.5
18	14.5	14.0	14.5	8.0	7.5	8.0	5.5	3.5	5.0	1.5	1.5	1.5
19	14.0	14.0	14.0	7.5	7.0	7.5	3.5	3.0	3.0	2.0	1.5	2.0
20	14.0	13.5	13.5	7.0	6.5	6.5	3.0	2.5	2.5	2.0	2.0	2.0
21	13.5	13.0	13.5	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.5	2.0
22	14.0	13.5	13.5	5.5	4.5	5.0	2.0	1.5	2.0	1.5	1.5	1.5
23	13.5	13.0	13.5	4.5	3.0	4.0	1.5	1.0	1.0	1.5	1.0	1.5
24	13.5	13.0	13.0	3.5	3.0	3.0	1.5	1.0	1.5	1.0	1.0	1.0
25	14.5	13.0	13.5	3.5	3.5	3.5	1.5	1.0	1.0	1.0	1.0	1.0
26	14.0	13.5	13.5	4.0	3.5	3.5	1.5	1.0	1.0	1.0	1.0	1.0
27	14.5	13.5	13.5	4.5	3.5	4.0	1.5	1.5	1.5	1.0	1.0	1.0
28	14.0	13.0	13.5	4.5	4.5	4.5	1.5	1.0	1.5	1.0	1.0	1.0
29	13.0	11.5	12.5	5.0	4.5	5.0	1.5	1.0	1.5	1.5	1.0	1.0
30	11.5	11.0	11.0	5.0	5.0	5.0	1.5	1.0	1.5	1.5	1.0	1.5
31	11.0	10.5	10.5				1.0	1.0	1.0	1.5	1.5	1.5
MONTH	18.5	10.5	14.4	11.0	3.0	7.8	5.5	1.0	2.6	2.0	.5	1.0

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
D		FEBRUARY		-	MARCH			APRIL			MAY	
				20.3		2.72			5.0	17.5	15.0	16.5
1	2.0	1.5	1.5	3.0	3.0	3.0	5.0 5.5	5.0	5.0	19.0		17.5
2	2.0	2.0	2.5	3.0	3.0	3.0	6.5		6.0	20.0	18.5	19.0
4	2.0	2.0	2.0	3.0		3.0	7.5	6.5	7.0	24.0	20.0	22.0
5	2.0	1.5	1.5	3.0	2.0	2.5	9.0	7.5	8.0	23.5	20.5	22.0
6	1.5	1.0	1.5	2.0 2.5 3.0 3.5	1.5	1.5	8.5	8.5	8.5 8.5	21.0	19.0	20.0
7	1.0	1.0	1.0	2.5	1.5	2.0	8.5	8.0	8.5	20.0 19.0	18.5 18.0	19.0 18.5
	1.5	1.0	1.5	3.0	3.0	2.5	8.5 10.5	8.0	8.0 8.5	22.0	18.5	20.0
9 10	2.0	1.5	2.0	3.5	3.0	3.5	12.0	10.0	11.0	22.0	19.5	21.0
11	2.5	2.5	2.5	4.0	3.5	4.0	12.0	11.0	11.5	21.5	19.5	20.5
12	2 5	2 0	2.0	4.5	3.5	4.0	11.0			22.0	20.5	21.0
13	2.0	1.5	2.0	4.5	3.5 4.0 4.0	4.5	11.5		11.0	22.0	21.0	21.5
14	2.0	2.0	2.0	4.5	4.0	4.0	12.0 13.5	11.0	11.5 12.5	20.5	19.5	19.5
							12.0	12.5	13.0	19.5	19.0	19.0
16 17	2.5 3.0	2.5	2.5	5.0 5.5		4.5 5.5 5.0 5.0	13.0 13.0	12.0	10 E	10 0	18.0	18.5
	2.5		2.5		5.0	5.0	12.0	11.5			17.5	17.5
19	2.5	2.0	2.5	5.5	4.5	5.0		11.0	11.5	20.0	17.5	
20	2.5	2.0	2.0	6.0	5.0	5.5	11.5	11.0	11.5		18.5	19.5
21	2.5	2.0	2.5	6.0	5.5	6.0			12.0		18.0	18.5
22	2.5	2.5	2.5	5.5	4.5	5.0	15.5		13.0 15.0	18.0 17.5	17.5 17.0	17.5
23 24	2.5	2.0	2.5	5.0	4.5	5.0 4.5 5.0	16.0	15.0	16.5	17.5 19.5	16.5	17.5
25	2.0	2.0	2.0	5.5	4.5	5.0	18.0	15.5	16.5	18.5	17.0	17.5
26	2.5	2.0	2.0	5.0 4.5	4.5	4.5	17.0	15.0	16.0		16.5	16.5
27	3.0	2.5	2.5	4.5	3.5	4.0	17.0	15.5	16.0	16.5	16.5	16.5
28	3.0	3.0	3.0	5.5	4.0	4.5	16.5	15.5	16.0	18.5 19.5	16.5 17.5	17.0 18.5
29				5.5 5.0	5.0	5.0	17.0 17.0	15.0 15.0	16.0 15.5	19.0	17.5	18.0
30 31				5.0	4.5	5.0				18.5	17.0	17.5
MONTH	3.0	1.0	2.1	6.0	1.5	4.1	18.0	5.0	11.5	24.0	15.0	18.9
							1000	44.0	900432			1477337
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN		MIN AUGUST			MIN SEPTEMBE	
		JUNE			JULY	MEAN						ER 25.0
DAY 1 2	MAX 18.0 17.5		MEAN 17.5 17.0	MAX			26.0 26.0	AUGUST 24.5 25.0	25.0 25.5	25.5 25.5	24.0 24.0	25.0 24.5
1 2 3	18.0 17.5 17.0	JUNE 17.5 16.5 15.5	17.5 17.0 16.5	===	JULY		26.0 26.0 25.5	AUGUST 24.5 25.0 24.5	25.0 25.5 25.0	25.5 25.5 24.0	24.0 24.0 23.0	25.0 24.5 23.5
1 2 3 4	18.0 17.5 17.0 18.0	JUNE 17.5 16.5 15.5 16.5	17.5 17.0 16.5 17.0	===	JULY		26.0 26.0 25.5 26.0	24.5 25.0 24.5 25.0	25.0 25.5 25.0 25.5	25.5 25.5 24.0 24.0	24.0 24.0 23.0 22.5	25.0 24.5 23.5 23.5
1 2 3	18.0 17.5 17.0	JUNE 17.5 16.5 15.5	17.5 17.0 16.5 17.0 18.0	===	JULY	=======================================	26.0 26.0 25.5 26.0 28.5	24.5 25.0 24.5 25.0 25.0	25.0 25.5 25.0 25.5 26.5	25.5 25.5 24.0 24.0 24.5	24.0 24.0 23.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5
1 2 3 4 5	18.0 17.5 17.0 18.0 19.5	JUNE 17.5 16.5 15.5 16.5 17.0	17.5 17.0 16.5 17.0 18.0	 24.5	JULY	=======================================	26.0 26.0 25.5 26.0 28.5	AUGUST 24.5 25.0 24.5 25.0 25.0 26.5	25.0 25.5 25.0 25.5 26.5	25.5 25.5 24.0 24.0 24.5	24.0 24.0 23.0 22.5 23.0 23.0	25.0 24.5 23.5 23.5 23.5 23.5
1 2 3 4 5	18.0 17.5 17.0 18.0 19.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0	17.5 17.0 16.5 17.0 18.0	 24.5 24.0	JULY 23.5 22.5	24.0 23.0	26.0 26.0 25.5 26.0 28.5	24.5 25.0 24.5 25.0 25.0 25.0 25.0	25.0 25.5 25.0 25.5 26.5	25.5 25.5 24.0 24.0 24.5	24.0 24.0 23.0 22.5 23.0 22.0	25.0 24.5 23.5 23.5 23.5 23.5
1 2 3 4 5	18.0 17.5 17.0 18.0 19.5 20.5 22.0 22.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5	17.5 17.0 16.5 17.0 18.0	24.5 24.0 23.5	JULY 23.5 22.5 23.0	24.0 23.0	26.0 26.0 25.5 26.0 28.5	24.5 25.0 24.5 25.0 25.0 25.0 25.0 26.5 27.0 27.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5	25.5 25.5 24.0 24.5 25.0 23.0 23.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5
1 2 3 4 5	18.0 17.5 17.0 18.0 19.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0	17.5 17.0 16.5 17.0 18.0	 24.5 24.0	JULY 23.5 22.5	=======================================	26.0 26.0 25.5 26.0 28.5	AUGUST 24.5 25.0 24.5 25.0 25.0 26.5 27.0 27.5 28.5	25.0 25.5 25.0 25.5 26.5	25.5 25.5 24.0 24.5 25.0 23.0 23.0 23.5	24.0 24.0 23.0 22.5 23.0 22.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5
1 2 3 4 5 6 7 8 9	18.0 17.5 17.0 18.0 19.5 20.5 22.0 22.0 23.0 22.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5	24.5 24.0 23.5 26.5 25.5	JULY 23.5 22.5 23.0 22.5	24.0 23.0	26.0 26.0 25.5 26.0 28.5	AUGUST 24.5 25.0 24.5 25.0 25.0 26.5 27.0 27.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.0 23.5 24.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10	18.0 17.5 17.0 18.0 19.5 20.5 22.0 22.0 23.0 22.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5 21.0 22.0	24.5 24.0 23.5 26.5 25.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0	24.0 23.0 23.0 24.5 24.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 27.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.0 23.5 24.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.0 23.5 22.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5 21.5 21.5 22.0 22.0 24.0	24.5 24.0 23.5 26.5 25.5 25.5 24.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 27.5 28.5 28.5	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5	25.5 25.5 24.0 24.5 25.0 23.0 23.0 23.5 24.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10	18.0 17.5 17.0 18.0 19.5 20.5 22.0 22.0 23.0 22.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5 21.0 22.0	24.5 24.0 23.5 26.5 25.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0	24.0 23.0 23.0 24.5 24.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0	24.5 25.0 24.5 25.0 25.0 25.0 27.0 27.5 28.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.0 23.5 24.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.0 17.5 17.0 18.0 19.5 20.5 22.0 22.0 22.5 22.0 23.5 22.5 24.5 24.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 20.5 21.0 22.5 23.0 22.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5 21.0 22.0 24.0 24.0 23.0	24.5 24.0 23.5 26.5 25.5 25.5 24.5 24.5 24.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.0	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 24.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0	24.5 25.0 24.5 25.0 25.0 25.0 27.0 27.5 28.5 28.5	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5	25.5 25.5 24.0 24.5 25.0 23.0 23.0 23.5 24.0 24.5 24.5 24.5 24.0 23.5	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 24.0 23.5 23.0 22.5 23.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 22.0 23.5 24.5 24.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.0 22.0 24.0 24.0 23.0	24.5 24.0 23.5 26.5 25.5 25.5 24.5 24.5 24.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 23.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0 28.5	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 27.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 23.5 22.5 22.5 22.5 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 25.5 24.5 24.0 26.0 25.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 24.5 23.0	24.5 24.0 23.5 26.5 25.5 25.5 24.5 24.5 24.5 24.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0 23.5 23.0 23.0 23.0	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 23.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 27.5 28.5 28.5 27.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 	25.5 25.5 24.0 24.0 23.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 23.0 22.0 22.0 23.0 23.0 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 23.0 23.5 24.0 23.5 23.0 22.5 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 22.0 23.5 24.5 24.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.0 22.0 24.0 24.0 23.0	24.5 24.0 23.5 26.5 25.5 25.5 24.5 24.5 24.5	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 24.0 23.5 23.5 23.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0 28.5 	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 27.5 28.5 27.5 28.5 28.5	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 25.5 26.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 22.5 23.0 23.5 22.5 23.5 22.5 22.5 23.5 22.5 22.5 23.5 22.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 22.5 24.5 24.5 24.0 25.0 25.0 23.0	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 22.5 22.0 21.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 21.5 21.0 22.0 24.0 23.0 24.0 23.0 24.5 23.0 22.0	24.5 24.0 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 26.0 26.0	JULY 23.5 22.5 23.0 22.5 23.0 24.0 23.5 23.0 23.0 23.5 23.0	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 24.5 24.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 29.0 28.5 	24.5 25.0 24.5 25.0 25.0 26.5 27.0 27.5 28.5 28.5 27.5 27.5 28.5	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 	25.5 25.5 24.0 24.0 23.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 23.0 22.0 22.0 23.0 23.0 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 23.0 23.5 24.0 23.5 23.0 22.5 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.0 25.0 23.0 23.0 25.5 24.5 24.5 24.5 25.5 25.5	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 20.5 20.0 20.5 21.0 22.5 23.0 22.0 21.5 22.0 23.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.0 22.0 24.0 24.0 23.0 24.5 23.0 22.5 24.0	24.5 24.5 24.5 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 26.0 26.0 26.0 27.0	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.0 23.0 23.5 24.0 25.5 24.0 25.5 24.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 23.5 24.0 25.5 25.0 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.5 30.0 29.0 28.5 26.5 26.0 26.0 26.5 27.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.5 23.0 23.0 22.5 23.0 23.0 20.5 20.5 20.5 20.5 20.5	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 23.0 23.5 22.5 23.0 23.5 22.5 23.0 23.5 23.5 22.5 23.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 25.5 24.5 24.0 26.0 23.0 23.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 20.5 21.0 22.5 22.0 21.5 22.0 23.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 24.5 23.0 22.0 24.0 23.0	24.5 24.0 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 24.5 26.0 26.0 26.0 27.0	JULY 23.5 22.5 23.0 24.0 24.0 23.5 23.0 24.0 24.0 25.0 24.5 24.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.5 25.0 25.5 26.0 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 30.0 29.0 28.5 26.5 26.0 26.0 26.5 27.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 28.5 28.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0 26.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 24.5 24.5 22.0 23.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 23.5 22.5 23.0 23.5 23.5 22.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 25.5 24.0 23.0 23.0 23.0 23.5 25.5 24.0 25.0 23.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	JUNE 17.5 16.5 15.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.5 23.0 21.5 22.0 23.5 24.0 23.5 23.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 22.0 23.0 22.5 24.0 22.5 24.0 23.0 22.5 24.0 23.0	24.5 24.0 23.5 25.5 25.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 24.0 24.0 23.5 23.0 24.0 23.5 24.0 23.5 24.5 24.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.0 25.5 25.0 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.0 26.5 27.0	24.5 25.0 24.5 25.0 25.0 25.0 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.5 23.0 23.0 22.5 23.0 23.0 20.5 20.5 20.5 20.5 20.5	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 23.0 23.5 22.5 23.0 23.5 22.5 23.0 23.5 23.5 22.5 23.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 25.5 24.5 24.0 26.0 23.0 23.0 25.0 23.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 20.5 21.0 22.5 22.0 21.5 22.0 23.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 24.5 23.0 22.0 24.0 23.0	24.5 24.0 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 24.5 26.0 26.0 26.0 27.0	JULY 23.5 22.5 23.0 24.0 24.0 23.5 23.0 24.0 24.0 25.0 24.5 24.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.5 25.0 25.5 26.0 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 30.0 29.0 28.5 26.5 26.0 26.0 26.5 27.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 28.5 28.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0 26.0	25.5 25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0 23.5 22.5 23.0 21.0 21.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.0 22.5 23.0 23.0 22.0 22.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.0 22.0 22.0 22.0 22.5 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 22.5 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.0 23.0 23.5 25.5 24.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.0 22.0 24.0 23.0 24.0 23.0 22.5 24.0 22.5 24.0 22.5 24.0	24.5 24.5 24.5 23.5 25.5 25.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.0 24.0 24.5 24.5 24.5 24.5 26.0	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 23.5 25.0 25.5 25.0 25.5 25.0 25.5 27.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.5 27.0 26.5 27.5 26.5 27.5	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 29.0 28.5 29.0 26.0 25.5 26.0 26.0 26.0 26.0 25.5 26.0 26.0	25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 23.5 24.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.0 24.0 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 23.0 23.5 24.0 23.5 23.0 23.5 24.0 23.5 23.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 22.5 25.5 24.5 24.0 23.0 23.0 22.5	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 22.0 22.5 22.0 21.5 22.0 23.5 24.0 23.5 23.0 21.5 23.0 22.5 23.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.0 22.0 24.0 23.0 24.0 23.0 24.0 23.0 24.0 23.0 22.0 22.0 22.0 22.0 22.0 23.0 22.0 22	24.5 24.0 23.5 25.5 25.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 24.5 24.5 24.5 24.5 24.5 26.0 26.5 25.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 30.0 29.0 28.5 26.5 26.0 26.5 27.0 26.5 27.5 26.5 27.5 26.0 27.5 28.5 29.0	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.0 28.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 28.5 29.0 20.0	25.5 25.5 24.0 24.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0 23.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 21.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.5 22.5 22.5 23.5 23.5 22.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.0 23.0 23.5 25.5 24.0 23.0 23.0 23.0 23.0 23.0 24.0 23.0 23.0 24.0 25.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 23.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 22.0 23.0 22.5 24.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	24.5 24.0 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 24.0 23.5 23.0 24.0 23.5 24.0 23.5 24.0 25.0 24.5 24.5 24.5 26.0 26.5 26.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.0 26.5 27.5 26.5 27.5 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 20.0 20	24.5 25.0 24.5 25.0 25.0 25.0 27.5 28.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28	25.5 25.5 24.0 24.0 23.0 23.0 23.5 24.0 24.5 24.5 24.0 23.5 22.0 23.5 22.0 23.5 22.0 23.0 23.5 22.0 23.0 23.5 22.0 23.0 23.0 23.0 23.5 24.0 24.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 22.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.5 23.0 23.5	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 21.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 23.0 23.5 21.5 21.5 22.0 21.5 21.5 21.5 21.5 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 21 22 23 24 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 24.5 24.0 25.5 24.0 23.0 23.5 25.5 24.0 23.0 23.5 24.0 23.0 23.5 24.0 25.5 24.0 25.5 24.0 25.5 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 22.0 22.0 22.5 22.0 21.5 22.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0	17.5 17.0 16.5 17.0 18.0 19.5 21.5 21.5 21.5 22.0 24.0 23.0 24.0 22.5 24.0 22.5 24.0 22.0 22.5 24.0 22.0 22.5 22.0 22.5 22.0 22.0 22.0 22	24.5 24.5 24.5 23.5 25.5 25.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 23.5 24.0 24.5 24.5 24.5 25.0 24.5 26.0 26.5 25.5 26.0	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 23.5 25.0 25.5 25.0 25.5 27.0 27.5 26.0 25.5 27.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.5 27.0 26.5 27.5 26.5 27.5 26.0 26.5 27.5 26.0 26.0 26.0 26.0 26.0 26.0 27.5 27.5 28.5 29.0 29.0 29.0 20	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 29.0 28.5 29.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.5 26.5 26.5	25.5 25.5 24.0 24.0 23.0 23.5 24.0 24.5 24.5 24.5 22.0 23.5 22.0 23.5 22.0 23.5 22.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 22.0 22.5 23.0 21.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.5 22.5 22.5 23.5 23.5 22.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.0 23.0 23.5 25.5 24.0 23.0 23.0 23.0 23.0 23.0 24.0 23.0 23.0 24.0 25.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 23.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 22.0 23.0 22.5 24.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	24.5 24.0 23.5 26.5 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 24.0 23.5 23.0 24.0 23.5 24.0 23.5 24.0 25.0 24.5 24.5 24.5 26.0 26.5 26.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 24.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.0 26.5 27.5 26.5 27.5 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 20.0 20	24.5 25.0 24.5 25.0 25.0 25.0 27.5 28.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.0 25.5 26.5 27.0 27.5 28.5 29.0 28.5 28.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28	25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 23.5 24.0 23.5 22.0 23.5 22.0 21.0 21.0 21.5 22.5 22.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 22.0 22.5 23.0 21.0 22.0 21.0 21.0 21.0 21.0 21.0 21	25.0 24.0 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 23.0 23.5 24.0 23.5 23.0 23.5 24.0 23.5 23.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 31	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.0 23.0 23.5 25.5 24.0 23.0 23.5 25.5 24.0 23.0 23.0 23.0 23.0 23.0 23.0 24.0 25.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 22.5 22.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.0 22.0 24.0 23.0 24.0 23.0 22.5 24.0 22.0 24.0 22.5 24.0 22.5 24.0 22.5 22.0	24.5 24.0 23.0 23.5 25.5 25.5 24.5 24.5 24.5 24.5 24.5 24	JULY 23.5 22.5 23.0 22.5 23.0 24.0 24.0 23.5 23.0 24.5 24.5 24.5 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 25.0 25.5 25.0 25.5 25.0 25.5 27.0 27.5 26.0 25.5 27.0 27.5 26.0 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25	26.0 26.0 25.5 26.0 28.5 27.5 28.5 30.0 29.0 28.5 26.5 26.0 26.5 27.0 26.5 27.5 26.5 27.5 26.0 26	24.5 25.0 24.5 25.0 25.0 26.5 27.0 28.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 29.0 28.5 29.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 27.5 28.5	25.5 25.5 24.0 24.0 23.0 23.5 24.0 23.5 24.5 24.5 23.5 22.0 23.5 22.0 23.5 22.0 23.0 23.5 22.0 23.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5 22.0 23.0 23.5 22.0 23.0 23.0 23.0 23.0 23.5 22.0 23.0 23.0 23.0 23.0 23.5 22.0 23.0	24.0 24.0 23.0 22.5 23.0 22.5 23.0 22.0 22.0 22.5 23.0 23.0 22.0 23.0 22.5 23.0 23.0 22.0 21.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.5 23.5 22.5 23.0 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30 20 20 20 20 20 20 20 20 20 20 20 20 20	18.0 17.5 17.0 18.0 19.5 20.5 22.0 23.0 22.5 25.5 24.5 24.5 24.0 23.0 23.5 25.5 24.0 23.0 23.0 23.0 23.0 24.5 24.0 23.0 23.0 23.0 24.0 25.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	JUNE 17.5 16.5 16.5 17.0 18.5 19.0 19.5 20.0 20.5 21.0 22.5 23.0 22.0 21.5 23.0 23.5 24.0 23.5 23.0 21.5 24.0 23.5 24.0 23.5 24.0 24.5 24.5	17.5 17.0 16.5 17.0 18.0 19.5 20.5 21.5 21.5 21.5 22.0 24.0 23.0 24.5 23.0 22.5 24.0 24.0 22.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.5 24.5 24.5 25.5 25.5 25.5 24.5 24.5	JULY	24.0 23.0 23.0 24.5 24.0 24.5 24.0 23.5 23.5 25.0 25.5 25.0 25.5 25.0 25.5 27.0 27.5 26.0 25.5 27.0 27.5 26.0 25.5 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.5 25.0 25.0	26.0 26.0 25.5 26.0 28.5 27.5 28.5 29.0 28.5 26.5 26.0 26.5 27.0 26.5 26.5 27.5 26.5 26.5 27.5 26.0 26.5 27.5 26.0 26	24.5 25.0 24.5 25.0 25.0 25.0 26.5 27.5 28.5 28.5 27.5 28.5 28.5 27.5 28.5 28.5 28.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28	25.0 25.5 25.5 26.5 27.0 27.5 28.5 29.0 28.5 29.0 28.5 29.0 26.0 25.5 26.0 26.0 26.0 26.0 26.0 26.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5 29.0 26.0	25.5 24.0 24.0 24.5 25.0 23.0 23.5 24.0 23.5 24.0 23.5 22.0 23.5 22.0 23.0 23.5 22.0 23.5 22.0 21.0	24.0 24.0 23.0 22.5 23.0 22.0 22.0 22.0 22.5 23.0 23.0 22.0 23.0 23.0 23.0 23.0 23.0	25.0 24.5 23.5 23.5 23.5 22.5 22.5 22.5 23.0 23.5 22.5 23.0 23.5 24.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0



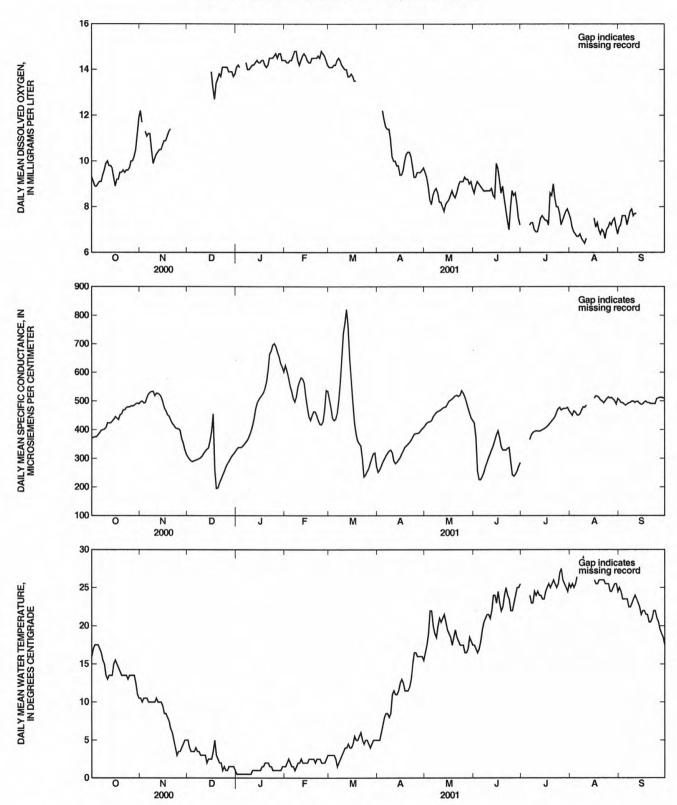


Figure 33. Physical characteristics and concentrations of constituents measured at 01388000 Ramapo River at Pompton Lakes, water year 2001.

PASSAIC RIVER BASIN 01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

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 measurements from the water-quality monitor at the station, Ramapo River at Pompton Lakes, NJ.

May 31, 2001

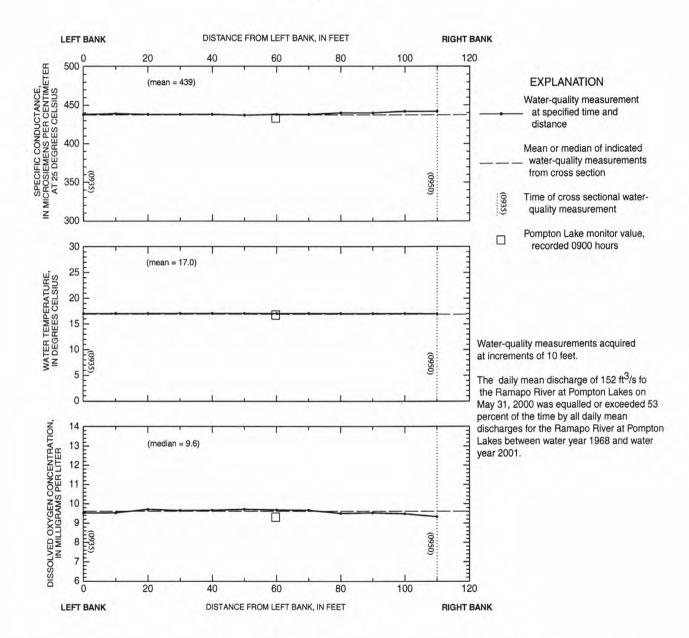


Figure 34. Cross sectional water-quality measurements with recorded monitor values, at Ramapo River at Pompton Lakes, May 31, 2001.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ

LOCATION.--Lat 40°58'09", long 74°16'56", Passaic County, Hydrologic Unit 02030103, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 3.

TATA (TITLE TO	OTTAT TITLE	Dama	TATA OTTESTS	THE ST	COMODED	2000	mo	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
FEB	1000	135		.076	.059	757	90	11.1	7.7	417		6.0	110
14 MAY	1000	491		.070	.053	766	99	13.8	7.8	495	7.0	2.0	82
10	1000	146	4.0	.066	.050	763	93	8.7	8.0	431		18.5	110
06	1030	42	19	.066	.049	766	76	7.1	7.8	448	21.0	19.0	110
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLIRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	SOLVED (MG/L AS CL) (00940)	SOLVED (MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	SOLVED (MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
21 FEB	30.0	8.08	1.95	34.9	67	63.2	E.1	8.0	22.3	218	216	.080	.31
14	23.0	5.95	1.78	60.8	44	104	<.2	6.7	14.9	269	248	<.030	. 24
10	29.3	8.10	1.82	40.2	67	78.5	E.1	3.5	18.4	247	223	<.030	.34
06	29.1	9.23	2.32	41.4	66	82.7	E.1	6.4	19.9	246	234	.030	.28
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
21 FEB	.07	.47	1.73	.011	2.0	2.2	<.022	.039	.058	.5	<.1	2.6	.4
14 MAY	<.03	.26	.971	.006	1.2	1.2	.070	.041	.025	.4	<.1	2.4	.4
10	<.03	.62	.729	.021	1.1	1.4	.272	.007	.055	1.7	E.00	3.0	E1.7
06	<.03	1.0	.722	.003	1.0	1.7	.364	.009	.088	2.0	<.1	3.1	2.0

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	E1.1		64	<1
FEB				
14	E1.3		27	4
MAY				
10	2.8	28.4	48	1
SEP				
06	3.3	102	75	17

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL	1000	-2500			JUL			444	22
02	1055	2800	900	740	16	1100	170	600	50
09	1040	700	<100	290	23	1045	130	200	30
					30	1025	330	600	90

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

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ

LOCATION.--Lat 40°55'35", long 74°17'35", Morris County, Hydrologic Unit 02030103, at bridge on Ryerson Road in Lincoln Park, 643 ft north of intersection of Ryerson Road and Park Avenue, and 0.3 mi upstream of mouth.

DRAINAGE AREA. -- 13.1 mi2.

PERIOD OF RECORD. -- December 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 3.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
DEC													
13 FEB	1150	4.0		.297	.232	773	84	12.1	7.4	390		1.0	120
21 MAY	1000	24		.202	.155	757	85	11.4	7.3	377	7.0	3.0	100
03 AUG	1310	8.7		.221	.171	762	105	9.9	7.6	411	34.0	18.0	120
23	1020	1.3	11	.271	.208	756	61	5.5	6.8	471	24.0	20.0	120
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
DEC													
13 FEB	33.7	9.09	1.52	25.9	78	46.3	E.1	14.0	35.9	233	215	.180	.47
21 MAY	28.6	7.58	1.22	26.2	57	55.8	<.2	11.9	29.1	209	197	.190	.28
O3	34.5	8.94	1.73	27.1	82	55.6	E.1	10.2	27.1	247	216	<.030	.32
23	34.5	9.01	3.07	39.6	87	75.9	E.1	12.2	26.2	280	257	.080	.44
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
DEC	deline.	100000000000000000000000000000000000000		***************************************				4012.50.50		162020		222425	Para Contract
13 FEB	.15	. 57	.346	.007	.81	.92	.073	.014	.033	.6	<.1	6.0	.6
21 MAY	.14	.35	. 627	<.003	.90	.98	<.022	.009	.024	.4	<.1	4.3	.4
03 AUG	.04	.43	.362	.010	.68	.79	.072	.008	.032	E.7	<.1	4.6	E.7
23	.12	.51	1.02	.013	1.5	1.5	.088	.010	.046	.6	<.1	5.4	.6

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC				
13	E1.7		46	4
21	<1.0		40	5
MAY		V2 6	44	
03	E1.3	13.3	44	7
AUG				-
23	<1.0	2.20	53	5

E Estimated value.

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

PASSAIC RIVER BASIN

01388720 BEAVER DAM BROOK AT RYERSON ROAD, AT LINCOLN PARK, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN			225	
23	0930	1300	1800	400	06	0910	1300	600	710
30	0900	790	700	1900	13	0924	1100	400	820
					19	0930	3500	1400	1400

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, 400 ft downstream from the Pompton River in Two Bridges.

DRATNAGE AREA . -- 734 mi2

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. -- Water years 2000 to current year.

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. The calibration of water quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following period were adjusted:

DISSOLVED OXYGEN: Oct. 11 to Nov. 21, Feb. 27 to Mar. 19, Apr. 3 to Apr. 23, Jul 3 to Jul. 18.

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, from right and middle on July 25, 2001; 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, 20.0 mg/L from middle and right intakes, July 25; minimum, 3.8 mg/L from middle intake, Nov. 12, June 21.

SPECIFIC CONDUCTANCE: Maximum, 1,370 uS/cm from right intake, Jan. 11; minimum, 147 uS/cm from right intake, June 18.

WATER TEMPERATURE: Maximum, 30.1°C from middle intake, Aug. 9; minimum, 0.0°C from left intake, Dec. 30, 31.

OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1	10.4	9.3	9.9	10.9	9.2	9.7	12.3	11.6	12.0	14.4	13.8	14.1
2	10.7	9.0	9.9	11.2	9.4	10.0	12.8	12.1	12.4	14.8	12.4	13.9
3	11.0	8.7	9.8	11.0	9.2	10.0	13.3	12.8	13.0	14.9	14.7	14.8
4	11.3	8.4	9.6	11.2	9.2	10.1	13.6	13.3	13.4	14.7	14.5	14.6
5	10.0	7.5	8.8	11.3	9.2	10.1	13.5	13.1	13.3	14.5	14.3	14.4
6	8.6	7.4	8.0	10.8	9.0	9.7	13.3	13.0	13.2	14.3	14.1	14.1
7	9.4	7.9	8.6	10.2	8.9	9.6	13.5	11.7	12.9	14.2	14.0	14.1
8	10.4	8.4	9.2	10.8	9.3	9.9	12.4	11.7	11.9	14.2	13.9	14.0
9	10.6	8.8	9.6	10.9	9.7	10.2	12.9	11.6	12.1	14.0	13.8	13.9
10	11.6	9.4	10.3	10.5	8.4	9.3	13.0	11.5	12.1	14.1	13.9	14.0
11	12.2	9.8	10.8	9.5	8.4	9.0	12.9	11.4	12.0	14.2	14.0	14.1
12	11.9	9.7	10.7	9.9	9.3	9.6	12.9	11.2	11.8	14.1	13.9	14.0
13	11.5	9.4	10.3	10.1	9.8	10.0	11.9	10.9	11.3	14.1	13.9	14.0
14	11.2	9.0	10.0	9.9	9.1	9.6	13.7	11.1	12.5	14.3	14.0	14.1
15	11.2	8.7	9.9	10.4	9.0	9.7	13.6	13.0	13.3	14.1	13.4	13.8
16	9.6	8.5	9.1	10.9	10.3	10.6	13.1	12.3	12.6	13.6	13.3	13.4
17	8.8	7.5	7.9	10.8	10.5	10.7	12.6	11.0	11.9	13.6	13.2	13.4
18	8.2	7.4	7.7	11.0	10.6	10.8	13.1	11.9	12.5	13.9	13.3	13.6
19	8.4	7.3	7.9	11.5	10.7	11.1	13.3	13.1	13.3	13.9	13.2	13.5
20	9.5	8.0	8.6	12.2	11.1	11.6	13.5	13.1	13.3	13.7	13.1	13.3
21	9.9	8.2	8.9	12.6	11.3	11.8	14.4	13.5	14.0	14.3	13.5	13.9
22	9.9	8.3	8.9	12.8	11.4	12.0	14.3	14.0	14.1	14.6	13.9	14.2
23	10.2	8.1	8.9	13.2	11.6	12.3	14.8	14.1	14.6	14.6	14.0	14.3
24	9.9	8.4	9.1	13.6	12.0	12.6	14.9	14.6	14.7	14.5	13.9	14.2
25	10.0	8.2	9.1	13.9	12.3	12.9	14.9	14.5	14.7	14.5	13.7	14.1
26	9.8	8.3	8.9	13.1	11.5	12.3	14.9	12.8	14.0	14.6	13.8	14.3
27	9.7	8.2	9.0	12.4	11.6	12.1	14.5	13.7	14.2	14.6	13.9	14.3
28	10.6	8.2	9.2	12.2	12.0	12.0	14.3	13.9	14.2	14.6	13.8	14.3
29	10.5	8.4	9.3	12.1	11.8	12.0	14.2	13.4	13.9	14.8	14.1	14.5
30	10.5	8.3	9.2	12.1	11.7	11.8	13.8	12.7	13.2	14.9	13.2	13.9
31	10.3	8.5	9.2				14.1	12.5	13.2	14.2	13.1	13.6
MONTH	12.2	7.3	9.2	13.9	8.4	10.8	14.9	10.9	13.1	14.9	12.4	14.0

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued OXYGEN DISSOLVED (MG/L), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.5	13.4	13.9	15.0	13.1	14.0	13.5	13.3	13.4	12.4	9.7	11.2
2	14.2	13.4	13.8	14.7		13.9	13.6	13.3	13.4	12.0	9.0	10.6
3	14.7	13.3	14.0	14.9 14.4	12.9	13.9 13.6	13.5	12.7 12.5	13.3 12.9	11.3	8.4	9.6
5	14.5	13.4	13.8	14.9	13.3	14.1	13.3	12.2	12.7	9.7	6.7	8.3
6	15.2	13.8	14.4	15.8 15.9 15.8 15.0	13.6	14.8	12.7		12.2	7.9		7.0
7		13.8	14.4	15.9	13.8	14.5	13.0		12.3 12.3	9.7		7.6
8	15.0	13.6 13.5	14.3	15.8	13.5	14.7	12.7 13.4	12.0	12.3	10.1	8.3 7.5	9.1
10	14.3	12.8	13.7	15.8	13.4	14.6	11.8	10.4	11.1	11.2	7.6	8.6
11	15.2	13.2	14.2	16.0	13.3	14.6	11.7	11.0	11.4	9.1	7.0	8.1
12	15.5	13.9	14./	16.0	13.3	14.7		11.0 11.3	11.6	9.0		7.5
13	15.6	13.8		15.1	12.9	14.7 13.5	12.2	11.3	11.7	8.6 7.7	6.0 5.7	7.1 6.6
14 15	14.9 14.9	13.8 13.2	14.2 14.1	14.4	13.2 13.6	13.8	12.6	10.7	11.6	7.8	5.7	6.6
16	14.5	13.3	14.0	14.7	13.6	14.1	12.7	10.2	11.4	7.5 6.8	5.9	6.5
17	14.8	12.9			13.2	13.8	12.3	10.5	11.4	6.8	5.6	6.1
18	15.5	13.6	14.5	14.6	13.4	14.0	13.6	10.7	12.1	6.2	5.2	5.7
19 20	15.4 15.0	13.8	14.6	14.7 14.6	13.5	14.1 13.8 14.0 14.1 13.8	14.4	10.9	12.5 12.6	5.9 6.8	4.6 5.3	5.9
21	14.9	13.0		13.7	13.0	13.3		10.8	12.4		5.3	5.7
22	15.4	13.3	14.4	13.3		13.1	14.1	10.4	12.3	7.7		6.3
23	15.5	13.7	14.7	13.7	13.3	13.5	13.3	9.8	11.7		7.4	7.7
24 25	15.7	13.6 13.1	14.7	13.5 13.9	13.3	13.5 13.4 13.6	12.4	9.8 9.1 8.6	10.9	6.3	6.0	6.3
											6.2	6.3
26 27	14.6	12.7 13.2	13.6 14.0	13.9 14.5				9.6	11.5	6.4 7.4	6.3	6.7
28	14.9	12.9	13.8	14.5	13.6	13.9	12.7	9.5	11.4		7.4	8.2
29				14.2	13.3			9.6	11.3	8.8	7.6	8.3
30				13.7	13.1	13.3	12.9	9.9	11.6	7.6	7.0 6.7	7.3
31				13.7	13.3	13.5						
MONTH	15.7	12.7	14.2	16.0	12.9	13.9	14.4	8.6	12.0	12.4	4.6	7.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MIN	MEAN		MIN SEPTEMBE	
		JUNE			JULY			AUGUST			SEPTEMBE	iR .
1	7.3	JUNE 6.6	6.9	9.3	JULY 7.4			AUGUST 9.3 9.3	MEAN 11.5 11.6			
1 2 3		JUNE 6.6 7.3 8.7	6.9 8.7 9.0	9.3 9.3 10.2	JULY 7.4			AUGUST 9.3 9.3	11.5 11.6	8.3 8.0 7.8	5.7 6.1 5.9	6.8 6.9 6.6
1 2 3 4	7.3 9.1 9.2 9.4	JUNE 6.6 7.3 8.7	6.9 8.7 9.0	9.3 9.3 10.2	JULY 7.4			AUGUST 9.3 9.3	11.5 11.6	8.3 8.0 7.8 8.0	5.7 6.1 5.9 5.9	6.8 6.9 6.6 6.8
1 2 3 4	7.3 9.1 9.2	JUNE 6.6 7.3 8.7 8.8 8.6	6.9 8.7 9.0	9.3 9.3 10.2 10.3 8.7	7.4 6.4 7.2 8.4 7.7		14.9 14.8 13.1 11.0 9.4	9.3 9.3 9.2 7.1 6.0	11.5 11.6 10.7 9.6 7.7	8.3 8.0 7.8 8.0 8.6	5.7 6.1 5.9 5.9 6.9	6.8 6.9 6.6 6.8 7.6
1 2 3 4 5	7.3 9.1 9.2 9.4 9.4	JUNE 6.6 7.3 8.7 8.8 8.6	6.9 8.7 9.0 9.1 9.0	9.3 9.3 10.2 10.3 8.7	7.4 6.4 7.2 8.4 7.7	8.2 7.8 8.8 9.2 8.0	14.9 14.8 13.1 11.0 9.4	9.3 9.3 9.2 7.1 6.0	11.5 11.6 10.7 9.6 7.7	8.3 8.0 7.8 8.0 8.6	5.7 6.1 5.9 5.9 6.9	6.8 6.9 6.6 6.8 7.6
1 2 3 4 5	7.3 9.1 9.2 9.4 9.4	JUNE 6.6 7.3 8.7 8.8 8.6	6.9 8.7 9.0 9.1 9.0	9.3 9.3 10.2 10.3 8.7	7.4 6.4 7.2 8.4 7.7	8.2 7.8 8.8 9.2 8.0 7.3 7.4	14.9 14.8 13.1 11.0 9.4 10.7 12.1	9.3 9.3 9.2 7.1 6.0	11.5 11.6 10.7 9.6 7.7 8.2 8.7	8.3 8.0 7.8 8.0 8.6 8.6	5.7 6.1 5.9 5.9 6.9	6.8 6.9 6.6 6.8 7.6 7.7
1 2 3 4 5	7.3 9.1 9.2 9.4 9.4	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6	9.3 9.3 10.2 10.3 8.7 7.8 7.8 7.5	7.4 6.4 7.2 8.4 7.7 6.7 7.1	8.2 7.8 8.8 9.2 8.0 7.3 7.4	14.9 14.8 13.1 11.0 9.4 10.7 12.1	9.3 9.3 9.2 7.1 6.0	11.5 11.6 10.7 9.6 7.7 8.2 8.7	8.3 8.0 7.8 8.0 8.6 8.6	5.7 6.1 5.9 5.9 6.9 6.6 6.8 7.1	6.8 6.9 6.6 6.8 7.6
1 2 3 4 5	7.3 9.1 9.2 9.4 9.4	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6	9.3 9.3 10.2 10.3 8.7	7.4 6.4 7.2 8.4 7.7 6.7 7.1	8.2 7.8 8.8 9.2 8.0	14.9 14.8 13.1 11.0 9.4 10.7 12.1	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5	11.5 11.6 10.7 9.6 7.7 8.2 8.7	8.3 8.0 7.8 8.0 8.6 8.6 8.9 9.2	5.7 6.1 5.9 5.9 6.9 6.6 6.8 7.1	6.8 6.9 6.6 6.8 7.6 7.6 7.7 8.0
1 2 3 4 5 6 7 8 9	7.3 9.1 9.2 9.4 9.2 9.2 9.7 9.3 7.8	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6 8.1 6.9	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.2 7.6 7.5	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4	5.7 6.1 5.9 5.9 6.9 6.6 6.8 7.1 7.4 7.1	6.8 6.9 6.6 7.6 7.6 7.7 8.0 8.7 8.8
1 2 3 4 5 6 7 8 9 10	7.3 9.1 9.2 9.4 9.2 9.7 9.7 9.3 7.8	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6 8.1 6.9	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.2 7.6 7.5	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4	5.7 6.1 5.9 5.9 6.9 6.6 6.8 7.1 7.1 6.6 5.6	6.8 6.9 6.6 6.8 7.6 7.6 7.7 8.0 8.7 8.8
1 2 3 4 5 6 7 8 9 10	7.3 9.1 9.2 9.4 9.2 9.7 9.3 7.8 8.6	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.1 6.9 7.6 8.6 5.9	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.1	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.2 7.6 7.5 7.5	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6	8.3 8.0 7.8 8.0 8.6 8.6 8.9 9.2 10.5 10.4	5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 6.6 5.6 5.6	6.8 6.9 6.6 6.8 7.6 7.7 8.0 8.7 8.8
1 2 3 4 5 6 7 8 9 10	7.3 9.1 9.2 9.4 9.2 9.7 9.7 9.3 7.8	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6 8.1 6.9	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.2 7.6 7.5	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4	5.7 6.1 5.9 5.9 6.9 6.6 6.8 7.1 7.1 6.6 5.6	6.8 6.9 6.6 6.8 7.6 7.6 7.7 8.0 8.7 8.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 9.1 9.2 9.4 9.2 9.7 9.3 7.8 8.6 10.0 7.1 6.0 6.1	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.6 8.1 6.9 7.6 8.6 5.9 5.4	9.3 9.3 10.2 10.3 8.7 7.8 7.8 7.5 8.1 7.9 8.1 7.8 8.0 8.8	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.1 7.0 7.3	8.2 7.8 8.8 9.2 8.0 7.4 7.6 7.5 7.4 7.6 8.0	14.9 14.8 13.1 11.0 9.4 10.7 12.1 11.6 6.0 5.2 5.7 5.9	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6 5.1 4.5 5.1	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4	5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6	6.8 6.9 6.6 6.8 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.9 6.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 9.1 9.2 9.4 9.2 9.3 7.8 8.6 10.0 7.1 6.0 6.1	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.1 6.9 7.6 8.6 5.9 5.4 5.6	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.8 8.0 8.8 9.8	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.1 7.0 7.3 7.3	8.2 7.8 8.8 9.2 8.0 7.4 7.6 7.5 7.6 8.5 8.6 8.7	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 5.9 7.3 8.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7 4.2 4.5 5.0 5.2	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6 5.1 4.5 5.1 5.4 6.3	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4 8.6 7.3 7.1 7.9 7.5	5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6 5.6 5.6 6.4	6.8 6.9 6.6 6.8 7.6 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.2 6.9 7.1
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 9.1 9.2 9.4 9.2 9.3 7.8 8.6 10.0 7.1 6.0 6.1	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.3	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.1 6.9 7.6 8.6 5.9 5.4 5.6	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.8 8.0 8.8 9.8	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.1 7.0 7.3 7.3	8.2 7.8 8.8 9.2 8.0 7.4 7.6 7.5 7.6 8.5 8.6 8.7	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 5.9 7.3 8.6	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7 4.2 4.5 5.0 5.2	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.5 9.9 8.6 5.1 4.5 5.1 5.4 6.3	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4 8.6 7.3 7.1 7.9 7.5	5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6 5.6 5.6 6.4	6.8 6.9 6.6 6.8 7.6 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.2 6.9 7.1
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 9.1 9.4 9.4 9.2 9.2 9.7 9.3 7.8 8.6 10.0 6.1 6.4 7.3 7.7 7.8 7.4 6.6 6.9 7.2 8.5 8.5	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.1 5.3 6.0 6.1 6.0 6.2 7.8 7.6	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.1 9.0 7.6 6.9 5.4 6.7 6.5 7.4 6.7 6.5 7.4 6.7 6.5 7.8 6.8 7.8 6.9 7.8 6.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.9 8.1 7.8 9.8 10.5 10.8 10.2 9.7 10.3 11.4 11.3 11.3 11.3 11.4 11.0	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.0 7.3 7.3 7.3 7.7 6.5 6.4 6.8 8.2 8.7	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.6 7.5 7.4 6.0 8.7 8.7 8.7 8.8 9.2 9.2 9.2 9.2 9.2 9.2 10.9 9.2 10.9 9.2 10.9 9.2 9.2 10.9 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 7.3 8.6 9.1 9.3 11.4 8.3 8.9 9.0 8.1 8.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 5.4 5.7	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.9 8.6 5.1 5.4 6.3 6.9 7.7 7.4 7.5 7.3 7.4 8.0	8.3 8.0 8.6 8.6 8.9 10.5 10.4 8.6 7.3 7.1 7.9 7.5 7.6 7.7 8.8 9.1 8.0	SEPTEMBE 5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6 5.8 6.4 6.6 6.6 6.6 6.6 6.6 6.6 6.7 6.6 6.8 6.6 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	6.8 6.6 6.8 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.9 6.9 7.1 7.1 6.5 6.4 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	7.3 9.1 9.4 9.4 9.2 9.7 9.3 7.8 8.6 10.0 7.1 6.4 7.3 7.7 8.6 6.9 7.2 8.5	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 6.8 7.0 6.1 6.0 6.2 5.8 7.0 7.5	6.9 8.7 9.1 9.0 8.7 8.6 8.1 9.0 7.6 8.6 5.4 6.5 7.4 6.7 6.5 7.4 6.7 6.5 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.8 8.0 8.0 9.8 10.5 10.8 10.4 10.2 9.7 10.3 11.4 11.3 11.4 11.3 11.4 11.3	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.0 7.3 7.7 7.3 7.7 6.5 6.4 6.8 7.4 8.2 8.7	8.2 7.8 8.2 9.2 8.0 7.3 7.4 7.6 7.5 7.4 6.0 8.5 8.7 8.5 8.7 8.9 9.2 10.9 9.3 8.3	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 7.3 8.6 9.1 9.3 11.4 8.3 8.9 9.0 8.1 8.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 5.4 7.7 5.9 6.0 6.3	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.9 8.6 5.1 4.5 5.1 5.4 6.9 7.7 7.4 7.3 7.4 6.9 7.4	8.3 8.0 7.8 8.0 8.6 8.9 9.2 10.5 10.4 8.6 7.3 7.1 7.5 7.6 7.7 8.8 9.1 8.0	5.7 6.1 5.9 6.6 6.8 7.1 7.1 6.6 5.6 5.6 6.8 6.9 6.6 6.8 6.9 6.6 6.6 6.6 6.6 6.6 6.8	8.8 6.9 6.8 7.6 7.7 8.07 8.7 8.7 8.7 7.6 6.4 6.9 7.12 7.7 7.6 6.4 6.6 7.1 9.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 9.1 9.4 9.4 9.2 9.2 9.7 9.3 7.8 8.6 10.0 6.1 6.4 7.3 7.7 7.8 7.4 6.6 6.9 7.2 8.5 8.5	JUNE 6.6 7.3 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.3 5.1 6.0 6.2 7.8 7.6 7.5 6.9 6.9	6.9 8.7 9.0 9.1 9.0 8.7 8.6 8.1 9.0 7.6 6.9 5.4 6.7 6.5 7.4 6.7 6.5 7.4 6.7 6.5 7.8 6.8 7.8 6.9 7.8 6.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.9 8.1 7.8 9.8 10.5 10.4 10.2 9.7 10.3 11.4 11.3 11.3 11.3 11.4 11.5 11.5	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.3 7.3 7.3 7.7 7.3 8.4 6.5 6.4 6.8 8.2 8.7	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.6 7.5 7.5 7.4 8.0 8.7 8.7 8.8 9.2 10.9 9.3 8.3 11.2	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 7.3 8.6 9.1 9.3 11.4 8.3 8.9 9.0 8.8 10.1 9.2 9.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 5.4 5.7	11.5 11.6 10.7 9.6 7.7 8.2 8.7 9.9 8.6 5.1 5.4 6.3 6.4 9.7 7.4 7.5 7.3 7.4 8.0 8.7 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 7.4 8.0 8.0 7.4 8.0 8.0 8.0 7.4 8.0 7.4 8.0 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 7.4 8.0 8.0 8.0 7.4 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 8.0 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.4 8.0 8.0 8.0 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.4 8.0 8.0 8.0 7.4 8.0 8.0 7.4 8.0 8.0 8.0 8.0 8.0 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.3 8.0 8.6 8.6 8.9 2 10.5 10.4 8.6 7.3 7.1 7.9 7.5 7.6 7.7 8.8 9.1 8.0 7.9 7.0 7.1 7.6 8.0	SEPTEMBE 5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6 5.8 6.4 6.6 6.6 6.6 6.6 6.6 6.7 6.6 6.7 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	6.8 6.6 6.8 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.9 7.1 7.1 6.5 6.4 6.6 7.1 9.9 9.0 8.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 9.1 9.4 9.4 9.2 9.7 9.3 7.8 8.6 10.0 7.1 16.0 6.1 7.3 7.7 7.4 6.6 9.9 7.2 8.5 8.6 9.4 9.4 9.4 9.4 9.4 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 6.3 5.1 6.0 6.1 6.0 6.2 5.8 7.6 7.5 6.9 7.1	6.9 8.7 9.1 9.0 8.7 8.6 8.1 9.0 7.6 8.5 5.4 6.7 6.5 7.4 6.7 6.5 7.8 8.1 8.1 8.0 9.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	9.3 9.3 10.2 10.3 8.7 7.8 7.8 8.1 7.9 8.1 7.9 8.1 7.8 8.0 8.0 9.8 10.4 10.4 11.3 11.4 11.3 11.4 11.5 11.7	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.0 7.3 7.3 7.7 7.3 7.7 8.4 6.4 6.8 7.4 8.7 8.1 8.1 8.3 9.1	8.2 7.8 8.2 9.2 8.0 7.3 7.4 7.6 7.5 7.4 7.6 8.5 8.7 8.5 8.7 8.5 8.7 9.2 10.9 9.3 8.3 9.1 11.4	14.9 14.8 13.1 11.0 9.4 10.7 12.1 11.6 6.0 5.2 5.7 7.3 7.3 8.6 9.1 11.4 8.3 8.9 9.0 8.1 8.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 6.3 6.3 6.3 6.5 6.5	11.5 11.67 9.67 8.27 9.98 8.75 9.98 5.14 5.14 7.5 7.3 8.8 7.7 7.3 8.8 7.5 7.7 8.0 7.7 7.5 7.7 8.0 7.7 7.7 8.0 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	8.3 8.0 8.6 8.9 9.2 10.5 10.4 8.6 7.3 7.1 7.9 7.5 7.6 7.7 8.8 9.1 8.0 7.9 7.0 7.1 6 8.0 9.1 8.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	SEPTEMBE 5.7 6.19 5.9 6.6 6.8 7.1 6.6 6.5 5.8 6.4 6.6 6.8 6.9 6.6 6.6 6.6 6.6 6.7 7.7 7.1	6.8 6.6 6.8 7.6 7.7 8.7 8.7 8.8 7.7 6.4 6.9 7.1 7.2 7.7 6.4 6.9 7.1 7.1 6.5 6.4 6.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 9.1 9.4 9.4 9.2 9.7 9.3 7.8 8.6 10.0 6.1 6.4 7.3 7.7 8.6 6.9 7.2 8.5 8.6 8.9 8.6 8.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9	JUNE 6.6 7.3 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 5.0 5.3 5.1 6.0 6.2 7.8 7.6 7.5 6.9 6.9	6.9 8.7 9.1 9.1 9.0 8.7 8.6 8.1 9.0 7.6 6.9 7.6 6.5 7.4 6.7 6.5 7.4 6.7 6.5 7.4 6.5 7.6 6.5 7.6 6.5 7.6 6.5 7.6 6.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	9.3 9.3 10.2 10.3 8.7 7.8 7.5 8.1 7.9 8.1 7.9 8.1 7.8 9.8 10.5 10.4 10.2 9.7 10.3 11.4 11.3 11.3 11.3 11.4 11.5 11.5	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.3 7.3 7.3 7.7 7.3 8.4 6.5 6.4 6.8 8.2 8.7	8.2 7.8 8.8 9.2 8.0 7.3 7.4 7.6 7.5 7.5 7.4 8.0 8.7 8.7 8.8 9.2 10.9 9.3 8.3 11.2	14.9 14.8 13.1 11.0 9.4 10.7 12.1 12.8 13.1 11.6 6.0 5.2 5.7 7.3 8.6 9.1 9.3 11.4 8.3 8.9 9.0 8.8 10.1 9.2 9.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 5.4 5.7 5.9 6.0 6.3 6.3 6.5 6.3 6.5 5.2	11.5 11.67 9.67 7.7 8.27 9.98 5.15 5.43 6.97 7.45 7.34 9.96 7.34 9.96 7.49 7.50 7.49 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50	8.3 8.0 8.6 8.6 8.9 10.5 10.4 8.6 7.3 7.1 7.9 7.5 7.6 7.7 8.8 9.1 8.0 7.9 7.0 7.1 7.6 8.0	SEPTEMBE 5.7 6.1 5.9 6.9 6.6 6.8 7.1 7.4 7.1 6.6 5.6 5.8 6.4 6.6 6.6 6.6 6.6 6.1 6.0 6.8 6.9 6.7 7.7 7.1 7.7 7.1	6.8 6.6 6.8 7.6 7.7 8.0 8.7 8.8 7.7 6.4 6.9 6.9 7.1 7.2 7.7 7.6 6.4 6.6 7.1 8.9 9.0 8.7 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 9.1 9.4 9.4 9.2 9.7 9.3 7.8 8.6 10.0 7.1 16.0 6.1 7.3 7.7 7.4 6.6 9.9 7.2 8.5 8.6 9.4 9.4 9.4 9.4 9.4 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	JUNE 6.6 7.3 8.7 8.8 8.6 8.1 8.0 7.7 7.3 6.3 6.0 7.1 5.3 6.3 5.1 6.0 6.1 6.0 6.2 5.8 7.6 7.5 6.9 7.1	6.9 8.7 9.1 9.0 8.7 8.6 8.1 9.0 7.6 8.5 5.4 6.7 6.5 7.4 6.7 6.5 7.8 8.1 8.1 8.0 9.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8	9.3 9.3 10.2 10.3 8.7 7.8 7.8 8.1 7.9 8.1 7.9 8.1 7.8 8.0 8.0 9.8 10.4 10.4 11.3 11.4 11.3 11.4 11.5 11.7	7.4 6.4 7.2 8.4 7.7 6.7 7.1 6.9 7.2 7.1 7.0 7.3 7.3 7.7 7.3 7.7 8.4 6.4 6.8 7.4 8.7 8.1 8.1 8.3 9.1	8.2 7.8 8.2 9.2 8.0 7.3 7.4 7.6 7.5 7.4 7.6 8.5 8.7 8.5 8.7 8.5 8.7 9.2 10.9 9.3 8.3 9.1 11.4	14.9 14.8 13.1 11.0 9.4 10.7 12.1 11.6 6.0 5.2 5.7 7.3 7.3 8.6 9.1 11.4 8.3 8.9 9.0 8.1 8.8	9.3 9.3 9.2 7.1 6.0 6.4 6.6 7.1 7.5 4.7 4.2 4.5 5.0 5.2 5.7 5.6 6.5 6.3 6.3 6.3 6.5 6.5	11.5 11.67 9.67 8.27 9.98 8.75 9.98 5.14 5.14 7.5 7.3 8.8 7.7 7.3 8.8 7.5 7.7 8.0 7.7 7.5 7.7 8.0 7.7 7.7 8.0 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	8.3 8.0 8.6 8.9 9.2 10.5 10.4 8.6 7.3 7.1 7.9 7.5 7.6 7.7 8.8 9.1 8.0 7.9 7.0 7.1 6 8.0 9.1 8.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	SEPTEMBE 5.7 6.19 5.9 6.6 6.8 7.1 6.6 6.5 5.8 6.4 6.6 6.8 6.9 6.6 6.6 6.6 6.6 6.7 7.7 7.1	6.8 6.6 6.8 7.6 7.7 8.7 8.7 8.8 7.7 6.4 6.9 7.1 7.2 7.7 7.1 6.5 6.4 6.6

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued
OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	PIAA	OCTOBER	MEAN		OVEMBER	PIEAN		ECEMBER	DIEMIN	MAA	JANUARY	
		OCTOBER			OVEMBER						UMIUMILI	
1	9.8	8.8	9.2	10.7	9.2	9.7	8.6 10.0 12.5	8.3	8.4	12.6	11.6	12.2
2 3	10.1	8.5		11.0	9.5	10.0	12.5	10.0	10.8	13.6	12.0 12.8	12.7 13.1
4	10.1	8.0	8.8	11.2	9.2	10.1	12.8	12.0	12.4	13.6	13.0	13.2
		8.2 8.0 7.5	8.4	11.0 11.0 11.2 10.6		10.0 10.0 10.1 9.9		12.2	12.4	12.6 13.6 13.4 13.6 13.2	12.6	12.9
6	8.3	7.2 7.2 7.3	7.7	10.6	8.8	9.6	12.7	12.4	12.5	12.9	12.5	12.7
7	8.6	7.2	7.8	10.3	8.6	9.5	12.6	11.7	12.2	12.8	12.2	12.5
8	10.4	7.3	8.3	10.6	9.1	9.9	12.1	11.7	11.9	13.1	12.5	12.6
10	10.8	8.7	9.2	10.6 10.3 10.6 11.0	7.6	9.3	12.7	11.6	12.1	12.9 12.8 13.1 13.1 12.8	12.3	12.6
11	11.5	9.5	10.4	7.6 5.0 5.2 7.0 7.6	5.0	5.8	12.7	11.5	12.0	13.1	12.5	12.0
12	11.7	9.8	10.6	5.0	3.8	4.2	12.4	11.2	11.7	13.1	12.8	12.9
13 14	11.4	9.8 9.6 9.2	10.4	7.0	5.7	5.1	11.6	11.9	12.1	13.1	12.8	12.9 13.0
	11.0	9.0		7.6	6.7	7.2	12.2	11.8	12.1	13.1 13.1 13.1 13.2 13.5	12.7	13.1
16	9.8	8.7	9.3		7.6	7.9	12.1	11.9				12.1
17	9.5	7.9	8.3	8.8	8.2	8.4	12.0	11.1	11.7	12.2	11.3	11.6
18 19	7.9	6.9	7.3	9.1	8.7	9.0	13.1	12.0	12.5	12.2	12.0	11.9
20	8.1	7.2	9.3 8.3 7.3 7.3 7.6	10.3	9.7	10.0	11.5	10.1	10.5	12.7 12.2 12.2 12.5 12.5	11.6	11.9
21	8.8					10.6	11.1	10.2		12.8 12.9 12.6 12.2 11.8		
22	8.8 9.1	7.2	8.2	11.0 11.6 11.9 12.8 13.1	10.6	11.0	11.4	11.1	11.2	12.9	12.6	12.8
23	9.2	7.3	8.1	11.9	11.1	11.5	11.5	11.4	11.5	12.6	12.2	12.5
24 25	9.2 9.5 9.9	7.3 7.3 8.0	8.1 8.5 8.9	12.8	11.4	12.0	11.5	10.9	11.2	12.2	11.7	12.0
						12.4	11.0	10.0	10.5	11.0	44.5	
26	9.9	8.3 8.2	9.1	13.1 11.6	11.4	12.2	11.2	11.0	11.1	12.5	11.5 12.1	12.0
27	9.4	7.9	8.8	9.8	8.8	9.2	12.1	12.1	12.4	12.9	12.3	12.6
29	9.5 9.1	7.9	8.8 8.4 8.4	8.8	8.5	8.6	13.3	12.8	13.1	12.9	12.7	12.8
30	9.1	7.5	8.4	8.5	8.2	8.3	13.2	12.8	13.1	13.2	12.6	12.9
31	10.0	7.2 7.5 8.3	9.0	13.1 11.6 9.8 8.8 8.5			12.9	12.2	12.6	12.7	11.9	12.2
MONTH	11.7	6.3	8.8	13.1	3.8	9.3	13.6	8.3	11.7	13.6	11.3	12.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.3	12.8	12.2	12.5	13.4 12.8 12.6 12.7 13.0	12.7	13.2	11.4 11.3 10.9 10.2 9.2	9.6	10.5
	12.4	12.0	12.2	12.9	12.2	12.6	12.8	12.1	12.5	11.3	9.2	10.2
3	12.3			12.9	12.2	12.5	12.6	11.9	12.2	10.9	8.9	9.9
5	12.6	12.1 12.0	12.4	12.9 12.9 12.8 13.0	12.2	12.5	13.0	11.2	12.0	9.2	7.0	9.2
6	12.2		12.0	13.8 14.5 14.7 14.5	12.5 13.1	13.2	12.5	10.8	11.4	7.8 7.8	5.7	7.0 6.8
8	13.1		12.6	14.7	13.0	13.9	12.1	11.1	11.5	8.3	6.7	7.3
9	13.0	12.2	12.6	14.5	12.9	13.7	12.2	11.0	11.6	8.3 8.7 9.0	6.7	7.4
10	12.5	11.8	12.1	14.3	13.0		12.5 12.1 12.1 12.2 11.8		11.1			
	12.5	11.7 12.4	12.2	14.6 15.1	13.1	13.8	11.7 11.5	11.0	11.3	9.0 8.8	7.1	7.9
12	13.2	12.4	12.8	15.1	13.3	14.2	11.5	11.1	11.3	8.8	6.5	7.5
14	13.0	12.7 12.3	12.8	13.9	13.2	13.4	11.5	10.7	10.9	7.6	5.7	6.6
15	12.6	11.9	12.3	13.4	12.7	13.1	11.1	10.2	10.6	7.8	5.9	6.7
16	12.6	11.9	12.2	12.7	11.9	12.5	10.8	9.9	10.3	7.4	6.0	6.7
17	12.7	11.9	12.3	12.3	11.7		10.6	9.9			5.7	6.2
18	13.3		12.8	13.1	12.1	12.6	11.9		10.9	6.1	5.2 4.7	5.7 5.4
19 20	13.7 13.7	12.9 12.8	13.3	13.3 13.7	12.6 12.4	12.9 13.0	12.1 11.9	10.5	11.3	6.7		6.0
21	13.4	12.4	12.9	13.4	12.8	13.0	11.6	10.4	11.0	6.1	5.5	5.7
22	13.6	12.1	12.9	13.3	12.8	13.1	12.5	9.9	11.2	6.6	5.4	6.1
23	14.3		13.6	13.7	13.1	13.5	11.9	9.4	10.8	6.6	6.0	6.3
24 25	14.4	13.2 12.8	13.8	13.3	12.5 12.4	12.9 12.7	11.0	8.5	9.9	6.3	5.9 6.1	6.1
26	12.8	11.9	12.3	13.0	12.0		10.8		9.8	6.4	6.2	6.3
27	12.7		12.4	13.8	12.6	13.2	11.0	9.3	10.2	6.9	6.3	6.7
28	12.7	12.2	12.4	14.1	13.1	13.5	11.2	9.2	10.3	7.3	6.9	7.1
29				13.9	13.2	13.6	11.5	9.3	10.2	7.8	7.3	7.6
30 31				13.7 13.7	13.1	13.3 13.5	11.5	9.5	10.5	7.3	6.8	7.1
MONTH	14.4		12.6	15.1	11.7		13.4	8.1		11.4	4.7	7.2
HUNTH	14.4	11./	12.0	15.1	11.7	13.1	13.4	0.1		44.4	4.,	,

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued OXYGEN DISSOLVED (MG/L), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ir.
1	7.3	6.7	7.0	6.6	5.4	6.1	18.0	9.7	12.5	8.4	5.9	6.9
2	9.1	7.3	8.4	7.5	5.7	6.6	17.9	9.7	12.8	8.4	6.2	7.0
3	9.2	8.5	8.9	7.6	5.6	6.6	13.7	9.6	11.3	7.9	6.0	6.7
4	8.5	5.9	7.0	7.1	5.8	6.5	11.4	8.9	10.0	8.1	6.1	7.0
5	5.9	5.3	5.5	7.0	6.1	6.4	11.0	8.0	9.0	8.8	7.0	7.7
6	5.5	5.0	5.2	7.0	5.9	6.4	12.8	6.8	9.1	8.6	7.0	7.7
7	5.6	4.9	5.2	7.2	6.1	6.6	14.6	7.1	9.9	9.0	7.0	7.8
8	5.8	5.1	5.4	6.9	6.2	6.6	15.9	7.6	10.8	9.5	7.3	8.2
9	5.9	5.3	5.6	7.5	6.7	7.1	15.9	8.0	11.1	10.6	7.6	8.8
10	5.9	5.5	5.7	7.4	6.3	6.7	12.2	5.7	9.3	10.3	7.8	9.0
11	5.8	5.5	5.6	7.8	6.3	6.9	7.4	5.3	6.6	8.3	6.7	7.5
12	5.9	5.2	5.5	7.8	6.5	7.0	5.3	4.1	4.8	6.9	5.8	6.4
13	5.8	4.7	5.3	7.9	6.4	7.1	5.6	4.2	4.9	7.1	5.7	6.2
14	5.9	5.1	5.4	8.5	6.4	7.4	5.4	5.1	5.2	7.7	5.9	6.6
15	6.1	5.3	5.6	10.1	6.8	8.2	5.6	5.1	5.3	6.8	6.3	6.6
16	6.3	5.1	5.5	10.9	7.1	8.8	6.1	5.2	5.6	6.9	6.6	6.8
17	7.2	5.4	6.7	10.8	7.4	8.8	6.6	5.3	5.8	7.4	6.8	7.0
18	6.8	4.6	5.8	10.4	7.0	8.4	7.2	5.4	6.1	8.7	6.8	7.6
19	4.6	4.3	4.4	10.0	6.8	8.2	8.2	5.2	6.5	9.0	6.7	7.6
20	4.3	3.9	4.1	10.0	6.8	8.3	9.3	5.7	6.8	7.4	6.7	7.1
21	4.2	3.8	3.9	11.9	6.3	8.8	7.6	5.8	6.6	7.3	6.5	6.8
22	4.3	3.9	4.1	12.2	7.9	9.6	7.7	5.6	6.4	6.9	6.2	6.5
23	7.1	4.2	4.8	13.6	7.1	9.7	8.4	5.9	7.1	6.8	6.0	6.3
24	8.1	7.1	7.8	18.6	8.6	12.4	6.9	5.8	6.5	6.9	5.9	6.2
25	8.0	7.1	7.7	20.0	11.8	14.8	6.8	5.2	5.8	6.7	5.9	6.3
26	7.1	5.3	6.1	13.7	10.1	11.5	8.7	5.6	6.8	6.2	5.9	6.0
27	5.3	4.9	5.0	12.9	7.5	9.9	8.8	6.1	7.3	6.9	6.0	6.4
28	5.3	4.7	4.9	12.4	7.8	9.8	10.0	6.1	7.5	8.1	6.6	7.4
29	5.5	4.5	5.0	16.0	9.1	12.1	9.9	6.6	8.0	8.5	7.1	7.6
30	6.8	4.6	5.5	14.6	9.7	12.0	8.1	6.4	7.1	8.8	7.1	7.9
31				15.4	9.1	11.7	7.8	5.6	6.6			
MONTH	9.2	3.8	5.8	20.0	5.4	8.6	18.0	4.1	7.7	10.6	5.7	7.1
YEAR	20.0	3.8	9.6									

OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	t .	N	OVEMBER		I	ECEMBER			JANUAR	7
1	9.5	8.5	8.9	10.2	9.0	9.5	8.7	8.4	8.5	12.7	11.8	12.3
2	9.9	8.2	9.0	10.5	9.3	9.9	9.9	8.7	9.4	12.5	12.1	12.4
3	9.5	7.9	8.6	10.7	9.2	10.0	10.9	9.9	10.5	12.9	12.4	12.7
4	9.6	7.8	8.4	10.9	9.1	10.0	11.8	10.9	11.4	12.9	12.6	12.8
5	8.8	7.6	8.2	10.6	9.1	9.9	12.2	11.7	11.9	12.7	12.3	12.5
6	8.3	7.1	7.7	10.2	8.9	9.6	12.2	11.8	12.0	12.4	12.1	12.2
7	8.2	7.1	7.5	10.1	8.7	9.5	12.1	11.8	11.9	12.3	11.9	12.0
8	8.8	7.3	8.0	10.5	9.2	9.9	12.2	11.8	12.0	12.1	11.8	11.9
9	9.3	7.8	8.6	11.1	9.7	10.3	12.3	11.8	12.0	11.9	11.6	11.7
10	10.6	8.5	9.5	10.7	7.6	9.5	13.0	11.7	12.3	11.9	11.6	11.8
11	11.3	9.5	10.4	7.6	5.1	5.9	12.8	11.6	12.1	12.2	11.5	11.9
12	11.5	9.9	10.8	5.1	3.9	4.3	12.5	11.4	11.8	12.2	11.9	12.1
13	11.6	10.0	10.8	5.3	4.8	5.2	11.6	11.0	11.3	12.3	11.8	12.0
14	11.2	9.6	10.4	6.6	5.3	5.9	12.4	11.2	11.8	12.3	11.9	12.1
15	11.2	9.4	10.3	7.6	6.6	7.2	12.3	11.9	12.2	12.3	11.8	12.1
16	10.3	8.9	9.7	8.2	7.6	7.8	12.2	12.0	12.1	12.2	11.1	11.6
17	10.1	8.1	8.6	8.6	8.2	8.3	12.0	10.6	11.4	11.4	11.0	11.2
18	8.1	6.8	7.2	9.1	8.6	8.9	11.3	9.9	10.6	12.2	11.4	11.8
19	8.4	6.4	7.3	9.7	9.1	9.5	10.4	9.6	9.9	12.5	11.8	12.1
20	7.8	6.7	7.3	10.3	9.7	10.1	10.3	9.9	10.1	12.4	11.6	12.0
21	7.8	6.8	7.2	11.0	10.3	10.7	11.3	10.3	10.7	12.9	12.4	12.8
22	8.4	6.9	7.5	11.6	10.8	11.2	11.5	11.0	11.2	13.0	12.7	12.9
23	8.4	7.1	7.7	12.0	11.2	11.6	11.6	11.5	11.6	12.7	12.3	12.6
24	8.8	7.2	8.1	12.7	11.6	12.1	11.6	10.9	11.3	12.4	11.7	12.1
25	9.3	7.7	8.4	13.2	12.0	12.5	11.2	10.9	11.0	12.0	11.7	11.8
26	9.2	8.0	8.6	13.1	11.5	12.2	11.4	11.1	11.3	12.5	11.7	12.1
27	9.0	8.0	8.6	11.7	9.8	10.3	12.2	11.2	11.8	12.7	12.2	12.4
28	9.0	7.9	8.6	9.8	8.9	9.2	12.8	12.2	12.5	12.8	12.3	12.5
29	9.1	7.3	8.4	8.9	8.6	8.7	13.3	12.8	13.1	12.9	12.5	12.7
30	9.0	7.5	8.2	8.7	8.3	8.5	13.4	13.0	13.2	13.0	12.3	12.7
31	9.4	8.1	8.7				13.0	12.3	12.7	12.7	11.9	12.2
MONTH	11.6	6.4	8.6	13.2	3.9	9.3	13.4	8.4	11.5	13.0	11.0	12.2

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued OXYGEN DISSOLVED (MG/L), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		NIGEN DI	5502.25	(PIG/L), R.	IGHT INTA		IEAR OC	IOBER 200				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.4	12.9	12.3	12.6	12.7	10.9	11.6	10.2	9.3	9.7
2	12.5	12.1	12.4	13.0	12.4	12.7	11.5	10.4	10.9	10.6	9.0	9.7
3	12.4	12.1	12.3	13.1 13.0	12.4	12.7	12.2	10.9	11.5	10.7	8.6	9.4
5	12.8 12.6	12.3 12.2	12.5	13.0	12.3	12.7 12.7	12.7 13.2	10.7	11.5 11.6 11.8	9.5		8.3
6	12.4	11.9 12.0	12.2	13.9 14.6 14.9	12.6	13.3	12.7 11.9	10.4	11.2	7.8 7.1		7.1 6.4
8	13.3	12.3	12.8	14.9	13.3	14.0	11.9		11.1	7.5	6.4	6.9
9	13.1	12.4	12.7	14.6	13.0	13.8	11.3	10.6		7.5 8.5 8.7	6.8	7.5
10	12.6	11.9	12.3	14.5	13.1	13.7	11.2	9.3	10.2	8.7	7.0	7.7
11	12.6	11.8	12.3	14.7	13.2	14.0	9.4		9.3	9.1		8.0
12	13.3	12.5		15.1	13.4	14.3	9.3	8.3	8.7	9.1	6.8	7.8
13 14	13.7	12.8	13.1	15.1 14.2 12.8	12.8 12.6	13.8	10.5	9.1	9.0	9.0 8.0	5.9	6.8
15	12.6	12.0	12.3	12.7	12.4	12.6	10.6	8.6 9.1 9.6	10.1	8.0	6.0	6.9
16	12.6	11.9	12.2	12.5	11.9	12.2				7.7	6.1	6.8
17	12.7	12.0	12.3	11.9	11.6			9.7	9.8	7.0	5.8	6.3
18	13.3	12.2	12.9	12.3 12.7	11.6	11.8	10.4	2.,		6.2	5.3	5.8
19 20	13.8	13.0 12.8	13.4	12.7	12.1	12.4	11.3	10.3	10.8	6.2 6.1 7.0	4.8 5.5	5.5 6.1
21	13.5	12.5	13.0	12.8 12.6	12.3	12.6	11.3 10.9 10.3	10.4	10.8	6.2 6.7 6.7	5.5	5.8
22 23	13.6 14.4	12.2 12.9		12.7		12.1	10.3	8.9	9.7	6.7	6.1	6.4
24	14.5	13.3	13.9	11.3	10.6	10.9	9.6	8.0	8.9	0.4	6.0	6.1
25	13.7	12.9	13.4	11.8	10.8	11.2	10.9 10.3 9.6 8.8	7.2	8.1	6.4	6.2	6.3
26	12.9	11.7	12.2	12.5	11.3			7.6	8.8	6.5	6.3	6.4
27	12.8	12.0	12.4	13.7	12.2	12.8	10.4	9.1	9.8	7.0	6.5	6.8
28 29	12.8	12.3	12.6	14.3 14.1	13.0	13.6 13.7	10.4	9.0	9.8	7.4	6.9 7.4	7.2
30				13.9	13.0	13.3	10.1	9.3	9.8	7.5	7.1	7.3
31				13.2	12.6	12.9				7.5	6.8	7.1
MONTH	14.5	11.7	12.7	15.1	10.6	12.8	13.2	7.2	10.2	10.7	4.8	7.2
273										10.00	12.22	100211
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX		MEAN			
DAY	MAX	JUNE	MEAN	MAX	JULY	MEAN		AUGUST			SEPTEMBE	R
1	7.3	JUNE 6.7	7.0	5.4	JULY 4.5	4.8	17.0	AUGUST	12.8		SEPTEMBE	ER 6.9
1 2	7.3 7.5	JUNE 6.7 7.3	7.0	5.4 5.9 6.8	JULY 4.5 4.5	4.8	17.0 16.8	AUGUST 9.6 9.9	12.8 13.0	8.3 8.2	SEPTEMBE 5.9 6.2	6.9 7.1
1	7.3	JUNE 6.7	7.0	5.4 5.9 6.8	JULY 4.5 4.5	4.8	17.0 16.8 14.6 12.2	9.6 9.9 9.6 9.2	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7 7.0
1 2 3 4	7.3 7.5 7.4	JUNE 6.7 7.3 6.2	7.0 7.4 6.8	5.4 5.9 6.8	JULY 4.5 4.5	4.8 5.1 5.8	17.0 16.8 14.6 12.2	AUGUST 9.6 9.9	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7
1 2 3 4 5	7.3 7.5 7.4 6.2 5.7	JUNE 6.7 7.3 6.2 5.7 5.3	7.0 7.4 6.8 6.0 5.5	5.4 5.9 6.8 6.7 6.5	JULY 4.5 4.5 4.8 5.6 5.9	4.8 5.1 5.8 6.1 6.2	17.0 16.8 14.6 12.2 10.8	9.6 9.9 9.6 9.2 8.0	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7 7.0
1 2 3 4 5	7.3 7.5 7.4 6.2 5.7	JUNE 6.7 7.3 6.2 5.7 5.3 5.0	7.0 7.4 6.8 6.0 5.5	5.4 5.9 6.8 6.7 6.5	JULY 4.5 4.5 4.8 5.6 5.9	4.8 5.1 5.8 6.1 6.2	17.0 16.8 14.6 12.2 10.8	9.6 9.9 9.6 9.2 8.0	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7 7.0 7.7 7.6 7.7
1 2 3 4 5	7.3 7.5 7.4 6.2 5.7 5.5 5.6 5.8	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6	JULY 4.5 4.5 4.8 5.6 5.9	4.8 5.1 5.8 6.1 6.2	17.0 16.8 14.6 12.2 10.8	9.6 9.9 9.6 9.2 8.0	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1
1 2 3 4 5 6 7 8 9	7.3 7.5 7.4 6.2 5.7 5.5 5.6 5.8 5.9	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6	JULY 4.5 4.5 4.8 5.6 5.9	4.8 5.1 5.8 6.1 6.2	17.0 16.8 14.6 12.2 10.8 12.9 14.9	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5	12.8 13.0 11.9 10.3	8.3 8.2 7.8 8.2	5.9 6.2 5.9 6.1	6.9 7.1 6.7 7.0 7.7 7.6 7.7
1 2 3 4 5 6 7 8 9	7.3 7.5 7.4 6.2 5.7 5.5 5.6 5.8 5.9	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.8 5.7	4.8 5.1 5.8 6.1 6.2 6.6 6.2 6.1 6.2	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.8	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9
1 2 3 4 5 6 7 8 9 10	7.3 7.5 7.4 6.2 5.7 5.5 5.8 5.9 5.9	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6 5.7	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.8 5.7	4.8 5.1 5.8 6.1 6.2 6.6 6.2 6.1 6.2	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 14.9	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.7 8.0	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9 9.2
1 2 3 4 5 6 7 8 9 10	7.3 7.5 7.4 6.2 5.7 5.5 5.8 5.9 5.9	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.9 5.8 5.7	4.8 5.1 5.8 6.1 6.2 6.6 6.2 6.1 6.2 6.4 6.5	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.7 8.0	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14	7.3 7.5 7.4 6.2 5.7 5.5 5.8 5.9 5.9 5.8 6.0 6.0	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6 5.7 5.6 5.5	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 7.2 7.5 7.6 8.0	JULY 4.5 4.5 4.8 5.6 5.9 6.0 5.9 6.9 5.8 5.7 5.8 5.8 6.1	4.8 5.8 6.1 6.2 6.6 6.2 6.1 6.5 7.3	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2 7.1 4.7 4.9 5.3	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.3 6.6
1 2 3 4 5 6 7 8 9 10	7.3 7.5 7.4 6.2 5.7 5.5 5.8 5.9 5.9 5.8	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.1 5.3 5.6 5.5 4.7	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6 5.7	5.4 5.9 6.8 6.7 6.5 6.6 6.6 7.2 7.5 7.6 8.0	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.8 5.7	4.8 5.1 5.8 6.1 6.2 6.6 6.2 6.1 6.2 6.5 6.9	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.7 8.0	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 7.54 6.2 5.7 5.56 5.9 5.9 5.8 6.0 6.3 6.6	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4	7.0 7.4 6.0 5.5 5.2 5.3 5.6 5.7 5.6 5.5 5.5 5.5	5.4 5.9 6.8 6.7 6.5 6.6 7.2 7.5 7.6 8.0 8.7 10.6	JULY 4.5 4.5 4.8 5.6 5.9 6.0 5.9 5.8 5.7 5.8 5.8 6.6 7.0	4.8 5.1 5.8 6.1 6.2 6.2 6.6 6.2 6.1 6.5 7.3 8.2 9.0	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2 7.1 4.7 4.9 5.3 5.3	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.7 8.0 6.7 5.8 6.0 6.4	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.3 6.6 6.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 7.5 7.4 6.2 5.7 5.6 5.8 5.9 5.8 6.3 6.6 6.7	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6 5.7 5.5 5.3 5.5 5.7	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.8 5.7 5.8 5.9 6.1 6.6 7.0 7.3	4.8 5.1 5.1 6.2 6.6 6.2 6.6 6.2 6.5 6.9 7.3 8.2 9.0 8.8	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 5.4 5.6	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2 7.1 4.7 4.9 5.3 5.3	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8 5.7 6.4 6.6	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 9.2 7.5 6.3 6.2 6.6 6.7 6.8
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.3 7.5 7.4 6.2 5.7 5.6 5.8 5.9 5.8 6.3 6.6 6.7	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4	7.0 7.4 6.8 6.0 5.5 5.2 5.3 5.4 5.6 5.7 5.5 5.3 5.5 5.7	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.9 5.8 5.7 5.8 5.9 6.1 6.6 7.0 7.3	4.8 5.1 5.1 6.2 6.6 6.2 6.6 6.2 6.5 6.9 7.3 8.2 9.0 8.8	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 5.4 5.6	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2 7.1 4.7 4.9 5.3 5.3	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8 5.7 6.4 6.6	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 9.2 7.5 6.3 6.2 6.6 6.7 6.8
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.3 7.5 7.4 6.2 7.5 5.6 5.8 9 5.8 6.3 6.7 4.4 4.4 4.3	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4 4.6 4.3 4.0 3.9 3.9	7.0 7.4 6.8 6.0 5.5 5.3 5.4 5.6 5.7 5.5 5.5 5.5 5.7 5.6 6.0 4.9 4.1	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2	JULY 4.5 4.5 4.8 5.6 5.9 5.9 6.0 5.8 5.7 5.8 5.8 5.9 6.1 6.6 7.3 7.0 6.8 6.2 7.8	4.8 5.18 6.12 6.6 6.2 6.6 6.2 6.5 7.3 8.2 9.8 8.5 8.4 9.1 9.8	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 6.7 7.4 8.8 7	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8	12.8 13.0 11.9 10.3 9.3 9.4 10.2 10.9 11.0 10.2 7.1 4.7 4.9 5.3 5.3 5.6 6.2 6.7 6.9	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.0 7.3 8.4 8.5 7.4	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8 5.7 6.4 6.6 6.8 6.9 6.7	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.9 9.2 7.5 6.3 6.2 6.6 7.1 7.6 7.7 6.8 7.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.3 7.5 7.4 6.2 7.5 5.6 5.8 9 5.8 6.3 6.6 7 4.4 4.4 4.9 5.5 5.4	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4 6.4 3.4 9.3 4.8 5.1	7.0 7.4 6.0 5.5 5.2 5.3 5.4 5.6 5.7 5.5 5.3 5.5 5.7 5.6 4.9 4.5 4.1 4.5 5.1	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 19.0 20.0	JULY 4.5 4.5 4.5 4.5 5.9 5.9 6.0 5.9 5.8 5.9 6.1 6.6 7.0 7.0 6.8 6.2 7.1 8.5 11.7	4.8 5.1 5.1 6.2 6.2 6.6 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.5 8.4 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 5.4 5.6 7.4 8.8 7.9 8.7 7.0 6.4	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.8	12.8 13.0 11.9 10.3 9.3 9.4 10.2 11.0 10.2 7.1 4.7 4.9 5.3 5.3 5.6 6.2 6.7 6.7 6.5 7.1 6.5 5.8	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.3 8.4 8.5 7.4 7.2 6.8 6.8 6.8 6.8 6.8	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.2 7.7 8.0 6.7 5.8 5.7 6.0 6.4 6.8 6.9 6.7 6.7 6.5 6.1 5.9	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.9 9.2 7.5 6.3 6.2 6.6 7.5 7.1 6.8 6.5 7.1 6.8 6.4 6.3 6.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 7.54 6.2 5.7 5.56 5.9 5.9 5.8 6.8 6.6 7.5 4.4 4.3 4.4 4.5 5.4 5.3	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4 4.6 4.3 4.0 3.9 3.9 4.8 5.1	7.0 7.4 6.0 5.5 5.2 5.3 5.6 5.7 5.6 5.5 5.5 5.7 5.6 6.0 4.5 4.1 4.0 4.1 5.1 5.2	5.4 5.9 6.8 6.7 6.5 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2	JULY 4.5 4.8 5.6 5.9 6.0 5.8 5.7 5.8 5.8 5.8 6.6 7.0 7.3 7.0 6.8 6.8 7.1 10.3	4.8 5.1 5.8 6.1 6.2 6.2 6.6 6.2 6.1 6.2 6.5 7.3 8.2 9.0 8.8 8.5 8.4 9.1 9.8 13.0 15.6	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 6.7 7.4 8.7	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.2	12.8 13.0 11.9 10.3 9.3 9.4 10.2 11.0 10.2 7.1 4.7 4.9 5.3 5.3 5.6 6.7 6.9 6.7 6.5 7.1 6.5 7.1 6.5 8.6 9.6	8.3 8.2 8.4 8.3 8.7 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.0 7.3 8.5 7.4 7.2 6.8 6.8	5.9 6.2 5.9 6.1 7.0 7.2 7.7 8.0 6.7 5.8 6.0 6.4 6.6 6.8 6.9 6.7 6.7	7.1 6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.6 6.7 6.8 7.1 7.5 7.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.3 7.5 7.4 6.2 7.5 5.6 5.8 9 5.8 6.3 6.6 7 4.4 4.4 4.9 5.5 5.4	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4 6.4 3.4 9.3 4.8 5.1	7.0 7.4 6.0 5.5 5.2 5.3 5.4 5.6 5.7 5.5 5.3 5.5 5.7 5.6 4.9 4.5 4.1 4.5 5.1	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 19.0 20.0	JULY 4.5 4.5 4.5 4.5 5.9 5.9 6.0 5.9 5.8 5.9 6.1 6.6 7.0 7.0 6.8 6.2 7.1 8.5 11.7	4.8 5.1 5.1 6.2 6.2 6.6 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.5 8.4 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	17.0 16.8 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 5.4 5.4 6.7 7.4 8.8 7.9 6.4 8.7 7.0 6.4 8.7 9.5	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.8 5.8 6.8	12.8 13.0 11.9 10.3 9.3 9.4 10.2 11.0 10.2 7.1 4.7 4.9 5.3 5.8 6.2 6.7 6.5 7.1 6.5 8 6.7 6.7	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.3 8.4 8.5 7.4 7.2 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8 5.7 6.4 6.8 6.9 6.7 6.7 6.5 6.1 5.9 6.1	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.9 9.2 7.5 6.3 6.2 6.6 7.5 7.1 7.6 7.5 7.1 6.8 6.3 6.3 6.2 6.4 6.3 6.2 6.4 6.3 6.2 6.4 6.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 7.5 7.5 6.2 7.5 6.8 9.8 6.8 6.7 4.4 4.4 4.5 5.5 5.5 5.5 5.5 6.3 6.7 4.4 4.4 4.5 5.5 5.5 5.5 5.5 6.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 4.7 5.1 5.4 4.6 4.3 4.0 3.9 3.9 4.8 5.1 5.0 4.8 4.6	7.0 7.4 6.0 5.5 5.2 5.3 5.6 5.7 5.6 5.5 5.5 5.7 5.6 6.0 4.5 4.1 4.0 4.1 5.2 5.2 5.2 6.0 4.1 5.2 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	5.4 5.9 6.8 6.7 6.5 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 20.0	JULY 4.5 4.8 5.6 5.9 6.0 5.8 5.7 5.8 5.8 5.7 6.6 7.0 7.3 7.6 6.8 6.2 7.8 11.7 10.3 7.5 7.8	4.8 5.1 5.8 6.1 6.2 6.2 6.6 6.2 6.1 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.2 8.4 9.1 9.8 13.0 15.6	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 7.4 8.7 7.9 8.1 8.7 9.5 5.4	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.2 5.8 5.6 6.1 6.0 6.6	12.8 13.0 11.9 10.3 9.3 9.4 10.2 11.0 10.2 7.1 4.7 4.7 5.3 5.3 5.6 6.7 6.5 7.1 6.5 7.4 7.4 7.4 6.5 7.4 7.4 7.4 6.5 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.3 8.2 8.4 8.3 8.7 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.3 8.5 7.4 7.2 6.8 6.8 6.6 6.8 6.6	5.9 6.2 7.0 7.2 7.7 8.0 6.7 5.8 6.0 6.4 6.6 6.8 6.7 6.7 6.7 6.5 6.2 6.1 5.9 5.9	7.5 6.9 7.1 7.0 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.6 6.7 6.8 7.1 7.5 7.1 6.8 6.5 6.4 7.7 6.4 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 7.5 7.5 6.2 7.5 5.6 6.8 9.8 6.8 6.7 4.4 4.3 4.4 4.5 5.5 5.5 5.5 5.5 5.5 6.3 6.7 6.4 6.7 6.3 6.7 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.4 4.6 4.3 4.0 3.9 4.3 4.8 4.8 4.8 4.8 4.6 4.3	7.0 7.4 6.0 5.5 5.3 5.4 5.7 5.5 5.5 5.5 5.7 5.6 6.0 4.9 4.1 4.1 5.5 5.2 5.2 5.3 5.4 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 19.0 19.0 19.0	JULY 4.5 4.8 5.6 5.9 5.9 6.0 5.8 5.7 5.8 5.9 6.6 7.0 7.3 7.0 6.8 6.2 7.8 11.7 10.3 7.8 9.7	4.8 5.1 6.2 6.2 6.6 6.2 6.6 6.2 6.1 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.5 8.4 9.1 9.8 10.0 15.6 11.8 10.3 10.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 6.7 7.4 8.7 7.9 8.1 8.7 7.0 6.4 8.7 9.5 9.5 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.2 5.8 6.1 6.6 6.6 6.6 6.6	12.8 13.0 11.9 10.3 9.4 10.2 11.0 10.2 7.1 4.7 4.9 5.3 5.8 6.7 6.5 7.1 6.5 7.1 6.5 7.6 8.1 7.6	8.3 8.2 7.8 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.3 8.4 8.5 7.4 7.2 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	5.9 6.2 5.9 6.1 7.0 7.2 7.0 7.7 8.0 6.7 5.8 5.7 6.4 6.8 6.9 6.7 6.7 6.5 6.1 5.9 6.1	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.9 9.2 7.5 6.3 6.2 6.6 7.5 7.1 7.6 7.5 7.1 6.8 6.3 6.3 6.2 6.4 6.3 6.2 6.4 6.3 6.2 6.4 6.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 7.5 7.4 6.2 5.7 5.5 5.8 5.9 5.8 6.8 6.6 7.4 4.4 4.9 5.3 5.3 5.5 5.3 5.3 5.3 5.3 5.3 5.3 5.3	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.1 5.4 4.6 4.3 4.0 3.9 4.8 5.1 5.0 4.8 4.8 4.6 4.3	7.0 7.4 6.0 5.5 5.2 5.3 5.6 5.7 5.6 5.5 5.5 5.7 5.6 6.0 4.5 4.1 4.0 4.1 5.1 5.2 5.4 4.1 4.1 5.1 5.2 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	5.4 5.9 6.8 6.7 6.5 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 20.0	JULY 4.5 4.8 5.6 5.9 6.0 5.8 5.7 5.8 5.8 5.8 6.6 6.6 7.0 7.3 7.0 6.8 6.8 7.1 10.3 7.5 7.8 9.7 9.1	4.8 5.1 5.8 6.1 6.2 6.2 6.6 6.2 6.1 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.5 8.2 8.4 9.1 9.8 13.0 15.6 11.8 10.3 11.7 12.7 12.4 12.1	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 7.7 8.1 8.7 7.9 8.1 8.7 9.2 9.1 8.2 7.9	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.2 5.8 5.6 6.6 6.6 6.6 6.4 5.6	12.8 13.0 11.9 10.3 9.4 10.2 11.0 10.2 7.1 4.7 4.7 4.9 5.3 5.3 5.6 6.7 6.9 7.4 6.5 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	8.3 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.7 6.9 7.3 8.5 7.4 7.2 6.8 6.8 6.6 6.6 6.2 6.8 6.6 6.6	5.9 6.2 7.0 7.2 7.7 8.0 6.7 5.8 6.0 6.4 6.6 6.8 6.7 6.7 6.7 6.5 6.1 5.9 5.9	7.5 6.9 7.7 7.6 7.7 8.1 8.9 9.2 7.5 6.3 6.6 6.7 7.5 7.1 6.8 6.5 6.4 7.3 6.4 7.3 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.3 7.5 7.5 6.2 7.5 5.6 6.8 9.8 6.8 6.7 4.4 4.3 4.4 4.5 5.5 5.5 5.5 5.5 5.5 6.3 6.7 6.4 6.7 6.3 6.7 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	JUNE 6.7 7.3 6.2 5.7 5.3 5.0 5.0 5.1 5.3 5.6 5.5 5.2 4.7 5.4 4.6 4.3 4.0 3.9 4.3 4.8 4.8 4.8 4.8 4.6 4.3	7.0 7.4 6.0 5.5 5.3 5.4 5.7 5.5 5.5 5.5 5.7 5.6 6.0 4.9 4.1 4.1 5.5 5.2 5.2 5.3 5.4 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	5.4 5.9 6.8 6.7 6.5 6.6 7.2 6.6 6.6 7.2 7.5 7.6 8.0 8.7 10.6 11.9 11.2 10.4 10.2 13.3 12.5 14.0 19.0 19.0 19.0	JULY 4.5 4.8 5.6 5.9 5.9 6.0 5.8 5.7 5.8 5.9 6.6 7.0 7.3 7.0 6.8 6.2 7.8 11.7 10.3 7.8 9.7	4.8 5.1 6.2 6.2 6.6 6.2 6.6 6.2 6.1 6.2 6.4 6.5 7.3 8.2 9.0 8.8 8.5 8.4 9.1 9.8 10.0 15.6 11.8 10.3 10.2 11.4 11.4 11.4 11.4 11.4 11.4 11.4 11	17.0 16.8 14.6 12.2 10.8 12.9 14.9 14.9 12.8 9.4 5.3 5.6 6.2 6.7 7.4 8.7 7.9 8.1 8.7 7.0 6.4 8.7 9.5 9.5 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7	9.6 9.9 9.6 9.2 8.0 6.8 7.0 7.5 7.7 8.5 5.3 4.1 4.2 5.1 5.1 5.2 5.3 5.4 5.2 5.8 5.8 5.2 5.8 6.1 6.6 6.6 6.6 6.6	12.8 13.0 11.9 10.3 9.4 10.2 11.0 10.2 7.1 4.7 4.9 5.3 5.8 6.7 6.5 7.1 6.5 7.1 6.5 7.6 8.1 7.6	8.3 8.2 8.4 8.3 8.7 9.3 10.5 10.4 8.2 6.8 6.9 7.0 7.3 8.4 8.5 7.4 7.2 6.8 6.8 6.6 6.8 6.6 6.8 6.8 6.8	5.9 6.2 5.9 6.1 7.0 7.2 7.7 8.0 6.7 8.5 5.7 6.4 6.6 6.8 6.9 6.7 6.7 6.2 6.1 5.9 6.1 7.0	6.9 7.1 6.7 7.0 7.7 7.6 7.7 8.9 9.2 7.5 6.3 6.6 6.7 7.6 7.1 7.6 7.1 7.6 7.1 7.6 7.1 7.6 7.1 7.6 7.7

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

SPECIFIC	CONDU	CTANCE	(MICROSIEM	ENS/CM AT	25 DEG.	C), LEFT	INTAKE,	WATER YE	AR OCTOBER	2000 TO	SEPTEME	ER 2001
DAY	MAX	MIN	MEAN									
		OCTOBE	R	N	OVEMBER		D	ECEMBER			JANUARY	
	2.22					100			1200	202		202
1	347	329	339	716	627	682	323	315	319	395	354	370
3	345 354	336 337	341	725	623 594	702	323	312 309	317 315	553 356	347 346	411 352
4	373	346	344 359	731 739	678	711 713	320 315	309	308	353	345	350
5	381	360	374	724	648	686	319	305	313	358	344	353
										***	7.7-	
6	376	357	363	721	478	684	319	307	313	400	357	377
7	369	350	360	750	688	719	561	303	375	430	400	412
8	379	354	367	743	688	714	588	549	575	402	390	396
9	380 385	366	375	746	671	717	616	473	568	500 519	394 476	459 500
10	303	368	378	726	304	416	620	585	605	213	4/0	500
11	521	369	410	432	300	374	636	588	617	476	438	452
12	569	436	501	448	431	440	644	601	627	439	426	435
13	580	423	528	455	444	450	650	610	633	450	428	440
14	575	453	523	455	434	449	710	494	609	461	441	452
15	561	463	523	434	406	418	647	467	566	579	457	501
16	587	423	497	444	424	438	720	532	627	581	526	555
17	433	383	405	441	431	436	532	283	382	571	518	537
18	423	391	402	437	424	431	396	223	297	518	505	511
19	685	385	453	430	422	426	232	219	227	560	499	520
20	398	380	389	428	418	424	251	231	240	600	515	555
1.0							212					
21	422	395	407	426	416	421	249	240	244	632	599	621
22	434	408	418	418	406	412	258	246	253	637 617	610 593	619 602
23 24	550	414	424 472	418 417	398 401	409 410	273 278	256 265	266 272	600	580	588
25	601	418	528	416	399	409	290	275	283	592	588	590
			525		555							
26	617	503	575	577	255	388	361	290	324	594	585	590
27	609	486	551	345	281	328	344	313	324	599	581	589
28	630	411	508	346	342	344	364	317	329	594	579	588
29	603	445	526	346	337	342	471	339	397	579	556	567
30 31	592 674	473 543	548 620	338	323	330	529 543	378 349	484 456	673 628	547 567	586 591
32	0/4	343	020				243	343	430	020	307	331
MONTH	685	329	445	750	255	494	720	219	402	673	344	499
DAY	MAX	MIN	MEAN									
	1	FEBRUAR	Y		MARCH			APRIL			MAY	
	F.C7	F2F	F46	402	470	405	242	004	020	417	400	400
2	567 558	535 540	546 552	493 478	478 458	485 464	243 249	234 240	238 244	417 428	402 411	409 421
3	541	530	534	462	433	450	255	244	251	439	424	432
4	530	513	519	433	422	428	261	253	257	446	432	441
5	513	490	500	547	432	487	269	260	266	666	446	624
						272						
6 7	647 618	494 536	583 565	581 584	537 559	547 571	278 278	268	273 277	680 669	639 456	664 548
8	536	507	517	582	545	566	287	276 278	283	479	452	458
9	548	505	517	784	548	635	290	282	287	602	472	535
10	588	536	558	755	671	711	282	257	269	655	487	592
122			2.12		1.1	22.0	50.0	72.2	2.22		212	
11	547	535	541	672	649	656	275	257	265	710	612	667
12	543	537	541	659	651	655	262	254	258	704	676	695
13 14	537 533	526 499	531 516	682 591	584 518	625 549	264 270	259 264	261 266	742 743	678 715	715 732
15	499	473	486	518	471	495	283	269	277	742	696	720
16	473	450	457	471	425	449	290	282	287	749	701	728
17	460	435	447	425	372	401	298	289	295	751	702	731
18	443	427	434	372	340	355	301	292	297	747	715	734
19	455	440	448	344	326	334	312	293	303	744	706	731
20	458	451	454	328	321	324	329	312	322	744	720	736
21	457	445	449	322	292	313	339	328	334	756	715	736
22	445	430	436	292	260	276	342	335	337	748	420	645
23	510	422	458	261	226	235	344	335	340	472	420	451
24	510	462	487	242	234	238	358	344	349	490	465	478
25	591	446	496	250	240	246	360	351	356	528	490	510
26	545	470	505	258	249	253	372	347	357	547	517	528
27	502	462	479	274	257	263	386	372	379	586	509	560
28 29	504	491	499	288	272	277	394	385	389	509	426	443
30				298 299	285 261	290 280	394 406	386 391	391 399	433 390	382 377	413 383
31				268	238	251		391		390	380	386
MONTH	647	422	502	784	226	423	406	234	304	756	377	576

MONTH

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC	CONDU	JCTANCE	(MICROSIEN	ENS/CM AT	25 DEG.	C), LEFT	INTAKE,	WATER YE	AR OCTOBE	R 2000 TO	SEPTEME	BER 2001
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	:R
1	422	390	406	350	333	342	778	675	742	778	736	763
2	415	252	312	345	324	334	773	722	759	791	753	775
3	319	260	282	353	332	341	797	765	785	802	755	785
4	265	253	260	370	350	360	815	514	744	788	755	773
5	258	250	255	375	352	364	796	480	638	800	754	778
6	268	251	260	376	364	371	771	588	698	810	768	792
7	285	263	274	391	370	380	723	624	693	818	783	802
8	307	279	294	391	368	382	737	687	710	819	784	802
9	323	304	314	392	352	374	766	709	748	833	802	818
10	344	323	333	406	388	398	751	457	685	837	816	825
11	353	337	346	409	394	403	617	450	550	830	762	800
12	391	347	360	411	396	404	642	390	551	830	580	722
13	470	391	429	418	399	412	515	386	431	664	600	629
14	525	470	492	424	408	417	462	393	417	660	425	548
15	526	493	509	426	413	420	460	398	440	696	438	521
16	547	514	522	431	421	427	462	450	457	444	399	418
17	554	157	291	435	421	430	500	458	479	489	422	469
18	305	261	290	445	431	439	548	493	519	545	485	523
19	321	305	313	460	437	445	620	540	574	587	527	549
20	331	294	314	478	446	453	640	473	562	611	480	587
21	349	322	336	485	447	460	533	435	492	677	408	518
22	354	347	351	555	456	483	575	455	513	677	474	550
23	363	259	343	585	458	516	596	441	552	509	448	474
24	283	240	270	604	485	539	441	391	418	541	455	489
25	260	258	259	599	470	539	482	426	452	565	410	501
26	266	257	261	640	500	550	544	452	497	552	416	456
27	283	266	273	666	474	590	641	535	590	552	466	486
28	300	280	291	684	602	638	681	623	660	519	478	493
29	319	293	308	684	596	643	714	628	691	592	475	510
30	339	313	328	730	608	689	744	714	734	661	497	577
31				762	654	725	750	723	739			
MONTH	554	157	329	762	324	460	815	386	597	837	399	624
VEAR	837	157	471									

AY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
1	500	462	483	732	669	703	349	307	329	596	519	554
2	520	476	494	756	692	709	384	349	364	587	447	539
3	547	448	515	752	677	713	407	356	385	603	529	569
4	561	512	538	775	680	719	406	343	374	570	540	554
5	586	446	533	784	727	771	430	373	409	599	536	571
6	609	543	583	775	674	752	430	383	410	588	536	563
7	659	543	592	803	715	759	565	408	480	605	546	580
8	689	549	616	788	717	753	588	549	576	643	549	598
9	688	393	501	768	650	740	615	558	589	731	570	670
10	605	546	577	741	381	554	621	582	605	806	708	739
11	589	537	568	673	387	446	636	588	617	1030	806	935
12	585	542	566	397	328	369	645	600	627	960	845	896
13	586	555	570	415	388	398	650	608	634	907	810	855
14	595	551	579	453	415	426	650	464	578	836	745	795
15	632	566	600	499	453	475	1160	581	923	785	612	710
16	643	586	619	475	424	443	909	647	802	880	778	842
17	692	611	641	496	454	469	647	290	472	1170	832	1040
18	681	591	638	519	494	509	398	228	298	1050	995	1030
19	753	629	699	540	514	530	253	221	235	995	823	905
20	731	565	652	586	520	564	268	249	261	968	806	888
21	669	541	582	607	553	585	290	268	278	806	728	754
22	601	533	561	620	584	604	317	290	305	750	715	729
23	652	548	610	624	592	608	348	317	332	776	747	762
24	717	588	627	629	506	604	378	348	364	769	755	764
25	636	574	606	644	589	616	398	374	383	760	724	738
26	608	521	562	627	330	490	428	398	411	724	693	706
27	648	583	614	447	274	339	481	428	452	703	679	688
28	760	604	670	274	230	241	513	481	499	691	651	670
29	760	625	720	273	241	257	514	498	506	694	652	677
30	749	627	695	307	273	289	530	509	519	693	641	672
31	716	653	672				564	526	546	869	643	758

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC	CONDUC	TANCE	(MICROSIEME	NS/CM AT	25 DEG.	C), MIDDLE	INTAKE,	WATER	YEAR OCTOBER	2000	TO SEPTEM	BER 2001
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUA	RY		MARCH			APRIL			MAY	
1	763	633	706	579	546	561	264	239	251	511	444	489
2	636	587	617	546	529	537	287	257	273	523	486	502
3	588	561	577	529	518	522	306	279	292	546	514	529
4	561	543	554	519	509	514	318	294	307	557	520	543
5	543	523	532	534	509	515	331	313	322	673	554	658
6	531	518	521	730	534	619	338	327	333	686	643	670
7	1050	531	742	982	730	846	340	327	334	676	589	627
8	1050	928	972	1140	982	1080	349	331	340	665	546	627
9	958	921	938	1140	1040	1070	357	300	345	708	655	685
10	921	778	845	1160	1020	1070	300	264	277	711	677	694
11	797	678	751	1120	880	970	280	265	271	717	677	703
12	678	574	613	880	769	817	284	265	273	713	680	700
13	574	539	553	769	608	667	310	276	289	746	681	720
14	539	529	533	608	534	560	327	298	309	747	719	736
15	543	538	540	534	505	516	352	318	339	744	697	722
16	567	541	552	507	497	504	362	348	354	752	703	730
17	554	539	545	500	463	484	370	356	364	753	703	732
18	555	525	542	463	425	443	367	344	357	747	715	735
19	525	502		450	415	433	399	350	380	746	706	732
20	504	489	495	456	402	429	415	396	406	746	722	738
21	407	402	400	400	210	200	400	407	116	758	717	739
21	497	483	489	406	310	382	426	407	416			739
22	501	494		310	262	282	414	396	403	752	682 475	
23 24	497 604	484 485		264 296	228 240	240 264	405 418	388 400	397 409	684 491	463	530 479
25	683	604		334	272	297	419	403	410	530	491	512
26	857	637	733	351	313	330	452	419	437	549	518	530
27	757	647		371	336	352	473	448	458	589	549	566
28	647	579		387	360	373	482	466	475	550	413	465
29				396	366	385	488	439	480	413	375	392
30				393	267	307	511	439	494	389	373	384
31				270	242	254				392	382	387
MONTH	1050	483	619	1160	228	536	511	239	360	758	373	612
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	424	390		443	400	424	785	733	765	785	748	771
2	418	263	332	464	398	415	778	759	769	792	753	777
3	320	263	285	492	446	461	803	768	790	804	754	785
4	265	257	262	468	432	446	828	766	810	791	754	773
5	258	255	257	474	419	438	831	721	797	802	753	779
6	265	257	261	475	401	429	828	721	807	812	767	791
7	279	265	272	444	410	430	811	708	764	820	782	801
8	301	279		435	390	409	759	703	743	821	784	803
9	324	301		453	390	415	772	736	757	833	802	819
10	349	324	338	499	442	460	757	497	702	838	816	827
11	376	348	362	505	454	472	771	582	716	840	794	818
12	428	376		497	464	478	771	501	686	831	574	719
13	476	424		530	497	516	637	528	593	665	602	630
14	534	476		597	526	563	539	396	436	729	614	657
15	534	500	515	643	581	617	430	394	408	748	452	540
16	555	513	525	683	608	642	498	418	468	452	389	415
17	563	175		681	637	667	539	498	525	492	421	475
18	262	211		698	655	684	598	527	559	549	486	526
19	224	210		736	690	713	652	589	612	588	525	550
20	244	224		746	706	728	687	517	640	615	583	600
21	279	244	262	706	658	688	709	659	688	690	531	637
22	315	279		701	623	653	690	598	630	690	476	551
23	347	269		703	629	671	619	542	594	511	451	476
24	288	245		723	665	711	699	579	664	546	458	501
25	273	261		738	676	718	592	499	534	589	515	557
26	306	272		759	697	728	616	523	560	618	465	556
27	335	306	321	796	638	753	675	613	633	559	508	530
28	358	335	347	792	717	760	700	657	678	563	508	541
29	391	357	372	756	689	728	724	683	705	653	529	580
30 31	416	390	401	758 777	735 738	746 757	748 751	724 723	737 742	693	621	658
									662	840	389	648
MONTH	563	175	330	796	390	591	831	394	002	040	369	040
YEAR	1170	175	559									

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

SPECIFIC	CONDUC	TANCE (MICROSIEME	NS/CM AT	25 DEG.	C), RIGHT	INTAKE,	WATER YE	AR OCTOBER	2000 TO	SEPTEME	BER 2001
DAY	MAX	MIN	MEAN									
		OCTOBE	R	N	OVEMBER		I	ECEMBER			JANUARY	
1	631	579	607	784	733	767	351	309	331	595	519	554
2	642	595	622	776	755	768	391	350	368	625	535	590
3	672	613	641	781	760	773	436	390	401	640	625	632
4	672	645	661	789	759	776	465	436	448	645	621	631
5	691	617	650	783	757	774	498	465	485	647	623	636
6	716	674	698	775	738	758	521	484	507	648	619	634
7	718	677	700	803	752	782	565	503	545	643	619	636
8	716	685	703	788	724	761	588	549	575	809	643	722
9	721	674	696	767	727	755	616	558	589	917	809	875
10	720	679	702	753	667	726	621	583	604	1050	856	900
11	727	682	702	692	385	447	636	589	616	1370	1050	1290
12	739	715	730	396	328	368	644	600	627	1360	1230	1290
13	746	722	738	413	388	397	650	608	634	1230	1130	1190
14	757	722	734	455	413	425	763	509	610	1130	1030	1070
15	772	732	755	502	455	477	1160	580	925	1050	1000	1040
16	783	763	776	475	422	442	910	648	802	1000	936	978
17	794	747	773	505	455	473	648	454	566	1320	989	1180
18	790	746	772	527	505	517	475	277	326	1100	1040	1090
19	772	685	743	550	525	539	288	265	272	1040	913	981
20	748	686	716	589	529	573	268	264	265	1010	811	912
21	714	687	700	614	560	593	290	268	278	811	730	758
22	713	677	696	623	587	607	316	290	305	752	717	731
23	740	696	708	627	591	612	347	316	332	778	749	764
24 25	742 725	681 681	712 705	650 684	599 644	627 660	377 398	347 374	363 383	771 763	757 727	766 741
26	695	680	689	680	445	616	427	397	410	727	697	710
27	744	691	725	577	268	367	481	427	451	710	687	695
28	760	744	754	268	228	240	513	481	498	700	660	679
29 30	760 752	721 697	738 731	275	242	258	512	497	506	714	662 678	693
31	753	701	737	309	275	291	529 564	510 526	518 546	716 902	661	702 782
MONTH	794	579	710	803	228	572	1160	264	487	1370	519	834
DAY	MAX	MIN	MEAN									
DAI				PIAA		DIEMIN	PLAA		DIEMIN	PIAA		DIEM
		FEBRUAR	Y		MARCH			APRIL			MAY	
1	779	639	720	582	548	563	337	308	326	580	559	564
2	642	591	621	548	531	539	330	324	326	619	580	594
3	591	564	579	531	520	525	330	324	327	636	609	626
4	564	544	556	522	512	516	340	330	335	645	620	638
5	544	525	534	537	512	517	349	340	344	667	636	656
6	533	519	523	735	537	622	357	349	353	683	641	667
7	1050	533	745	987	735	850	371	357	364	675	641	661
8	1060	931	974	1150	987	1080	387	371	379	693	648	674
9	960	923	940	1150	1040	1080	398	387	391	705	654	688
10	923	781	848	1160	1030	1080	389	338	367	708	675	697
11	801	680	755	1120	883	972	362	337	353	712	675	700
12	680	575	615	883	771	819	359	354	355	705	677	696
13	575	541	555	771	654	691	366	356	362	743	679	715
14 15	541 546	530 540	535 543	654 555	555 517	580 530	370 379	366 369	368 375	744 748	716 696	733 721
16	570	543	555					379	382	751	703	730
17	557	543	548	517 504	504 494	512 499	385 395	379	390	751	703	730
18	558	527	544	496	491	493	408	394	400	748	716	735
19	527	504	510	492	480	485	422	405	414	745	707	732
20	506	491	497	485	482	484	430	417	424	745	720	737
21	500	485	491	488	450	482	442	424	434	753	716	736
22	503	496	500	450	317	379	454	434	444	752	680	720
23	499	486	492	384	291	328	465	448	455	686	476	531
24 25	607 689	486 607	520 663	395 400	371 394	390 397	478 484	457 470	466 476	491 529	464	479 511
26 27	934 784	664 651	778 711	405 414	400 405	403 409	490 501	469 473	477 485	548 589	518 548	530 566
28	651	582	613	422	413	418	526	498	511	551	413	465
29			013	431	422	427	540	517	526	413	372	392
30			220	430	332	386	565	538	547	386	372	382
31				351	284	308				390	381	387
MONTH	1060	485	624	1160	284	573	565	308	405	753	372	626

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

SPECIFIC	COMPOC	TANCE	(MICROSIEM	ENS/CM AT 2	5 DEG.	C), RIGHT	INTAKE,	WATER Y	EAR OCTOBE	R 2000 TC	SEPTEME	ER 2001
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	425	390	407	522	451	477	785	752	768	781	749	769
2	418	237	350	549	520	531	777	759	770	794	754	777
3	260	234	251	547	484	505	799	769	789	805	755	786
4	262	256	260	493	443	459	827	786	810	790	755	774
5	256	255	256	482	422	447	830	786	811	802	755	780
6	264	255	259	484	405	438	826	782	808	812	770	792
7	277	264		458	413	436	807	733	764	821	784	802
8	299	277	288	445	407	423	759	726	741	821	785	803
9	321	298		497	445	465	771	734	756	832	802	818
10	347	321	336	528	484	494	752	726	742	835	814	824
11	374	346	360	543	527	530	769	726	749	837	791	816
12	424	374	394	567	543	561	769	542	696	832	575	720
13	471	423	441	581	555	575	636	523	592	666	601	631
14	527	471	493	643	574	616	544	395	435	730	613	659
15	527	492	509	677	622	651	429	392	407	748	455	543
16	547	512	522	700	646	673	496	416	466	455	392	417
17	555	172		714	669	692	537	496	524	494	423	476
18	205	147	179	722	687	707	596	527	557	549	487	527
19	222	205	215	737	692	719	650	587	611	594	526	552
20	241	222	230	746	708	729	686	641	655	637	586	605
21	276	241		708	678	693	707	657	687	689	637	664
22	311	276	295	702	620	654	689	595	630	688	475	551
23	334	309		706	658	673	643	592	607	508	449	474
24	325	280		720	689	709	698	588	668	542	456	497
25	289	281	286	735	700	720	592	498	534	598	519	562
26	308	287	298	762	728	747	614	523	559	620	465	557
27	333	308	320	796	745	766	673	614	632	558	508	530
28	358	333		793	738	762	700	670	678	571	508	544
29	394	358		756	708	729	721	690	706	652	528	580
30	451	394	418	761	737	750	746	721	735	693	642	663
31				777	739	759	751	722	741			
MONTH	555	147	330	796	405	616	830	392	665	837	392	650
YEAR	1370	147	592									

TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	ı	N	OVEMBER		Di	ECEMBER			JANUARY	
1	16.5	15.0	15.5	11.0	9.5	10.0	5.5	5.0	5.5	1.0	.5	.5
2	17.5	15.5	16.5	11.0	9.0	10.0	5.0	3.5	4.5	1.0	.0	.5
3	18.0	16.0	17.0	11.0	9.5	10.0	3.5	2.5	3.0	1.0	.0	.5
4	18.5	16.5	17.5	11.5	10.5	11.0	3.0	2.0	2.5	1.0	.5	.5
5	18.0	17.0	17.5	11.0	10.5	10.5	3.5	2.5	3.0	.5	.5	.5
6	17.5	16.5	17.0	11.5	10.0	10.5	3.5	2.5	3.0	1.0	.5	.5
7	17.0	15.5	16.5	10.5	9.5	10.0	3.5	1.5	2.5	1.0	.5	1.0
8	16.0	14.0	15.0	10.0	9.0	9.5	2.0	1.5	2.0	1.0	.5	1.0
9	14.0	12.5	13.5	10.0	9.5	10.0	3.0	1.5	2.0	1.5	1.0	1.0
10	12.5	11.5	12.0	11.5	10.0	11.0	3.0	1.0	2.0	1.5	.5	1.0
11	13.5	11.0	12.0	11.5	11.0	11.0	3.0	1.5	2.5	1.5	.5	1.0
12	13.5	11.5	12.5	11.0	10.5	11.0	4.5	3.0	3.5	2.0	1.0	1.5
13	14.5	12.0	13.0	10.5	10.0	10.0	4.0	3.0	3.5	2.0	1.0	1.5
14	15.0	13.0	14.0	10.5	10.0	10.0	3.0	3.0	3.0	1.5	1.0	1.5
15	15.5	14.0	15.0	10.0	8.5	9.0	3.5	2.5	3.0	2.0	1.5	2.0
16	15.5	15.0	15.0	8.5	8.0	8.5	3.5	3.0	3.0	3.0	2.0	2.5
17	15.0	14.5	14.5	9.0	8.0	8.5	7.5	3.5	5.5	3.0	2.0	2.5
18	14.5	14.0	14.5	8.0	7.5	8.0	5.0	4.0	4.5	2.5	2.5	2.5
19	14.5	13.5	14.0	7.5	6.5	7.0	4.0	3.0	3.5	2.5	2.5	2.5
20	15.0	13.0	13.5	7.0	6.0	6.5	3.0	2.5	3.0	2.5	2.0	2.0
21	15.0	13.0	14.0	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.0	1.5
22	15.0	13.0	14.0	6.0	4.5	5.0	2.5	2.0	2.5	1.5	1.0	1.0
23	14.0	12.5	13.0	5.0	4.0	4.5	2.0	1.0	1.5	1.5	.5	1.0
24	13.5	12.0	13.0	4.5	3.0	4.0	1.5	1.0	1.0	1.5	1.0	1.5
25	14.0	12.5	13.0	4.0	3.0	3.5	1.5	.5	1.0	2.0	1.5	1.5
26	14.5	13.0	13.5	5.5	3.0	4.0	1.0	.0	.5	2.0	1.0	1.5
27	14.5	13.5	13.5	5.5	5.0	5.0	1.5	.5	1.0	2.0	1.0	2.0
28	14.5	13.0	13.5	5.5	5.0	5.5	1.5	1.0	1.0	2.5	1.5	2.0
29	13.0	11.0	12.0	5.5	5.0	5.5	1.5	.5	1.0	2.0	1.5	2.0
30	11.5	10.0	11.0	6.0	5.5	5.5	1.0	.0	.5	2.0	2.0	2.0
31	11.0	9.5	10.0				.5	.0	.5	2.5	2.0	2.0
MONTH	18.5	9.5	14.1	11.5	3.0	8.0	7.5	.0	2.5	3.0	.0	1.4

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued TEMPERATURE, WATER (DEG. C), LEFT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	2.0	2.5	3.5	2.5	3.0	5.0	4.5	4.5	18.0	16.0	17.0
2	3.0	2.5	2.5	3.5	3.0	3.5	5.5	4.5	5.0	19.0	17.5	18.5
3	2.5	2.0	2.5	4.5	3.5	4.0	6.5		5.5	20.0	18.5	19.0
4	2.5	1.5	2.0	4.0	3.0	3.5	7.5	5.5	6.5		19.5	20.5
5	2.5	.5	1.5	3.0	2.0	2.5	8.5	6.5	7.5	23.0	21.0	22.0
6	2.5	.5	1.5	2.5	1.5	2.0	8.5	7.5	7.5	22.0	20.0	21.0
7	3.0	1.5	2.0		2.0	3.0	8.0	7.5	7.5		17.0	18.5
8	2.5	2.0	2.0	4.0	3.0	3.5	8.0		7.5	18.5	17.0	17.5
9 10	3.0 4.5	3.0	3.0	4.0	3.5	3.5 4.0	10.5	7.5	8.5 10.5	20.0	16.5 17.0	18.0 18.5
10	4.5	3.0	3.3	•.5	3.0	4.0	11.5	10.0	10.5	20.5		
11	3.5	2.0	2.5		3.5	4.5	10.5	10.0	10.0	21.5	18.0	20.0
12	2.5		2.0	5.5	4.0	4.5	10.0	9.0	9.5	23.0	19.5	21.0
13 14	3.5	2.0	2.5	5.0 4.5	4.0	4.5	11.0	9.5	10.0	21.0	19.0	20.0
15	3.5	3.0		4.5	3.5	4.0	12.5	10.5	11.5	20.5	18.0	19.0
16	3.5	2.5	3.0	5.5	4.5		12.5	11.5	12.0	19.0	17.5 17.0	18.0 17.5
17 18	3.5	3.0 1.5	3.0	5.5 6.0	5.0	5.5 5.5	12.0 11.0	11.0	11.5 10.5	18.0 17.0	16.5	16.5
19	3.0	1.5	2.5	6.0	4.0	5.0	11.0	9.5	10.5	19.0		17.5
20	4.0	2.5	3.5	6.0	5.0	5.5	11.5	10.0	11.0	19.5	17.0	18.0
									10.0	10 E	10 0	18.0
21	4.5	3.5	4.0	6.0	5.5	5.5	12.5 15.0	11.0	12.0 13.5	18.5	18.0 16.0	17.0
22 23	3.5	1.5	2.0	5.5 5.5	4.0	4.5	17.0	14.0	15.5	16.5	16.0	16.0
24	3.0	2.0	2.5	5.5	4.5	5.0	17.5	15.5	16.5	17.0	15.5	16.5
25	3.0	2.5	3.0	5.5	4.0	5.0	17.5	14.5	15.5	17.0	16.5	16.5
0.5			2.0		4.5	4.5	15.0	13.0	14.5	16.5	16.0	16.5
26 27	3.5	2.5	3.0	5.5	3.5	4.0	15.5	13.5	14.5	16.5	16.0	16.0
28	4.0	3.0	3.5	5.5	4.0	5.0	16.0	14.5	15.5	17.5	16.0	17.0
29				5.5	5.0	5.0	16.0	14.0	15.0	18.5	16.5	17.5
30				5.0	4.5	5.0	16.5	14.0	15.5	18.5 18.0	17.0 16.5	18.0 17.5
31				5.0	4.5	4.5		955		10.0	10.5	27.5
MONTH	4.5	.5	2.6	6.0	1.5	4.3	17.5	4.5	10.9	23.0	15.5	18.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN			
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN		MIN	MEAN		MIN SEPTEMBE	
		JUNE			JULY			AUGUST	MEAN 24.0			24.5
DAY 1 2	17.5 17.0		MEAN 17.0 16.0	26.0 24.5	JULY 24.5 22.0	25.5 23.0	25.5 26.0	AUGUST 23.0 23.5	24.0	25.5 25.0	23.5 23.0	24.5 24.0
1 2 3	17.5 17.0 17.5	JUNE 16.0 15.0 16.0	17.0 16.0 16.5	26.0 24.5 23.0	JULY 24.5 22.0 21.0	25.5 23.0 22.0	25.5 26.0 25.5	AUGUST 23.0 23.5 24.5	24.0 24.5 25.0	25.5 25.0 24.5	23.5 23.0 22.5	24.5 24.0 23.0
1 2 3 4	17.5 17.0 17.5 17.5	JUNE 16.0 15.0 16.0 16.5	17.0 16.0 16.5 17.0	26.0 24.5 23.0 22.5	JULY 24.5 22.0 21.0 22.0	25.5 23.0 22.0 22.5	25.5 26.0 25.5 26.0	23.0 23.5 24.5 24.0	24.0 24.5 25.0 25.0	25.5 25.0 24.5 23.5	23.5 23.0 22.5 21.5	24.5 24.0 23.0 22.5
1 2 3	17.5 17.0 17.5	JUNE 16.0 15.0 16.0	17.0 16.0 16.5	26.0 24.5 23.0	JULY 24.5 22.0 21.0	25.5 23.0 22.0	25.5 26.0 25.5	AUGUST 23.0 23.5 24.5	24.0 24.5 25.0	25.5 25.0 24.5 23.5 23.5	23.5 23.0 22.5	24.5 24.0 23.0 22.5 22.0
1 2 3 4	17.5 17.0 17.5 17.5	JUNE 16.0 15.0 16.0 16.5	17.0 16.0 16.5 17.0 18.0	26.0 24.5 23.0 22.5 23.5	JULY 24.5 22.0 21.0 22.0 22.0 22.0	25.5 23.0 22.0 22.5 23.0	25.5 26.0 25.5 26.0 26.5	23.0 23.5 24.5 24.0 23.5	24.0 24.5 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5	23.5 23.0 22.5 21.5 21.0	24.5 24.0 23.0 22.5 22.0
1 2 3 4 5	17.5 17.0 17.5 17.5 18.5	JUNE 16.0 15.0 16.0 16.5 17.0	17.0 16.0 16.5 17.0 18.0	26.0 24.5 23.0 22.5 23.5	JULY 24.5 22.0 21.0 22.0 22.0 22.0 21.5	25.5 23.0 22.0 22.5 23.0 22.5 23.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5	24.0 24.5 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5	24.5 24.0 23.0 22.5 22.0 22.0
1 2 3 4 5	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0	JUNE 16.0 15.0 16.0 16.5 17.0 18.5 19.0 19.5	17.0 16.0 16.5 17.0 18.0	26.0 24.5 23.0 22.5 23.5	JULY 24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5	25.5 23.0 22.0 22.5 23.0 22.5 22.5 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0	23.0 23.5 24.5 24.0 23.5 24.0 23.5	24.0 24.5 25.0 25.0 25.0 25.5 26.5 28.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0
1 2 3 4 5 6 7 8 9	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0	JUNE 16.0 15.0 16.0 16.5 17.0 18.5 19.0 19.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0	JULY 24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 22.5 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0	23.0 23.5 24.5 24.0 23.5 24.0 23.5	24.0 24.5 25.0 25.0 25.0 25.5 26.5 28.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5	24.5 24.0 23.0 22.5 22.0 22.0
1 2 3 4 5 6 7 8 9	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5	JUNE 16.0 15.0 16.0 16.5 17.0 18.5 19.0 19.5 19.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0	JULY 24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0	25.5 23.0 22.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0	25.5 26.0 25.5 26.5 27.0 28.0 29.0 29.5 30.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5	24.0 24.5 25.0 25.0 25.0 25.5 26.5 28.0 28.5	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 19.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0	JULY 24.5 22.0 21.0 22.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5	24.0 24.5 25.0 25.0 25.0 25.0 26.5 28.5 28.5 27.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 20.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0	17.0 16.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 23.0 24.0 25.0	JULY 24.5 22.0 21.0 22.0 22.0 21.5 21.5 21.5 21.0 23.0 23.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 22.5 24.0 24.0 23.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5 26.5 24.5	24.0 24.5 25.0 25.0 25.0 25.5 26.5 28.5 28.5 28.5	25.5 25.0 24.5 23.5 23.5 23.5 23.5 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5	JUNE 16.0 15.0 16.0 16.5 17.0 18.5 19.5 19.5 19.5 20.0 20.0 21.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.5 21.0 23.0 22.5 22.5	25.5 23.0 22.5 23.0 22.5 23.0 22.5 22.5 24.0 24.0 23.0 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5 26.5 24.5	24.0 24.5 25.0 25.0 25.0 25.0 26.5 28.5 28.5 27.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 20.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0	17.0 16.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 23.0 24.0 25.0	JULY 24.5 22.0 21.0 22.0 22.0 21.5 21.5 21.5 21.0 23.0 23.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 22.5 24.0 24.0 23.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5 26.5 24.5	24.0 24.5 25.0 25.0 25.0 25.5 26.5 28.0 28.5 28.5 27.0 25.5 24.5	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 21.0 21.0 21.5 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 23.5 24.0	JUNE 16.0 15.0 16.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0	17.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5 20.5 20.5 20.5 23.5 23.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.0 23.5 23.5 23.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.5 21.0 23.0 23.0 22.5 22.0 21.5	25.5 23.0 22.5 23.0 22.5 23.0 22.5 22.0 24.0 24.0 23.0 22.5 22.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.5 25.0 26.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5 22.5 22.5 22.5 22.0 21.5 20.0 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 17.5 18.5 20.5 21.0 20.5 22.0 23.5 23.5 24.0 25.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 23.5 23.5 23.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 22.5 22.0 21.5 21.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.5 24.0 24.0 23.0 22.5 22.0 22.5 22.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.5 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.5 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 24.5 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.5 24.0 23.5 24.0 24.5	23.5 23.0 22.5 21.5 21.0 20.5 21.0 20.5 21.0 21.5 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 21.0 21.0 21.0 21.0 21.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 25.0 25.0 24.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 24.0 21.0	17.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 20.5 22.5 23.5 24.0 22.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.0 22.5 23.5 23.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 23.0 22.5 22.5 22.5 22.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 24.0 24.0 23.0 22.5 22.0 22.5 22.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.5 25.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 24.5 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0	23.5 23.0 22.5 21.0 21.0 20.5 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 17.5 18.5 20.5 21.0 20.5 22.0 23.5 23.5 24.0 25.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 23.5 23.5 23.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 22.5 22.0 21.5 21.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.5 24.0 24.0 23.0 22.5 22.0 22.5 22.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.5 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 24.5 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 21.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 25.0 24.0 24.0 23.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 21.5 23.0 24.0 21.0	17.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5 21.0 22.5 23.5 24.0 22.0 21.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 23.0 25.0 25.0 25.0 25.0 24.5 23.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 22.0 23.0 22.5 22.0 21.5 22.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 22.0 23.0 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.5 25.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 24.5 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 20.5 21.0 20.5 21.0 21.5 22.5 22.5 22.0 21.5 22.0 21.5 20.0 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 21.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 25.0 24.0 23.0 23.0 23.0 23.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 21.5 23.0 21.0 22.0	17.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 24.0 22.0 22.5 22.5 23.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 22.5 23.5 23.5 24.5 25.0 25.0 25.5	24.5 22.0 21.0 22.0 22.0 21.5 21.5 21.5 21.0 23.0 23.0 21.5 22.5 22.0 21.5 22.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 22.5 22.0 23.0 22.5 22.0 23.0 22.5 24.0 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.5 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 24.5 25.5 27.0 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0 19.0 19.5 20.0	23.5 23.0 22.5 21.0 21.0 20.5 21.0 21.5 22.5 22.5 22.5 22.5 22.0 21.5 22.0 21.5 22.5 22.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 21.0 19.0 18.0 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 25.0 24.0 23.0 23.5 24.0 23.5 24.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.5	17.0 16.0 16.5 17.0 18.0 19.0 20.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0 22.0 21.5 22.5 23.5 23.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 22.5 23.5 24.5 25.5 25.5 26.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 22.5 22.0 21.5 22.0 23.0 22.5 22.0 21.5	25.5 23.0 22.5 23.0 22.5 22.5 22.5 24.0 23.0 22.5 22.0 23.0 22.5 22.0 22.0 23.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.5 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.5	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 24.5 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 21.0 20.5 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 21.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 25.0 24.0 23.0 23.0 23.0 23.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 21.5 23.0 21.0 22.0 22.5	17.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5 22.5 23.5 24.0 22.0 22.5 23.5 23.5 24.0 22.0 22.5 23.5 23.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 23.5 23.5 25.5 25.5 26.0 26.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 23.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.0 22.5 22.0 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 19.0 19.0 19.5 20.0 21.0 21.5 22.0	23.5 23.0 22.5 21.0 21.5 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 21.0 19.0 18.0 19.5 19.0 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.5 24.0 23.0 23.5 24.0 23.5 24.0 23.5 24.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.5 22.5 22.0 21.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0 22.0 22.5 23.5 23.0 22.5 23.0 22.5 23.0 22.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 22.5 23.5 24.5 25.5 25.5 26.0 26.5 27.5	24.5 22.0 21.0 22.0 22.0 22.5 21.5 21.0 23.0 22.5 22.5 22.0 21.5 22.0 23.0 22.5 23.0 23.0 23.0 23.0	25.5 23.0 22.0 22.5 23.0 22.5 22.5 24.0 23.0 22.5 22.0 23.0 22.0 23.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.5 24.0 24.0 24.0 24.5	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0 19.0 19.5 20.0 20.0 21.5 22.0	23.5 23.0 22.5 21.5 21.0 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.0 18.0 17.5 17.5 17.5 18.0 19.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 23.0 19.0 18.0 18.0 19.5 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.0 23.0 23.0 23.5 24.0 23.0 23.5 24.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 21.5 23.0 21.0 22.0 22.5	17.0 16.5 17.0 18.0 19.5 20.5 20.5 20.5 22.5 23.5 24.0 22.0 22.5 23.5 23.5 24.0 22.0 22.5 23.5 23.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 23.5 23.5 25.5 25.5 26.0 26.5	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 23.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.0 22.5 22.0 22.5	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 19.0 19.0 19.5 20.0 21.0 21.5 22.0	23.5 23.0 22.5 21.0 21.5 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 21.0 19.0 18.0 19.5 19.0 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	17.5 17.0 17.5 18.5 19.5 20.5 21.0 20.5 23.5 24.0 25.0 23.0 23.0 23.5 24.0 23.0 23.5 24.0 23.5 24.0 23.5 24.0 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 21.5 23.0 21.0 22.0 22.5 22.5 22.5 22.0	17.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0 22.0 22.5 23.5 23.5 23.0 22.0 22.5 23.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 23.5 23.5 25.5 25.5 26.5 26.5 27.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 23.0 21.5 22.5 22.0 21.5 22.0 21.5 22.5 22.0 21.5 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 22.0 22.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 27.5 24.0 24.0 24.0 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 20.0 19.0 19.0 19.5 20.0 20.0 21.0 21.5 22.0 22.0	23.5 23.0 22.5 21.5 21.0 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.0 18.0 17.5 17.5 17.5 18.0 19.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 23.0 19.0 18.0 18.0 19.5 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.5 24.0 23.0 23.5 24.0 23.5 24.0 23.5 24.0	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.5 22.5 22.0 21.5 21.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 24.0 22.0 22.5 23.5 23.0 22.5 23.0 22.5 23.0 22.5	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 22.5 23.5 24.5 25.5 25.5 26.5 26.5 28.0 27.0	24.5 22.0 21.0 22.0 22.0 22.0 22.5 21.5 21.0 23.0 22.5 22.5 22.5 22.5 23.0 23.0 23.0 23.5 22.5 22.5 22.5 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 24.0 23.0 22.5 22.0 22.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 28.0 29.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5	AUGUST 23.0 23.5 24.5 24.0 23.5 25.5 27.5 27.5 26.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 22.0 20.0 19.0 19.0 19.5 20.0 21.5 22.0 21.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 20.5 21.0 20.5 22.5 22.5 22.5 22.5 22.5 22.5 22	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 19.0 18.0 18.0 19.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	17.5 17.0 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 21.0 21.0 22.0 22.5 22.5 22.0 22.5 22.0 22.5 22.0 22.5 22.0	17.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 24.0 22.0 21.5 22.5 23.5 23.0 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 23.0 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 23.5 23.5 24.5 25.0 25.5 25.5 26.5 27.5 28.0 27.0 26.5 27.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 23.0 22.5 22.5 21.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23	25.5 23.0 22.5 23.0 22.5 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.0 22.0 22	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.0 29.5 30.0 27.5 26.5 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 25.0 26.0	AUGUST 23.0 23.5 24.5 24.0 23.5 25.5 27.0 27.5 26.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.0 28.5 28.5 28.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0 19.0 19.5 20.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5	23.5 23.0 22.5 21.0 20.5 21.0 20.5 21.5 22.5 22.5 22.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.0 20.0 20.0 20.5 20.5 20.5 20.5 20	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 21.0 18.0 18.5 19.0 19.5 20.0 21.0 21.0 21.0 21.5 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.5 17.0 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 23.5 24.0 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.0 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.5 22.5 22.0 22.5 22.5 22.0 22.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 23.5 22.5 23.0 22.0 22.5 23.0 22.0 22.0 22.0 23.0 22.0 22.0 23.0 22.0 23.0 23	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 22.5 23.5 24.5 25.0 25.5 26.5 26.5 27.5 28.0 27.0 26.5 27.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 22.5 21.5 21.0 23.0 23.0 21.5 22.0 21.5 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 23.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	23.0 23.5 24.5 24.0 23.5 25.5 27.5 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.5 24.5 24.5 24.5 24.0 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.5 24.5 24.5 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.5 24.0 24.5 24.0 24.5 24.5 24.5 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 28.5 27.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 20.0 19.0 19.0 19.5 20.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0	23.5 23.0 22.5 21.5 21.0 21.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.0 18.0 17.5 17.5 17.5 17.5 18.0 19.0 19.5 20.5 20.5 20.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 21.0 19.0 18.0 19.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	17.5 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.0 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.5 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.0 22.5 22.1 22.0 22.5 22.0 22.0 22.5 22.0 22.0 24.0 21.5 22.5 22.0 22.0 22.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 23.5 24.0 22.0 21.5 23.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 22.5 25.5 26.5 26.5 26.5 27.0 26.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 22.5 22.5 22.5 22.5 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 24.0 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 28.0 29.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 25.0 24.5 25.0 25.5	23.0 23.5 24.5 24.0 23.5 25.5 27.5 27.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 23.5 22.0 20.0 19.0 19.5 20.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5	23.5 23.0 22.5 21.0 20.5 21.0 20.5 21.5 22.5 22.5 22.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.5 22.0 21.5 22.0 20.0 20.0 20.5 20.5 20.5 20.5 20	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 21.0 18.0 18.5 19.0 19.5 20.0 21.0 21.0 21.0 21.5 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.5 17.5 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.5 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.5 22.5 22.0 22.5 22.5 22.0 24.0 24.0 21.5 22.5 22.5 22.0 24.0 24.5 24.5 24.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 23	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 22.5 23.5 24.5 25.0 25.5 26.5 26.5 27.5 28.0 27.0 26.5 27.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 22.5 21.5 21.0 23.0 23.0 21.5 22.5 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.0 22.5 24.0 23.0 22.5 22.0 23.5 24.0 24.0 24.0 24.5 25.0 26.0 27.0 26.5 27.0 27.0	25.5 26.0 26.5 27.0 28.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 25.5 25.5 25.5 25.5 26.0 26.5	23.0 23.5 24.5 24.0 23.5 25.5 27.5 27.5 27.5 24.0 24.0 24.0 24.0 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 24.0 24.0 24.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 27.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 20.0 19.0 19.0 19.5 20.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0 21.5 22.0 20.0	23.5 23.0 22.5 21.0 21.0 21.0 21.5 22.5 22.5 22.0 21.5 22.0 18.0 17.5 17.5 18.0 19.0 19.5 20.5 20.5 21.0 20.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 23.5 23.0 22.5 23.0 21.0 19.0 18.0 19.5 20.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	17.5 17.5 17.5 18.5 19.5 20.5 21.0 20.5 22.0 23.5 24.0 23.0 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	JUNE 16.0 15.0 16.5 17.0 18.5 19.5 19.5 19.5 20.0 20.0 21.5 23.0 23.0 24.0 21.0 22.5 22.0 22.5 22.1 22.0 22.5 22.0 22.0 22.5 22.0 22.0 24.0 21.5 22.5 22.0 22.0 22.5	17.0 16.0 16.5 17.0 18.0 19.0 19.5 20.5 20.5 20.5 22.5 23.5 23.5 23.5 24.0 22.0 21.5 23.0 22.0 22.0 22.5 23.0 22.5 23.0 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	26.0 24.5 23.0 22.5 23.5 23.0 23.0 24.0 25.0 25.0 25.5 22.5 25.5 26.5 26.5 26.5 27.0 26.5 28.0	24.5 22.0 21.0 22.0 22.0 22.0 21.5 21.5 21.0 23.0 22.5 22.5 22.5 22.5 22.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	25.5 23.0 22.5 23.0 22.5 22.5 22.5 24.0 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	25.5 26.0 25.5 26.0 28.0 29.0 29.5 30.0 27.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.5 25.0 24.5 25.0 25.5	23.0 23.5 24.5 24.0 23.5 25.5 27.5 27.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	24.0 24.5 25.0 25.0 25.0 25.5 28.5 28.5 27.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	25.5 25.0 24.5 23.5 23.5 23.5 24.0 24.5 24.0 20.0 19.0 19.0 19.0 20.0 21.0 21.5 22.0 21.5 22.0 20.0	23.5 23.0 22.5 21.0 21.0 20.5 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.0 23.5 23.0 23.5 21.0 19.0 18.0 18.0 19.5 20.0 21.0

> 01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	TEM	PERATURE,	WATER	(DEG. C),	MIDDLE	INTAKE,	WATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER	3		DECEMBER			JANUARY	
	16.0	14 5	15.0	10 5	9.5	10.0	6.0	5.5	5.5	.5	.0	.0
1 2	16.0 16.5	14.5 15.0	15.0	10.5	9.5	10.0		4.0	4.5	.5	.0	.5
3	17.5	15.5	16.5	11.0	9.5	10.0		3.0	3.5	.5	.0	.5
4	18.0	16.5	17.0	11.5	10.5	11.0		2.0	2.5	.5	.5	.5
5	17.5	17.0	17.5	11.0	10.5	11.0		2.5	2.5	.5	.5	.5
6	17.5	17.0	17.5	11.5	10.0	10.5			2.5	.5	.5	.5
7	17.0	16.0	17.0	10.5	9.5		3.0	2.0	2.5	1.0	.5	.5
8	16.0	14.5	15.5	10.0	9.5		2.5	1.5	2.0	1.0	1.0	1.0
9 10	14.5	13.0	13.5	10.5 12.5	9.5	10.0 11.5	2.5	1.5	2.0	1.5	1.0	1.5
					12.0			2.0	2.5	1.5	1.0	1.0
11 12	12.5	11.0 11.5	12.0	12.5	11.0		4.0	3.0	3.5	2.0	1.0	1.5
13	14.0	12.0	13.0	11.0	10.5			3.0 3.5 3.0	3.5	2.0	1.0	1.5
14	14.5	13.0	14.0	11.0	10.5		3.5	3.0	3.0	2.0	1.5	1.5
15	15.5	14.0	15.0	10.5	9.5	10.0	3.5	3.0	3.0	2.5	1.5	2.0
16	15.0	15.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	3.5	2.0	3.0
17	15.0		15.0	8.5	8.0			3.0	5.0	3.5	3.0	3.0
18	15.0	14.5	14.5	8.0	7.5	8.0		4.0 3.0	5.0 3.5	3.5	2.5	3.0 2.5
19 20	14.5	13.5 13.5	14.0	7.5	6.5 5.5			3.0 2.0	2.5	2.5	1.5	2.5
								1.0	1.5	1.5	.5	1.0
21	14.5		14.0	6.0 5.0	5.0 4.0		1 5	1 0	1.5		.5	.5
22 23	14.0	12.5	13.5					.5	.5	1.0	.5	.5
24	13.5	12.5	13.0	4.0	3.0 2.5			.5	.5	1.0	.5	1.0
25	13.5	12.5	13.0	3.5	2.0	2.5	.5	.5	.5	1.5	1.0	1.5
26	14.5	13.0	13.5	5.5		4.0	.5		.0		1.0	1.5
27	14.0	13.5	13.5	6.5	5.0		.5		. 5		1.0	1.5
28	14.5	13.0	14.0	6.5	6.0			.5	.5	2.0	1.5	2.0
29	13.0	11.5 10.5	12.5	6.0	6.0 5.5				.5	2.5	2.0	2.0
30 31	11.5	9.5	10.0						.0	2.5	2.0	2.5
MONTH	18.0	9.5	14.2	12.5	2.0	8.2	7.5	.0	2.3	3.5	.0	1.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
			-						5.0	17.5	16.0	17.0
1 2	2.5	2.0	2.0	3.0	2.5			5.0	5.0	19.0	17.5	18.5
3	2.0	1.5	1.5	4.0	3.0				6.0	20.0	18.5	19.5
4	1.5	1.0	1.5	4.0	3.5			6.5	7.5	21.5	19.5	20.5
5	1.5	. 5	1.0	3.5	2.0	3.0	10.0	7.5	8.5	22.5	21.0	22.0
6	1.5	.5	1.0	2.5	2.0	2.5	10.0	9.0	9.0			21.0
7	3.0	1.5	2.0	4.0	2.0			8.5	9.0	20.0	17.5	19.0
8	2.5	2.0	2.0	5.0	3.5		9.0	8.0	8.5	19.0	17.0 17.0	18.0
9 10	4.0	2.0	2.5	4.5 5.0	3.5				9.0	20.0	17.5	18.5
					4.0		10.5	10.0	10.0	21.0	18.5	19.5
11 12	3.5	2.0 1.5	1.5	5.0 6.0	4.0				9.5	22.5	19.5	21.0
13	2.5	1.5	2.0	5.5	4.5				10.5	22.0	19.5	20.5
14	2.5	2.0	2.5	5.0	4.0	4.5	13.0	10.5	11.5	21.0	19.0	20.0
15	3.0	2.5	3.0	5.0	4.0	4.5	13.5	12.0	12.5	20.0	18.0	19.0
16	3.0	3.0	3.0	6.5	5.0				13.0	18.5	17.5	18.0
17	3.0	2.5	3.0	6.5	6.5			12.0	12.5	18.0	17.0 16.5	17.5
18	2.5	1.5	2.0	6.5 6.5	5.5 5.5			11.0	11.5	17.0 18.5	16.0	17.0
19 20	2.5	2.0	2.5	7.0	6.0			10.5	11.5	19.0	17.0	18.0
									10 5	10 E	18.0	18.0
21 22	4.0	3.0	3.5	7.0 5.5	5.5				12.5	18.5 18.0	16.0	17.0
23	2.5	1.5	2.0	5.5	4.0				16.0	16.0	15.5	15.5
24	3.0	1.5	2.5	6.0	5.0	5.5	18.0	16.0	17.0	17.0	15.5	16.0
25	3.0	2.5	2.5	6.0	4.5			15.5	16.0	17.0	16.5	16.5
26	3.5	3.0	3.0	6.0	4.5				15.0	16.5	16.0	16.5
27	4.0	3.0	3.5	5.5	3.5				14.5	16.5	16.0	16.0
28	4.0	3.0	3.5	6.5	4.5				15.5 15.5	17.5 18.5	16.0 17.0	16.5 17.5
29 30				6.0	5.5				15.5	18.5	17.0	17.5
31				5.0	4.5					18.0	16.5	17.0
MONTH	4.0	.5	2.4	7.0	2.0			5.0	11.4	22.5	15.5	18.2
PIONTA	4.0	. 5	4.4	7.0	2.0		20.0				45.00	

01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ--Continued

TEMPERATURE, WATER (DEG. C), MIDDLE INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	17.5	16.0	17.0	26.5	25.0	26.0	26.0	23.0	24.5	25.5	24.0	24.5
2	17.0	15.0	16.5	25.0	23.0	23.5	26.5	24.0	25.0	25.0	23.5	24.0
3	17.5	16.0	16.5	23.5	22.0	23.0	25.5	24.5	25.0	24.5	22.5	23.0
4	18.0	17.0	17.5	23.0	22.0	22.5	26.0	24.5	25.0	23.0	22.0	22.5
5	18.5	17.0	18.0	23.5	22.5	23.0	26.5	24.5	25.0	23.5	21.5	22.0
			10.5	22 5	22.5	23.0	27.0	24.5	26.0	23.5	21.0	22.0
6	19.0	18.0	18.5	23.5	22.0	22.5	28.0	25.5	27.0	23.5	21.0	22.0
7	19.5	18.5	19.0	23.0		22.0	29.5	27.0	28.0	23.5	21.0	22.0
8	20.0	18.5	19.5	23.0	21.5	22.5	30.0	27.5	28.5	24.0	21.5	22.5
9 10	20.0	19.0 19.0	19.5	23.5 24.5	21.5	24.0	29.5	27.5	28.5	24.0	22.5	23.0
	20.5											
11	20.5	19.5	20.0	24.5	23.5	24.0	28.0	27.0	27.5	24.0	22.5	23.5
12	21.5	19.5	20.5	24.0	23.0	23.5	27.0	25.0	26.0	24.0	22.5	23.0
13	23.0	21.0	22.0	23.5	22.5	23.0	25.0	24.5	25.0	23.5	21.5	22.5
14	23.5	22.5	23.0	23.0	22.0	22.5	25.5	24.0	24.5	22.5	20.0	21.0
15	23.5	23.0	23.5	24.0	21.5	22.5	25.0	24.5	25.0	20.0	18.0	19.0
16	24.5	23.5	24.0	24.5	22.0	23.0	25.5	25.0	25.0	18.0	17.5	18.0
17	24.0	21.0	22.0	25.0	23.0	24.0	26.0	25.0	25.0	18.5	17.5	18.0
18	22.5	21.0	21.5	25.0	23.5	24.5	26.0	24.0	25.0	19.5	17.5	18.5
19	23.0	21.5	22.5	25.5	24.0	24.5	25.5	24.5	25.0	20.0	18.0	19.0
20	24.0	22.5	23.0	25.5	23.5	24.5	26.0	24.5	25.0	19.5	19.0	19.5
21	24.0	22.5	23.0	26.0	23.5	25.0	25.5	24.5	25.0	20.5	19.5	20.0
22	23.5	22.0	22.5	26.0	24.0	25.0	26.0	24.5	25.0	21.0	20.0	21.0
23	23.0	22.0	22.5	26.5	24.5	25.5	25.0	24.0	24.5	21.5	20.5	21.0
24	22.0	21.5	22.0	27.5	25.5	26.0	24.5	23.5	24.0	22.0	21.0	21.5
25	23.0	21.5	22.0	28.5	26.5	27.5	24.5	23.0	23.5	21.5	21.0	21.5
					25.5	27.0	25.0	23.0	24.0	21.0	19.5	20.0
26	23.5	22.0	23.0	27.5	26.5		24.5	23.0	24.0	19.5	17.5	18.5
27	24.5	22.5	23.5	26.5	25.0	26.0	25.5	23.5	24.0	18.0	17.0	17.5
28	25.5	23.5	24.5	25.0	24.0	24.5		23.5	24.5	17.0	16.5	16.5
29	26.0	24.5	25.5	24.5	23.5	24.0	25.5	24.0	24.0	16.5	15.5	15.5
30	26.0	25.0	26.0	24.5	23.0	23.5	25.0			10.5	13.3	
31				25.0	23.0	24.0	25.0	24.0	24.0			
MONTH	26.0	15.0	21.3	28.5	21.5	24.1	30.0	23.0	25.2	25.5	15.5	20.8
YEAR	30.0	.0	12.9									

TEMPERATURE, WATER (DEG. C), RIGHT INTAKE, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 MAX MIN MEAN MIN MEAN MAX MIN DAY MAX MIN MEAN DECEMBER JANUARY OCTOBER NOVEMBER

MEAN

		OCTODE		**	CVLLIDE							
1	15.5	14.0	14.5	10.0	9.5	9.5	6.0	5.5	5.5	.0	.0	.0
2	16.0	14.5	15.5	10.0	9.5	9.5	5.5	4.0	4.5	.5	.0	.0
3	17.0	15.5	16.0	10.5	9.5	10.0	4.0	3.0	3.0	.5	.0	.0
4	18.0	16.0	17.0	11.0	10.5	10.5	3.0	2.0	2.5	.5	.0	.0
5	17.5	17.0	17.5	11.0	10.5	10.5	2.5	2.0	2.0	.5	.0	.0
-						7.7.2						
6	17.5	17.0	17.5	11.0	10.0	10.5	2.5	1.5	2.0	.5	.0	.0
7	17.5	16.0	17.0	10.0	9.5	10.0	2.5	1.5	2.0	.5	.0	.5
8	16.0	15.0	15.5	10.0	9.5	9.5	2.0	1.5	2.0	1.0	.5	.5
9	15.0	13.0	14.0	10.0	9.5	10.0	2.5	1.5	2.0	1.5	.5	1.0
10	13.0	11.5	12.0	12.5	10.0	11.0	2.5	1.0	2.0	1.5	1.0	1.5
11	12.0	11.0	11.5	12.5	12.0	12.5	3.0	2.0	2.5	1.5	.5	1.0
12	12.0	11.0	11.5	12.0	11.0	11.5	4.0	3.0	3.5	1.5	.5	1.0
13	13.0	12.0	12.5	11.0	10.5	10.5	4.0	3.0	3.5	2.0	1.0	1.5
14	14.0	13.0	13.5	11.0	10.5	10.5	3.5	3.0	3.5	2.0	1.0	1.5
15	15.0	14.0	14.5	10.5	9.5	10.0	3.5	3.0	3.0	2.5	1.5	2.0
13	13.0	14.0		20.0								
16	15.0	15.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	3.5	2.0	3.0
17	15.5	15.0	15.0	8.5	8.0	8.5	6.0	3.0	4.5	3.5	3.0	3.5
18	15.0	14.5	15.0	8.0	7.5	8.0	6.5	4.5	6.0	3.5	2.5	3.0
19	14.5	13.5	14.0	7.5	6.5	7.0	4.5	2.5	3.5	3.0	2.5	2.5
20	14.0	13.5	13.5	6.5	5.5	6.0	2.5	2.0	2.5	2.5	1.5	2.5
21	14.0	13.0	13.5	6.0	5.0	5.5	2.0	1.0	1.5	1.5	.5	1.0
22	14.0	13.0	13.5	5.0	4.0	4.5	1.5	1.0	1.5	.5	.0	.5
23	13.5	13.0	13.0	4.0	3.0	3.5	1.0	.5	.5	.5	.0	.5
24	13.5	12.5	13.0	3.0	2.5	3.0	1.0	.5	.5	1.0	. 5	.5
25	13.5	12.5	13.0	3.0	2.0	2.5	.5	.0	.5	1.5	1.0	1.5
26	14.0	13.0	13.5	4.5	3.0	3.5	.5	.0	.0	1.5	1.0	1.0
27	14.0	13.5	13.5	7.0	4.5	6.0	.5	.0	.0	2.0	1.0	1.5
28	14.0	13.0	13.5	6.5	6.0	6.5	.5	.5	.5	2.0	1.5	2.0
29	13.0	12.0	12.5	6.0	6.0	6.0	.5	.0	.5	2.0	1.5	1.5
30	12.0	10.5	11.0	6.0	5.5	6.0	.0	.0	.0	2.5	1.5	2.0
31	10.5	9.5	10.0				.0	.0	.0	2.5	2.0	2.5
MONTH	18.0	9.5	14.0	12.5	2.0	8.1	6.5	.0	2.2	3.5	.0	1.3
Part of the second												

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	TE	MPERATURE,	WATER	(DEG. C),	RIGHT II	NTAKE, WATE	R YEAR	OCTOBER	2000 TO	SEPTEMBER	2001	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.0	3.0	2.5	3.0	6.0	5.5	5.5	17.5	16.0	17.0
2	2.5	2.0	2.0	3.0	2.5	3.0	6.0	5.0	5.5	19.5	17.5	18.5
3	2.0	1.0	1.5	4.0	3.0	3.5	8.0	5.5	6.5		19.5 20.5	20.0
5	1.5	1.0	1.0	4.0 3.5	3.5 2.0	3.0	9.5	6.5 8.0	9.0	22.0 22.5	21.0	22.0
6	1.5	.5	1.0	2.5	2.0	2.0	11.0	9.5	9.5	21.5	20.0	21.0
7	3.0	1.5	2.0	4.0	2.0	3.0	9.5	9.0	9.5	20.0	18.0	19.5
8	2.5	2.0	2.0	5.0	3.0	4.0	9.5	8.5 8.5	9.0 9.5		17.5 17.0	18.0 18.0
9 10	4.0	2.0	3.5	4.5 5.0	4.0 3.5	4.5	13.5	11.5			17.5	18.5
11	3.5	2.0	3.0	5.0	4.0	4.5	13.5	11.5	12.5	21.5	18.5	20.0
12	2.0	1.0	1.5	6.0	4.0	5.0	11.5	11.0	11.0			21.0
13	2.5	1.0	2.0	5.5	5.0	5.0	13.0	11.0			19.5	20.5
14 15	3.0	2.0	3.0	5.0	4.5	5.0	14.0	12.0			18.0	19.0
16	3.0	3.0	3.0	6.5	5.0	5.5	14.0	13.5	13.5	18.5	17.5	18.0
17	3.0	2.5	3.0	7.0	6.5	6.5	13.5	12.5	13.0		17.0	17.5
18	2.5	1.5	2.0	7.0	6.5	6.5	12.5	11.5			16.5	16.5
19	2.5	1.0	2.0	7.0	6.0	6.5	12.0	11.0			16.0 17.0	17.0
20	3.0	2.0	2.5	7.5	6.5	7.0	12.5	10.5				
21	4.0	3.0	3.5	7.5	6.5	7.0	13.5	11.5				18.0
22	3.5	2.0	2.5	6.5	5.5	6.0	16.0	13.0 15.0			16.0 15.5	17.0 15.5
23 24	3.0	1.5	2.0	7.0	6.0	5.5 6.5	19.0	17.0			15.5	16.0
25	3.0	2.5	2.5	6.5	5.0	6.0	19.0	17.0			16.5	16.5
26	3.5	3.0	3.0	6.5	5.0	5.5	17.0	15.0				16.5
27	4.0	3.0	3.5	5.5	3.5	4.5	16.0	14.0				16.0
28	3.5	3.0	3.5	7.0	4.5	5.5 6.0	16.0	14.5 15.0			16.0 17.0	18.0
29 30				6.5	5.0	5.5	16.0	15.0			17.0	18.0
31				5.5	5.0	5.0					16.5	17.5
MONTH	4.0	.5	2.4	7.5	2.0	5.0	19.0	5.0	12.1	22.5	15.5	18.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	
DAY 1	MAX 17.5		MEAN 17.0	MAX 26.5		MEAN	MAX 25.5	AUGUST	24.0	25.0	SEPTEMB	ER 24.5
1 2	17.5 17.0	JUNE 16.0 15.5	17.0 16.0	26.5 26.0	JULY 26.0 24.0	26.5 25.0	25.5 26.0	AUGUST 23.0 24.0	24.0 25.0	25.0 24.5	24.0 23.0	ER 24.5 24.0
1 2 3	17.5 17.0 17.5	JUNE 16.0 15.5 16.0	17.0 16.0 16.5	26.5 26.0 24.0	JULY 26.0 24.0 22.5	26.5 25.0 23.0	25.5 26.0 25.5	AUGUST 23.0 24.0 24.5	24.0 25.0 25.0	25.0 24.5 24.5	24.0 23.0 22.5	24.5 24.0 23.0
1 2	17.5 17.0	JUNE 16.0 15.5	17.0 16.0	26.5 26.0	JULY 26.0 24.0	26.5 25.0	25.5 26.0	AUGUST 23.0 24.0	24.0 25.0 25.0 25.0	25.0 24.5 24.5 23.0	24.0 23.0 22.5 22.0	ER 24.5 24.0
1 2 3 4 5	17.5 17.0 17.5 18.0 18.5	JUNE 16.0 15.5 16.0 17.0	17.0 16.0 16.5 17.5	26.5 26.0 24.0 23.0	JULY 26.0 24.0 22.5 22.0 22.5	26.5 25.0 23.0 22.5 23.0	25.5 26.0 25.5 26.0	23.0 24.0 24.5 24.5	24.0 25.0 25.0 25.0 25.0	25.0 24.5 24.5 23.0 23.0	24.0 23.0 22.5 22.0 21.5	24.5 24.0 23.0 22.5 22.0
1 2 3 4	17.5 17.0 17.5 18.0	JUNE 16.0 15.5 16.0 17.0	17.0 16.0 16.5 17.5 18.0	26.5 26.0 24.0 23.0 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.5	26.5 25.0 23.0 22.5 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5	AUGUST 23.0 24.0 24.5 24.5 24.5 24.5	24.0 25.0 25.0 25.0 25.0	25.0 24.5 24.5 23.0 23.0	24.0 23.0 22.5 22.0 21.5 21.0	24.5 24.0 23.0 22.5 22.0
1 2 3 4 5	17.5 17.0 17.5 18.0 18.5	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.0 18.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0	26.5 26.0 24.0 23.0 24.0 23.5 23.5 23.0	JULY 26.0 24.0 22.5 22.0 22.5 22.5 22.0 22.5	26.5 25.0 23.0 22.5 23.0 23.0 22.5 22.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0	AUGUST 23.0 24.0 24.5 24.5 24.5 24.5 25.5 27.0	24.0 25.0 25.0 25.0 25.0 27.0 28.0	25.0 24.5 24.5 23.0 23.0 23.0 23.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0
1 2 3 4 5	17.5 17.0 17.5 18.0 18.5	JUNE 16.0 15.5 16.0 17.0 17.0	17.0 16.0 16.5 17.5 18.0	26.5 26.0 24.0 23.0 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.5	26.5 25.0 23.0 22.5 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5	AUGUST 23.0 24.0 24.5 24.5 24.5 24.5	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 28.5	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0	24.5 24.0 23.0 22.5 22.0
1 2 3 4 5 6 7 8 9	17.5 17.0 17.5 18.0 18.5 19.0 19.5 20.0 20.5	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.0	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5 19.5 20.0	26.5 26.0 24.0 23.0 24.0 23.5 23.0 23.5 23.5 24.5	JULY 26.0 24.0 22.5 22.5 22.5 22.5 22.0 22.0 22.0 23.0	26.5 25.0 23.0 22.5 23.0 23.0 22.5 22.0 22.5 24.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5	23.0 24.0 24.5 24.5 24.5 24.5 27.5 27.0 27.5 28.5	24.0 25.0 25.0 25.0 25.0 27.0 28.0 28.5 29.0	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 18.0 18.5 19.0 20.0 20.5 20.5	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.0	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5	26.5 26.0 24.0 23.0 24.0 23.5 23.0 23.5	JULY 26.0 24.0 22.5 22.5 22.5 22.5 22.0 22.0 22.0 23.0	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0	23.0 24.0 24.5 24.5 24.5 24.5 27.5 27.0 27.5 28.5	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 28.5 29.0	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 24.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.5
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 21.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5 20.0 20.0 20.0 22.0	26.5 26.0 24.0 23.0 24.0 23.5 23.5 24.5 24.5	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.5	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 24.5 24.0 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 28.5 27.0 25.0	23.0 24.0 24.5 24.5 24.5 24.5 27.0 27.5 28.5 27.0 27.0 25.0	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 29.0 27.5 29.0	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 23.5 23.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.3 23.5 23.5 23.5 23.5 23.5
1 2 3 4 5 6 7 8 9 10	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 19.5 22.5	17.0 16.0 16.5 17.5 18.0 19.5 19.5 20.0 20.5 22.0 23.0	26.5 26.0 24.0 23.0 24.0 23.5 23.0 23.0 23.5 24.5	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.5 22.0 23.0 24.5 23.5 22.5 22.0	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5	AUGUST 23.0 24.0 24.5 24.5 24.5 24.5 27.0 27.5 28.5	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.5 29.0 27.5 26.0 25.0 26.0 26.0	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 23.5 23.5 23.5 23.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 22.5 23.0	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5 19.5 20.0 20.0 22.0 23.0 23.5	26.5 26.0 24.0 23.0 24.0 23.5 24.5 24.5 24.5 24.0 23.5 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 23.0 22.5 22.5 24.0 24.5 24.0 23.0 22.5 24.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 27.0 25.0 25.5 25.0	23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 25.0 24.5 24.5	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.5 29.0 27.5 26.0 25.0 24.5	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 24.0 23.5 23.5 22.5 20.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5 22.5 22.5 22.5 20.0 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.3 23.5 23.5 23.5 23.5 21.0 18.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 22.5 23.0 23.5	17.0 16.5 17.5 18.0 18.5 19.0 19.5 20.0 20.5 22.0 23.0 23.5	26.5 26.0 24.0 23.0 24.0 23.5 24.5 24.5 24.5 24.0 23.5 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.5 22.0 23.0 24.5 23.5 22.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 24.5 24.0 23.0 22.5 24.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 29.5 28.5 27.0 25.5 25.0	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 25.0 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.0 27.5 29.0 27.5 26.0 24.5 25.0	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 23.5 23.5 23.5 23.5 22.5 20.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5 22.5 21.5 20.0 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 23.5 23.0 22.5 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 21.5 22.5 23.0 23.5 21.5 21.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0 20.0 20.5 22.0 23.0 23.5 24.0 22.5 21.5	26.5 26.0 24.0 23.0 24.0 23.5 24.5 24.5 24.5 24.0 23.5 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 22.5 22.5 22.5 24.0 24.5 24.0 23.0 22.5 24.0 23.0 24.5 24.0 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 27.0 25.0 25.5 25.0 26.0 26.0	23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 25.0 24.5 25.0 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.0 27.5 29.0 27.5 26.0 24.5 25.0 25.0 25.5	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 23.5 22.5 20.0 18.5 19.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5 22.5 22.5 22.5 21.5 20.0 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 23.5 21.0 18.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	17.5 17.0 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0 24.5 24.0 22.5 23.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 21.5 23.0 23.5 21.5 21.0 21.5	17.0 16.5 17.5 18.0 19.5 19.5 20.0 20.5 22.0 23.5 24.0 22.5 21.5	26.5 26.0 24.0 23.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.0 25.0 25.0 25.0	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.0 21.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 24.5 24.0 23.0 22.5 24.0 23.0 23.0 24.5 24.0 24.5 24.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.5 29.5 25.0 25.5 25.0 26.0 26.0 26.0	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 25.0 24.5 25.0 24.5 25.0 24.0 24.5	24.0 25.0 25.0 25.0 25.0 26.0 27.0 28.5 29.0 27.5 26.0 24.5 25.0 25.0 25.5	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 23.5 23.5 22.5 20.0 18.0 19.5 19.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5 21.5 21.5 21.5 21.5	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.0 22.5 23.5 23.5 23.5 21.0 18.5
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0 22.5 23.0 24.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 18.5 19.0 19.5 19.5 21.5 22.5 23.0 23.5 21.5 21.0 21.5 22.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5 20.0 20.5 22.0 23.0 24.0 22.5 22.5 22.5 23.5	26.5 26.0 24.0 23.0 23.0 23.0 23.5 24.5 24.5 24.0 23.5 24.5 24.0 23.5 24.0 23.5 24.5 24.0 23.5 24.0	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 22.5 22.5 22.5 22.0 21.5 22.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 23.0 24.5 24.0 23.0 24.5 24.0 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 27.0 25.5 25.0 26.0 26.0 26.0	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.0 27.5 29.0 27.5 26.0 25.0 25.0 25.0 25.0 25.0	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 24.0 25.5 20.0 18.0 18.5 19.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5 21.5 20.0 18.0 17.5 17.5 18.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 21.0 18.0 18.0 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	17.5 17.0 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0 24.5 24.0 22.5 23.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.5 19.0 19.5 19.5 21.5 22.5 23.0 23.5 21.5 21.5 22.5	17.0 16.5 17.5 18.0 19.5 19.5 20.0 20.5 22.0 23.5 24.0 22.5 21.5	26.5 26.0 24.0 23.0 23.0 23.0 23.5 24.5 24.5 24.0 25.0 25.0 25.5 25.5	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.0 21.5 22.0 21.5 22.0 23.0	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.5 29.5 25.0 25.5 25.0 26.0 26.0 26.0	AUGUST 23.0 24.0 24.5 24.5 24.5 27.0 27.5 28.5 27.0 24.5 24.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5	24.0 25.0 25.0 25.0 25.0 26.0 28.5 29.0 27.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 23.5 22.5 20.0 18.0 19.5 19.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5 21.5 21	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 23.5 21.0 18.5 19.5
1 2 3 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 22.0 23.0 23.5 24.0 24.5 24.0 22.5 23.0 24.0 24.5 23.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 19.5 19.5 19.5 21.5 22.5 23.0 23.5 21.5 22.5 22.5 22.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0 19.5 20.0 20.5 22.0 23.0 22.5 22.5 23.5 23.0 22.5 23.0	26.5 26.0 24.0 24.0 23.5 23.0 23.0 23.5 24.5 24.5 24.0 25.0 25.0 25.0 25.5 26.5 26.5 26.5	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.5 22.0 21.5 22.0 23.0 24.0 24.0 23.5 22.5 22.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 25.0 25.0 26.0 26.0 26.0 26.0 26.0	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 24.5 25.0 24.5 24.0 24.5 24.5 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.0 28.5 29.0 27.5 26.0 25.0 25.5 25.0 25.0 25.0 25.0 25.0 25	25.0 24.5 24.5 23.0 23.0 23.5 23.5 24.0 24.0 23.5 20.0 18.0 18.5 19.5 19.5 20.5 21.0 21.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5 22.5 22.5 21.5 20.0 18.0 17.5 17.5 18.0 19.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 21.0 18.5 19.0 19.5 20.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.5 17.0 18.0 18.5 19.0 20.5 20.5 20.5 22.0 23.0 23.5 24.0 24.5 23.0 24.0 24.5 23.0 24.0 22.5	JUNE 16.0 15.5 16.0 17.0 17.0 18.5 19.0 19.5 19.5 21.5 22.5 23.0 23.5 21.5 21.5 22.5 22.0 22.5	17.0 16.5 17.5 18.0 19.5 19.5 20.0 20.5 22.0 23.5 24.0 22.5 21.5 23.5 23.0 22.5 23.5	26.5 26.0 24.0 23.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.0 25.0 25.0 25.0 25.5 26.5 27.0 27.5	JULY 26.0 24.0 22.5 22.0 22.5 22.0 22.0 23.0 24.5 23.5 22.0 21.5 22.0 23.0 24.5 23.5 22.0 21.5	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 24.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 23.0 24.5 24.5 24.5 24.0 23.0 23.0	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.5 29.5 25.0 25.5 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 24.5 25.0 24.5 24.0 24.5 24.5 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.5 29.0 27.5 26.0 25.0 25.0 25.5 25.0 25.0 25.0 25.0 25	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 23.5 22.5 20.0 18.5 19.5 19.5 20.5 21.0 21.5 22.0	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.5 22.5 22.5 22.5 21.5 20.0 18.0 17.5 17.5 17.5 17.5 18.0 19.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 23.5 21.0 18.5 19.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	17.5 17.0 17.5 18.0 18.5 19.0 20.5 20.5 22.0 23.0 23.5 24.0 24.5 24.0 22.5 23.0 24.0 23.5 23.0	JUNE 16.0 15.5 16.0 17.0 17.0 18.0 19.5 19.5 19.5 21.5 21.5 22.5 23.0 23.5 21.5 22.5 22.5 22.0 21.5	17.0 16.0 16.5 17.5 18.0 18.5 19.0 20.0 20.5 22.0 23.0 22.5 22.5 23.0 22.5 23.0 22.5 23.0	26.5 26.0 24.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 25.0 25.0 25.5 25.5 26.5 26.5 27.0 27.5 28.5	JULY 26.0 24.0 22.5 22.5 22.5 22.0 22.0 23.0 24.5 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22	26.5 25.0 23.0 22.5 23.0 22.5 22.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 22.5 24.0 23.0 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.5 26.5 27.5	25.5 26.0 25.5 26.0 26.0 27.0 28.5 29.0 30.0 29.5 25.0 25.5 25.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	AUGUST 23.0 24.0 24.5 24.5 24.5 25.5 27.0 27.5 28.5 27.0 24.5 24.0 24.5 25.0 24.5 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	24.0 25.0 25.0 25.0 26.0 27.0 28.5 29.0 27.5 26.0 25.0 25.5 25.0 25.0 25.0 25.0 24.5 25.0 25.0 25.0 26.0 27.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28	25.0 24.5 24.5 23.0 23.0 23.5 24.0 24.0 24.0 24.0 28.5 20.0 18.0 18.5 19.5 19.5 19.5 20.5 20.0 21.5	24.0 23.0 22.5 22.0 21.5 21.0 21.0 21.0 21.5 22.5 22.5 21.5 22.5 21.5 20.0 18.0 17.5 17.5 18.0 19.0 19.5 20.5 20.5 21.0	24.5 24.0 23.0 22.5 22.0 22.0 22.0 22.5 23.5 23.5 21.0 18.0 18.5 19.0 19.5 20.0 21.0 21.0 21.5 21.5
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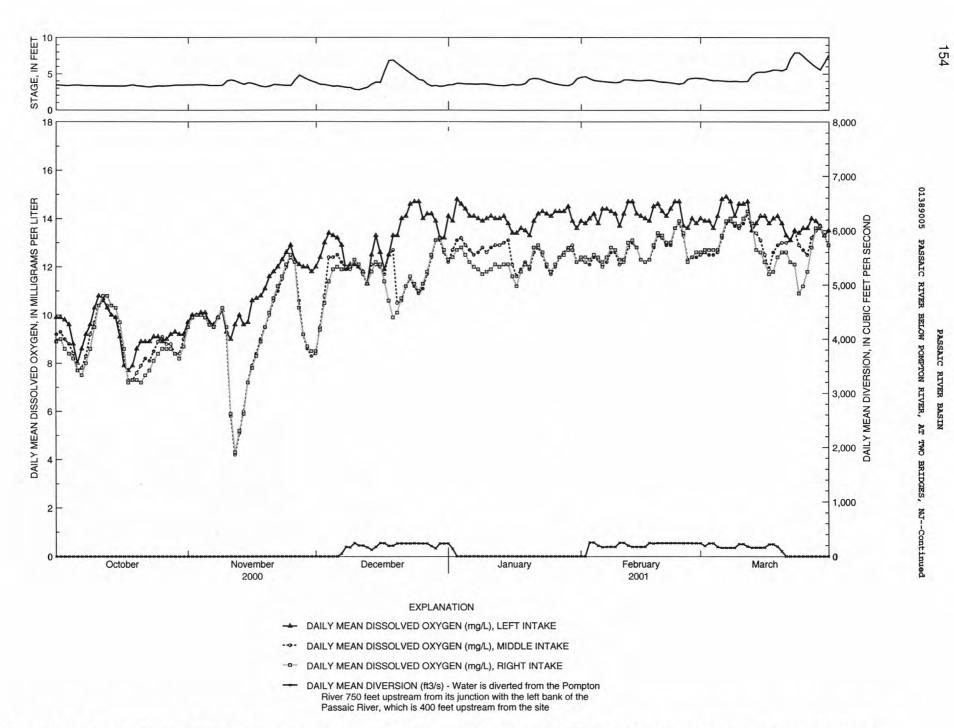


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges, water year 2001.

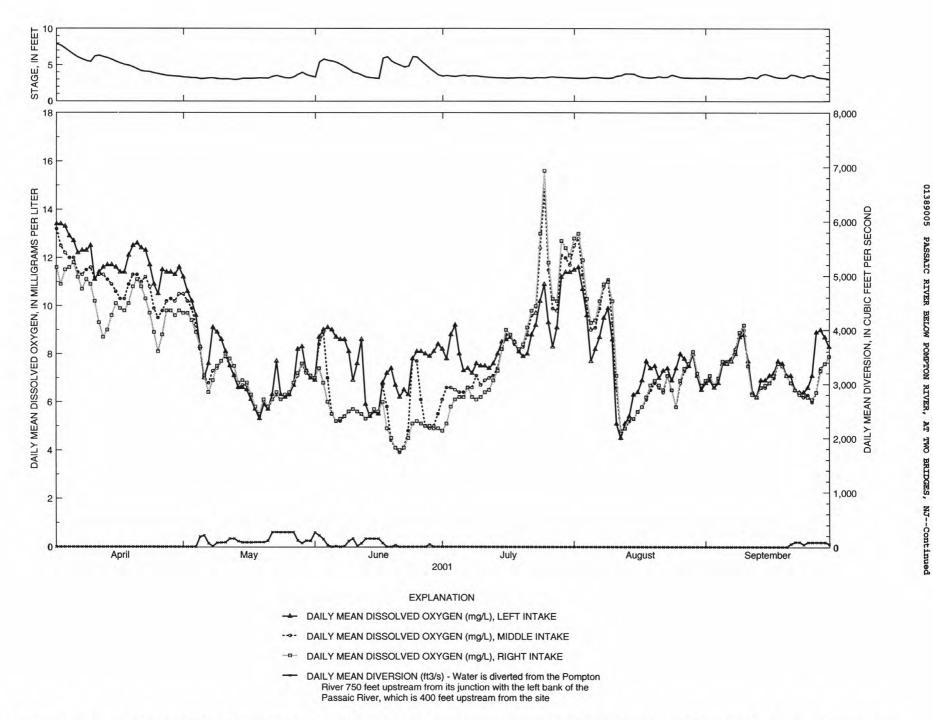
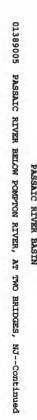
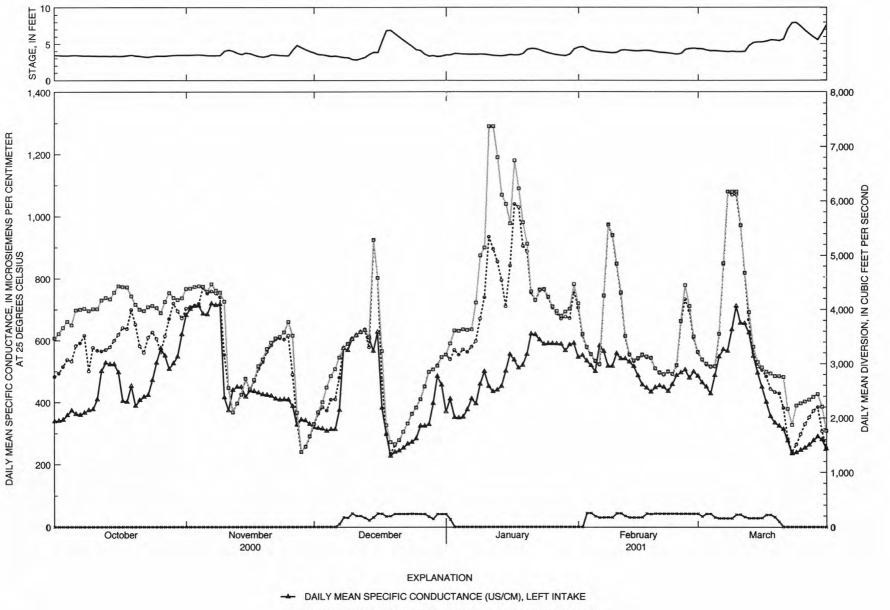


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

RIVER BASIN







- DAILY MEAN SPECIFIC CONDUCTANCE (US/CM), MIDDLE INTAKE
- DAILY MEAN SPECIFIC CONDUCTANCE (US/CM), RIGHT INTAKE
- DAILY MEAN DIVERSION (ft3/s) Water is diverted from the Pompton River 750 feet upstream from its junction with the left bank of the Passaic River, which is 400 feet upstream from the site

Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

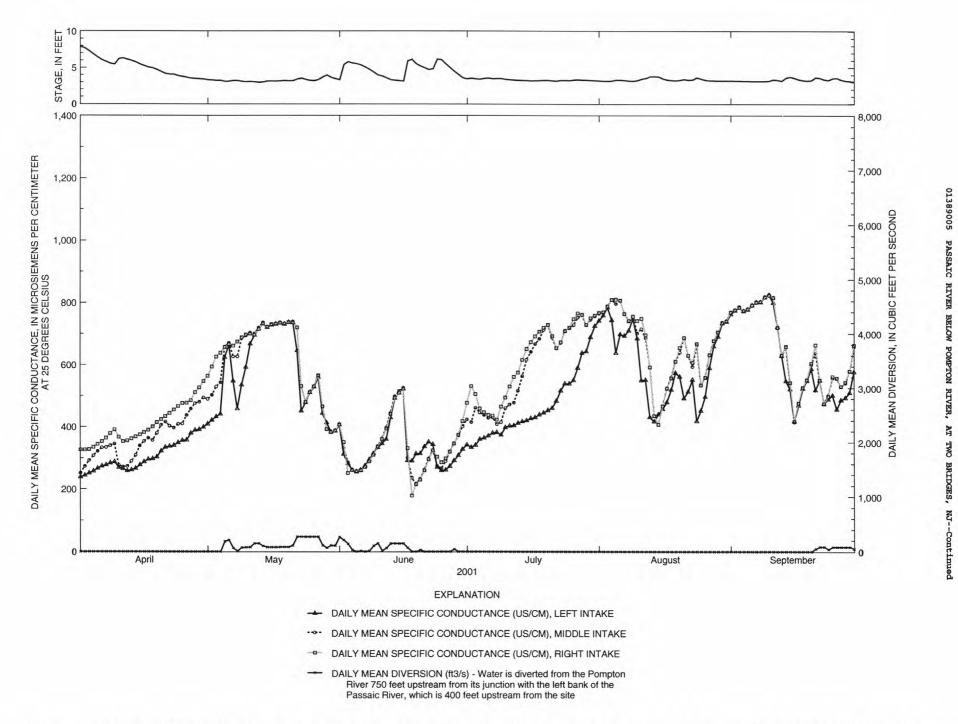


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

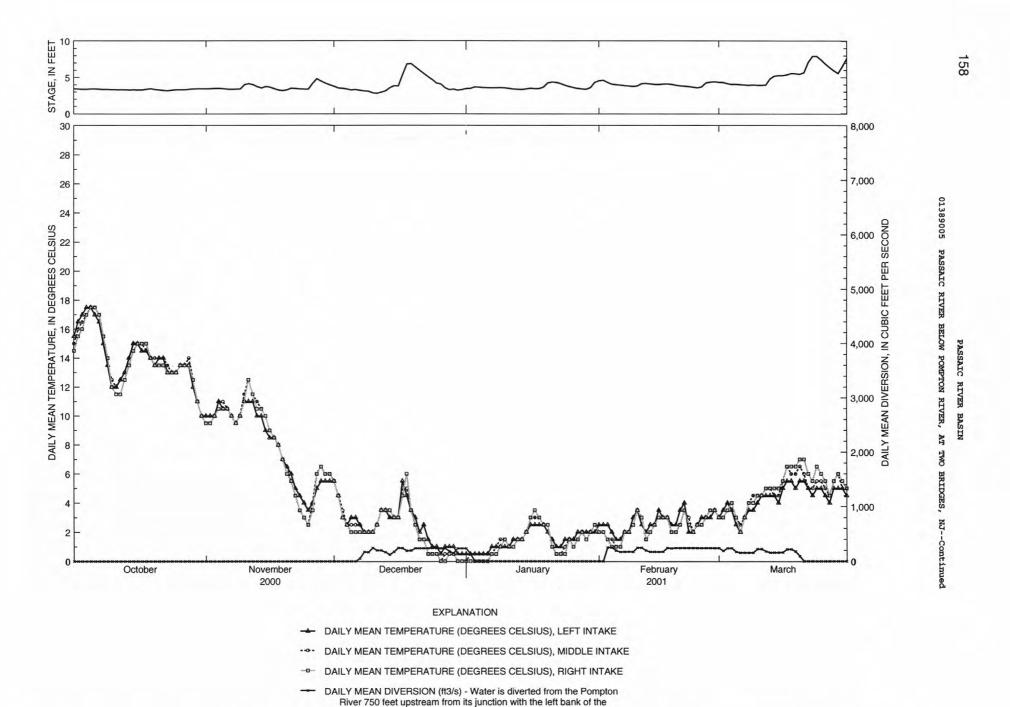


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued, water year 2001.

Passaic River, which is 400 feet upstream from the site

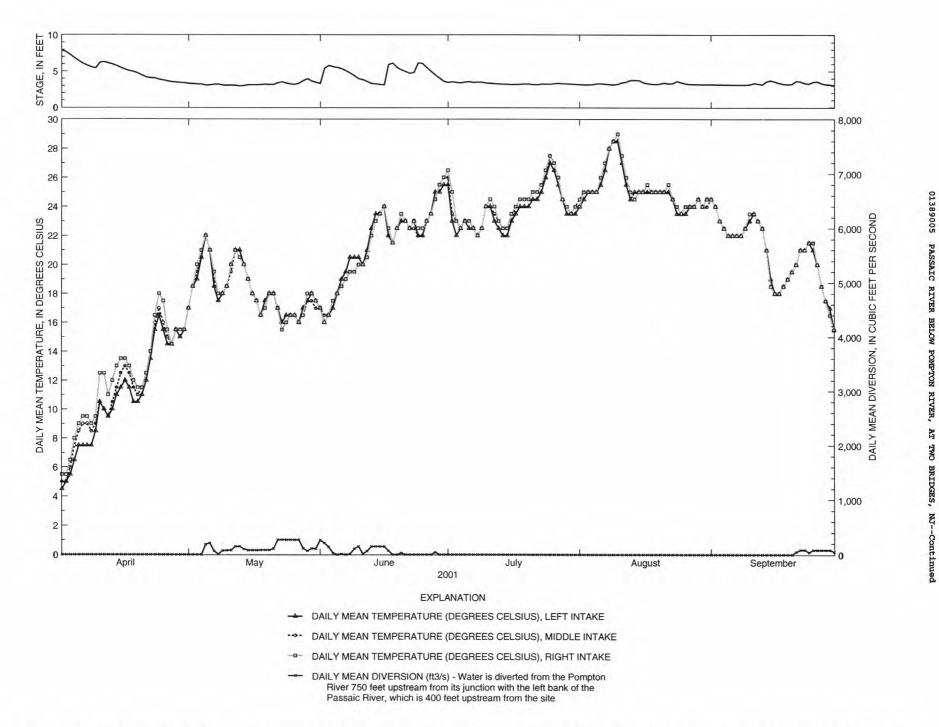


Figure 35. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River at Two Bridges--continued.

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.

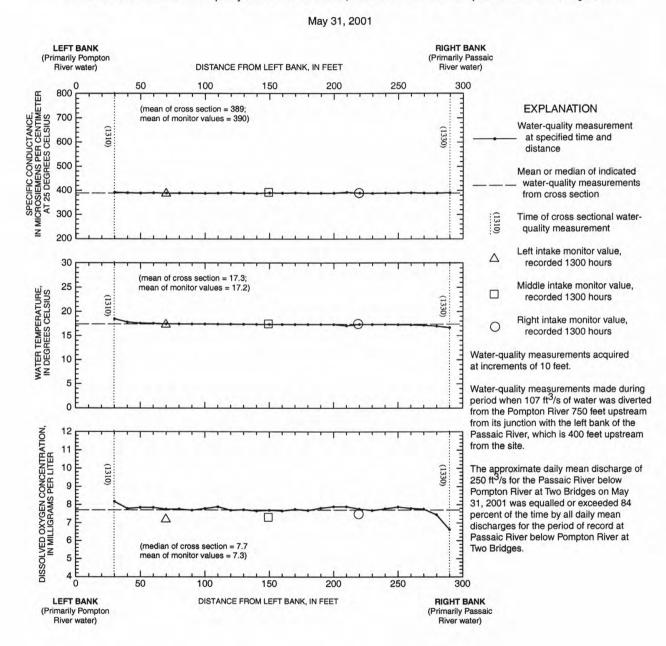


Figure 36. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, May 31, 2001.

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.

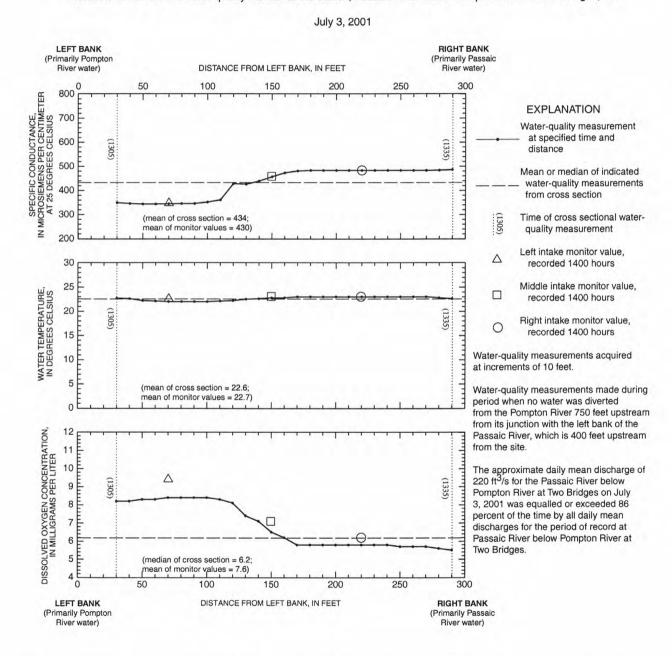


Figure 37. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River at Two Bridges, July 3, 2001.

DASSATC RIVER BASTN

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, Hydrologic Unit 02030103, 0.6 mi downstream from Beatties Dam in Little Falls, and 1.0 mi upstream from Peckman River.

DRAINAGE AREA. -- 762 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 200	WATER-	OUALITY	DATA,	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	200
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
08 FEB	1030	131		.121	.093	763	90	10.2	8.0	722		10.0	170
14	1000	1150		.151	.116	765	94	12.9	7.7	554	4.5	2.5	98
10 SEP	1000	181	9.2	.122	.091	763	88	8.2	7.6	654	17.0	18.5	160
05	1000	106	9.9	.107	.079	761	72	6.3	7.9	718	21.0	22.0	170
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV			1.11	(22.12)								100	- 12
08 FEB	43.2	15.1	7.05	67.9	108	111	E.1	12.3	53.0	398	393	.070	.48
14 MAY	26.1	8.09	2.35	64.0	49	115	<.2	10.1	20.1	308	282	.060	.32
10 SEP	39.9	13.6	5.07	60.6	92	117	E.1	11.9	33.2	388	350	.100	.59
05	43.3	15.0	7.03	72.7	99	121	E.1	12.2	49.4	404	380	<.030	E.47
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
08 FEB	.05	.54	4.17	.016	4.7	4.7	.102	.933	1.01	.7	<.1	4.2	.7
14 MAY	.06	.32	1.51	.020	1.8	1.8	.070	.124	.144	.5	<.1	4.1	.5
10	.08	.85	3.03	.047	3.6	3.9	.185	.381	.526	1.3	М	4.1	E1.3
05	<.03	.66	E4.41	.020			.136	E.744	.780	.9	<.1	4.2	.9

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
08	E1.3		187	12	
FEB					
14	E1.8		53	8	
MAY					
10	2.0	37.2	145	10	
SEP					
05	E1.2	33.9	188	17	

E Estimated value.

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

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PASSAIC RIVER BASIN

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02	1215	2800	500	150	16	1200	2200	200	2700
09	1210	490	200	240	23	1200	1300	800	360
					30	1130	2200	600	190

01389850 GOFFLE BROOK AT HAWTHORNE, NJ

LOCATION.--Lat 40°56'20", long 74°09'48", Passaic County, Hydrologic Unit 02030103, at bridge on Wagaraw Road in Hawthorne, 0.2 mi upstream from mouth and Passaic River, and 1.2 mi east of Haledon.

DRAINAGE AREA. -- 8.77 mi2.

PERIOD OF RECORD. -- April 1998 to September 1998 and November 2000 to September 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
28	1000		.146	.117	762	101	12.1	7.7	432		7.5	140	41.2
FEB 06	1000	1221	.062	046	761	07	12.0		3100	F 0	2.0	220	63.8
JUN	1000		.062	.046	761	97	13.2	8.0	3180	5.0	2.0	220	03.0
05 SEP	1000	2.6	.121	.091	762	85	8.4	7.6	575	:	16.0	170	49.5
05	1000	2.2	.032	.023	762	84	7.6	7.8	530	22.0	20.0	200	61.1
	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +	NITRO- GEN,
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC	AMMONIA
. 2022	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
28 FEB	9.49	2.63	26.6	97	57.6	E.1	11.2	16.8	239	231	<.030	.24	<.03
O6 JUN	14.6	3.31	518	113	903	<.2	8.8	29.3	1780	1620	.050	<.10	.04
05 SEP	10.9	2.54	45.7	108	98.2	<.2	12.4	17.3	344	309	.050	.34	.06
05	12.6	1.58	29.4	143	74.9	<.2	14.2	21.8	318	301	.050	E.25	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
28	.28	1.60	.004	1.8	1.9	.069	.032	.050	1.0	<.1	4.2	1.0	2.1
06 JUN	.30	2.59	<.003		2.9	.045	.018	.023	.7	<.1	3.6	.7	3.7
05 SEP	.38	1.74	.026	2.1	2.1	.073	.040	.064	.5	<.1	3.5	.5	<1.0
05	.24	E1.42	.012			<.022	.014	.029	.2	<.1	1.3	.2	<1.0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
28		38	<1
FEB			
06		E45	5
JUN			
05	2.90	42	4
SEP			
05	6.60	37	2

E Estimated value.

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

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFL/TRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
SEP													
05 05	1000	7.70	140	1.3	380	3.6	.5	<2	143	<.06	38	E.03	<1
DATE	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)	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)
SEP													
05 05	1.7	210	<1	150	<.01	<1	E.3	<.05	4	<1	.1	11	3.2
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
SEP													
05 05	32	7200	31	200	.02	10	<1	60	E20	<50	E10	<50	90
DATE	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)	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)
SEP													
05	E30	70	250	300	270	180	270	270	60	440	220	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
SEP													
05	<50		м		 F10	140			160	 -E0		370	<1
05	30	<50	M	<50	E10	140	E20	E20	160	<50	E20	3/0	1

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

SEP 05... --<1

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

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
06	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.28	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.6
	DA	ATE	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)		
	FEE	3 06	<.2	E.19	<.10	<.10	<.1	.34	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
JUN			0.00										
05	1000	<.004	<.002	<.005	E.005	<.010	E.027	<.020	<.005	<.018	<.003	E.003	.126
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
JUN													
05	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	.016	E.013
			D₽	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			JUL		4 24		1.22		2 32				
			C	05	E.010	E.006	<.034	<.005	E.007				

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

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PASSAIC RIVER BASIN

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
02	1130	24000	5400	8600	23	1125	490	500	300
09	1116	2200	2900	1900	30	1055	2400	200	500

01391500 SADDLE RIVER AT LODI, NJ

LOCATION.--Lat 40°53'25", long 74°04'51", Bergen County, Hydrologic Unit 02030103, 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 mi2.

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-recomnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 4.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
21 FEB	0800	35		.108	.084	755	63	7.9	8.0	803		5.5	220
15 MAY	0830	78		.091	.069	755	67	8.9	7.5	960	3.0	3.0	210
22 AUG	0800	199	29	.314	.238	755	57	5.6	7.2	526	14.0	15.5	120
08	0800	26	2.6	.114	.087	759	56	4.6	7.6	914	30.0	24.5	240
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
2000	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
21 FEB	59.5	17.7	6.10	63.4	139	122	<.2	15.0	30.4	442	430	.810	1.4
15 MAY	59.0	15.1	4.50	93.1	124	179	<.2	10.5	29.5	527	489	1.18	1.7
22 AUG	32.7	9.09	5.14	48.1	67	84.1	E.1	7.2	18.4	304	265	.980	2.0
08	66.2	19.1	6.78	74.0	148	146	E.1	11.3	31.5	480	474	.100	.66
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 21	.76	1.4	7.05	.260	8.4	8.5	.147	1.29	1.31	1.3	<.1	4.3	1.3
15 MAY	1.22	1.8	5.22	.155	6.9	7.0	.148	.644	.635	1.1	<.1	3.8	1.1
22 AUG	1.01	3.0	4.21	.331	6.2	7.2	.593	.919	1.19	5.9	<.1	14	5.9
08	.14	.75	6.79	.103	7.5	7.5	.097	1.40	1.43	.9	<.1	3.9	.9

E Estimated value.

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

01391500 SADDLE RIVER AT LODI, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	3.5		161	1
FEB				
15	3.7		80	10
MAY				
22	4.7	27.3	90	45
AUG				
08	E1.3	10.6	152	6

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					JUL				
05	0845	16000	8000	4500	16	1014	1400	900	260
09	1018	5400	1900	1260	23	1015	5400	2600	250
					30	1007	1700	1000	380

E Estimated value.

01391500 SADDLE RIVER AT LODI, NJ--Continued

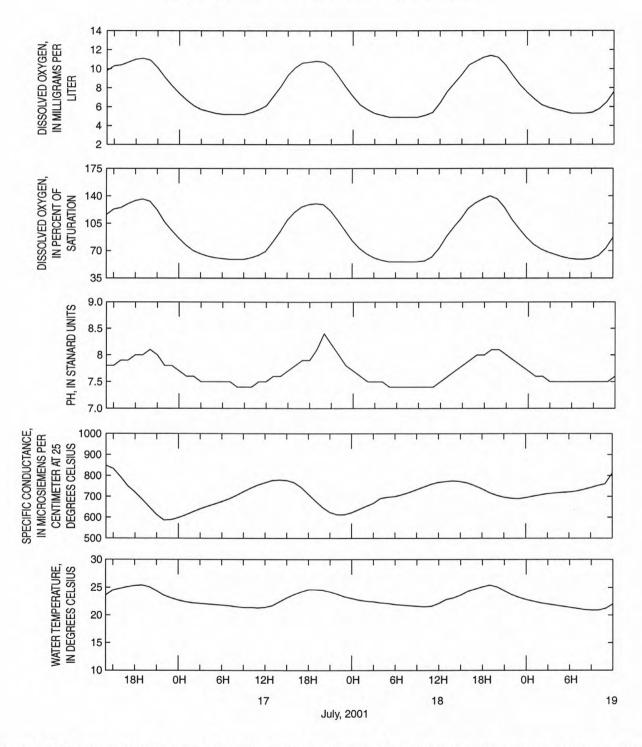


Figure 38. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, water year 2001.

01391550 SADDLE RIVER AT GARFIELD, NJ

LOCATION.--Lat 41°51'50", long 74°06'06", Bergen County, Hydrologic Unit 02030103, at bridge on Marcellus Place just north of intersection with Saddle River Avenue, 0.3 mi southeast of Garfield, and 0.3 mi upstream of mouth.

DRAINAGE AREA . -- 60.4 mi2.

PERIOD OF RECORD. -- November 2000 to September 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 4.

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
08 FEB	1000		.103	.081	762	76	8.7	7.6	792		9.5	250	69.5
28	1000		.105	.079	764	99	12.7	7.7	977	2.5	5.0	190	55.0
MAY 08 AUG	1100		.102	.078	772	68	7.0	7.5	780	20.0	14.5	230	65.1
08	1000	1.6	.115	.087	760	64	5.1	7.6	796	27.0	26.5	250	67.8
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
08 FEB	18.9	6.19	65.0	160	129	E.1	13.1	32.9	479	463	.200	.76	.23
28 MAY	13.4	3.90	108	114	202	E.1	10.0	27.2	553	508	.910	1.3	.91
08 AUG	16.9	5.10	74.4	141	148	E.1	11.6	30.4	529	465	.250	.85	.28
08	18.7	5.98	75.1	153	153	E.1	11.4	33.2	498	484	.070	.60	.10
	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE	OXYGEN DEMAND, BIO- CHEM-
DATE	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L	ICAL, 5 DAY
24112	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
08	.87	7.23	.138	8.0	8.1	.096	1.17	1.19	.6	<.1	4.3	.6	2.0
28 MAY	1.5	4.07	.131	5.3	5.5	.081	.432	.478	.8	<.1	4.0	.8	2.9
08 AUG	.99	6.39	.172	7.2	7.4	.089	.870	.927	.9	<.1	4.3	.9	2.9
08	.62	6.05	.038	6.6	6.7	.064	1.11	1.18	.4	<.1	3.7	.4	2.1

E Estimated value

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

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			WATER-	QUALITY D	DATA, WATE	ER YEAR OC	TOBER 200	O TO SEPI	EMBER 200	11			
				DA	TE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)					
				NOV	8		161	11					
				FEB	8		78	3					
				MAY	27.00								
				AUG		9.00	125	2					
					8	5.30	153	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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
AUG 08 08	1000 1000	7.00	150	1.7	300	4.8	.5	E2	108	<.06	150	.09	<1
DATE	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)	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)
AUG 08	8.6	110	<1	53	<.01	2	E.3	E.05	13	 <1	.2	9.5	2.6
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG 08													
08	20	6300	32	180	.06	7.4	<1	60	E30	<50	<50	<50	<50
DATE	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)	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)
AUG													
08	<50	70	210	220	220	160	180	250	E40	460	180	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG 08													
08	<50	<50	<50	<50	<50	37	<50	<50	260	<50	E30	390	<1

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

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAT. SIEVE DIAM. % FINER THAN DATE .062 MM (80164)

AUG 08... 1 08...

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB	4444				20.20							124	
28	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 28	.79	<.2	.14	2.50	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.8
	Ā	TE	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 2	8	<.2	<.20	<.10	<.10	.4	.21	.52	<.20	1.0		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITD 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 FLITD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
MAY 08	1100	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003	E.003	.079
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
08	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	.016

E Estimated value.

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

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLIRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY	(04035)	(82670)	(82665)	(82681)	(82661)
08	E.005	<.016	<.034	<.005	E.004

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL	1.00000	1.00000			JUL				
05	0815	>24000	4900	5200	16	1000	5400	1400	200
09	1004	1700	1800	1900	23	0955	3500	2500	200
					30	0953	5400	1200	280

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

01391550 SADDLE RIVER AT GARFIELD, NJ

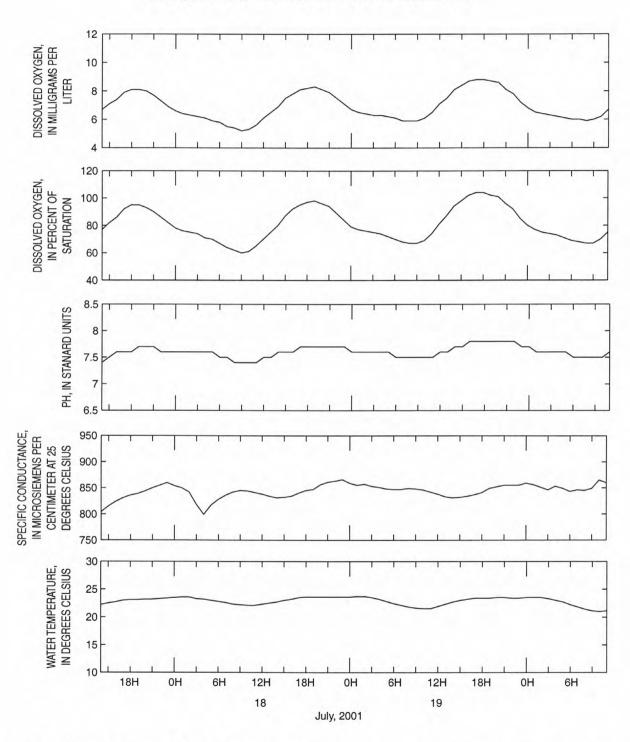


Figure 39. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391550 Saddle River at Garfield, water year 2001.

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ

LOCATION.--Lat 40°46'11", long 74°17'00", Essex County, Hydrologic Unit 02030104, at bridge on Northfield Avenue in West Orange, 0.1 mi upstream of Orange Reservoir, and 2.2 mi east of Northfield.

DRAINAGE AREA . -- 7.09 mi2.

PERIOD OF RECORD. -- Water Year 1999 and November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 7.

	-	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
14 FEB	1000		.074	.055	750	85	9.4	7.6	577		10.0	180	45.0
MAY	1000		.073	.054	758	77	10.3	7.7	1270	8.0	3.0	210	52.0
AUG	1100	2.8	.124	.090	752	69	7.0	7.4	670	20.5	14.0	150	37.4
15	1100	4.6	.158	.115	756	62	5.4	7.4	411	21.5	21.5	110	29.3
	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +	NITRO- GEN,
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	LAB (MG/L	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.	AMMONIA TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
2112	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
14 FEB	16.0	1.75	44.0	71	121	E.1	13.3	30.4	341	319	.040	.25	<.03
14	18.4	2.10	197	59	384	<.2	12.4	27.1	810	736	<.030	.26	.03
AUG	13.1	1.91	76.1	63	160	E.1	11.7	23.1	405	366	.060	.40	.07
15	10.1	1.69	33.2	46	83.9	<.2	9.1	15.2	262	216	.100	.45	.18
	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE	OXYGEN DEMAND, BIO- CHEM-
DATE	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L	ICAL, 5 DAY
DATE	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
14 FEB	.25	.925	<.003	1.2	1.2	.068	.083	.096	.6	<.1	3.7	.6	2.7
14 MAY	.32	1.74	.003	2.0	2.1	.106	.020	.044	1.1	<.1	2.8	1.1	E1.7
24 AUG	.52	1.00	.025	1.4	1.5	.076	.064	.088	.6	<.1	4.1	.6	E1.4
15	.54	1.35	.037	1.8	1.9	.099	.062	.092	1.1	<.1	5.4	1.1	3.9

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
14		94	3
FEB			
14		67	3
MAY			
24	10.7	70	2
AUG			
15	14.6	79	5

E Estimated value.

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

177 RAHWAY RIVER BASIN

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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 UNFLITED 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)
AUG 15	1100	<2	25.4	<.06	70	E.03	м	4.0	260	2	45	<.01	1
				AUG	3 15	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)					
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 UNFLITRD 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)
FEB 14	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14	<.10	<.2	.48	<.10	.19	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.7
	DA	TE	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 1	4	<.2	<.20	<.10	<.10	.1	<.10	<.10	<.20	<.2		

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

						BEN-	CAR-	CARBO-				DEETHYL	
		ACETO-	ALA-		ATRA-	FLUR-	BARYL	FURAN		CYANA-	DCPA	ATRA-	
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(82674)	(38933)	(04041)	(82682)	(04040)	(39572)
MAY													
24	1100	<.004	<.002	<.005	.009	<.010	E1.2	<.020	.006	<.018	<.003	E.011	.020

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

178

RAHWAY RIVER BASIN

01393960 WEST BRANCH RAHWAY RIVER AT NORTHFIELD AVENUE, AT WEST ORANGE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
24	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	.014	.054
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	4	E.011	<.016	<.034	<.005	E.003				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
02	1105	>24000	5700	6800	02	1125	790	600	710
11	1100	70	200	10					
18	1100	16000	39000	2400					
25	1100	2400	1100	430					

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.

01394500 RAHWAY RIVER NEAR SPRINGFIELD

LOCATION.--Lat 40°41'11", long 74°18'44", Union County, Hydrologic Unit 02030104, downstream from bridge on eastbound U.S. Highway 22, 100 ft downstream from Pope Brook, and 1.5 mi south of Springfield.

DRATNAGE AREA . -- 25.5 mi2.

PERIOD OF RECORD .-- Water years 1978 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 7.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
08 FEB	1100	E10		.060	.047	762	62	7.2	7.6	650		8.8	220
01 MAY	1100	52		.145	.111	763	89	11.8	7.5	712	3.5	3.5	120
09 AUG	1045	13	3.6	.070	.054	767	58	5.9	7.6	743	22.0	14.5	220
16	1045	9.8	4.4	.085	.062	764	57	5.1	7.6	617	25.0	21.0	200
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
08 FEB	67.2	13.5	2.12	37.8	138	91.5	.2	16.6	37.5	366	355	.050	.20
01 MAY	34.7	7.96	2.27	83.7	59	158	<.2	11.4	21.7	379	362	.070	. 27
09	67.1	13.7	2.23	53.6	127	127	E.1	15.0	35.0	454	396	.150	.79
16	60.0	12.3	2.35	38.7	121	93.8	<.2	15.4	33.7	364	334	.080	.32
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 08	.07	.23	1.35	.010	1.6	1.6	.068	.025	.048	.4	<.1	2.1	.4
01 MAY	.08	.53	1.59	.012	1.9	2.1	.063	.034	.063	.7	<.1	4.5	.7
09 AUG	.19	.52	1.29	.053	2.1	1.8	.121	.041	.083	.8	<.1	2.5	.8
16	.05	.37	1.17	.025	1.5	1.5	.075	.071	.116	.6	<.1	3.0	.6

E Estimated value

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

180

RAHWAY RIVER BASIN

01394500 RAHWAY RIVER NEAR SPRINGFIELD--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
08	<1.0		77	7
FEB				
01	E1.0		50	1
MAY				
09	E1.2	8.90	81	<1
AUG				
16	<1.0	7.30	78	2

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
19	0955	9200	3000	1600	02	0920	>24000	53000	8800
26	1000	2400	1800	280	10	1025	330	100	120

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

RAHWAY RIVER BASIN

01394500 RAHWAY RIVER NEAR SPRINGFIELD--Continued

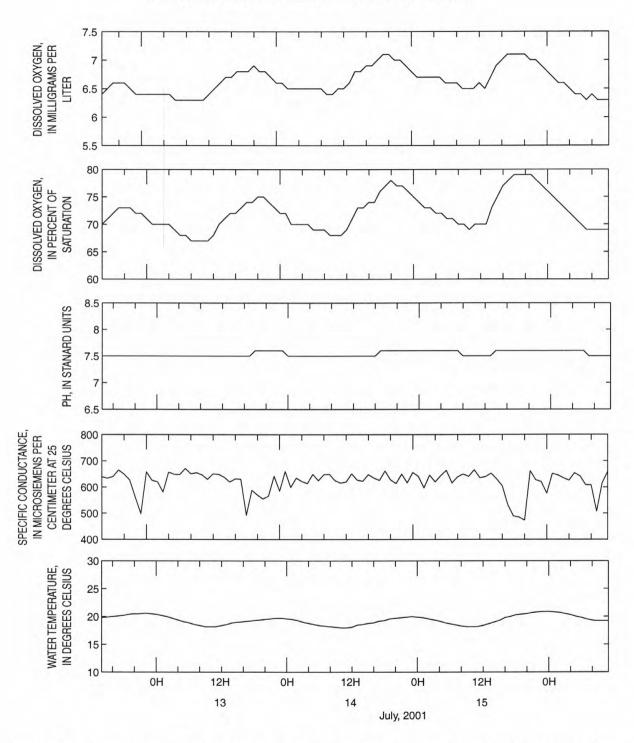


Figure 40. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01394500 Rahway River near Springfield, water year 2001.

RAHWAY RIVER BASIN

01395000 RAHWAY RIVER AT RAHWAY, NJ

LOCATION.--Lat 40°37'08", long 74°17'01", revised, Union County, Hydrologic Unit 02030104, at St. Georges Avenue bridge in Rahway and 0.9 mi upstream from Robinsons Branch.

DRAINAGE AREA .-- 40.9 mi2.

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." Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. 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 Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 7.

DATE	TIME	SAME TYP		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WIR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
DEC													
12 12 12	0800 0800 0801	SPLIT RE		13 CATE	=======================================	.061	.046	748	69	8.6	7.9	592 	7.0
FEB	0001	CONCORN	MVI REFLIC	AIL				~~		-		-	
28 JUN	0800	ENVIRONM	MENTAL	39	-	.116	.086	760	84	10.7	7.4	1110	
12	0800	ENVIRONM		19	5.4	.084	.061	755	72	6.5	7.7	657	21.0
12	0830	SPLIT RE									0		
12	0831	CONCURRE	ENT REPLIC	CATE									
21	0800	ENVIRON	MENTAL	10	5.1	.119	.087	762	74	6.3	7.8	479	22.5
21	0800	SPLIT RE		22		122							
21	0801	CONCURRE	ENT REPLIC	CATE	-1							55	42
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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
DEC													
12	5.0	210	64.4	11.6	1.96	30.4	136	69.1	E.1	17.9	44.3	341	329
12		200	61.0	12.0	2.20	30.0	140	67.0	.2		60.0	360	321
12		200	61.0	12.0	2.20	30.0	140	70.0	.2		54.0	350	318
FEB 28	5.0	160	47.5	8.94	2 07	100		044		10	20.1	566	527
JUN	5.0	160	47.5	8.94	2.07	137	77	241	<.2	10	29.1	566	527
12	20.0	210	64.1	12.5	2.25	42.6	129	97.6	E.1	16.5	38.8	378	357
12		200	61.0	12.0	2.40	42.0	120	99.0	.2		42.0	410	335
12		200	61.0	12.0	2.40	42.0	120	100	.2		42.0	420	336
AUG	14.5	12.7											
21	23.5	170	51.2	9.00	2.11	26.8	111	60.6	<.2	11.6	36.1	279	268
21		160	51.0	9.10	2.40	29.0	100	58.0	. 3		35.0	300	248
		160	51.0	9.10	2.40	29.0	110	58.0	. 3		35.0	310	254

E Estimated value.

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

RAHWAY RIVER BASIN

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
DEC													
12	.120	.34	.16	.39	1.53	.007	1.9	1.9	.040	.033			.074
12	.130	.18	.12	. 23	1.10	<.050	1.3	1.3		<.030		2.2	.070
12	.130	.26	.13	. 71	1.00	<.050	1.3	1.7		.030			.070
FEB					72.5	31.44	474	73.73					
28 JUN	.030	.22	<.03	.35	1.26	.011	1.5	1.6	.070	.019			.054
12	.040	.26	.03	.49	1.12	.026	1.4	1.6	.157	.046	.050	.030	.104
12	.080	<1.0	.08	.53	1.00	.032		1.5		.040	.062	.049	.090
12	.084	.41	.09	. 54	1.00	.032	1.4	1.5		.030	.036	. 055	.080
AUG													
21	<.030	.37	<.03	.43	.786	.007	1.2	1.2	.119	.062	.050	.060	.104
21	.061	. 44	. 05	. 62	. 590	<.050	1.0	1.2		. 035	. 032	.030	. 075
21	.053	.20	.06	.54	.580	<.050	. 78	1.1	==	.057	.032	.033	.074
	DA	ATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)			
	DEC												
	1	2	.4	<.1	2.3	. 4	E1.8		81	<1			
	1	12			1.5				85	<10			
	1	2			1.6				85	<10			
	FEE	3											
		8	.7	<.1	3.5	.7	E1.2		46	16			
	JUN												
		.2	1.1	<.1	2.8	1.1	E1.7	27.7	89	18			
		2			3.0				83	<10			
		.2			2.4				83	<10			
	AUG		121			2.0	1 2	32.2					
		21	.7	<.1	4.3	.7	2.8	15.8	76	11			
		21			3.4				90	9			
	2	21			3.8				89	7			

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	
JUN					JUL					
12	1016	16000	25000	820	02	0945	>24000	9000	4700	
19	1030	790	1000	240	10	0958	2200	1500	240	
26	1030	490	100	230						

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.

RAHWAY RIVER BASIN

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

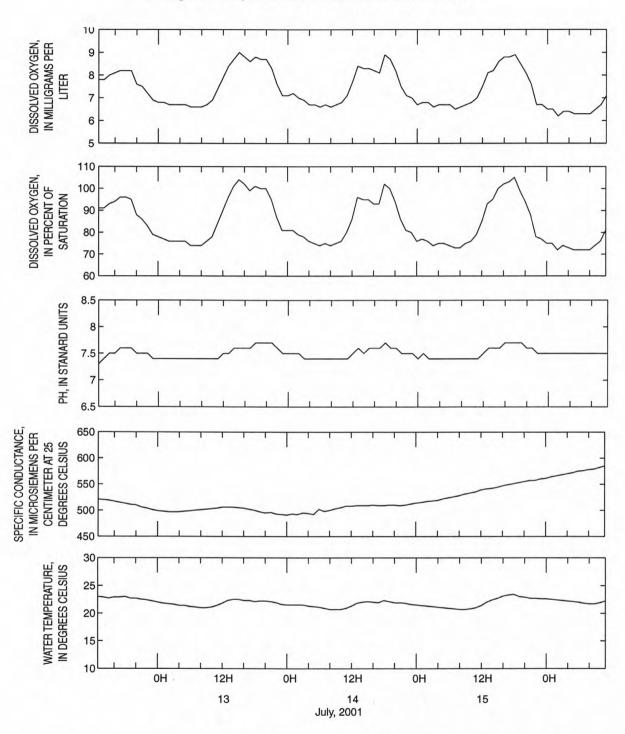


Figure 41. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01395000 Rahway River at Rahway, water year 2001.

rahway river basin 185

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ

LOCATION.--Lat 40°34'57", long 74°18'04", Middlesex County, Hydrologic Unit 02030104, at bridge on Dover Street in Colonia at intersection of Dover Street and Maplewood Avenue, 1.9 mi upstream of mouth, and 2.2 mi southwest at Rahway.

DRAINAGE AREA. -- 9.31 mi2.

PERIOD OF RECORD. -- December 2000 to August 2001.

REMARKS.--For the 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was 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.

DATE	TIME	SAMI		TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER - ATURE WATER
DATE	TIME	111	L	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)	(DEG C)	(DEG C)
				(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)
DEC 12	1000	ENVIRON	ENTAL.		.069	.052	753	97	11.5	8.0	649	9.0	7.5
12	1000	SPLIT RE											
12	1001	CONCURRI	ENT REPLIC	CATE									
FEB 06	0930	ENVIRON	TENTE AT	0.2	.143	.108	762	97	12.9	7.4	7450	8.5	2.5
JUN	0330	THAT THOM	ENIAL		.143	.100	702	31	12.5	7.4	7430	0.5	2.5
12	0930	ENVIRON		14	.261	.183	760	74	6.7	7.5	406	26.0	20.0
12	0930 0931	SPLIT RI	EPLICATE ENT REPLIC			77					==		
AUG	0331	CONCORRA	MVI REPLIC	AIL		==		.==					
21	1030	ENVIRON		3.5	.101	.071	763	95	8.3	8.0	619		22.0
21	1030 1031	SPLIT RE	EPLICATE ENT REPLIC			7-							
21	1031	CONCURRE	MVI REPLIC	CATE									75
1.2	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED
DATE	AS CACO3) (00900)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)
DEC	200												
12 12	220 210	65.8 62.0	13.9 14.0	2.56	35.8 37.0	139 140	97.2 96.0	E.1	14.1	33.2 38.0	373 380	351 338	.060 <.050
12	210	62.0	14.0	2.80	37.0	140	97.0	.1		37.0	390	338	<.050
FEB								- 2	4.2				
06 JUN	280	86.9	16.0	6.07	1360	61	2230	<.2	8.7	46.6	4190	3800	.220
12	98	29.1	6.28	2.75	37.6	63	68.7	E.1	8.1	20.8	240	216	.280
12	94	28.0	5.90	3.00	37.0	62	73.0	. 3		21.0	270	210	.330
12 AUG	95	28.0	6.00	2.90	37.0	61	72.0	.2		21.0	280	209	.330
21	200	57.8	12.6	2.72	39.6	131	92.2	E.1	11.1	39.0	343	337	<.030
21	200	58.0	13.0	3.20	44.0	120	87.0	.2		39.0	370	319	.034
21	190	57.0	12.0	3.00	44.0	120	86.0	.2		37.0	380	314	.040
	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS ORTHO TOTAL	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL
DATE	(MG/L AS N) (00623)	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (70507)	(MG/L AS P) (00665)	(MG/L AS C) (00694)
DEC													
12	.18	.06	.22	1.25	.006	1.4	1.5	.040	.025			.052	.4
12	.12	<.05 <.05	.17 .25	. 880 . 980	<.050 <.050	1.0	1.1		<.030 <.030	75		.050	
06 JUN	.65	.23	.78	1.40	<.003	2.1	2.2	.112	.024			.062	1.7
12	1.0	.29	1.2	1.07	.068	2.1	2.3	.249	.100	.070	.040	.178	1.6
12	1.3	.34	1.5	1.00	.073	2.3	2.5		.080	.029	.036	.140	
12 AUG	1.4	.35	1.7	.990	.071	2.4	2.7		.080	.026	.046	.150	
21	.26	<.03	.30	.791	.005	1.0	1.1	.091	.046	.030	.040	.067	.5
21	.35	. 05	. 49	.640	<.050	.99	1.1		.036	.030	.029	. 043	
21		. 03	. 32	.580	<.050		.90		.031	.030	.029	. 035	

E Estimated value.

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

RAHWAY RIVER BASIN

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ--Continued

DATE	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC							
12	<.1	2.7	.4	E1.6		74	<1
12		1.7				76	<10
12		2.0				76	<10
FEB							
06	<.1	4.9	1.7	4.4		86	15
JUN							
12	<.1	10	1.6	5.9	11.3	75	9
12		10				69	<10
12		10				70	<10
AUG							
21	<.1	4.1	.5	E1.1	8.10	110	4
21		3.6			144	140	4 3
21		3.0				120	3

DATE	TIME	SAME TYE		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													
21	1030	ENVIRONM								<2	142	<.06	110
21 21	1030 1030	SPLIT RE		7.70	200	2.4	440	2.6	<.2	<2	160	<1.30	140
21	1031		ENT REPLIC		22	==				<2	160	<1.30	120
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)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
AUG													
21	.13	2	3.8	170	<1	34	<.01	3	<.4	<.05	6		
21												<1	15
21	<1.00	<2	3.5	200	<2	37		<5	<1.8	<1.50	<8		
21	<1.00	<2	3.4	180	<2	37		<5	<1.8	<1.50	<8		
DATE	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, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
21													
21	12	5.2	28	8400	38	240	.01	.1	<1	130	100	M	E50
21								0		0-2-2			
21				35									77
DATE	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)	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, EM 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)
AUG													
21													
21	E30	E50	E40	170	510	520	510	310	440	570	80	1100	360
21													
21													

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

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	NAPTHAL ENE, 12 DIMETHL SED, EM 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- 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)
AUG 21	22						-22	22	- 22		22.		
21 21	<50	M	M	<50	E10	<50	M	E32	<50	E50	640	E20	E50
21			()	22		44							
				DATE	PYRE SED, WS,< DW, (UG/	BM DIA 2MM % FI REC TH KG) .004	AT. MA ALL SIE AM. DIA INER % FI IAN TH	AT. EVE AM. ENER LAN EMM					
				AUG 21 21 21	90	0 <	: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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 06	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLITED REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	3.2
27700	DA FEB	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLIRD 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)	7,240	

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

RAHWAY RIVER BASIN

01396030 SOUTH BRANCH RAHWAY RIVER AT COLONIA, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITRD 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)
JUN 12	0930	<.004	<.002	<.005	.083	<.010	E.061	<.020	.007	<.018	E.001	E.028	.604
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
JUN 12	<.005	<.002	<.004	<.035	.043	E.013	.042	<.006	<.002	<.007	<.003	.047	.721
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			JUN 1	2	E.008	<.016	<.034	<.005	E.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1110	2400	1000	490	15	1105	3500	400	870
08	1040	790	1200	320	22	1020	5400	1700	240
					29	1140	9200	4200	990

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

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 mi2.

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." Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-recomnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

DATE	TIME	SAME TYP		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
				(00001)	(01010)	(30022)	(01/10/	(00025)	(00301)	(00500)	(00-00)	(00000)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NOV 02	1040	ENVIRON	MENTAL	1.9	44	.065	.051	746	102	12.1	7.8	149	==
08	0910	ENVIRON	ENTAL	9.5		.063	.049	756	97	14.0	6.7	143	5.5
07	1100	ENVIRON	ENTAL	3.8	1.6	.066	.051	760	104	10.9	7.6	145	15.0
AUG 09	0900	ENVIRONM	MENTAL	1.3	1.1	.074	.057	745	95	8.2	7.4	149	27.5
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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
NOV													
02 FEB	7.0	53	12.4	5.37	1.13	7.1	41	9.9	E.1	18.9	12.8	98	93
08	.00	39	9.10	3.90	.83	8.9	23	17.5	<.2	14.8	12.5	93	85
07 AUG	13.0	47	11.0	4.62	.86	7.2	33	12.3	<.2	13.9	12.9	83	86
09	21.5	51	12.0	5.18	1.05	7.3	39	10.4	E.1	14.6	11.6	105	87
	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL
DATE	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)
NOV													
02 FEB	.080	E.09	.08	.21	.199	<.003		.41	.065	E.003	.004	.1	<.1
08 MAY	<.030	.16	.03	.15	.879	<.003	1.0	1.0	.048	.006	.008	.3	<.1
07 AUG	. <.030	.14	<.03	.18	.672	<.003	.81	.85	.068	E.003	.008	E.7	<.1
09	.030	.13	.04	.15	.289	<.003	.42	.44	<.022	.008	.013	.2	<.1

E Estimated value.

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

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

		NOV C FEE	2	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)				
		MAY	8	2.0	.3	2.4	-	<13	<1				
		AUG	7	1.9	E.7	E2.0	3.00	E8	6				
		0	9	2.0	.2	2.2	1.60	<13	3				
DATE	TIME	SAME TYP		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 UNFLITRD 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)
AUG 09 09	0830 0900	FIELD BI		<2	17.6	<.06	7	<.04	 <1	<.2	1.2	110	<.08
	DATE	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 09 09	<1	7	<.01	<.01	<.06	<1	.4	<.05	<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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 08	0910	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
V6	D#	те	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFL/TRD 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)	3.10	2
	C	8	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

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

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

						BEN-	CAR-	CARBO-				DEETHYL	
		ACETO- CHLOR, WATER	ALA- CHLOR, WATER,	ALPHA BHC	ATRA- ZINE, WATER,	FLUR- ALIN WAT FLD	BARYL WATER FLTRD	FURAN WATER FLTRD	CHLOR- PYRIFOS	CYANA- ZINE, WATER,	DCPA WATER FLTRD	ATRA- ZINE, WATER,	DI- AZINON,
DATE	TIME	FLTRD REC (UG/L) (49260)	DISS, REC, (UG/L) (46342)	DIS- SOLVED (UG/L) (34253)	DISS, REC (UG/L) (39632)	0.7 U GF, REC (UG/L) (82673)	0.7 U GF, REC (UG/L) (82680)	0.7 U GF, REC (UG/L) (82674)	DIS- SOLVED (UG/L) (38933)	DISS, REC (UG/L) (04041)	0.7 U GF, REC (UG/L) (82682)	DISS, REC (UG/L) (04040)	DIS- SOLVED (UG/L) (39572)
MAY		(15200)	(10312)	(31233)	(33032)	(020/3/	(02000)	(020/4)	(50555)	(01011)	(02002)	(01010)	(055,2)
07	1100	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003	E.011	<.005
	DI- ELDRIN	EPTC WATER FLTRD	LINDANE	LIN- URON WATER FLTRD	MALA- THION,	METHYL AZIN- PHOS WAT FLT	METO- LACHLOR	METRI- BUZIN SENCOR	MOL- INATE WATER FLTRD	NAPROP- AMIDE WATER FLTRD	P, P'	PENDI- METH- ALIN WAT FLT	PRO- METON, WATER,
DATE	DIS- SOLVED (UG/L) (39381)	0.7 U GF, REC (UG/L) (82668)	DIS- SOLVED (UG/L) (39341)	0.7 U GF, REC (UG/L) (82666)	DIS- SOLVED (UG/L) (39532)	0.7 U GF, REC (UG/L) (82686)	WATER DISSOLV (UG/L) (39415)	WATER DISSOLV (UG/L) (82630)	0.7 U GF, REC (UG/L) (82671)	0.7 U GF, REC (UG/L) (82684)	DDE DISSOLV (UG/L) (34653)	0.7 U GF, REC (UG/L) (82683)	DISS, REC (UG/L) (04037)
MAY													
07	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	SI- MAZINE, WATER, DISS, REC	TEBU- THIURON WATER FLTRD 0.7 U GF, REC	TER- BACIL WATER FLTRD 0.7 U GF, REC	THIO- BENCARB WATER FLTRD 0.7 U GF, REC	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC				
					(UG/L) (04035)	(UG/L) (82670)	(UG/L) (82665)	(UG/L) (82681)	(UG/L) (82661)				
			MAY			. 015							
				7	<.011	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	0930	<20	<100	20	02	0900	20	<100	110
19	0830	230	300	310	09	0800	40	100	180
26	0930	<20	100	210					

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

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

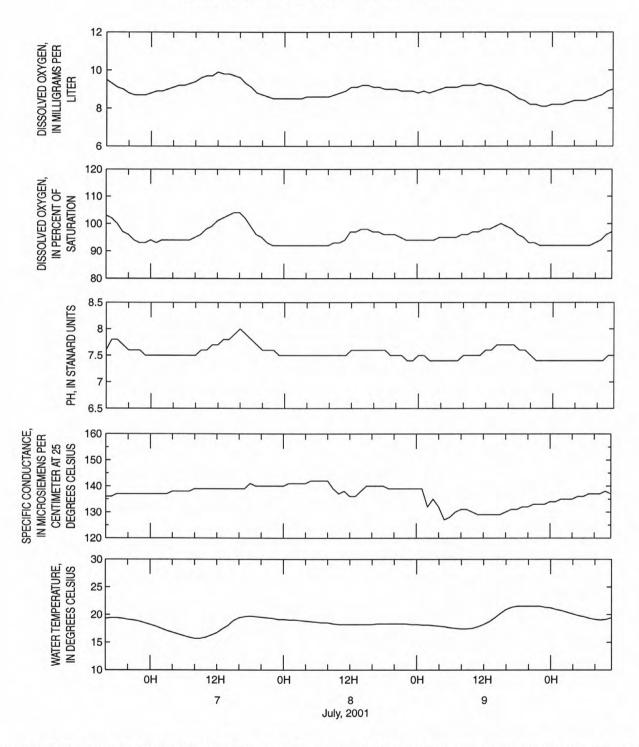


Figure 42. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01396550 Spruce Run at Newport, water year 2001.

raritan river basin 193

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ

LOCATION.--Lat 40°38'51", long 74°58'09", Hunterdon County, Hydrologic Unit 02030105, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	(MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
15 FEB	1100	8.0		.074	.058	752	96	11.4	7.8	227		7.5	83
14 MAY	1120	19		.049	.038	758	96	12.9	7.6	316	4.0	3.0	75
31 AUG	1030	11	1.7	.059	.044	755	95	10.0	7.8	250	16.0	12.5	79
22	1100	6.2	.9	.040	.030	758	102	9.4	8.0	258	27.0	19.0	92
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
15	21.0	7.31	1.73	10.9	66	19.6	E.1	15.4	13.7	138	132	<.030	.14
14 MAY	19.5	6.43	1.42	27.6	46	52.3	<.2	12.2	14.9	173	166	<.030	.10
31 AUG	20.5	6.85	1.08	16.1	57	30.1	<.2	14.6	13.6	161	141	<.030	.13
22	23.2	8.32	1.35	11.8	75	24.2	E.1	14.6	12.7	155	145	<.030	.20
	NITRO-	NITRO- GEN, AM-	NITRO-	NITRO-			NITRO-			CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	GEN, NO2+NO3 DIS- SOLVED	GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
15 FEB	<.03	.11	.565	<.003	.71	.67	.034	.009	.010	.3	<.1	2.5	.3
14 MAY	.07	.13	.990	<.003	1.1	1.1	.028	.007	.013	.3	<.1	1.7	.3
31 AUG	<.03	.12	.925	E.003	1.1	1.0	.026	.016	.022	.3	<.1	1.8	.3
22	<.03	.10	.860	<.003	1.1	.96	.044	.015	.018	.4	<.1	1.4	.4

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	E2.2		E10	7
FEB				
14	<1.0		14	<1
MAY				
31	E1.4	.700	E8	3
AUG				
22	<1.0	4.80	E12	8

E Estimated value.

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

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RARITAN RIVER BASIN

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	0900	<20	<100	<10	02	0825	<20	<100	<10
19	0900	700	600	460	09	0820	130	300	90
26	0900	<20	<100	220					

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

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ

LOCATION.--Lat $40^{\circ}36^{\circ}28^{\circ}$, long $74^{\circ}54^{\circ}58^{\circ}$, Hunterdon County, Hydrologic Unit 02030105, at bridge on Lower Lansdowne Road, 0.5 mi west of Lansdowne, 0.4 mi above mouth, and 2.0 mi south of Clinton.

DRAINAGE AREA. -- 14.1 mi2.

PERIOD OF RECORD .-- May 1959 to October 1964 and December 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO S	SEPTEMBER	2001
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DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	(00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(00020)	(00010)	(00900)	(00915)
222							*******		0.51,101,161				
DEC 13	1030		.024	.019	774	95	13.9	7.6	206	1.0	.5	70	16.7
FEB	1030	1.22	.024	.013		33	13.3	7.0	200	1.0		, 0	10.7
22	0930		.025	.019	770	101	14.1	7.8	179	-2.5	2.0	55	13.3
MAY					111								
22 AUG	1030	28	.134	.105	751	90	9.2	7.6	160	17.0	13.5	52	12.9
15	1000	1.7	.060	.046	757	100	9.1	7.7	185	25.0	19.5	62	15.0
				ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-	
	MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-	NITRO-
	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +	GEN,
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC	AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
DEC													
13 FEB	6.75	1.45	9.4	53	12.8	<.2	13.6	14.0	120	119	<.030	E.06	.07
22 MAY	5.30	1.44	10.1	33	14.4	<.2	14.3	15.1	114	107	<.030	E.06	.03
22 AUG	4.81	1.95	8.8	39	12.0	<.2	11.3	11.3	111	95	.040	.35	.07
15	5.92	2.07	9.4	48	12.5	<.2	15.2	12.7	115	110	<.030	.15	<.03
	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,
	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
DATE	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L	ICAL, 5 DAY
DAIL	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
13 FEB	E.07	2.93	<.003			<.022	.014	.014	.1	<.1	.91	.1	<1.0
22	.09	2.94	<.003	44	3.0	<.022	.013	.018	.2	<.1	.95	. 2	<1.0
MAY 22	.58	1.81	.011	2.2	2.4	.202	.050	.113	1.8	<.1	4.3	1.7	3.5
AUG 15	.19	1.98	<.003	2.1	2.2	<.022	.037	.041	.2	<.1	1.8	.2	<1.0
4444	3.55						.00,					4.5	

CHLORO-		RESIDUE
PHYLL A		TOTAL
FLUORO-	BORON,	AT 105
METRIC	DIS-	DEG. C,
METHOD	SOLVED	SUS-
CORR.	(UG/L	PENDED
(UG/L)	AS B)	(MG/L)
(32209)	(01020)	(00530)
	17	3
	14	4
11.5	E11	24
1.90	E13	<1
	PHYLL A FLUORO- METHOD CORR. (UG/L) (32209)	PHYLL A FLUORO- METRIC METHOD SOLVED CORR. (UG/L (UG/L) AS B) (32209) (01020) 17 14 11.5 E11

E Estimated value

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

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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 UNFLITRD 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)
AUG 15	1000	<2	58.2	<.06	17	<.04	<1	1.1	70	<1	11	<.01	<1
					ATE	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 1	.5	E.3	<.05	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 22	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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, UNFLIRD 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)
FEB 22	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
-55.197	DA FEB	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOTAL (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)		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 22	1030	.008	<.002	<.005	.030	<.010	E.007	<.020	<.005	<.018	<.003	E.013	.018

E Estimated value.

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

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
22	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.002	E.002	<.003	<.010	E.004
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITED 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITED 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY										
			2	2	E.003	<.016	<.034	<.005	<.009				

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	1015	<20	<100	<10	02	0950	20	<100	70
19	1000	<20	<100	10	09	0843	1300	600	580
26	1000	<20	<100	400					

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

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ

LOCATION.--Lat 40°28'29", long 74°51'48", Hunterdon County, Hydrologic Unit 02030105, at bridge on State Route 31 at Copper Hill, 0.6 mi upstream of mouth, 2.3 mi south of Flemington, and 2.5 mi west of Reaville.

DRAINAGE AREA. -- 10.3 mi².

PERIOD OF RECORD .-- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
15	0930		.107	.086	758	81	10.0	7.7	300		6.0	120	29.0
MAR 01	0900		.051	.038	758	108	15.2	7.8	235	-1.0	1.0	80	19.6
16 AUG	0930	5.2	.076	.060	760	66	6.9	7.5	299	16.1	13.5	120	30.6
30	0900	14	.077	.060	762	58	5.4	7.5	399		19.0	170	45.4
	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
15 MAR	10.7	2.60	11.3	89	13.8	E.1	8.9	36.2	179	169	<.030	.24	.42
01 MAY	7.45	1.43	11.8	39	17.6	<.2	11.9	26.6	136	134	<.030	.22	.03
16 AUG	9.93	1.67	13.0	72	12.6	E.1	12.0	46.9	200	176	.030	.40	.04
30	13.1	2.07	14.3	94	14.5	<.2	3.9	80.8	247	230	.060	.27	.09
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
4.5	22											•	2 0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
15		42	2
MAR			
01		21	8
MAY			
16	3.30	54	<1
AUG			
30	4.50	115	3

3.4

1.7

2.7

2.4

<.1

<.1

<.1

<.1

.3

.6

.5

.5

3.0

E1.4

2.1

<1.0

15...

MAR 01.

MAY 16...

AUG 30... .33

.21

.48

.31

.654

3.25

1.41

E.617

<.003

<.003

.057

.006

.89

1.8

.98

3.5

1.9

<.022

.064

.063

.080

.017

.037

.047

.016

.023

.039

.064

.038

. 3

.5

.5

E Estimated value.

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

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE AUG 30	TIME 0900	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)	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)
				DA	TE	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 3	0	<.4	<.05	7					
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 UNFLITRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
MAR 01	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 01	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	MAF		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)		
	C	1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 16	0930	<.004	<.002	<.005	.021	<.010	<.041	<.020	<.005	<.018	<.003	E.019	<.005

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

RARITAN RIVER BASIN

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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)
MAY 16	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	.6	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	1140	<20	<100	<10	02	1035	<20	<100	<10
19	1035	20	<100	20	09	0955	170	<100	230
26	1045	<20	<100	5000					

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

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION.--Lat 40°28'22", long 74°49'40", Hunterdon County, Hydrologic Unit 02030105, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 8.

27.00	MTM2	DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
21 FEB	1000	3.3		.061	.049	759	80	11.2	7.9	350		1.5	140
07 MAY	1000	8.1		.133	.104	768	102	14.2	7.9	485	3.8	2.0	93
15 AUG	1000	3.1	3.6	.094	.073	758	82	8.3	7.7	336	18.0	14.5	120
22	1000	3.5	2.2	.076	.058	764	103	9.2	8.5	310	24.0	21.0	120
		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
21 FEB	34.3	12.1	1.88	15.0	97	20.0	<.2	8.2	42.6	210	196	<.030	.19
07 MAY	24.3	7.81	2.16	50.4	37	101	<.2	9.1	20.9	268	247	.030	.22
15	31.5	10.6	2.12	17.8	82	23.3	E.1	10.1	41.8	206	190	.040	.47
22	29.9	10.6	2.33	14.8	83	19.0	E.1	2.3	42.4	175	173	<.030	. 29
		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
DAME	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL (MG/L
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
21 FEB	.07	.21	.920	<.003	1.1	1.1	<.022	<.050	<.060	.2	<.1	2.2	. 2
07 MAY	.03	.33	1.95	<.003	2.2	2.3	.091	E.041	E.049	.5	<.1	3.8	.5
15	.07	.49	.752	.052	1.2	1.2	.032	E.044	.062	.4	м	2.9	E.4
22	<.03	.29	.422	.004	.72	.71	.072	<.050	<.060	.3	<.1	3.1	.3

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	E1.7		54	<1
FEB				
07	E2.0		17	8
MAY				
15	3.0	3.20	56	3
AUG				
22	E1.6	8.60	60	9

E Estimated value.

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

RARITAN RIVER BASIN

01398000 NESHANIC RIVER AT REAVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	1100	<20	<100	<10	02	1100	<20	<100	<10
19	1100	20	<100	10	09	0915	110	<100	150
26	1100	<20	<100	430					

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

raritan river basin 203

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 mi2.

PERIOD OF RECORD .-- Water years 1976-83, 1998 to current year.

REMARKS.--Physical parameters measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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 2000 TO SEPTEMBER 20	WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	200	1
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		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
13 FEB	1315	112		.104	.082	762	103	11.5	7.9	296	13.0	10.5	100
15	1110	524		.056	.043	758	98	12.5	7.5	306	7.0	5.0	83
21	1200	153	9.4	.058	.044	762	85	8.3	7.9	321	14.5	16.5	110
AUG 28	1130	63	3.9	.060	.044	757	125	10.5	7.8	270	25.0	23.5	89
								2015					
		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI-	AMMONIA DIS-	MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	AS CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
13 FEB	24.0	9.97	2.75	16.3	75	28.4	E.1	6.5	21.3	162	160	<.030	.35
15 MAY	20.5	7.69	1.75	21.6	50	40.7	<.2	9.5	20.5	170	162	.220	.17
21 AUG	25.9	10.4	2.05	19.5	78	33.4	E.1	8.2	20.8	184	174	.070	.30
28	21.5	8.67	2.09	16.1	66	32.0	E.1	4.9	16.3	154	141	<.030	.28
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA	MONIA + ORGANIC	NO2+NO3 DIS-	NITRITE DIS-	GEN DIS-	NITRO-	TICULTE	PHORUS	PHOS- PHORUS	ORGANIC PARTIC.	GANIC, PARTIC.	ORGANIC DIS-	PARTIC- ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	GEN, TOTAL	WAT FLT SUSP	DIS- SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L AS C)
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	(00689)
NOV													
13 FEB	.03	.35	1.24	.004	1.6	1.6	.040	.074	.086	.3	<.1	3.8	.3
15	.23	.18	2.28	.010	2.5	2.5	.082	.023	.035	.4	<.1	2.1	.4
MAY 21	.06	.39	1.47	.030	1.8	1.9	.132	.078	.115	.8	<.1	2.7	.8
AUG 28	<.03	.32	E.486	.004			.067	.051	.063	.5	<.1	2.6	.5

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
13	2.3		40	5
FEB				
15	E1.1		22	8
MAY				
21	2.4	8.30	37	14
AUG				
28	E1.4	4.50	31	1

E Estimated value.

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

RARITAN RIVER BASIN

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN	10702	332	-244	344
23	0930	>24000	6200	4300	06	0920	790	200	150
30	1010	5400	300	400	13	0905	310	300	90
					19	0905	3500	1700	460

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.

RARITAN RIVER BASIN 01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

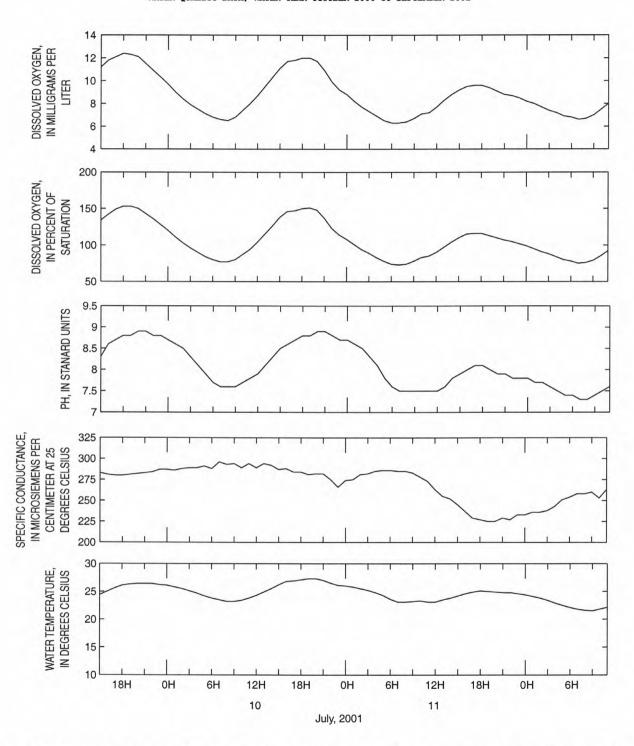


Figure 43. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01398102 South Branch Raritan River at South Branch, water year 2001.

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 mi2.

PERIOD OF RECORD .-- Water years 1964, 1976 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 8.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
08 FEB	1050	43		.078	.061	760	109	13.4	8.3	309		6.5	100
08 MAY	1220	195		.124	.097	772	103	14.6	7.8	331	4.0	1.5	77
03 AUG	1040	94	3.2	.110	.086	765	126	11.8	8.2	275	30.0	18.5	85
14	1420	279	34	.249	.195	757	169	14.1	7.9	192	29.5	24.0	61
		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	DIS- SOLVED	SIUM, DIS- SOLVED	SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	LAB	DIS-	DIS-	DIS- SOLVED	SULFATE DIS- SOLVED	AT 180 DEG. C DIS-	CONSTI- TUENTS, DIS-	DIS- SOLVED	MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	SOLVED (MG/L AS CL) (00940)	SOLVED (MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
08 FEB	24.9	9.88	2.37	16.6	79	30.9	E.1	12.0	18.4	172	169	.050	.20
08 MAY	19.9	6.61	1.91	31.5	42	62.3	<.2	11.3	15.8	187	179	.030	.23
O3 AUG	21.2	7.91	1.69	16.7	66	32.5	E.1	7.9	15.1	154	146	<.030	.26
14	15.3	5.45	2.63	12.2	45	19.9	E.1	11.5	12.4	108	110	<.030	.38
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV									-				
08 FEB	.03	. 24	1.38	<.003	1.6	1.6	.050	.145	.159	.3	<.1	2.5	.3
08 MAY	.04	.35	.916	.006	1.1	1.3	.065	.030	.049	.6	<.1	3.5	. 6
03	<.03	.35	.804	.016	1.1	1.2	.074	.053	.067	E.5	<.1	2.9	E.5
14	<.03	.54	.755	.007	1.1	1.3	.170	.076	.133	1.3	<.1	5.7	1.3

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
08	E1.2		49	8	
FEB					
08	E1.4		24	4	
MAY					
03	E1.3	7.30	36	5	
AUG					
14	E1.0	10.8	41	7	

E Estimated value.

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

RARITAN RIVER BASIN

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY	25.5			1201	JUN				
23	1010	5400	4100	6500	06	1010	330	400	170
30	1040	490	400	290	13	0950	230	200	140
					19	0940	490	800	230

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

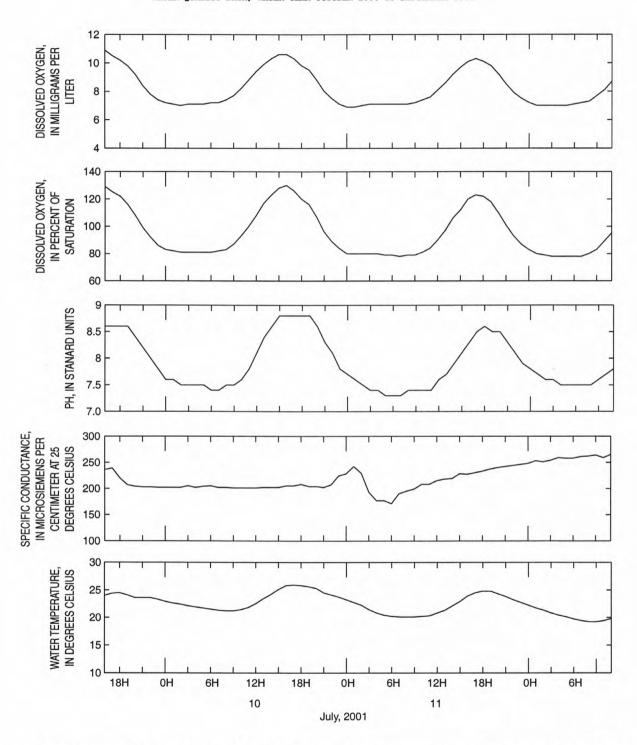


Figure 44. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01399780 Lamington River at Burnt Mills, water year 2001.

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

LOCATION.--Lat 40°34'10", long 74°40'45", Somerset County, Hydrologic Unit 02030105, 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 8.

WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	OT	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
15 FEB	1030	145	22	.116	.092	760	100	11.9	7.8	304		7.5	97
07 MAY	1030	426		.144	.113	768	97	13.3	7.5	536	7.0	2.5	93
30	1030	274	13	.164	.127	759	101	9.8	7.8	265	17.0	16.5	78
28	1000	48	2.2	.087	.066	758	83	7.1	8.3	305		22.5	110
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
15 FEB	24.1	8.82	2.76	17.6	69	33.7	E.1	12.4	20.9	177	166	<.030	.24
07 MAY	24.8	7.55	2.18	60.8	40	121	<.2	10.3	17.2	293	273	<.030	.22
30 AUG	19.6	7.13	1.53	19.5	52	34.3	E.1	13.1	14.3	163	144	.040	.32
28	26.2	9.82	2.17	19.6	76	37.3	<.2	8.0	20.6	186	173	.030	.32
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L AS N)	TOTAL (MG/L AS N)	SOLVED (MG/L AS N)	SOLVED (MG/L AS N)	SOLVED (MG/L AS N)	TOTAL (MG/L AS N)	SUSP (MG/L AS N)	SOLVED (MG/L AS P)	TOTAL (MG/L AS P)	TOTAL (MG/L AS C)	TOTAL (MG/L AS C)	SOLVED (MG/L AS C)	TOTAL (MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 15	<.03	.34	1.10	.004	1.3	1.4	.048	.080	.092	.5	<.1	3.5	.5
07 MAY	<.03	.37	.986	.005	1.2	1.4	.041	E.033	E.046	.5	<.1	4.1	.5
30 AUG	.03	.39	.823	.009	1.1	1.2	.104	<.050	.076	.8	<.1	4.8	.8
28	<.03	.33	.858	.005	1.2	1.2	.060	.064	.065	.3	<.1	2.7	.3

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	E1.5		60	6
FEB				
07	E1.2		32	9
MAY				
30	E1.5	3.00	45	10
AUG				
28	2.2	4.70	57	1

E Estimated value.

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

RARITAN RIVER BASIN

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0950	9200	6100	5100	06	0940	490	200	150
30	1025	330	900	320	13	0925	700	200	140
					19	0920	1300	700	200

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ

LOCATION.--Lat 40°14'28", long 74°24'07", Monmouth County, Hydrologic Unit 02030105, at bridge on Baird Road, 1.2 mi south of Manalapan, 2.1 mi northeast of Perrineville Lake, and 2.2 mi northeast of Perrineville.

DRAINAGE AREA .-- 4.58 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

		SAME	N E	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM,	UV ABSORB- ANCE 280 NM,	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER-	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-
DATE	TIME	TYP		UNFLTRD (NTU) (61028)	WTR FLT (UNITS /CM) (50624)	WIR FLT (UNITS /CM) (61726)	OF HG) (00025)	CENT SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)
NOV 08	1000	ENVIRON	ENTAL		.086	.072	761	87	10.4	7.0	112		7.5
08	1030	ENVIRONM	ENTAL		.098	.082	772	90	12.4	6.6	130	3.0	2.5
09 AUG	1030	ENVIRONM	MENTAL	15	.101	.083	763	93	9.6	7.0	112	19.5	14.0
15	1030	ENVIRONM	ENTAL	28	.146	.122	759	87	7.7	7.0	122	26.0	21.0
DATE	HARD- NESS TOTAL (MG/L AS	CALCIUM DIS- SOLVED (MG/L	MAGNE- SIUM, DIS- SOLVED (MG/L	POTAS- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	ANC UNFLTRD TIT 4.5 LAB (MG/L AS	CHLO- RIDE, DIS- SOLVED (MG/L	FLUO- RIDE, DIS- SOLVED (MG/L	SILICA, DIS- SOLVED (MG/L AS	SULFATE DIS- SOLVED (MG/L	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L
	(00900)	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)
NOV 08 FEB	28	5.46	3.57	2.37	6.9	14	13.2	E.1	9.8	7.7	64	63	.040
08 MAY	25	5.14	2.96	2.24	9.8	8	18.3	E.1	8.0	12.0	74	69	.090
09 AUG	29	5.62	3.72	2.18	7.4	13	14.4	E.1	8.1	8.1	75	64	.080
15	30	5.72	3.85	2.73	8.4	18	16.1	E.1	8.9	6.9	71	67	.050
DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L	NITRO- GEN, AMMONIA TOTAL (MG/L	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS-PHORUS	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L	CARBON, ORGANIC DIS- SOLVED (MG/L
DATE	AS N) (00623)	AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	AS C) (00688)	AS C) (00681)
NOV		0.5					2.2			050			
08 FEB 08	.17	.06	.21	1.14	<.003 .007	1.4	1.4	.108	.008	.052	1.3	<.1 <.1	1.7
MAY 09	.27	.09	.40	1.60	.010	1.9	2.0	.101	.007	.081	1.2	<.1	1.9
AUG 15	.25	.11	.38	.862	.013	1.1	1.2	.100	.040	.184	1.1	<.1	2.7

E Estimated value.

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

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

	CARBON,	OXYGEN	CHLORO-		RESIDUE
	ORGANIC	DEMAND,	PHYLL A		TOTAL
	PARTIC-	BIO-	FLUORO-	BORON,	AT 105
	ULATE	CHEM-	METRIC	DIS-	DEG. C,
	TOTAL	ICAL,	METHOD	SOLVED	SUS-
DATE	(MG/L	5 DAY	CORR.	(UG/L	PENDED
	AS C)	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00689)	(00310)	(32209)	(01020)	(00530)
NOV					
08	.8	<1.0		E13	10
FEB					
08	1.2	E1.8		E9	12
MAY					
09	1.2	<1.0	5.40	E11	8
AUG					
15	1.1	<1.0	5.20	15	25

DATE	TIME	SAME TYP		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	1000												
15. 15.		FIELD BI								2	32.6	.12	16
15.		BED MATE		6.10	230	.2	1100	5.7	<.2	12			
DATE	CADMIUM WATER UNFLITRD 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)	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)
AUG													
15.			<.2			<.08			<.01		<.06		
15.		1		.9	4670		<1	86		<.01		6	<.4
15.													
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG													
15.		<1	157										
15. 15.			12	2	.1	13	1.9	<2	14000	3.4	46	<.01	3.7
DATE	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG)	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)
	(01148)	(01093)	(49411)	(49390)	()	(-55)	,,					(45450)	(43400)
AUG	(01148)	(01093)	(49411)	(49390)	(15055)	(13113)	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(45430)	(43400)
AUG 15.		(01093)	(49411)	(49390)									(43400)
		(01093)							Ξ		==		

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

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			WAIER-	QUALITIE	MIN, WAIE	R IEAR OC	TOBER 200	O TO SEPI	EMBER 200	,_			
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)	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)
AUG													
15													
15 15	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5
		1.21	100						25.5				
	DA	TE	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. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)			
	AUG												
	1	5											
		5	<50	<50	<50	<50	<50	<50	2	3			
	_		100	150	130	130	130	150					
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 08	1030	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
00	1030	1.10	1.10	1.10	1.2	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA FEB 0		METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLEME WATER UNFLIRD 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)		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 09	1030	<.004	<.002	<.005	E.002	<.010	E.010	E.006	<.005	<.018	<.003	<.006	<.005

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

RARITAN RIVER BASIN

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 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)
MAY 09	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015
			D.A	TE	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)	THIO- BENCARB WATER FLITD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY		< 011	. 016	< 034	< 00E	< 000				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	1015	490	100	280	23	1005	270	600	310
09	1025	110	200	470	30	1040	230	<100	200

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

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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was 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.

		SAMI	DT.R.	DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-
DATE	TIME	TY		PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)
DEC													
13	0910	ENVIRON	MENTAL	34		.067	.053	775	87	12.1		259	-2.0
13	0910		EPLICATE	120								259	
13	0911	CONCURR	ENT REPLIC	CATE					44			258	
FEB			La La Carte	12		222		- 0.22				222	
28 JUN	1330	ENVIRON		68		.058	.043	761	97	11.7	7.1	370	4.0
12 12	0940 0940	SPLIT R		24	6.0	.104	.080	757	82	7.3	7.3	327	28.5
12	0941		EPLICATE ENT REPLIC		5.5								
AUG	0241	CONCORD	MVI IUDIDIC	AIL	3.5								
07	1040	ENVIRON	MENTAL	16	2.9	.112	.084	761	85	7.0	6.8	250	31.5
							ANC					SOLIDS,	SOLIDS,
		HARD-		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF
	TEMPER-	NESS	DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI- TUENTS,
	ATURE	(MG/L	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-
DATE	WATER	AS	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED
	(DEG C)	CACO3)	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)
	(00010)	(00900)	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)
DEC													
13	2.5	50	11.4	5.26	4.06	22.9	28	29.4	.2	10.2	25.5	148	144
13	22	70	16.0	7.30	2.90	15.0	35	32.0	. 1		19.0	150	125
13 FEB		70	16.0	7.30	2.90	15.0	35	33.0	. 1		19.0	150	126
28	7.0	54	13.4	5.12	3.32	45.9	20	71.4	E.1	8.7	26.1	204	200
JUN		7.7		5.22	5.52		20	/=	2.2	0.,	2012		
12	20.5	58	13.4	6.01	4.17	39.5	58	35.2	.2	8.2	25.7	193	185
12		56	13.0	5.70	4.70	39.0	56	37.0	. 3		27.0	200	177
12		56	13.0	5.70	4.70	38.0	57	37.0	. 3		27.0	200	176
AUG 07	25.0	51	12.2	4.88	4.80	23.0	25	33.0	.2	7.9	24.5	135	139
		17					22				25.7	777	
	NITRO-	NITRO-		NITRO-	NITRO-	NITRO-			NITRO-		PHOS-		
	GEN,	GEN, AM-	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-	PHORUS	PHOS-	
	AMMONIA	MONIA +	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	ORTHO,	PHORUS	PHOS-
	DIS-	ORGANIC	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	DIS-	ORTHO	PHORUS
DATE	SOLVED (MG/L	DIS. (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED	SOLVED	SOLVED	TOTAL (MG/L	SUSP	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L
DATE	AS N)	AS N)	AS N)	AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	AS N)	(MG/L AS N)	AS P)	AS P)	AS P)	AS P)
	(00608)	(00623)	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00671)	(70507)	(00665)
DEC													
13	.130	.38	.14	.49	4.05	.012	4.4	4.5	.095	.032			.074
13	<.050	. 15	<.05	.21	2.60	<.050	2.8	2.8		<.030			<.030
13 FEB	<.050	.15	<.05	.15	2.60	<.050	2.8	2.8	7.7	<.030			<.030
28	.090	.29	.09	.34	3.12	.012	3.4	3.5	.089	.011			.061
JUN													
12	.060	.40	. 05	.43	4.00	.019	4.4	4.4	.070	.091	.060	.080	.142
12	.089	. 32	. 09	. 60	3.60	. 025	3.9	4.2		.080	.036	.039	.120
12	.090	. 65	.09	.55	3.50	.023	4.2	4.0		.070	.036	.049	.130
AUG 07	.040	.39	. 05	.40	3.11	.008	3.5	3.5		.069			.091
0/	. 040	. 39	.05	. 40	2.11	.008	3.3	3.5		.009			. 03T

E Estimated value.

< 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 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FIUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC								
13	.8	<.1	2.4	.8	2.0		42	<1
13			1.7				23	<10
13			1.8				24	<10
FEB								
28	.7	<.1	2.2	.7	<1.0		21	6
JUN								
12	.4	<.1	3.5	.4	<1.0	2.20	64	12
12			2.8				62	<10
12			2.7		-4		62	<10
AUG								
07			3.5		<1.0	1.60	66	<1

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1040	700	800	580	15	1040	70	100	110
08	1045	790	60	100	22	1000	130	100	70
					29	0945	1300	<100	340

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

raritan river basin 217

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 abandoned railroad bridge, 0.3 mi south of Kingston, and 0.4 mi upstream from mouth.

DRAINAGE AREA. -- 9.0 mi2.

PERIOD OF RECORD. -- Water years 1976-82, 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 nitritie, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was determined by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. Environmental Protection Agency, Region II, Division of Environmental Science and Assessment.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

				DIS- CHARGE, INST. CUBIC	TUR- BID- ITY FIELD	UV ABSORB- ANCE 254 NM,	UV ABSORB- ANCE 280 NM,	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED (PER-	OXYGEN,	PH WATER WHOLE FIELD	SPE- CIFIC CON-	TEMPER-
DATE	TIME	SAME		FEET PER SECOND	WATER UNFLTRD (NTU)	WTR FLT (UNITS /CM)	WTR FLT (UNITS /CM)	(MM OF HG)	SATUR- ATION)	DIS- SOLVED (MG/L) (00300)	(STAND- ARD UNITS) (00400)	DUCT- ANCE (US/CM) (00095)	ATURE AIR (DEG C) (00020)
				(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00093)	(00020)
DEC	015.3	Call Control	10000			200	0.00	.200	- 2				
13 13	0910 0910	ENVIRON	EPLICATE	1.8		.084	.066	777	85	12.0	6.6	245 245	.00
13	0911		ENT REPLIC				22				6.6	248	
FEB													
28 JUN	1020	ENVIRON		10		.128	.097	763	98	12.7	7.2	447	3.0
12	0900	ENVIRON		12	68	.234	.169	757	74	6.8	7.0	262	23.0
12	0900	SPLIT RI									7.0	262	
12 AUG	0901	CONCURRI	ENT REPLIC	ATE	67				155		7.0	264	
07	0900	ENVIRON	MENTAL	1.7	2.0	.073	.056	762	78	7.2	6.7	240	18.5
		HARD-	200	MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF
	TEMPER-	NESS	DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5 LAB	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	DEG. C	CONSTI-
DATE	ATURE	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED
DALL	(DEG C)	CACO3)	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)
	(00010)	(00900)	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)
DEC													
13	2.0	70	16.5	7.12	2.78	15.1	36	28.0	<.2	14.1	18.4	149	141
13		50	11.0	5.40	4.40	24.0	29	34.0	.2		26.0	150	134
13 FEB		50	11.0	5.40	4.40	24.0	28	30.0	.2	44	27.0	140	130
28 JUN	4.5	82	19.4	8.08	2.33	51.7	24	97.8	<.2	11.6	29.1	259	240
12	19.0	56	13.4	5.50	2.60	25.7	27	49.3	E.1	8.1	13.3	169	141
12		54	13.0	5.20	3.00	24.0	27	53.0	. 2		14.0	180	135
12 AUG		51	12.0	5.20	3.00	24.0	26	52.0	.2		14.0	190	133
07	19.5	64	14.6	6.69	2.92	15.9	31	32.0	<.2	11.1	9.9	129	134
	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS ORTHO, DIS-	PHOS- PHORUS ORTHO	PHOS- PHORUS
DATE	SOLVED (MG/L	DIS. (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L
DALL	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS P)
	(00608)	(00623)	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00671)	(70507)	(00665)
DEC													
13	.050	.18	<.03	.24	3.99	.004	4.2	4.2	.048	.007			.015
13	.140	. 41	. 14	.30	2.50	<.050	2.9	2.8		.030		- 53	.070
13 FEB	.140	. 29	.14	.52	2.50	<.050	2.8	3.0		.030			.070
28 JUN	<.030	.19	.03	.24	1.37	<.003	1.6	1.6	.034	.006		155	.017
12	.290	.74	.32	1.1	1.61	.035	2.3	2.7	.238	.026	<.020	.030	.116
12	.350	.94	.40	1.2	1.40	.038	2.3	2.6		.010	.013	.023	.110
AUG	.350	.98	.40	1.1	1.40	.038	2.4	2.5	=-	.010	.013	.023	.110
07	.050	.17	.05	.21	5.11	.005	5.3	5.3	.045	.010			.017

E Estimated value.

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

RARITAN RIVER BASIN

01401400 HEATHCOTE BROOK AT KINGSTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC								
13	.3	<.1	2.4	.3	E1.4		25	<1
13	:		1.5				43	<10
13			1.4				43	<10
FEB								
28	.3	<.1	3.6	. 3	<1.0		23	4
JUN								
12	1.7	<.1	8.2	1.7	4.9	3.90	31	46
12			7.8				29	32
12			7.8				29	32
AUG								
07	<.1	<.1	2.1	<.1	<1.0	7.50	19	<1

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1010	330	200	260	15	1010	170	400	240
08	1010	230	200	230	22	1020	790	900	130
					29	0940	1100	500	850

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

01401560 ROCK BROOK AT ZION, NJ

LOCATION.--Lat 40°26'22", long 74°44'23", Somerset County, Hydrologic Unit 02030105, at bridge on Long Hill Road at Zion, 0.9 mi northeast of Amwell, and 2.8 mi upstream of Sylvan Lake.

DRAINAGE AREA. -- 3.19 mi2.

PERIOD OF RECORD .-- November 2000 to September 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-QUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001
MYTEY-COVITITI	Data,	MATER	TEM	OCTOBER	2000	10	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)
NOV													
30	1015		.235	.191	752	95	11.8	7.6	119	5.5	5.5	44	9.44
FEB 07	1100	221	.156	.123	760	97	13.7	7.2	112	5.0	1.0	31	6.73
MAY	1100		.130	.123	700	٠,	13.7	7.2		3.0	1.0	31	0.75
24 SEP	1045	4.3	.231	.180	752	91	9.2	7.5	121	17.5	14.5	45	10.0
06	1030	5.5	.117	.090	760	80	7.9	7.9	165	24.5	16.0	67	14.1
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED	SOLVED	SOLVED	(MG/L AS	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
30 FEB	4.98	.93	4.5	29	6.8	<.2	21.8	14.7	87	81	<.030	.28	<.03
07	3.47	.57	7.7	16	12.5	<.2	15.5	13.2	79	70	.030	.10	<.03
MAY 24	4.93	.98	5.3	32	6.6	<.2	23.4	14.2	101	85	.030	.33	<.03
SEP 06	7.62	1.41	5.9	56	8.5	E.1	24.9	12.0	117	109	.030	.17	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
30 FEB	.23	.085	<.003	.37	.32	.027	.006	.016	.4	<.1	6.0	.4	E1.2
07	.25	.159	<.003	.26	.41	.022	.008	.014	.3	<.1	3.9	.2	<1.0
MAY 24	.38	.092	.003	.42	.47	.027	.017	.029	.4	<.1	6.0	.4	E1.2
SEP	10	250		40									
06	.19	.250	<.003	.42	.44	.045	.013	.020	.2	<.1	3.1	.2	E1.1

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
30		13	2
FEB			
07		14	2
MAY			
24	1.70	22	2
SEP			
06	4.90	39	2

E Estimated value.

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

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
SEP 06	1030	<2	12.6	<.06	36	<.04	<1	2.0	290	<1	16	<.01	<1
				D#	ATE	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)					
					6	E.3	<.05	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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 07	1100	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 07	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	אַכו	TE	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)		
	FEE C	3 17	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 24	1045	<.004	<.002	<.005	.008	<.010	<.041	<.030	<.005	<.018	<.003	<.006	<.005

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

RARITAN RIVER BASIN

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
24	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITED 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITED 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	4	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0900	3500	1600	1700	06	0850	20	100	130
30	0945	50	<100	70	13	0840	20	100	50
					19	0835	1300	100	330

E Estimated value.
< Actual value is known to be less 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, at highway bridge at Blackwells Mills, and 0.3 mi downstream from Six Mile Run.

DRAINAGE AREA .-- 258 mi2.

PERIOD OF RECORD. -- Water years 1962-69, 1973, 1976-80, 1991 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 10.

WATER-OUT	VTT.TA	DATE	WATER	VEAD	OCTORER	2000	TY	SEPTEMBER	2001
WAILER-OU	TITI	DATA.	WATER	ILAR	OCTOBER	2000	10	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
28 FEB	1000	503		.213	.171	761	89	10.9	7.6	244		6.5	68
21 MAY	1000	314		.092	.071	764	98	12.5	8.1	334	7.0	5.0	70
30	1000	399	16	.264	.206	760	70	6.6	7.3	229	16.0	18.0	54
29	1000	160	7.8	.170	.128	762	55	4.6	7.2	242	20.0	24.5	60
		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5 LAB	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI- TUENTS,	AMMONIA DIS-	MONIA + ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
28 FEB	16.2	6.73	4.58	15.9	43	25.6	E.1	8.0	22.8	149	134	.070	.55
21 MAY	16.6	6.91	2.96	32.3	31	56.6	E.1	10.4	25.9	184	181	.120	.31
30	12.6	5.53	3.10	20.1	32	26.3	E.2	9.0	18.7	129	122	.120	. 64
29	13.9	6.21	4.35	20.9	35	30.2	.2	6.9	24.1	144	128	.060	.58
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-	Value 1	NITRO- GEN, PAR	PHOS-	dans.	CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	DIS-	GEN,	WAT FLT	PHORUS DIS-	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	SOLVED (MG/L AS N)	TOTAL (MG/L AS N)	SUSP (MG/L AS N)	SOLVED (MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV	1.50												200
28 FEB	.19	.65	1.85	.008	2.4	2.5	.177	.133	.195	1.1	<.1	6.1	1.1
21 MAY	.18	.39	2.44	.019	2.7	2.8	.067	.138	.174	.5	<.1	2.9	.5
AUG	.17	.81	1.77	.040	2.4	2.6	.088	.161	.228	.8	<.1	6.5	.8
29	.06	.60	E1.69	.023			.086	.286	.296	.5	<.1	5.2	.5

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
28	3.9		52	8
FEB				
21	E1.6		38	10
MAY				
30	2.1	2.60	42	29
AUG				
29	<1.0	1.00	66	5

E Estimated value.

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

RARITAN RIVER BASIN

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1150	5400	<100	3600	06	1150	330	500	100
30	1220	1700	300	570	13	1125	110	<100	50
					19	1130	1400	900	480

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

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ

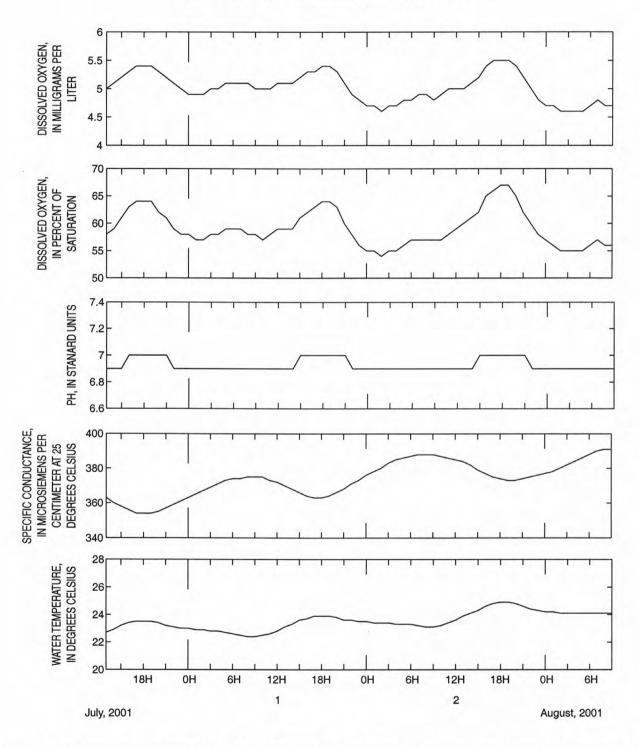


Figure 45. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01402000 Millstone River at Blackwells Mills, water year 2001.

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ

LOCATION.--Lat 40°35'21", long 74°33'49", Somerset County, Hydrologic Unit 02030105, at bridge on Chimney Rock Road, 0.1 mi downstream of Washington Valley Reservoir, and 0.8 mi south of Martinsville.

DRAINAGE AREA. -- 6.29 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMI TYI		TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV	1020	ENVIRON			225	077	7.52	0.5	10.0		100	8.0	6.0
29 FEB	1030	ENVIRON	ENTAL		.335	. 277	763	96	12.0	7.7	188	8.0	6.0
01 MAY	1000	ENVIRON	MENTAL		.215	.174	760	98	13.5	7.5	294	5.0	2.0
24	1000	ENVIRON	ENTAL	4.2	.145	.113	759	89	8.6	7.9	268	18.0	16.9
AUG 14	1045	ENVIRON	ENTAL	6.7	.124	.092	758	100	8.1	8.1	241	22.0	25.6
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV													
29 FEB	67	16.9	5.92	2.29	9.0	52	13.0	<.2	12.6	13.7	129	106	.050
01 MAY	67	16.6	6.28	1.36	24.9	33	53.2	<.2	11.6	15.3	165	153	.050
24 AUG	91	23.1	8.08	1.19	15.1	67	29.3	<.2	12.9	17.5	160	148	.070
14	87	22.0	7.68	1.50	13.1	70	23.7	<.2	10.5	12.6	142	133	<.030
	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00623)	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)
NOV													
29 FEB	.44	.05	.70	.426	.006	.87	1.1	.234	.015	.081	1.3	<.1	8.9
01 MAY	.32	.06	.36	.800	.004	1.1	1.2	.091	.013	.035	.8	<.1	5.4
24 AUG	.41	.08	.60	.201	.008	.61	.80	.149	.017	.039	.7	<.1	4.4
14	.28	<.03	.57	.063	<.003	.34	.64	.241	.007	.032	1.7	<.1	4.2

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

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	CARBON,	OXYGEN	CHLORO-		RESIDUE
	ORGANIC	DEMAND,	PHYLL A		TOTAL
	PARTIC-	BIO-	FLUORO-	BORON,	AT 105
	ULATE	CHEM-	METRIC	DIS-	DEG. C.
	TOTAL	ICAL,	METHOD	SOLVED	SUS-
DATE	(MG/L	5 DAY	CORR.	(UG/L	PENDED
	AS C)	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00689)	(00310)	(32209)	(01020)	(00530)
NOV					
29	1.3	4.9		130	<1
FEB					
01	. 8	2.0		80	5
MAY					
24	.7	2.5	18.9	118	2
AUG					
14	1.7	2.1	58.7	152	<1

DATE	TIME	SAMI TYP		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 UNFL/TRD 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)
AUG 14	0930	FIELD BI	LANK							<.2	4		<.08
14	1045	ENVIRON	MENTAL	E2	27.8	<.06	140	<.04	<1		1.2	310	
	DATE	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												
	14 14	<1	95	<.01	<.01	<.06	<1	<.4	<.05	<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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 01	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB	<.10		. 10	4.10	. 10				. 10		. 10	< 10	4
01	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.4
	Dź	ATE	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)		
	FEE				. 10			. 10	. 10	. 20			
		1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

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

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY													
24	1000	<.004	<.002	<.005	.007	<.010	E.009	<.020	<.005	<.018	<.003	E.005	.054
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
24	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	.031
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY										
			2	4	E.003	<.016	<.034	<.005	E.003				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1105	2200	2000	2400	06	1115	110	200	30
30	1135	230	<100	10	13	1050	20	100	20
					19	1100	130	100	50

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

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 mi².

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.

REMARKS.--Data collected as part of the Long Island-New Jersey National Water-Quality Assessment Program (LINJ NAWQA). 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 "Explanation of the Records, Quality-Control Data" in the "Introduction". Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table. Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

DATE	TIME	SAMP TYP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT				100 02 0000		7: 13:24	*********			7.1097.0			127-23-129
26 NOV	1020	ENVIRONM	ENTAL	181	764	90	9.4	7.2	412		13.5	110	27.6
29 DEC	0950	ENVIRONM	ENTAL	761	758	99	12.0	7.5	252	7.5	7.0	72	17.9
28 FEB	1020	ENVIRONM	ENTAL	577	758	98	14.3	7.8	320	-4.0	.00	90	22.2
01	1010	ENVIRONM	ENTAL	3660	767			7.3		6.0	2.0	65	16.5
28	1000	ENVIRONM		1830	764		13.5	7.4		.5	5.0	82	20.7
MAR													
29	0840	FIELD BL	LANK										
29 APR	0920	ENVIRONM	ENTAL	978	763	111	13.6	7.4	287		6.5	78	19.5
25	1040	ENVIRONM	ENTAL	677	766	101	9.7	7.7	295	14.0	17.5	89	22.1
25	1041	SPLIT RE	EPLICATE									88	21.9
25	1042	SEQUENTI	TAL REPLIC	CATE									
MAY 30	1020	ENVIRONM	ENTAL	1190	763	94	9.0	7.2	251	16.0	17.5	70	17.5
JUL				1322		4.4		2.2	222		122.2	4.2	
02	1020	ENVIRONM		2000	767	91	7.8	7.3	227		23.5	66	16.3
03	0845	FIELD BL											.01
03	1000	ENVIRONM		105	757	91	7.5	7.5	456	28.0	24.5	120	32.7
28	1000	ENVIRONM	ENTAL	187	757	98	8.2	7.8	409		24.0	120	30.1
SEP 27	1010	ENVIRONM	ENTAL	199	764	91	8.6	7.8	370		18.0	100	25.7
				ALKA-	BICAR-					NITRO-	NITRO-	NITRO-	
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)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	WAT DIS TOT IT FIELD MG/L AS CACO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	DIS- SOLVED (MG/L AS SO4)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN, TOTAL (MG/L AS N)
OCT 26	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	WAT DIS TOT IT FIELD MG/L AS CACO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	DIS- SOLVED (MG/L AS SO4)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN, TOTAL (MG/L AS N)
OCT 26 NOV 29	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)
OCT 26 NOV 29 DEC 28	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)
OCT 26 NOV 29 DEC 28 FEB	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0
OCT 26 NOV 29 DEC 28 FEB 01	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0
OCT 26 NOV 29 DEC 28 FEB 01 28	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0
OCT 26 NOV 29 DEC 28 FEB 01 28	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .75 .54 .70 .36	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .36	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .2628	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 APR 25	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26 .28 .41 .38	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .36	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 APR 25 25	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .2628	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 APR 25	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46 50 58 61	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26 .28 .41 .38	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .363854	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 APR 25 25 25	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46 50 58 61	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .2628 .41 .38	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638 .54 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041129	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 29 MAR 29 APR 25 25 25 MAY 30 JUL 02	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46 50 58 61	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .2628 .41 .38	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638 .54 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 25 25 30 JUL 02 AUG	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21 6.42 6.20	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39 2.47 2.72	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 23.2 22.6	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50 44	BONATE WATER DIS IT FIELD MG/L AS HC03 (00453) 87 54 60 37 46 50 58 61	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 44.2 39.6 40.9 30.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3 8.0 6.2 6.4 10.3	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 	GEN, AM- MONIA + MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26 .28 .41 .3847	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638 .54546293	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041129 .071	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 25 25 MAY 30 JUL 02 AUG 03	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21 6.42 6.20 <.008	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39 2.47 2.72 <.09	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50 44 43	BONATE WATER WATER DIS IT FIELD MG/L AS HC03 (00453) 87 54 60 37 46 50 58 61 54 52	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 44.2 39.6 40.9 30.1 25.5 E.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3 8.0 6.2 6.4 10.3 7.4	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26 .28 .41 .38 .47 .59 <.10	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .36 .38 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041129 .071 <.040	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 29 MAR 29 APR 25 25 25 MAY 30 JUL 02 AUG 03	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21 6.42 6.20 <.008	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39 2.47 2.72 <.09 4.75	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 23.3 23.2 22.6 19.1 15.9	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50 44 43 59	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 87 54 60 37 46 50 58 61 54 52 72	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 44.2 39.6 40.9 30.1 25.5 E.1 52.4	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3 8.0 6.2 6.4 10.3 7.4	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 24.1 27.9 27.4 19.7 18.1	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .2628 .41 .3847 .59 <.10 .83	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .3638 .54 .5462 .93 <.08	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041129 .071 <.040 .041	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0
OCT 26 NOV 29 DEC 28 FEB 01 28 MAR 29 29 25 25 MAY 30 JUL 02 AUG 03	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 9.76 6.60 8.47 5.78 7.35 7.10 8.22 8.21 6.42 6.20 <.008	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.63 3.72 2.68 2.51 2.15 1.87 2.35 2.39 2.47 2.72 <.09	DIS- SOLVED (MG/L AS NA) (00930) 30.5 16.1 21.2 30.5 37.3 	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 71 44 49 30 38 42 47 50 44 43	BONATE WATER WATER DIS IT FIELD MG/L AS HC03 (00453) 87 54 60 37 46 50 58 61 54 52	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 41.5 23.0 38.1 57.8 67.0 44.2 39.6 40.9 30.1 25.5 E.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 E.1 E.1 E.1 E.1 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 7.8 8.4 11.7 8.3 9.3 8.0 6.2 6.4 10.3 7.4	DIS- SOLVED (MG/L AS SO4) (00945) 51.5 25.4 26.6 17.6 21.8 	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) 2.1 .48 .44 .42 .26 .28 .41 .38 .47 .59 <.10	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) 2.5 .75 .54 .70 .36 .38 .54 .54 .54 .54 .54 .54 .54 .54 .54 .54	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) 1.58 .064 .158 .087 .053 E.028 E.021 <.041129 .071 <.040	GEN, TOTAL (MG/L AS N) (00600) 4.5 2.8 3.0 2.3 2.0

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

		NITRO-	NITRO-		NITRO-		PHOS-		CARBON,	CARBON,		CARBON,	SOLIDS,
	NITRO- GEN DIS- SOLVED	GEN, NO2+NO3 DIS- SOLVED	GEN, NITRITE DIS- SOLVED	NITRO- GEN, ORGANIC TOTAL	GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	INORG + ORGANIC PARTIC. TOTAL	INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	ORGANIC PARTIC- ULATE TOTAL	RESIDUE AT 180 DEG. C DIS-
DATE	(MG/L AS N) (00602)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00605)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	SOLVED (MG/L) (70300)
OCT													
26 NOV	4.1	2.00	.019	.95	.170	.540	.504	.626	.9	<.1	4.1	.9	235
29 DEC	2.5	2.06	.010	.68	.102	.125	.107	.185	.9	<.1	6.3	.9	154
28 FEB	2.9	2.42	.013	.38	.078	.122	.104	.165	.5	<.1	3.0	. 5	178
28	2.1 1.9	1.63	.008	.61 .31	.201	.076	.070 .048	.153 .085	1.1	<.1 <.1	4.6 3.2	1.1	173 209
MAR 29			22		.059				.2	<.1	<.15	.2	125
29 APR	2.0	1.71	.012		.122	.080	.068	.116	.5	<.1	3.1	.5	170
25	2.0	1.58	.020	225	.180	.137	.109	.176	.8	<.1	3.1	.8	200
25	1.9	1.54	.020		77.	.130	.103	.175			77		187
25 MAY				==	.118				. 8	<.1	3.1	. 8	
JUL	2.1	1.66	E.004	.49	.149	.120	.104	.173	.7	<.1	4.8	.7	149
02 AUG	1.9	1.27	E.003	.86	.380	.155	.163	.285	3.3	<.1	5.6	3.2	134
03		.048	<.006			<.006	<.020	<.004					<10
28	5.3	4.50 E4.55	.027	.91	.113	.747 E.721	.713 E.688	.785 .780	.6	<.1 <.1	4.7 3.9	.6	278 253
SEP									.4				
27	3.9	3.35	.007		.066	.365	.345	.420	.9	<.1	4.2	. 8	232
	SOLIDS, SUM OF CONSTI- TUENTS,	BORON, DIS-	IRON, DIS-	MANGA- NESE, DIS-	SEDI- MENT, DIS- CHARGE,	SEDI-	ACETO- CHLOR, WATER	ALA- CHLOR, WATER,	ALPHA BHC	ATRA- ZINE, WATER,	BEN- FLUR- ALIN WAT FLD	CAR- BARYL WATER FLTRD	CARBO- FURAN WATER FLTRD
DATE	DIS- SOLVED (MG/L)	SOLVED (UG/L AS B)	SOLVED (UG/L AS FE)	SOLVED (UG/L AS MN)	SUS- PENDED (T/DAY)	SUS- PENDED (MG/L)	FLTRD REC (UG/L)	DISS, REC, (UG/L)	DIS- SOLVED (UG/L)	DISS, REC (UG/L)	0.7 U GF, REC (UG/L)	0.7 U GF, REC (UG/L)	0.7 U GF, REC (UG/L)
	(70301)	(01020)	(01046)	(01056)	(80155)	(80154)	(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(82674)
OCT 26 NOV	229	119	70	230	3.1	6	<.004	<.002	<.005	.017	<.010	<.041	<.020
29 DEC	137	59	110	45.8									
28			110	45.0	23	11	<.004	<.002	<.005	.012	<.010	<.041	<.020
FEB	172	49	80	57.7	10	6	<.004 <.004	<.002 .011	<.005 <.005	.012	<.010	<.041	<.020
01 28	172 165 196	49 34 33											
01 28 MAR	165	34	80 70	57.7 58.2	10 425	6 43	<.004 <.004 <.004	.011 <.002 <.002	<.005 <.005 <.005	.024 .008 .012	<.010 <.010 <.010	<.041 <.041 <.041	<.020 <.020 <.020
01 28 MAR 29 29	165 196	34 33	80 70 70	57.7 58.2 49.3	10 425	6 43 9	<.004 <.004	.011	<.005	.024	<.010 <.010	<.041 <.041	<.020 <.020
01 28 MAR 29 29 APR 25	165 196	34 33	80 70 70	57.7 58.2 49.3	10 425 44	6 43 9	<.004 <.004 <.004 <.004	.011 <.002 <.002 <.002	<.005 <.005 <.005 <.005	.024 .008 .012 <.007	<.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041	<.020 <.020 <.020 <.020
01 28 MAR 29 29 APR 25	165 196 161	34 33 48	80 70 70 90	57.7 58.2 49.3	10 425 44 16 7.3	6 43 9	<.004 <.004 <.004 <.004 <.004	.011 <.002 <.002 <.002 <.002	<.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010	<.010 <.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041 <.041	<.020 <.020 <.020 <.020 <.020
01 28 MAR 29 29 APR 25 25	165 196 161 166 167	34 33 48 57 59	80 70 70 70 90 110 110	57.7 58.2 49.3 53.0 28.6 27.9	10 425 44 16 7.3	6 43 9 6	<.004 <.004 <.004 <.004 <.004 <.004	.011 <.002 <.002 <.002 <.002 E.003	<.005 <.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010	<.010 <.010 <.010 <.010 <.010 <.010 <.010010	<.041 <.041 <.041 <.041 <.041 E.004 <.041	<.020 <.020 <.020 <.020 <.020 <.020 <.020020
01 28 MAR 29 29 APR 25 25 25 MAY 30 JUL	165 196 161 166 167	34 33 48 57 59	80 70 70 70 90 110 110	57.7 58.2 49.3 53.0 28.6 27.9	10 425 44 16 7.3	6 43 9 6 4 4	<.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	.011 <.002 <.002 <.002 <.002 E.003 <.002	<.005 <.005 <.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010	<.010 <.010 <.010 <.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041 <.041 <.041 E.004 <.041	<.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020
01 28 MAR 29 29 APR 25 25 25	165 196 161 166 167	34 33 48 57 59	80 70 70 70 90 110 110	57.7 58.2 49.3 53.0 28.6 27.9	10 425 44 16 7.3	6 43 9 6 4 4	<.004 <.004 <.004 <.004 <.004 <.004 <.004	.011 <.002 <.002 <.002 <.002 <.002 E.003 <.002	<.005 <.005 <.005 <.005 <.005 <.005 <.005005	.024 .008 .012 <.007 .010 .014 E.005	<.010 <.010 <.010 <.010 <.010 <.010 <.010010	<.041 <.041 <.041 <.041 <.041 E.004 <.041	<.020 <.020 <.020 <.020 <.020 <.020 <.020020
01 28 MAR 29 29 APR 25 25 25 UL 02 AUG 03	165 196 161 166 167 140 124	34 33 48 57 59 54 49	80 70 70 70 90 110 110 140 50 <10	57.7 58.2 49.3 53.0 28.6 27.9 39.9 17.0 <3.0	10 425 44 16 7.3 48 475	6 43 9 6 4 4 15 88	<.004 <.004 <.004 <.004 <.004 <.004 <.004081 .008	.011 <.002 <.002 <.002 <.002 <.002 <.002002 .012 .009	<.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010 .014 E.005 .612	<.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041 <.041 <.041 E.004 <.041 E.019 E.146	<.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020
01 28 MAR 29 29 APR 25 25 MAY 30 JUL 02 AUG 03 03	165 196 161 166 167 140 124	34 33 48 57 59 54 49 <13 160	80 70 70 70 90 110 110 140 50 <10	57.7 58.2 49.3 53.0 28.6 27.9 39.9 17.0 <3.0 25.5	10 425 44 16 7.3 48 475	6 43 9 6 4 4 15 88	<.004 <.004 <.004 <.004 <.004 <.004 <.004081 .008 <.004	.011 <.002 <.002 <.002 <.002 <.002012 .009 <.002	<.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010 .014 E.005 .612 .181	<.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041 <.041 <.041 =.004 <.041 E.019 E.146	<.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020
01 28 MAR 29 29 APR 25 25 25 JUL 02 AUG 03	165 196 161 166 167 140 124	34 33 48 57 59 54 49	80 70 70 70 90 110 110 140 50 <10	57.7 58.2 49.3 53.0 28.6 27.9 39.9 17.0 <3.0	10 425 44 16 7.3 48 475	6 43 9 6 4 4 15 88	<.004 <.004 <.004 <.004 <.004 <.004 <.004081 .008	.011 <.002 <.002 <.002 <.002 <.002 <.002002 .012 .009	<.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	.024 .008 .012 <.007 .010 .014 E.005 .612	<.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010 <.010	<.041 <.041 <.041 <.041 <.041 <.041 E.004 <.041 E.019 E.146	<.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020 <.020

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

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

DATE	CHLOR- PYRIFOS DIS- SOLVED	CYANA- ZINE, WATER, DISS, REC	DCPA WATER FLTRD 0.7 U GF, REC	DEETHYL ATRA- ZINE, WATER, DISS, REC	DI- AZINON, DIS- SOLVED	DI- ELDRIN DIS- SOLVED	EPTC WATER FLTRD 0.7 U GF, REC	LINDANE DIS- SOLVED	LIN- URON WATER FLTRD 0.7 U GF, REC	MALA- THION, DIS- SOLVED	METHYL AZIN- PHOS WAT FL/T 0.7 U GF, REC	METO- LACHLOR WATER DISSOLV	WATER DISSOLV
	(UG/L) (38933)	(UG/L) (04041)	(UG/L) (82682)	(UG/L) (04040)	(UG/L) (39572)	(UG/L) (39381)	(UG/L) (82668)	(UG/L) (39341)	(UG/L) (82666)	(UG/L) (39532)	(UG/L) (82686)	(UG/L) (39415)	(UG/L) (82630)
	(55555)	(01011)	(02002)	(01010)	(33372)	(33301)	(02000)	(33311)	(02000)	(33332)	(02000)	(00110)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
OCT 26	<.005	<.018	<.003	E.017	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006
NOV	1.005	1.010	1.003	E.UI/	E.003	4.005	1.002	V.004	1.035	1.027	1.050	.010	1.000
29	<.005	<.018	<.003	E.019	.015	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006
DEC 28	<.005	<.018	<.003	E.027	.007	4 00E	<.002	<.007	<.035	<.027	<.050	.021	<.006
FEB	1.005	1.010	1.003	E. 027	.007	<.005	1.002	1.007	1.035	1.027	1.050	.021	1.000
01	<.005	<.018	<.003	E.012	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.013	<.006
28 MAR	<.005	<.018	<.003	E.015	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006
29	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006
29	<.005	<.018	<.003	E.010	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.012	<.006
APR 25	<.005	<.018	<.003	E.015	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006
25	<.005	<.018	<.003	E.005	.009	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006
25												77	
MAY 30	<.005	<.018	<.003	E.046	.015	<.005	<.002	<.004	<.035	<.027	<.050	.236	<.006
JUL		.,,,,		2.040	.015	1.005	1.002		1.055			,,,,,	
02 AUG	E.004	E.007	<.003	E.033	.177	<.005	<.005	<.004	<.035	E.004	<.050	.112	<.006
03				2.2	57		77.	22.				77.	
03 28	<.005 <.005	<.018 <.018	<.003 <.003	E.016 E.017	.012	<.005 <.005	<.002 <.006	<.004	<.035 <.035	<.027 <.027	<.050 <.050	.033	<.006 <.006
SEP		11020		2.01/	.017	1.005	1.000		1.055				11000
27	<.005	<.018	<.003	E.015	.011	<.005	<.007	<.004	<.035	<.027	<.050	.023	<.006
		MOL- INATE WATER FLTRD 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	P,P'	PENDI- METH- ALIN WAT FLT 0.7 U	PRO- METON, WATER, DISS,	SI- MAZINE, WATER, DISS,	TEBU- THIURON WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLITED 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U		
	DATE	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82684)	DISSOLV (UG/L) (34653)	GF, REC (UG/L) (82683)	REC (UG/L) (04037)	REC (UG/L) (04035)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)		
	OCT	19.35								10000			
	NOV	<.002	<.007	<.003	<.010	E.011	E.005	<.016	<.034	<.005	<.009		
	29 DEC	<.002	<.007	<.003	<.010	.030	<.011	<.016	<.034	<.005	E.003		
	28 FEB	<.002	<.007	<.003	<.010	<.015	E.004	<.016	<.034	<.005	<.009		
	01	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034	<.005	<.009		
	28 MAR	<.002	<.007	<.003	<.010	E.007	E.003	<.016	<.034	<.005	<.009		
	29	<.002	<.007	<.005	<.010	<.015	<.011	<.016	<.034	<.005	<.009		
	29	<.002	<.007	<.003	<.010	E.005	<.011	<.016	<.034	<.005	<.009		
	APR 25	<.002	<.007	<.003	<.010	E.004	.014	<.016	<.034	<.005	<.009		
	25	<.002	<.007	<.003	E. 014	.032	E. 004	E. 015	<.034	<.005	<.009		
	25							101					
	MAY 30	<.002	<.007	<.003	E.009	.021	.017	<.016	<.034	<.005	E.003		
	JUL 02	<.002	<.007	<.003	E.006	.037	E.009	<.016	<.034	<.005	<.009		
	AUG 03					-1					421		
	03	<.002	<.007	<.003	<.010	.021	<.011	<.016	<.034	<.005	<.009		
	28	<.002	<.007	<.003	<.010	.035	<.011	<.016	<.034	<.005	<.009		
	SEP												
	27	<.002	<.007	<.003	<.010	.025	E.004	<.016	<.034	<.005	<.009		

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

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAME TYE		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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLITED 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)
NOV 29	0950	ENVIRONM	CONTRACT.	<.03	<.04	<.04	1010		E.1	<.06	E.01	E.09	E.05
FEB	0930	ENVIRON	ENTAL	1.03	<.04	<.04	1810	E.1	E.I	<.00	E.UI	E.09	E.05
28	0930	FIELD BI		<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05
28	1000	ENVIRONM	ENTAL	<.03	<.04	<.04	E2	E.1	.3	<.06	E.01	E.07	E.05
MAY		20222		3.324	2.2				-0.4	0.22	1.024	1.04	
30	1020	ENVIRONM	ENTAL	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05
28	1000	ENVIRONM	ENTAL	<.03	<.04	<.04	<7	E.1	E.1	<.06	<.04	E.07	E.02
DATE	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L)
	(77223)	(34536)	(34030)	(32104)	(77041)	(34301)	(32105)	(32106)	(77093)	(32101)	(34668)	(81576)	(50005)
NOV													
29 FEB	E.02	.29	5.12	<.06	<.07	E.04	М	.49	E.07	.15	<.3	.2	<.1
28	<.03	<.03	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1
28 MAY	<.03	.32	4.64	<.06	<.07	E.05	<.2	.30	E.01	E.09	<.3	<.2	<.1
30	<.03	E.03	E.09	<.06	<.07	E.02	E.1	.54	<.04	.19	<.3	<.2	<.1
28	<.03	.24	1.69	E.06	<.07	E.02	.7	5.48	<.04	2.02	<.3	<.2	<.1
	ETHYL- BENZENE	FREON- 113 WATER UNFLTRD	FURAN, TETRA- HYDRO- WATER UNFL/TRD	METHYL TERT- BUTYL ETHER WAT UNF	METHYL- CHLO- RIDE	METHYL ENE CHLO- RIDE	META/ PARA- XYLENE WATER UNFL/TRD	O- CHLORO- TOLUENE WATER WHOLE	O- XYLENE WATER WHOLE	P-ISO- PROPYL- TOLUENE WATER WHOLE	TETRA- CHLORO- ETHYL- ENE	TOLUENE	TRI- CHLORO- ETHYL- ENE
DATE	TOTAL	REC	RECOVER	REC	TOTAL	TOTAL	REC	TOTAL	TOTAL	REC	TOTAL	TOTAL	TOTAL
	(UG/L) (34371)	(UG/L) (77652)	(UG/L) (81607)	(UG/L) (78032)	(UG/L) (34418)	(UG/L) (34423)	(UG/L) (85795)	(UG/L) (77275)	(UG/L) (77135)	(UG/L) (77356)	(UG/L) (34475)	(UG/L) (34010)	(UG/L) (39180)
				30000		12000000	200		To E. Assessing 2	100 000000			a service in
NOV	174												
29	.42	<.06	<2	.3	<.2	М	1.83	E.02	.57	E.03	E.1	.26	E.03
28	<.03	<.06	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	<.1	<.05	<.04
28	E.01	<.06	<2	.2	<.2	E.1	E.03	.36	E.02	<.07	M	.19	E.03
MAY 30	<.03	<.06	<2	.2	<.2	<.2	<.06	<.03	<.04	<.07	м	E.06	<.04
AUG 28	<.03	<.06	<2	E.1	<.2	м	<.06	<.03	<.04	<.07	м	E.04	<.04

	TRI-
	CHLORO
	FLUORO
	METHAN
DATE	TOTAL
	(UG/L)
	(34488
VOV	
29	<.09
EB	
28	<.09
28	<.09
YAY	
30	<.09
AUG	
28	<.09

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

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 mi2.

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

REMARK.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-recomnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 9.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
13 FEB	0940	7.8		.261	.204	760	51	5.7	7.2	250	9.0	10.5	80
12	1150	19		.140	.104	778	94	13.1	7.8	719	1.5	2.5	150
MAY 21 AUG	0850	4.5	10	.140	.101	764	46	4.6	7.4	651	13.0	15.5	230
15	1000	14	5.1	.205	.150	761	58	4.9	6.8	220	28.5	23.5	64
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	SOLVED (MG/L AS K)	SOLVED (MG/L AS NA)	(MG/L AS CACO3)	SOLVED (MG/L AS CL)	SOLVED (MG/L AS F)	(MG/L AS SIO2)	SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L)	DIS- SOLVED (MG/L)	SOLVED (MG/L AS N)	DIS. (MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
13 FEB	23.9	4.97	3.40	11.1	57	17.6	E.1	7.8	29.8	156	137	.160	.63
12 MAY	44.3	8.54	2.53	81.9	73	143	E.1	10.4	37.3	402	379	.130	.43
21 AUG	69.7	14.8	3.06	33.1	143	62.0	E.1	12.8	83.4	404	367	.300	.76
15	19.3	3.74	2.11	15.1	38	20.4	<.2	6.9	25.7	135	120	.080	.47
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS-	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L
2412	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
13 FEB	.17	. 69	.957	.011	1.6	1.6	.046	.089	.111	.3	<.1	7.3	.3
12 MAY	.16	.49	1.45	.015	1.9	1.9	.103	.018	.077	1.2	<.1	4.3	1.2
21 AUG	.35	. 85	.510	.045	1.3	1.4	.050	.052	.164	.6	<.1	4.8	.6
15	.15	.46	.875	.016	1.3	1.3	.023	.119	.153	.6	<.1	5.3	.6

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-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OXYGEN	CHLORO-		RESIDUE
DEMAND,	PHYLL A		TOTAL
BIO-	FLUORO-	BORON,	AT 105
CHEM-	METRIC	DIS-	DEG. C,
ICAL,	METHOD	SOLVED	SUS-
5 DAY	CORR.	(UG/L	PENDED
(MG/L)	(UG/L)	AS B)	(MG/L)
(00310)	(32209)	(01020)	(00530)
2.6		80	2
E1.7		95	8
E1.8	5.70	187	18
<1.0	2.10	89	4
	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) 2.6 E1.7	DEMAND, PHYLL A BIO- FLUORO- CHEM- METRIC ICAL, METHOD 5 DAY CORR. (MG/L) (UG/L) (00310) (32209) 2.6 E1.7 E1.8 5.70	DEMAND, PHYLL A BIO- FLUORO- BORON, CHEM- METRIC DIS- ICAL, METHOD SOLVED 5 DAY CORR. (UG/L) (MG/L) (UG/L) AS B) (00310) (32209) (01020) 2.6 80 E1.7 95 E1.8 5.70 187

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1015	140	200	200	15	1023	490	200	480
08	1001	1100	<100	260	22	0940	230	200	310
					29	1045	210	<100	120

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-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

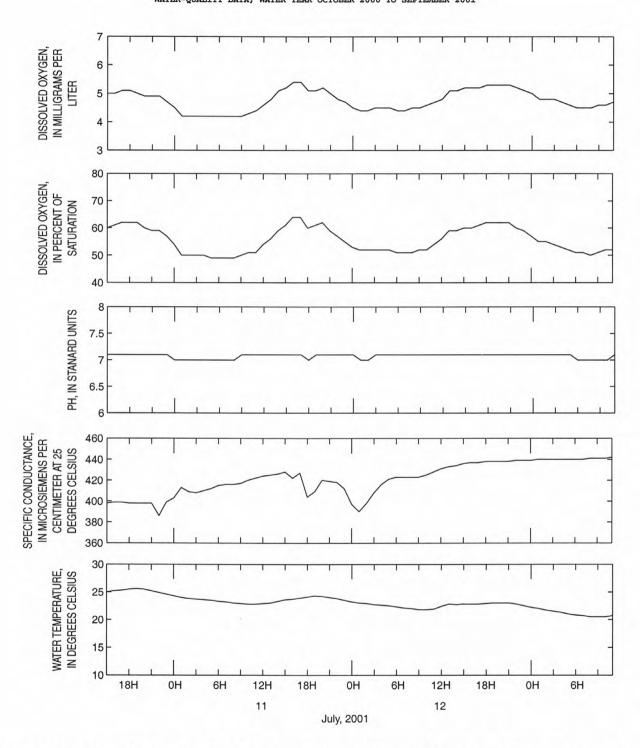


Figure 46. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01403385 Bound Brook at Route 28, at Middlesex, water year 2001.

01403900 BOUND BROOK AT MIDDLESEX, NJ

LOCATION. -- Lat 40°35'06", long 74°30'29", Somerset County, Hydrologic Unit 02030105, at bridge on Sebring Mill Road, 0.4 mi downstream from mouth of Green Brook, and 2.3 mi upstream from mouth.

DRAINAGE AREA . -- 48.4 mi2.

PERIOD OF RECORD .-- Water years 1996-98, February to September 2001.

REMARKS.--Data collected as part of the Long Island-New Jersey National Water-Quality Assessment Program (LINJ NAWQA). For the definitions of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the Records, Quality-Control Data" in the "Introduction". Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only pesticides identified by the analyses in one or more samples are listed in the following table. Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

		SAME	PLE	DIS- CHARGE, INST. CUBIC FEET	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	TYI	PE	PER SECOND (00061)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
FEB													
01	1420	ENVIRONM		105	768			7.5		8.0	4.0	120	33.7
28 MAR	1350	ENVIRON	MENTAL	54	760		15.3	7.8		5.0	6.0	140	39.0
29	1150	FIELD BI	LANK		22								
29	1220	ENVIRON	MENTAL	44	763	118	14.5	7.6	540		6.5	150	42.0
APR	1500	-		20	7.67	120	12.0		F00	10.0	15 5	170	48.7
25 MAY	1500	ENVIRON	MENTAL	32	767	139	13.9	8.0	520	18.0	15.5	170	40.7
30	1310	ENVIRON	MENTAL	46	762	87	8.2	7.2	387	20.0	18.0	110	31.0
30	1311		EPLICATE									110	31.2
30	1312	SEQUENT	IAL REPLIC	CATE									77
JUL 02	1330	ENVIRON	MENTAL	58	767	96	8.4	7.3	330	25.0	22.5	110	30.6
AUG						-	• • •		***				
03	1250	ENVIRON		8.7	757	105	9.0	7.4	516	30.0	22.5	180	50.1
28	1300	FIELD BI			756			7.0	420		24 5	150	E.01 46.5
28 SEP	1400	ENVIRON	MENTAL	20	756	88	7.3	7.9	438		24.5	150	40.5
27	1340	ENVIRON	ENTAL	15	764	87	8.6	7.7	320		16.0	100	29.7
				ALKA-	BICAR-					NITRO-	NITRO-	NITRO-	
	MAGNE -	POTAS-		LINITY	BONATE	CHLO-	FLUO-	SILICA,		GEN, AM-	GEN, AM-	GEN,	
	SIUM	SIUM,	SODIUM,	WAT DIS	WATER	RIDE,	RIDE,	DIS-	SULFATE	MONIA +	MONIA +	AMMONIA	NITRO-
	DIS-	DIS-	DIS-	TOT IT	DIS IT	DIS-	DIS-	SOLVED	DIS-	ORGANIC	ORGANIC	DIS-	GEN,
	SOLVED	SOLVED	SOLVED	FIELD	FIELD	SOLVED	SOLVED	(MG/L	SOLVED	DIS.	TOTAL	SOLVED	TOTAL
DATE	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	MG/L AS CACO3	MG/L AS HCO3	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
	(00925)	(00935)	(00930)	(39086)	(00453)	(00940)	(00950)	(00955)	(00945)	(00623)	(00625)	(00608)	(00600)
FEB													
01	8.49	2.00	65.7	46	56	130	<.2	11.4	29.8	.28	.45	.052	1.8
28	10.3	1.87	83.8	54	66	164	E.1	11.0	34.4	.22	.29	E.026	1.5
MAR 29													
29	11.3		41.7	76	92	87.7	F. 1	11.8	42.6		.31	.052	1.6
29 APR	11.3	1.56	41.7	76	92	87.7	E.1	11.8	42.6	.23	.31	.052	1.6
APR 25	11.3 12.5												
APR 25 MAY	12.5	1.56 1.95	41.7 33.0	76 90	92 109	87.7 73.7	E.1 <.2	11.8	42.6 48.3	.23	.31	.052 E.029	1.6 .95
APR 25 MAY 30	12.5 7.43	1.56 1.95 2.06	41.7 33.0 27.5	76 90 66	92 109 81	87.7 73.7 50.4	E.1 <.2 E.1	11.8 10.4 11.4	42.6 48.3 29.2	.23 .26	.31	.052 E.029	1.6 .95 1.5
APR 25 MAY	12.5	1.56 1.95	41.7 33.0	76 90	92 109	87.7 73.7	E.1 <.2	11.8	42.6 48.3	.23	.31	.052 E.029	1.6 .95
25 MAY 30 30 JUL	12.5 7.43 7.51	1.56 1.95 2.06 2.14	41.7 33.0 27.5 28.7	76 90 66 67	92 109 81 82	87.7 73.7 50.4 49.6	E.1 <.2 E.1 	11.8 10.4 11.4 11.5	42.6 48.3 29.2 29.0	.23 .26 .43 .41	.31 .33 .58 .56	.052 E.029 .192 .168	1.6 .95 1.5 1.5
APR 25 MAY 30 30 JUL 02	12.5 7.43 7.51	1.56 1.95 2.06 2.14	41.7 33.0 27.5 28.7	76 90 66 67	92 109 81 82	87.7 73.7 50.4 49.6	E.1 <.2 E.1 E.1	11.8 10.4 11.4 11.5	42.6 48.3 29.2 29.0	.23 .26 .43 .41	.31 .33 .58 .56	.052 E.029 .192 .168	1.6 .95 1.5
APR 25 MAY 30 30 JUL 02 AUG	12.5 7.43 7.51 7.14	1.56 1.95 2.06 2.14 1.85	41.7 33.0 27.5 28.7 20.8	76 90 66 67 58	92 109 81 82 70	87.7 73.7 50.4 49.6 37.9	E.1 <.2 E.1 E.1 	11.8 10.4 11.4 11.5 	42.6 48.3 29.2 29.0 	.23 .26 .43 .41 	.31 .33 .58 .56	.052 E.029 .192 .168 	1.6 .95 1.5 1.5
APR 25 MAY 30 30 JUL 02	12.5 7.43 7.51	1.56 1.95 2.06 2.14	41.7 33.0 27.5 28.7	76 90 66 67	92 109 81 82	87.7 73.7 50.4 49.6 37.9 56.6	E.1 <.2 E.1 E.1 E.1 <.2	11.8 10.4 11.4 11.5 11.3	42.6 48.3 29.2 29.0	.23 .26 .43 .41	.31 .33 .58 .56	.052 E.029 .192 .168	1.6 .95 1.5 1.5
APR 25 MAY 30 30 JUL 02 AUG 03	12.5 7.43 7.51 7.14 12.9	1.56 1.95 2.06 2.14 1.85	41.7 33.0 27.5 28.7 20.8 27.2	76 90 66 67 58 99	92 109 81 82 70 121	87.7 73.7 50.4 49.6 37.9	E.1 <.2 E.1 E.1 	11.8 10.4 11.4 11.5 	42.6 48.3 29.2 29.0 32.7 60.2	.23 .26 .43 .41 .33	.31 .33 .58 .56 	.052 E.029 .192 .168094 E.029	1.6 .95 1.5 1.5 1.3
APR 25 MAY 30 30 30 JUL 02 AUG 03 28	12.5 7.43 7.51 7.14 12.9 <.008	1.56 1.95 2.06 2.14 1.85 2.20 <.09	41.7 33.0 27.5 28.7 20.8 27.2 <.1	76 90 66 67 58 99	92 109 81 82 70 121	87.7 73.7 50.4 49.6 37.9 56.6 <.1	E.1 <.2 E.1 E.1 E.1 <.2 <.2	11.8 10.4 11.4 11.5 11.3 10.0 E.1	42.6 48.3 29.2 29.0 32.7 60.2 <.1	.23 .26 .43 .41 .33	.31 .33 .58 .56 .50	.052 E.029 .192 .168 .094 E.029 <.040	1.6 .95 1.5 1.5 1.3

E Estimated value.

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

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

			WATER-	QUALITY I	DATA, WATE	R YEAR OC	TOBER 200	00 TO SEPT	TEMBER 200	1			
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)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
FEB 01 28 MAR	1.6 1.4	1.33 1.19	.006	.39	.095	.023 .011	E.014 <.018	.058	.5	<.1 <.1	4.4 3.4	.5 .6	343 416
29 29	1.5	1.30	.013	.26	.043	.011	<.018	.036	.2	<.1	E.18 2.7	.2	293
APR 25	.89	.629	.018		.113	.017	E.010	.042	.5	<.1	3.1	.5	319
MAY 30	1.3	.894	.011	.39	.106	.050	.038	.123	.9	<.1	4.9	.9	213
30 30	1.3	. 903	.009	. 39	.110	.049	.035	.124	.9	<.1	4.9	.9	217
JUL 02	1.1	.772	E.004	.41	.103	.058	.063	.113	10	<.1	5.6	10	207
AUG 03	1.00	.724	.014		.091	.031	.020	.060	.7	<.1	2.8	.7	310
28 28		<.050 E.491	<.006 .015		.229	<.006	<.020 E.012	<.004	1.3	<.1	4.6	1.3	10 269
SEP 27	1.1	.837	.007		<.022	.056	.044	<.060		<.1	3.9	.4	186
27	1.1	.03/	.007	.27	<.022	.056	.044	<.060	.4	٧.1	3.9		100
DATE	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, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FITRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
FEB 01	315	73	100	81.1	3.9	14	<.004	<.002	<.005	<.007	<.010	<.041	<.020
28 MAR	382	72	80	95.4	.78	5	<.004	<.002	<.005	E.003	<.010	<.041	<.020
29 29	290	100	20	116	.34	3	<.004 <.004	<.002 <.002	<.005	<.007 E.003	<.010 <.010	<.041 <.041	<.020 <.020
APR 25	285	117	120	110	.14	2	<.004	.004	<.005	.015	<.010	E.004	<.020
MAY 30	203	93	70	111	3.0	24	.011	<.007	<.005	.047	<.010	E.038	<.020
30 30	205	95	60	112		24	.012	<.009	<.005	.046	<.010	E.036	<.020
JUL 02	180	100	50	50.7	2.8	18		22.		E.030		E.044	
AUG 03	282	145	60	74.8	.19	8	<.004	<.002	<.005	.009	<.010	<.041	<.020
28 28	244	<13 139	<10 60	<3.0 57.3	.27	5	<.004	<.002	<.005	.008	<.010	<.041	<.020
SEP 27	179	106	40	50.5	.16	4	<.004	<.002	<.005	E.004	<.010	E.119	<.020
DATE	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)	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)
FEB 01	<.005	<.018	<.003	<.006	.013	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006
28 MAR	<.005	<.018	<.003	E.003	E.004	<.005	<.002	<.004	<.035	E.005	<.050	<.013	<.006
29 29	<.005 <.005	<.018 <.018	<.003 <.003	<.006 E.003	<.005 E.003	<.005 <.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027 <.027	<.050 <.050	<.013 <.013	<.006 <.006
APR 25	<.005	<.018	<.003	E.017	E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006
30 30 30	E.003 E.003	<.018 <.018	<.003 <.003	E.010 E.011	.062	<.005 <.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027 <.027	<.050 <.050	E.011 E.011	<.006 <.006
JUL 02	E.008	E.009			E.459							E.011	
AUG 03	<.005	<.018	<.003	E.006	.013	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006
28 28	<.005	<.018	<.003	E.004	.068	<.005	<.002	<.004	<.035	E.008	<.050	E.005	<.006
SEP 27	<.005	<.018	<.003	<.006	.073	<.005	<.007	<.004	<.035	<.027	<.050	E.004	<.006
		No. of Park									11111111		12.577

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

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	MOL- INATE WATER FLTRD 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	P,P'	PENDI- METH- ALIN WAT FLT 0.7 U	PRO- METON, WATER, DISS,	SI- MAZINE, WATER, DISS,	TEBU- THIURON WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U
DATE	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82684)	DISSOLV (UG/L) (34653)	GF, REC (UG/L) (82683)	REC (UG/L) (04037)	REC (UG/L) (04035)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)
FEB										
01	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034	<.005	<.009
28	<.002	<.007	<.003	<.010	.018	E.006	<.016	<.034	<.005	<.009
MAR	111777		21777							
29	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034	<.005	<.009
29	<.002	<.007	<.003	<.010	E.010	<.011	<.016	<.034	<.005	<.009
APR										
25	<.002	<.007	<.003	E.011	E.005	.016	<.016	<.034	<.005	<.009
MAY										
30	<.002	<.007	<.003	.017	.059	.024	<.016	<.034	<.005	E.003
30	<.002	<.007	<.003	.016	.062	.024	.020	<.034	<.005	E.003
30										
JUL										
02				E.013	E.074	E.010	E.018			
AUG										
03	<.002	<.007	<.003	<.010	.024	<.011	E.015	<.034	<.005	<.009
28										
28	<.002	<.007	<.003	<.010	.047	<.011	.019	<.034	<.005	<.009
SEP	100000		5 5 2 2 3						100	15.052
27	<.002	<.007	<.003	<.010	.023	E.003	<.025	<.034	<.005	<.009

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

DATE	TIME	SAME TYP		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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
FEB 28	1350	ENVIRON	ENTAL	E.01	<.04	E.01	<7	<.3	<.2	<.06	<.04	<.03	<.05
MAR 29	1150	FIELD BI	ANK	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05
29	1220	ENVIRON		E.02	<.04	E.01	E1	<.3	<.2	<.06	<.04	<.03	<.05
AUG													
28	1400	ENVIRON	ENTAL	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05
DATE	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	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)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
FEB													
28	<.03	<.03	E.01	<.06	<.07	.14	<.2	E.06	E.10	<.05	<.3	<.2	.1
MAR 29	<.03	<.03	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1
29	<.03	<.03	E.02	<.06	<.07	.22	<.2	E.06	.10	<.05	<.3	<.2	.2
AUG								2.00				- 337	
28	<.03	<.03	<.04	<.06	<.07	E.07	<.2	E.05	<.04	<.05	<.3	<.2	<.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)	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)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	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)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
FEB													
28	<.03	<.06	<2	33.0	<.2	<.2	<.06	<.03	<.04	<.07	E.1	E.04	.10
MAR													
29	<.03	<.06	<2	<.2	<.2	<.2	<.06	<.03	<.04	<.07	M	<.05	<.04
29	<.03	<.06	<2	44.2	<.2	М	<.06	<.03	<.04	<.07	E.1	E.06	E.10
AUG 28	<.03	<.06	<2	21.3	<.2	<.2	<.06	<.03	<.04	<.07	м	E.02	<.04
2.1											-		231 2.5

E Estimated value.

M Presence of material verified but not quantified.

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RARITAN RIVER BASIN

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

	TRI-
	CHLORO-
	FLUORO-
	METHANE
DATE	TOTAL
	(UG/L)
	(34488)
FEB	
28	<.09
MAR	
29	<.09
29	<.09
AUG	
28	<.09

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

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 mi2.

PERIOD OF RECORD .-- Water years 1976 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."

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Mixed Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 9.

UV BARO- OXYGEN, STATE SPEARING SURE (PER- OXYGEN, FIELD CON- TEMPER- SOLVED WHOLE CIFIC STAND- DUCT- ATURE STATE STATE SURE (PER- OXYGEN, FIELD CON- TEMPER- SOLVED STAND- DUCT- ATURE SOLVED ARD ANCE AIR (CM) HG) ATION) (MG/L) UNITS (US/CM) (DEG C) 51726) (00025) (00301) (00300) (00400) (00095) (00020)
.070 760 91 12.1 6.8 185 5.0
.037 757 96 12.0 5.9 199 7.0
.065 764 89 9.2 6.7 231 14.0
.074 758 84 7.4 6.8 227
ANC NFLTRD CHLO- FLUO- SILICA, RESIDUE SUM OF TT 4.5 RIDE, RIDE, DIS- SULFATE AT 180 CONSTI- LAB DIS- DIS- SOLVED DIS- DEG. C TUENTS, (MG/L SOLVED SOLVED (MG/L SOLVED DIS- AS (MG/L (MG/L AS (MG/L SOLVED DIS- CACO3) AS CL) AS F) SIO2) AS SO4) (MG/L) (MG/L) CACO3) (00940) (00950) (00955) (00945) (70300) (70301)
8 30.4 .2 12.5 20.7 107 102
4 33.0 E.2 10.4 24.4 115 108
10 43.5 .2 9.6 17.8 134 122
14 46.8 .2 9.8 16.6 134 123
12 45.0 .3 16.0 160 112
11 45.0 .4 16.0 150 112
NITRO-
.95 1.0 .065 E.002057
.95 1.0 .065 E.002057 1.5 1.5 .186 E.002051
1.5 1.5 .186 E.002051
1.5 1.5 .186 E.002051 1.3 1.4 .114 E.003075

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-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	DA	TE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)			
	NOV 2	1	.8	<.1	1.9	.8	2.3		21	7			
	FEE		.9		1.2	.9	<1.0		13	12			
	MAY			<.1									
	AUG		1.2	<.1	1.7	1.2	E1.4	4.90	21	10			
		1 21	.5	<.1	2.9	.5	E1.4	2.00	25 36	5			
	2	?1			2.2		**		47	6			
DATE	TIME	SAME		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	11624	end the same											
21	0950 0950	ENVIRONM BED MATE		5.60	210	1.2	1700	4.0	.3	<2	27.3	E.03	26
21	0950 0951	SPLIT RE	EPLICATE ENT REPLIC	 TATE					==	<2 <2	30.0	<1.30 <1.30	42
DATE	CADMIUM WATER UNFLITED 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)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
21	E.02	<1	.8	1200	<1	46	<.01	3	<.4	<.05	6		
21 21	<1.00	<2	<2.5	1300	<2	50		<5	<1.8	<1.50	<8	2	3.4
21	<1.00	<2	<2.5	1300	<2	51		<5	<1.8	<1.50	<8		
DATE	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, SEDIMT, BED MA- TERIAL 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)	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)
AUG 21	-		- 22		122			22	22	-22			-22
21	17	2.5	6	38000	7.0	71	<.01	.1	<1	40	<50	<50	<50
21 21		==	==		12		==			===	72	- 22	
DATE	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)	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)
AUG													
21	 <50	 <50	 <50	<50	 E10	 M	м	 M	м	м	E10	E10	E10
21		44											
21	175			757				7.7	25	75			

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

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

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)	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)
<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50
	122									==		
					PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)						
			2	1								
			2	21	- 11							
			2	21								
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
FEB		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)		
	ONE SED, BM WS.<2MM DW, REC (UG/KG) (49400) <50 TIME 0900 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10	ISOPHOR ENE, 12 ONE DIMETHL SED, BM SED, BM WS, <2MM WS, <2MM DW, REC UG/KG) (UG/KG) (49400) (49403)	ISOPHOR ENE, 12 ENE, 16	ISOPHOR ENE, 12 DIMETHL DIMETHL SED, BM SED,	ISOPHOR ENE, 12 ENE, 16 ENE, 236 ENE, 26	SIOPHON ENE, 12 ENE, 16 ENE, 236 ENE, 26 ENE	TSOPHOR	TOPHOR ENE, 12 ENE, 16 ENE, 236 ENE, 26 ENE, 27 ENE, 27 ENE, 27 ENE, 28 ENE,	SEPRING	SEC 10 SEC 12 SEE, 16 SEE, 236 SEE, 25 SEE, 27 SAPHTH- DORSTHAL SEED, SEE SEED, SEE SEED, SEE SEED, SEED SEED, SEED, SEED, SEED, SEED SEED, SEED, SEED, SEE	TOTAL CHILDRO- C	THE NAME

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

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLIRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITD 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)
MAY 21	1010	<.004	<.002	<.005	.008	<.010	E.277	<.020	<.005	<.018	<.003	E.003	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 21	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	1	<.011	<.016	E.014	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0945	330	100	310	15	0930	330	400	470
08	0940	170	200	470	22	0930	170	200	410
					29	0900	330	200	700

E Estimated value.

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

WHALE POND BROOK BASIN

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ

LOCATION. --Lat 40°16'31", long 74°00'37", Monmouth County, Hydrologic Unit 02030104, at bridge on Larchwood Avenue at Oakhurst, 0.6 mi upstream of Lake Takanassee, and 1.1 mi south of West Long Branch.

DRAINAGE AREA. -- 5.25 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

TATA (TITE TO	OTTAT TITLE	DAMA	T-73 (TTT-77)	WESD	COMODED	2000	mo	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
15 FEB	0945		.073	.064	761	79	9.0	6.8	134		9.5	30	9.10
07 MAY	0930		.026	.020	770	83	10.7	6.2	465	3.5	5.0	39	11.5
17	1000	11	.018	.013	766	93	9.9	6.7	157	15.0	13.0	36	10.9
AUG 28	1000	7.0	.075	.060	762	75	7.2	6.6	149	26.0	17.5	39	12.1
	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +	NITRO- GEN,
DATE	DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	LAB (MG/L AS	DIS- SOLVED (MG/L	DIS- SOLVED (MG/L	SOLVED (MG/L AS	DIS- SOLVED (MG/L	DEG. C DIS- SOLVED	DIS- SOLVED	DIS- SOLVED (MG/L	ORGANIC DIS. (MG/L	AMMONIA TOTAL (MG/L
DAIL	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
15 FEB	1.83	2.26	8.5	14	15.8	E.1	13.4	14.1	83	75	<.030	.12	<.03
07 MAY	2.52	2.96	62.8	5	115	<.2	9.9	15.5	247	225	.050	E.09	.06
17 AUG	2.14	2.33	10.9	16	22.5	<.2	14.1	14.6	118	90	.040	.14	.05
28	2.01	2.65	9.1	20	19.7	<.2	15.0	12.6	100	85	-040	.18	.05
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
15 FEB	.38	.460	<.003	.58	.84	.053	E.003	.024	.7	<.1	2.1	.7	E1.3
07 MAY	.30	.498	<.003		.80	.123	E.002	.049	2.0	<.1	1.3	2.0	<1.0
17 AUG	.24	.560	<.003	.70	.80	.050	.004	.038	.7	<.1	.97	.7	<1.0
28	.21	E.574	.004	40	44	.046	E.003	.033	.6	<.1	1.5	.6	E1.3

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
15		27	10
FEB			
07		18	12
MAY			
17	.700	15	2
AUG			
28	.500	25	3

E Estimated value.

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

WHALE POND BROOK BASIN

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

DATE	TIME	PH SED BED MAT (STD UNITS)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P)	CARBON, INORG + ORGANIC TOT. IN BOT MAT (GM/KG AS C)	CARBON, INOR- GANIC, TOT IN BOT MAT (G/KG AS C)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
		(70310)	(00626)	(00611)	(00668)	(00693)	(00686)	(01002)	(01007)	(01012)	(01022)	(01027)	(01034)
AUG 28	1000							42	21 0	.17	27	14	<1
28	1000	6.80	190	.6	910	5.1	<.2	<2	31.0			.14	
DATE	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)	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)
28 28	.7	1520	<1	55	<.01	7	<.4	<.05	30	1	.3	46	2.1
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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, EM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU- ORENE, 1METHYL SED, EM 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)
AUG 28													
28	4	29000	23	23	<.01	9.0	<1	70	E30	<50	E20	м	м
DATE	ANTHRA- CENE, 2- METHYL- SED, BM WS, <2MM DW, REC (UG/RG) (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)	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)
AUG 28					-2	12	-22					-22	
28	E10	E50	210	220	240	150	230	280	E40	600	170	<50	<50
DATE	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- 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 28				22	- 22								
28	м	<50	м	<50	<50	E4	<50	E20	280	<50	E10	440	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 UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 07	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
2000	3550												

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

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 07	<.10	<.2	<.10	.80	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.3
	DĀ	ATE	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)		
	FEE	3)7	<.2	<.20	<.10	<.10	<.1	<.10	5.88	<.20	<.2		

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

		- Thirtie											
DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 17	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 17	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			D#	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	7	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	0830	230	200	320	23	0900	230	400	640
09	0835	490	200	580	30	0840	230	200	330

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

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ

LOCATION.--Lat 40°12'13", long 74°03'58", Monmouth County, Hydrologic Unit 02030104, 60 ft downstream from dam on Jumping Brook Reservoir, 0.8 mi upstream from mouth, and 1.4 mi west of Neptune City.

DRAINAGE AREA. -- 6.46 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-	OTTAT.TITY	DATA.	WATTER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS
		SECOND (00061)	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)
NOV													
29 FEB	1100	8.6		.172	.134	764	85	10.4	6.5	185	14.0	7.0	40
08 MAY	1020	8.2		.145	.112	774	93	12.8	6.7	552	7.0	3.0	45
01 AUG	0910	4.5		.113	.088	765	94	9.9	6.7	257	25.5	13.0	42
14	0900	14	34	.284	.220	757	91	7.8	6.4	158	24.5	22.5	28
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	(MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
29 FEB	12.2	2.46	2.92	14.0	13	21.9	E.1	8.7	25.7	110	97	.260	.58
08 MAY	13.7	2.73	3.31	78.1	8	139	<.2	6.1	23.8	290	273	.130	.28
01 AUG	12.3	2.71	2.63	28.8	10	48.1	<.2	7.1	25.1	149	135	.070	.21
14	8.23	1.74	2.77	15.2	6	23.6	<.2	5.1	21.6	87	84	.080	.41
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
29 FEB	.28	. 67	.191	<.003	.77	.86	.132	<.050	<.060	1.8	<.1	4.1	1.8
08 MAY	.12	.35	.385	.004	.66	.74	.101	.004	.023	1.5	<.1	3.7	1.5
01 AUG	.08	.26	.413	<.003	.62	.68	.124	E.002	.018	1.1	<.1	3.0	1.1
14	.09	.63	.436	.004	.85	1.1	.172	.016	.071	1.7	<.1	6.7	1.7

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
29	E1.5		39	5
FEB				
08	<1.0		17	8
MAY				
01	E1.7	9.60	25	10
AUG				
14	E1.4	10.9	34	6

E Estimated value.

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

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SHARK RIVER BASIN

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	0905	230	200	350	23	0930	700	900	210
09	0910	170	200	270	30	0910	230	400	70

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ

LOCATION.--Lat 40°08'36", long 74°03'14", Mommouth County, Hydrologic Unit 02030104, at bridge on Old Mill Road, 650 ft upstream from mouth, and 1.0 mi southwest of Spring Lake Heights.

DRAINAGE AREA. -- 3.13 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

REMARK.--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 sample for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-	OUAL TTY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
14	1000		.139	.111	761	88	9.6	6.5	148		11.5	33	7.83
FEB 01	1000		.129	.103	763	89	11.4	7.3	227	5.0	5.0	34	8.36
MAY	1000	-	.129	.103	763	89	11.4	7.3	221	5.0	5.0	34	0.30
17 AUG	1000	1.9	.091	.072	765	89	9.3	6.8	180	18.0	13.5	36	8.72
14	0900	17	.345	.269	760	83	7.3	6.1	130	23.5	21.5	24	5.81
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
14 FEB	3.27	2.53	11.1	13	18.6	<.2	7.1	15.1	81	79	.080	.28	.07
01 MAY	3.24	2.44	24.4	11	41.9	<.2	5.9	15.2	113	115	.100	.18	.14
AUG	3.54	2.09	15.9	12	28.4	<.2	5.6	16.0	121	94	.050	.24	.05
14	2.28	2.55	13.2	9	21.1	<.2	4.7	11.5	76	69	.060	.42	.06
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
14 FEB	.26	1.26	<.003	1.5	1.5	.033	.007	.014	.5	<.1	3.2	.5	E1.3
01 MAY	.30	1.59	<.003	1.8	1.9	.080	.006	.020	.6	<.1	3.0	.6	E1.3
17 AUG	.34	1.40	.004	1.6	1.7	.067	.006	.021	. 6	<.1	2.1	.6	E1.0
14	.59	.537	<.003	.95	1.1	.104	.020	.067	1.3	<.1	8.7	1.3	E1.2

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
14		17	4
FEB			
01		E11	<1
MAY			
17	3.00	23	<1
AUG			
14	5.70	24	5

E Estimated value.

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

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

DATE	TIME	SAME		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)
14 14 14	0800 0900 0900	FIELD BI ENVIRONI BED MATE	ENTAL	 6.85	70		100	 42	 <.2	<2 	33.7	.13	23
DATE	CADMIUM WATER UNFLITED 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)	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)
14 14 14	.23	<1 	<.2 	3.8	1050	<.08	3	40	<.01 	.03	<.06 	 2 	<.4
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG 14 14	 <.05	<1 	36 	 <1	 .1	2.4	 .4	 2	 1100	 190	10	 <.01	 .9
DATE	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)	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 14 14	 <1	 8	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 70	 80	 70	 60
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)	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)
14 14 14	70	 100	 <50	 180	 60	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <5
	DA	TE	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. FALL DIAM. % FINER THAN .004 MM (80157)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)			
	1	4	 <50	 <50	100	 <50	 <50	 130	 <1	 1 1			

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

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
01	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 01	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.5
	Dž	ATE	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)		
	FEE			4 00	. 10	. 10		. 10	. 10	. 20			
)1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITD 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)
MAY 17	1000	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003	E.005	.026
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 17	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.011
			DF	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	t 17	.023	<.016	<.034	<.005	<.009				

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

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

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

		COLI-		ENTERO-			COLI-		ENTERO-
		FORM,	E COLI,	COCCI,			FORM,	E COLI,	COCCI,
		FECAL,	MTEC MF	ME MF,			FECAL,	MTEC MF	ME MF,
		EC	WATER	WATER			EC	WATER	WATER
DATE	TIME	BROTH	(COL/	(COL/	DATE	TIME	BROTH	(COL/	(COL/
		(MPN)	100 ML)	100 ML)			(MPN)	100 ML)	100 ML)
		(31615)	(31633)	(31649)			(31615)	(31633)	(31649)
AUG					AUG				
02	0950	260	300	370	23	1000	110	<100	70
09	0930	490	200	600	30	0940	330	300	520

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

MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, NJ

LOCATION.--Lat 40°09'41", Long 74°09'18", revised, Monmouth County, Hydrologic Unit 02040301, 50 ft upstream from northbound bridge on County Highway 547 (Squankum Park Road) in Squankum, and 0.4 mi downstream from Marsh Bog Brook.

DRAINAGE AREA. -- 44.0 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-OUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST.	TUR- BID- ITY	UV ABSORB- ANCE	UV ABSORB- ANCE	BARO- METRIC PRES-	OXYGEN, DIS- SOLVED		PH WATER WHOLE	SPE- CIFIC			HARD- NESS
		CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-	TEMPER-	TEMPER-	TOTAL
		FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-	ATURE	ATURE	(MG/L
DATE	TIME	PER	UNFLTRD	(UNITS	(UNITS	OF	SATUR-	SOLVED	ARD	ANCE	AIR	WATER	AS
		SECOND	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)	(DEG C)	(DEG C)	CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
NOV													
15	1000	51		.108	.086	761	80	9.4	7.0	188		8.5	58
FEB	2000	31		.100	.000	701	00		7.0	200		0.0	
28	0900	70		.043	.034	764	85	10.6	7.2	295	1.0	6.0	66
MAY													
16	1000	33	7.3	.048	.039	762	91	9.6	7.5	240	20.0	13.0	81
AUG			4						-				
15	0900	28	9.4	.105	.081	762	88	8.0	7.4	206	23.0	20.0	68
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
		MAGNE-	POTAS-		UNFLIRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
15	18.8	2.76	3.41	8.0	27	18.8	.2	14.9	26.1	118	110	<.030	.18
FEB										166	165	.030	.12
28 MAY	20.8	3.40	2.59	27.2	21	49.6	E.1	14.2	32.5	100	165	.030	.12
16	26.8	3.40	2.75	10.6	39	23.6	.2	14.1	31.7	151	138	<.030	.17
AUG	20.0	3.40	2.75	10.0	33	23.0			31.7	131	230	1.050	
15	22.8	2.60	3.08	8.9	38	17.4	E.1	12.8	26.7	124	119	<.030	.24
		NITRO-	NITRO-	NITRO-						CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
15	<.03	.22	.300	<.003	.48	.52	.088	.004	.063	1.0	<.1	3.4	1.0
FEB						100							
28	.04	.10	.578	<.003	.70	. 67	.040	E.002	.034	.5	<.1	1.4	.5
MAY	10.162			4.54					1250			2.2	
16	<.03	.48	.333	<.003	.50	.82	.076	E.002	.031	.5	<.1	1.4	.5
AUG 15	<.03	.26	.310	<.003	.55	.57	.048	.011	.065	.6	<.1	2.9	.6

E Estimated value.

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

MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	2.8		26	8
FEB				
28	<1.0		19	5
MAY				
16	E1.3	8.80	25	5
AUG				
15	<1.0	7.80	30	10

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	0945	230	<100	150	23	0900	790	300	280
09	0920	490	100	530	30	0937	2200	<100	310

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

MANASQUAN RIVER BASIN

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

LOCATION.--Lat $40^{\circ}12^{\circ}45^{\circ}$, long $74^{\circ}10^{\circ}07^{\circ}$, Mommouth 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 mi2.

PERIOD OF RECORD .-- Water years 1971-74, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 12.

	WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
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		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER- ATURE	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
14 FEB	1310	3.0	7.7	.436	.364	752	75	8.4	6.6	128	77	10.0	33
08 MAY	1300	10		.171	.137	772	83	11.5	6.0	102	4.0	2.5	21
01 AUG	1020	4.5		.305	.258	764	79	8.4	6.4	125	26.5	13.0	33
13	1140	2.5	59	.249	.205	760	76	7.0	6.2	127	27.0	19.5	38
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	SOLVED (MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
14 FEB	10.6	1.52	1.94	5.6	12	11.8	<.2	15.8	17.6	86	72	<.030	.14
08 MAY	6.09	1.38	1.28	6.2	4	11.3	E.1	9.7	16.4	70	55	.050	E.09
01	10.4	1.60	1.90	6.5	10	12.0	E.1	14.0	19.8	84	72	.030	.14
13	12.7	1.50	1.77	5.4	20	10.5	<.2	16.7	16.4	93	78	.060	.20
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L AS N) (00610)	TOTAL (MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	TOTAL (MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	(MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
NOV													
14 FEB	<.03	.26	.040	<.003	.18	.30	.382	.012	.097	12	<.1	3.9	12
08 MAY	.03	.13	.055	<.003		.19	.054	.005	.032	.8	<.1	3.6	.8
01 AUG	<.03	.22	E.019	<.003			.950	.004	.042	15	<.1	2.9	15
13	.09	.32	.043	<.003	.24	.36	.137	E.002	.065	3.1	<.1	3.5	3.1

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOA				
14	<1.0		16	30
FEB				
08	2.2		E13	3
MAY				
01	E1.4	1.10	15	31
AUG				
13	E1.6	1.10	24	21

E Estimated value.

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

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MANASQUAN RIVER BASIN

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	1015	220	200	50	23	1035	790	500	100
09	0950	340	100	190	30	1000	330	300	120

METEDECONK RIVER BASIN

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 mi2.

PERIOD OF RECORD .-- Water years 1959-63, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 200	WATER-	OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	200
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
14 FEB	1010	19		.288	.227	755	80	9.0	6.5	124	11.5	10.0	28
07 MAY	0900	68		.318	.246	766	86	11.9	6.3	342	4.5	2.0	27
01	1300	20		.240	.189	765	102	10.1	7.1	161	33.0	16.0	32
AUG 14	1140	33	9.6	.297	.232	757	66	5.7	6.6	128	30.0	22.5	27
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
14 FEB	8.41	1.59	2.23	9.3	11	17.2	<.2	10	12.2	81	69	<.030	.28
07 MAY	8.20	1.56	1.71	50.3	5	87.2	<.2	5.6	11.3	192	170	.070	.23
01 AUG	9.82	1.85	2.32	15.9	13	28.8	<.2	5.6	13.5	102	89	<.030	.22
14	8.29	1.51	2.13	10.9	10	17.9	<.2	6.7	14.9	79	70	.030	.33
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
14 FEB	<.03	.62	.253	<.003	.53	.87	.052	.014	.058	1.2	<.1	6.3	1.2
07 MAY	<.03	.33	.303	<.003	.53	.63	.056	.010	.024	.6	<.1	7.5	.5
01 AUG	<.03	.32	.646	<.003	.86	.96	.069	.012	.042	.8	<.1	4.7	.8
14	.08	.46	.416	<.003	.75	.87	.075	.016	.055	.9	<.1	7.0	.9

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
14	<1.0		17	12
FEB				
07	<1.0		E13	6
MAY				
01	E1.8	5.40	24	9
AUG				
14	<1.0	2.00	28	<1

E Estimated value.

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

METEDECONK RIVER BASIN

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY 23	0730	5400	4500	2800	JUN 06	0830	790	100	380
30	0830	330	300	280	13 19	0815 0810	460 2200	<100 1400	260 530

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

01408300 TOMS RIVER AT WHITESVILLE, NJ

LOCATION.--Lat 40°03'42", long 74°16'29", Ocean County, Hydrologic Unit 02040301, at bridge on South Hope Chapel Road, 0.5 mi south of Whitesville, 0.6 mi downstream of Dove Mill Lake, and 3.7 mi southwest of Lakewood.

DRAINAGE AREA .-- 45.2 mi2.

PERIOD OF RECORD. -- December 2000 to September 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

****		2.22 mans			2000	mo	annum men	2001
WATER-QUALITY	DATA,	WATER	YEAR	OCTOBER	2000	10	SEPTEMBER	200T

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC													
13	0900		.220	.173	778	89	12.3	5.8	95	-4.0	3.0	16	4.08
FEB													
08	0900		.412	.321	775	86	12.1	5.5	117	3.0	2.0	13	3.32
MAY 23	0900	7.8	.403	.319	758	82	8.3	5.8	101	14.0	14.5	15	3.96
SEP	0300	7.0	.405	.319	756	02	0.3	3.0	101	14.0	14.5	13	3.50
13	0900	3.8	.173	.138	764	80	7.9	6.3	105	20.5	16.0	19	5.11
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
DEC													
13 FEB	1.29	2.01	8.2	4	14.1	<.2	6.7	9.6	62	50	.050	.18	.04
08	1.16	1.06	12.1	<1	20.6	<.2	4.8	9.4	76		.120	.22	.05
MAY 23	1.19	1.51	10.6	4	18.0	<.2	4.7	9.0	80	52	.040	.40	.03
SEP	1.13	1.31	10.0		10.0	1.2	*.,	3.0	80	32	.040	.40	.03
13	1.49	1.85	10.2	7	18.0	<.2	6.5	8.3	63	58	<.030	.23	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
13 FEB	.30	.460	<.003	.64	.76	.121	.010	.018	.9	<.1	5.0	.9	E1.9
08	.25	.245	<.003	.47	.49	.090	.006	.021	1.1	<.1	9.2	1.1	E1.9
23	.67	.277	<.003	. 67	.94	.151	.015	.061	2.0	<.1	8.1	2.0	2.2
SEP	25	420	4 003	67	60		014	021	•	. 1	2 5		P1 0
13	.25	.438	<.003	. 67	. 69	<,022	.014	.031	.6	<.1	3.5	.6	E1.9

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
DEC			
13		17	<1
FEB			
08		E10	1
MAY			
23	6.30	13	13
SEP			
13	.800	15	4

E Estimated value.

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

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
13 13	0900 0900	6.00	30	.5	 110	1.2	<.2	<2	35.9	E.04	16 	.06	<1
DATE	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- ERARLE (UG/L AS AG) (01077)	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)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)
SEP 13 13	E.4	610	<1 	19	<.01 	1	<.4	<.05	5	<1	<.03	2.1	.2
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
13 13	 <2	1400	3.3	6.9	 <.01	.9	 <1	 6	 <50	 <50	 <50	 <50	 <50
DATE	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)	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)
SEP 13 13	 <50	 <50	м	 <50	м	м	м		 <50	м	 E10	 <50	 <50
DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/RG) (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- 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 13 13	 <50	 <50	 <50	 <50	 <50	 <5	 <50	 <50	 <50	 <50	 <50		 <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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 08	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

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

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB					5.42	17.2			132		5 5 2 5	3.42	
08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	D.A	ATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)		
	FEE 0	3)8	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 23	0900	E3.63	E.016	<.005	13.2	<.010	E.053	<.020	<.005	<.018	<.003	E.401	E.004
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLITED 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLITED 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY 23	<.005	<.007	E.002	<.050	<.027	<.050	2.23	.007	<.002	<.007	<.005	<.010	E.123
			DA	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	3	3.99	<.016	<.034	<.005	<.009				

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

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0750	9200	3000	1900	06	0850	110	<100	40
30	0900	330	300	100	13	0830	50	<100	220
					19	0825	3500	<100	250

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

01408500 TOMS RIVER NEAR TOMS RIVER, NJ

LOCATION.--Lat 39°59'11", long 74°13'25", revised, Ocean County, Hydrologic Unit 02040301, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER.	-OTTAT.TOW	DATE	WATED	VEAD	OCHOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
DEC													
14	0800	151		.197	.156	764	92	11.8	5.9	89	8.0	5.0	12
27 MAY	0900	236		.273	.212	768	91	11.7	5.4	90	6.0	5.0	11
31 AUG	0900	149	3.9	.302	.241	763	85	8.6	6.0	91	14.0	15.0	13
16	0900	139	3.5	.376	.302	765	80	7.2	5.9	93	23.5	21.0	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
14 FEB	2.79	1.34	1.34	9.3	3	11.3	<.2	5.7	10.6	54	47	.270	.42
27 MAY	2.71	1.15	1.08	9.5	2	13.7	<.2	4.5	9.6	54	46	.170	.31
31 AUG	2.84	1.34	1.18	10.2	3	13.9	<.2	4.7	9.1	85	48	.190	.48
16	2.99	1.42	1.59	10.0	3	13.7	<.2	5.3	9.8	60	50	.140	.62
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
DEC													
14 FEB	.24	.51	.625	<.003	1.0	1.1	.173	.006	.020	2.0	<.1	4.7	1.9
27 MAY	.15	.41	.472	<.003	.78	.89	.050	.005	.013	.7	<.1	5.7	.7
31 AUG	.21	.53	.581	.003	1.1	1.1	.117	.012	.030	1.6	<.1	5.2	1.6
16	.70	. 57	.630	.009	1.3	1.2	.114	.013	.029	1.2	<.1	6.3	1.2

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
DEC					
14	<1.0		18	7	
FEB					
27	E1.1		16	3	
MAY					
31	E1.8	1.80	15	6	
AUG					
16	E1.9	1.50	17	2	

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0820	3500	480	700	06	0915	40	100	50
30	0925	330	100	40	13	0850	170	<100	190
					19	0855	2400	<100	450

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

264 Toms river basin

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ

LOCATION.--Lat 39°54'55", long 74°16'26", Ocean County, Hydrologic Unit 02040301, at bridge on Dover Road, 4.7 mi upstream of mouth, 3.0 mi northwest of Double Trouble, and 69 mi southeast of Whiting.

DRAINAGE AREA .-- 0.25 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 13.

				TUR-	υv	υv	BARO-	OXYGEN,		PH			
				BID- ITY	ABSORB-	ABSORB- ANCE	METRIC PRES-	DIS- SOLVED		WATER WHOLE	SPE- CIFIC		
		SAME		FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-	TEMPER-	TEMPER-
DATE	TIME	TY		WATER	WTR FLT (UNITS	WTR FLT (UNITS	(MM OF	CENT SATUR-	DIS- SOLVED	(STAND-	DUCT-	ATURE	ATURE WATER
			_	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)	(DEG C)	(DEG C)
				(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)
NOV													
20 FEB	1000	ENVIRON	ENTAL		.563	.441	761	44	5.5	3.8	61		6.0
21	1000	ENVIRON	ENTAL		.688	.537	760	51	6.4	4.1	77	8.5	5.5
17	1100	ENVIRONM	ENTAL	.7	.480	.382	760	19	2.0	3.7	47	15.3	12.5
AUG 07	1000	ENVIRON	ENTAL	.6	.239	.194	760	21	2.0	4.1	40	24.0	17.5
	HARD-		MAGNE-	POTAS-		CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	NITRO- GEN,	NITRO- GEN, AM-	NITRO-
	NESS	CALCIUM	SIUM,	SIUM,	SODIUM,	RIDE,	RIDE,	DIS-	SULFATE	AT 180	AMMONIA	MONIA +	GEN,
	TOTAL	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	SOLVED	DIS-	DEG. C	DIS-	ORGANIC	AMMONIA
	(MG/L	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL
DATE	AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	SOLVED	(MG/L	(MG/L	(MG/L
	CACO3)	AS CA)	AS MG)	AS K)	AS NA)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	AS N)	AS N)	AS N)
	(00900)	(00915)	(00925)	(00935)	(00930)	(00940)	(00950)	(00955)	(00945)	(70300)	(00608)	(00623)	(00610)
NOV			200				34						
20 FEB	2	.26	.376	.12	3.9	6.6	<.2	4.9	4.0	35	<.030	.23	<.03
21	3	.36	.421	E.08	3.8	6.2	<.2	3.6	6.0	40	<.030	.21	.03
MAY													
AUG	1	.16	. 237	.10	3.0	6.0	<.2	4.8	2.6	36	<.030	.13	<.03
07	1	.11	.195	.15	2.9	5.1	<.2	5.9	2.4	17	.030	.11	.05
	NITRO-	NITRO-	NITRO-	NITRO-			CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-	
	GEN, AM-	GEN,	GEN,	GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A	
	MONIA +	NO2+NO3	NITRITE	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,
	ORGANIC	DIS-	DIS-	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-
Control of the Contro	TOTAL	SOLVED	SOLVED	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD	SOLVED
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY	CORR.	(UG/L
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)	(UG/L) (32209)	AS B) (01020)
NOV													
20	.29	<.037	<.003	<.022	E.003	E.002	.3	<.1	11	.3	<1.0		E9
FEB													
MAY	.24	<.037	<.003	<.022	E.003	.004	.5	<.1	14	.5	<1.0		<13
AUG	.17	<.037	<.003	.033	.004	.008	.4	<.1	8.2	.4	<1.0	.700	E8
07	.12	<.037	<.003	.042	<.004	<.004	<.1	<.1	3.8	<.1	<1.0	.100	E7

E Estimated value.

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

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

RESIDUE RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) DATE NOV 20... <1 FEB 21... 1 21... MAY 17... AUG 07... <1 1

DATE	TIME	SAME TYP		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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
AUG 07 <i>07</i>	1000 1000	ENVIROND FIELD BI		<2	2.9	<.06	E7	<.04	<1	<.2	2.5	240	<.08
	DATE	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 07 <i>07</i>	<1 	E2 	<.01	<.01 	 <.06	<1 	2.7	<.05 	<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 UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 21	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 21	<.10	<.2	.30	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	FEI	ATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITRD 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)		
	7	Y E E I 1		27.75					11.00	47.44			

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

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLIRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITD 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)
MAY													
17	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 17	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	7	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0845	20	<100	<10	06	1010	<20	<100	<10
30	1015	<20	<100	<10	13	1000	<20	<100	10
					19	1015	220	<100	10

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

CEDAR CREEK RIVER BASIN

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 mi2.

PERIOD OF RECORD .-- Water years 1977-78, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 13.

WATER-OUALITY	DATE	WATER	VEAD	CALCUELE	2000	TO	CEDTEMBER	2001
MATER-COMPTIT	DAIA,	WAILK	ILAR	OCTOBER	2000	10	SELIENDEY	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
02 FEB	1000	30		.109	.088	760	98	11.3	4.9	26	8.9	9.0	4
07 MAY	1210	57		.334	.265	767	95	12.2	4.5	37	10.0	5.0	4
09	1100	45	1.6	.163	.131	767	94	9.1	4.8	28	18.0	17.5	3
15	0950	47	.8	.296	.234	761	97	8.3	4.9	29	25.5	23.0	4
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
22.000	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	AS CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
02 FEB	.73	.490	.31	2.4	2	4.0	<.2	5.6	2.5	22	17	<.030	<.10
07 MAY	.69	.476	.37	2.2		3.6	<.2	4.5	4.4	27		.030	.16
09	.54	.345	.26	2.4	<1	4.2	<.2	2.5	2.5	28		<.030	.11
15	.76	.488	.35	2.5	1	4.0	<.2	5.5	2.7	29	17	<.030	.21
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,	CHLORO- PHYLL A
	GEN, AMMONIA	MONIA + ORGANIC	NO2+NO3 DIS-	NITRITE DIS-	TICULTE WAT FLT	PHORUS DIS-	PHOS- PHORUS	ORGANIC PARTIC.	GANIC, PARTIC.	ORGANIC DIS-	PARTIC- ULATE	BIO- CHEM-	FLUORO- METRIC
D	TOTAL	TOTAL	SOLVED	SOLVED	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	5 DAY (MG/L)	CORR. (UG/L)
	(00610)	(00625)	(00631)	(00613)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)
NOV													
02 FEB	.04	E.07	<.037	<.003	<.022	<.004	<.004	.2	<.1	2.3	.2	2.4	
07 MAY	.04	.21	E.019	.007	<.022	E.002	E.003	.2	<.1	6.6	.2	2.5	
09	<.03	.14	<.037	<.003	.031	<.004	E.003	.4	<.1	3.4	.4	2.3	1.10
15	<.03	.17	<.037	<.003	<.022	E.003	E.004	.3	<.1	6.5	.3	<1.0	1.00

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	DEG. C, SUS- PENDED (MG/L)
NOV		
02	E8	6
FEB		
07	E10	4
MAY		
09	E8	<1
AUG		
15	E8	10

E Estimated value

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

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CEDAR CREEK RIVER BASIN

01408830 CEDAR CREEK AT CEDAR CREST, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0915	<20	<100	10	06	0945	<20	<100	10
30	0955	<20	<100	10	13	0920	<20	<100	40
2201	100.00	11,512		7.7	19	0925	700	100	30

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

MULLICA RIVER BASIN 269 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 mi2.

PERIOD OF RECORD. -- Water years 1977-78, 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	1115	.44		760	95	11.0	6.9	101	10.0	9.0	17	3.92	1.79
22 JUN	1220	2.5		770	92	12.5	7.0	206	1.0	3.0	23	5.79	2.01
07 SEP	1040	1.1	1.8	757	95	8.1	6.9	146	24.5	23.0	21	5.13	1.92
18	0900	.23		758	84	7.6		121	26.0	20.0	15	2.64	1.96
	נִּם	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
	NOT (FEI	06	17.8	8.6	66	<.049	.35	.128	.48	<.018	.007		
		22	43.5	8.8	112	<.049	.30	.464	.77	<.018	.008		
		07	28.2	7.8	90	E.034	.44	.258	.70	<.020	.017		
		18	25.2	10.8	74	.088	.42	.105	.52	<.020	.014		

E Estimated value.

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

MULLICA RIVER BASIN

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2003	WATER-OU	ALITY DATA	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
NOV													
28	1240	32		.175	.137	761	95	11.4	4.8	35	15.0	7.5	5
FEB					.137	701	33			33	25.0		-
07	0940	104		.256	.195	765	89	12.0	4.3	52	6.5	3.0	5
MAY	4400												
07	1120	30	2.4	.330	.255	775	94	8.9	5.5	45	16.0	19.0	5
15	1330	12	10	.502	.394	760	77	6.3	5.3	35	27.0	25.0	5
		•											
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
	CALCIUM	MAGNE- SIUM,	POTAS-	CODTING	UNFLIRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-
	DIS-	DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI-	AMMONIA DIS-	MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
28	1.01	.546	. 64	2.5	1	4.9	<.2	5.6	4.0	29	21	<.030	.14
FEB	2.22							2.0		3.0		10.000	
07 MAY	1.11	.583	.66	3.0		5.3	<.2	4.0	6.5	31		<.030	.26
07	1.17	.561	.73	3.3	<1	6.2	<.2	2.8	4.8	23		<.030	.18
AUG	/	.502	.,,	3.3		0.2		2.0	4.0	43		1.050	
15	1.19	.598	.63	2.7	2	4.3	<.2	4.4	4.4	34	20	.120	.39
		NITRO-	NTMPO	NTMDO			NTMDO			CARRON	CARRON		CARRON
	NITRO-	GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICUL/TE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
28	.03	.17	.143	<.003	.28	.31	.026	E.003	.007	.7	<.1	3.7	.7
FEB													
07 MAY	<.03	.23	.105	<.003	.36	.33	<.022	E.003	.005	.4	<.1	6.2	.4
07 AUG	<.03	.29	.066	<.003	.24	.36	.184	<.004	.011	E2.2	<.1	6.3	E2.2
15	.10	.56	.050	<.003	.44	.61	.276	E.002	.022	6.4	<.1	8.5	6.4

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 28	E1.3		14	3
07 MAY	E1.1		17	2
07 AUG	E1.7	4.80	13	5
15	<1.0	2.80	E12	11

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--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	1023	<20	<100	<10	JUL 09 30	0932 1040	20 120	<100 <100	20 20

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

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ

LOCATION.--Lat 39°39'33", long 74°39'33", Burlington County, Hydrologic Unit 02040301, at Constable Bridge, 1.1 mi upstream of Sleeper Branch, and 1.3 mi north of Batsto.

DRAINAGE AREA. -- 47.0 mi2.

PERIOD OF RECORD. -- Water Years 1997 to 1998 and November 2000 to September 2001.

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, total suspended solids, fecal coliform,

E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and

Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by
the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

********					2000	mo	GEDMEN (DED	2001
WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	10	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER- ATURE	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
29 FEB	1100		.372	.295	766	81	10.3	5.3	48	9.5	5.5	7	1.57
21 JUN	1045		.261	.200	764	83	10.4	4.8	53	10.0	6.0	7	1.50
05 SEP	1030	3.9	.353	.274	762	84	7.6	5.1	48	22.0	20.0	6	1.32
05	1100	8.4	.262	.205	764	79	7.0	5.5	40	25.5	21.5	6	1.30
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L	TOTAL (MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
29 FEB	.861	1.00	4.0	1	6.0	<.2	5.8	5.4	43	26	E.030	.20	<.03
JUN JUN	.798	. 63	4.0	<1	6.9	<.2	4.0	6.7	35		.030	.14	.03
05 SEP	.743	. 69	4.7	2	7.9	<.2	3.6	3.8	39	24	.030	.24	.03
05	.765	. 64	3.6	2	6.1	<.2	4.8	4.6	40	23	<.030	E.26	.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
29 FEB	.26	.109	<.003	.31	.37	.078	E.003	.007	1.4	<.1	7.4	1.4	E1.6
21 JUN	.21	.110	<.003	.25	.32	.042	E.002	.005	.8	<.1	5.7	.8	<1.0
05 SEP	.42	.041	<.003	.28	.46	.225	E.003	.014	3.9	<.1	7.5	3.9	<1.0
05	.47	E.054	<.003			.319	E.002	.015	6.6	<.1	4.9	6.6	<1.0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
29		14	<1
FEB			
21		16	5
JUN			
05	2.40	14	11
SEP			
05	3.30	E10	18

E Estimated value.

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

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
SEP 05	1100	м	15.2	<.06	13	E.02	<1	.7	5680	1	14	<.01	<1
				D#	ATE	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)					
					5	<.4	<.05	4					
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 21	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 21	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	D.A	ATE	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)		
	FEE 2	11	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITRD 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)
JUN 05	1030	<.004	<.002	<.005	E.004	<.010	<.041	<.020	.025	<.018	<.003	E.002	<.005

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

MULLICA RIVER BASIN

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLIRD 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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 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)
JUN													
05	<.005	<.002	<.004	<.035	<.027	E.009	E.005	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			JUN	I 5	E.004	<.016	E.065	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 30	1010	<20	<100	<10
50	1010	120	1100	110

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

275 MULLICA RIVER BASIN 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 mi².

PERIOD OF RECORD. -- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	1030	1.6	==	760	82	9.3	6.8	105	10.0	9.5	20	4.10	2.31
22 JUN	1030	3.7		770	90	11.9	6.9	190	-2.0	4.0	27	6.33	2.74
07 SEP	1010	2.8	4.4	757	73	6.3	6.6	131	23.5	22.0	25	5.71	2.57
18	1000	1.9		758	74	6.9		105	26.5	18.5	21	4.08	2.60
	D	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
	NO			75.00					22				
	FE	06 В	19.0	6.2	61	<.049	.74	.158	.89	<.018	.027		
		22	37.5	8.7	103	<.049	1.6	1.26	2.8	<.018	.176		
		07	23.1	6.9	84	E.037	.52	.426	.95	<.020	.024		
		18	19.6	6.5	62	E.035	.36	.108	.47	<.020	.010		

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

MULLICA RIVER BASIN

0140940200 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 mi2.

PERIOD OF RECORD .-- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	1240	5.9		760	85	9.6	6.4	94	13.0	10.0	16	3.44	1.81
22 JUN	1130	11		770	91	11.9	6.4	134	-2.0	4.5	19	4.23	1.95
07 SEP	1150	9.1	2.0	758	86	8.4	6.6	112	25.5	16.5	18	4.18	1.95
18	1100	4.3		758	94	9.6		94	26.5	14.0	17	3.49	1.90
	גם. גם	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
	NO	06	15.6	5.2	57	<.049	.16	1.15	1.3	<.018	.006		
		22	23.4	7.1	80	E.040	.24	1.45	1.7	<.018	.006		
		07	18.7	5.3	69	E.034	.26	1.13	1.4	<.020	.013		
		18	16.5	4.6	53	<.050	.14	1.10	1.2	<.020	.007		

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

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 mi2.

PERIOD OF RECORD. -- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

		DIS-	TUR-	BARO-	OXYGEN,		PH						
DATE	TIME	CHARGE, INST. CUBIC FEET PER SECOND (00061)	BID- ITY FIELD WATER UNFL/TRD (NTU) (61028)	METRIC PRES- SURE (MM OF HG) (00025)	DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
24.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(00000)	(00000)	(0000-)	(00000)	(00200)	(00055)	(00000)	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************
NOV 06 FEB	1400	12		758	89	10.2	6.4	66	15.5	9.0	11	2.23	1.35
22 JUN	1220	23		771	87	11.5	4.7	75	-3.5	4.0	11	2.37	1.27
07 SEP	0920	16	3.1	760	86	8.4	6.5	68	21.0	16.5	12	2.45	1.41
18	0940	9.1		761	91	9.7	6.7	74	19.5	12.5	12	2.48	1.52
	ו מ	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
		06	10.3	3.8	41	<.049	.14	.702	.84	<.018	.005		
	FEI JUI	22	13.1	5.8	56	<.049	.25	.784	1.0	<.018	.008		
		07	11.8	3.7	52	<.050	.27	.686	.96	<.020	.013		
		18	11.2	3.3	44	<.050	.12	.775	.90	<.020	.004		

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

MULLICA RIVER BASIN

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 mi2.

PERIOD OF RECORD. -- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	1300	.21		757	48	5.5	5.0	38	15.0	9.0	7	1.41	.779
22 JUN	1110	6.2		771	77	10.9	4.5	62	-3.0	1.5	12	2.47	1.40
07	1030	2.4	.6	760	54	5.3	4.9	48	22.0	16.0	8	1.61	.863
	נמ	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
		06	5.3	2.9	46	E.034	.56	<.037		<.018	.020		
	FEI JUI	22	7.6	10.0	48	<.049	.21	.140	.35	<.018	.005		
	(07	8.9	3.2	47	E.043	.34	E.026		<.020	.006		

E Estimated value.

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

279 MULLICA RIVER BASIN 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 mi2.

PERIOD OF RECORD. -- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	0915	2.7		760	63	7.3	6.2	79	9.0	9.0	16	2.84	2.28
22 JUN	0920	9.3		771	75	10.1	6.4	115	-2.0	3.5	18	3.25	2.30
07 SEP	0920	17	8.2	758	59	5.2	6.4	92	25.0	21.5	19	3.52	2.42
18	1130	5.0		758	56	5.2		78	27.0	18.5	16	2.61	2.32
	Da	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
	NO				No.	40.000		1.5.7		- 1 (Sale at	-2.572		
	FE:	06 B	13.3	3.0	49	E.026	.25	.654	.91	<.018	.010		
		22	20.2	3.9	67	E.030	.34	1.33	1.7	<.018	.015		
		07	14.6	2.9	56	.148	.61	.492	1.1	<.020	.032		
		18	14.0	2.2	49	E.028	.50	.155	.65	<.020	.015		

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

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 mi2.

PERIOD OF RECORD .-- Water years 1991 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

REMARKS.--Field data and samples for laboratory analyses on dates: Nov. 6, Feb. 22, Jun. 7, and Sept. 18, were collected as part of the New Jersey Pinelands Commission Network.

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.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLITED (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
06	0940	1.6				758	88	10.3	6.9	75	15.5	8.5	14
27	1050	5.2		.075	.060	750		11.3	6.9		11.5	7.5	13
FEB 20	0930	3.5		425	400								
22	0920	3.2		.135	.107	764 770	99 95	13.0	6.6 7.0	93 82	12.5	5.0	15 15
MAY	0320	5.2				770	33	12.3	7.0	02	-2.0	3.0	13
07	0920	2.9	1.7	.224	.179	773	93	8.7	7.4	82	15.5	19.5	15
JUN	1400	1.1	1.1										
07	1310	2.3	1.9			760	102	8.3	7.6	70	26.5	25.5	16
20	1040	1.5	2.6	.154	.120	755	89	6.9	6.9	70	31.0	28.0	12
SEP	1010	1.5	2.0	.134	.120	155	03	0.5	0.5	70	31.0	20.0	
18	1240	.65		==	7-	758	92	8.0	6.2	72	27.0	22.0	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 UNFLITED 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 06	2.96	1.58	42	-22		9.7			7.4	41		.087	
27	2.80	1.44	1.62	5.8	8	8.9	<.2	1.5	6.4	40	34	<.030	.18
FEB								-					
20	3.49	1.54	2.26	7.8	9	11.7	<.2	3.5	6.6	58	45	.040	.18
22 MAY	3.46	1.56				12.1			7.6	54		E.037	
07	3.32	1.73	1.83	6.9	14	11.5	<.2	1.9	5.6	52	41	.030	.34
JUN							11.7			1.5		1.54	
07 AUG	3.44	1.74		77		9.6			4.9	51		.058	
20 SEP	2.46	1.53	1.08	7.2	9	10.7	<.2	E.4	4.6	40	33	.030	.40
18	2.57	1.54				10.7	-		6.2	45		.139	
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)
NOV 06		22	.059			20			. 010	020	16.5	-	
27	<.03	.32	.247	<.003	.42	.38	.028	.006	<.018	.020	.3	<.1	2.0
FEB	4.05	.23	.447		. 44	.43	.020	.000		.010			2.0
20	.06	.25	.623	<.003	.80	. 87	.108	.007		.019	.8	<.1	2.7
22		.32	.530			.85			<.018	.024			
MAY 07	.04	.45	<.037	<.003			.066	.010		.021	E.5	<.1	4.9
JUN	.04	.45	1.03/	1.003	100	77	.000	.010		.021	E.5		4.9
07 AUG		.43	<.037					-	<.020	.024			
20 SEP	.04	.53	E.034	<.003			.130	.011		.033	.8	<.1	4.2
18		.48	E.021						<.020	.025			

E Estimated value.

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

0140940950 BLUE ANCHOR BROOK AT ELM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV		N. S. S.		36.04.315	4.000
06					77
27	.3	E1.5		14	3
FEB					
20	.8	E1.3		18	5
22					
MAY					
07	E.5	2.8	4.80	18	5
JUN	- 10		10.00	100	-
07		22.	1224	20	
AUG					
20	.8	E1.3	14.2	17	7
SEP	.0	E1.3	14.2	1/	,
18					

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
06	1115	<20	<100	<10	05	1140	<20	<100	10
20	0915	<20	<100	<10					
27	1115	<20	<100	<10					

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

MULLICA RIVER BASIN

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 mi2.

PERIOD OF RECORD .-- Water years 1991 to current year.

REMARKS.--Field data and samples for laboratory analyses were collected as part of the New Jersey Pinelands Commission Network. Site is in New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV													
06 FEB	1110	12		758	79	9.3	6.3	74	15.5	8.0	16	2.86	2.06
22 JUN	0950	20	-	771	84	11.3	6.4	88	-3.0	3.5	16	3.23	1.94
07 SEP	1150	20	1.3	760	83	7.6	6.6	76	24.0	19.5	17	3.38	2.11
18	1140	8.9		761	82	8.3	6.5	79	23.0	15.0	16	2.90	2.13
	ג ער	ATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)		
		06	10.7	5.7	43	E.024	.22	. 623	.84	<.018	.006		
	FEI JUI	22	14.3	6.2	59	E.026	.21	1.06	1.3	<.018	.006		
		07	11.8	4.3	51	.077	.28	.407	.69	<.020	.012		
		18	11.6	4.0	46	<.050	.23	.328	.56	<.020	.006		

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

01409416 HAMMONTON CREEK AT WESCOATVILLE, 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 mi2.

PERIOD OF RECORD .-- Water years 1974 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

REVISIONS. -- WDR NJ-83-1: Drainage area.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Mixed Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV	5												36
27 FEB	1120	34		.436	.350	752	65	7.3	5.8	102	13.0	9.5	21
08	1210	26		.132	.103	772	80	10.4	5.3	139	5.0	5.0	27
30 AUG	1150	16	4.0	.199	.159	760	72	7.0	6.4	124	24.0	16.5	22
20	1400	7.4	4.8	.156	.127	758	83	7.2	6.4	138	28.0	22.0	21
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
27 FEB	4.59	2.20	4.40	6.3	6	11.7	E.1	5.4	11.9	78	54	<.030	.43
08 MAY	6.31	2.66	3.94	9.9	6	18.1	E.1	5.6	14.2	82	75	.040	.26
30 AUG	5.10	2.26	3.79	9.9	12	16.9	E.1	6.1	10.8	76	67	.100	.47
20	4.98	2.00	4.31	14.5	18	19.9	E.1	7.9	10.3	82	77	<.030	.34
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 27	.04	.51	.942	<.003	1.4	1.5	.128	.107	.168	1.5	<.1	10	1.5
08 MAY	.04	.36	2.36	.006	2.6	2.7	.089	.016	.044	.8	<.1	3.8	.8
30	.12	1.0	1.07	.013	1.5	2.1	.055	.163	.255	.6	<.1	4.6	.6
20	<.03	.39	.596	<.003	.94	.99	.121	.137	.215	.9	<.1	4.0	.9

E Estimated value.

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

MULLICA RIVER BASIN

01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ--Continued

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
27	2.2		31	2	
FEB					
08	<1.0		29	2	
MAY					
30	E1.4	1.50	35	4	
AUG					
20	<1.0	10.0	57	6	

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

MULLICA RIVER BASIN 01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ--Continued

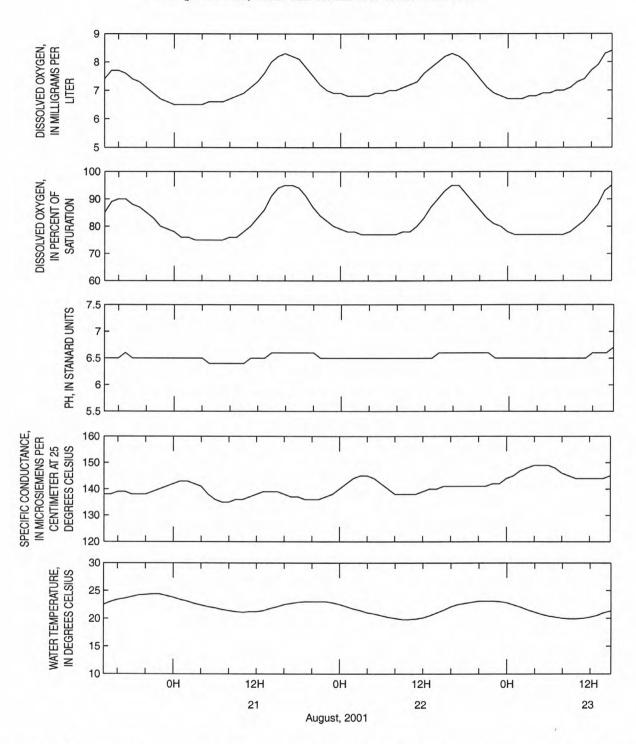


Figure 47. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01409416 Hammonton Creek at Wescoatville, water year 2001.

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ

LOCATION.--Lat 39°47'09", long 74°39'31", Burlington County, Hydrologic Unit 02040301, at bridge on Carranza Road, 0.2 mi upstream from confluence with Roberts Branch, 1.6 mi southeast of Hampton Gate, and 1.6 mi northeast of Hampton Furnace.

DRAINAGE AREA. -- 4.91 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 14.

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)
NOV													
21	1100	42	.071	.058	760	82	10.6	5.0	26		4.5	2	.32
FEB	1100		.071	.050	700	02	10.0	3.0	20			-	
06	1130	(2-)	.425	.326	761	86	11.6	4.2	51	7.0	3.0	2	.35
MAY													
16	1030	1.8	.134	.104	760	74	7.3	4.8	22	22.0	16.0	2	.29
AUG													
23	1100	2.6	.153	.120	761	62	5.5	5.0	19	31.0	21.0	2	.29
				ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-	
	MAGNE-	POTAS-		UNFLITED	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-	NITRO-
	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +	GEN,
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC	AMMONIA
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)	AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)
NOV	-124	14.2											
21 FEB	.252	.30	1.5	<1	2.8	<.2	5.4	3.1	13		.040	E.07	<.03
06 MAY	.227	E.18	2.0		3.5	<.2	3.5	5.3	33		.030	.16	.04
16	.221	.34	1.3	<1	2.9	<.2	5.1	2.3	19		<.030	E.10	<.03
23	.240	.44	1.5	1	3.6	<.2	5.1	1.7	25	14	<.030	.12	<.03
	NITRO-	NTMPO					a	G177011		ar nnow	CIEICEN	CHLORO-	
	GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,	PHYLL A	
	MONIA +	NO2+NO3	NITRITE	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,
	ORGANIC	DIS-	DIS-	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-
	TOTAL	SOLVED	SOLVED	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD	SOLVED
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY	CORR.	(UG/L
	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	AS B)
	(00625)	(00631)	(00613)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)
NOV													
21	.10	<.037	<.003	.072	<.004	<.004	.6	<.1	1.5	.6	<1.0		E12
FEB	4.4												
06	.16	<.037	.027	.044	E.003	.004	.6	<.1	9.6	.6	<1.2		<13
MAY	10	m 010						4				1 10	
16	.19	E.018	<.003	.141	<.004	.006	3.0	<.1	3.0	3.0	E1.5	1.40	<13
23	.28	E.026	<.003	.261	<.004	.008	5.3	<.1	3.0	5.3	<1.0	2.00	<13

	RESIDU
	TOTAL
	AT 105
	DEG. C
	SUS-
DATE	PENDED
73.22	(MG/L
	(00530
IOV	
21	<1
EB	
06	2
IAY	
16	6
UG	
23	16

E Estimated value.

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

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

March Marc			6	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		
MASSEMIC Name				ENE CHLO- RIDE TOTAL (UG/L)	PARA- XYLENE WATER UNFLTRD REC (UG/L)	XYLENE WATER WHOLE TOTAL (UG/L)	TOTAL (UG/L)	CHLORO- ETHYL- ENE TOTAL (UG/L)	TOTAL (UG/L)	CHLORO- ETHYL- ENE TOTAL (UG/L)	CHLORO- FLUORO- METHANE TOTAL (UG/L)	CHLO- RIDE TOTAL (UG/L)		
BARTUM, LTUM, BORON, CAMBRIUM MUM, COPPER, TOTAL TOTAL		<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
BARIUM		BENZENE TOTAL (UG/L)	DI- BROMO- METHANE TOTAL (UG/L)	FORM TOTAL (UG/L)	-DI- CHLORO- ETHENE WATER TOTAL (UG/L)	DI- CHLORO- METHANE TOTAL (UG/L)	CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L)	ETHYL WATER UNFLTRD RECOVER (UG/L)	TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L)	TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L)	BENZENE TOTAL (UG/L)	113 WATER UNFL/TRD REC (UG/L)	TERT- BUTYL ETHER WAT UNF REC (UG/L)
SARUM LOUIS SARUM LOUIS SORON CAMMIUM MIUM COPER TROIN LEAD, NESE, MERCURY NICKEL,		1130	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
BARIUM, LIUM, BORON, CADMIUM MIUM, COPPER, TRON, LEAD, NESE, MERCURY NICKEL, TOTAL T	DATE	TIME	TRI- CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHYL- ENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- PROPANE TOTAL (UG/L)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)	O-DI- CHLORO- WATER UNFLTRD REC (UG/L)	TOTAL (UG/L)	FORM TOTAL (UG/L)	TETRA- CHLO- RIDE TOTAL (UG/L)
BARIUM, LIUM, BORON, CADMIUM MIUM, COPPER, IRON, LEAD, NESE, MERCURY NICKEL,							<.4	<.05	4					
BARIUM, LIUM, BORON, CADMIUM MIUM, COPPER, IRON, LEAD, NESE, MERCURY NICKEL, TOTAL					ג כו	ATE	NIUM, TOTAL (UG/L AS SE)	TOTAL RECOV- ERABLE (UG/L AS AG)	TOTAL RECOV- ERABLE (UG/L AS ZN)					
BARIUM, LIUM, BORON, CADMIUM MIUM, COPPER, IRON, LEAD, NESE, MERCURY NICKEL, TOTAL TOT		1100	E1	11.9	<.06	8	E.03	<1	E.4	4970	<1	9	<.01	<1
	DATE	TIME	TOTAL (UG/L AS AS)	TOTAL RECOV- ERABLE (UG/L AS BA)	LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS B)	WATER UNFLTRD TOTAL (UG/L AS CD)	MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	TOTAL RECOV- ERABLE (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS PB)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS NI)

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 16	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.

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

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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)
MAY													
16	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	6	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	
JUL 02	0832	<20	<100	40	JUL 09	1044	<20	<100	10	
					30	0900	<20	<100	20	

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

01409500 BATSTO RIVER AT BATSTO, NJ

LOCATION.--Lat 39°38'33", long 74°39'00", Burlington County, Hydrologic Unit 02040301, at bridge on County Highway 542 at Batsto, and 1.0 mi upstream from mouth.

DRAINAGE AREA. -- 67.8 mi2.

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, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-OUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV 16	1100	79	42	.199	.157	764	86	10.2	5.8	49		8.0	10
FEB 22	1020	70		100	450			40.7			0.5	4.0	9
MAY	1030	70		.196	.150	774	80	10.7	4.9	52	-2.5	4.0	9
15 AUG	1030	86	3.7	.262	.208	758	81	8.1	5.7	37	25.0	15.0	7
29	1000	64	2.5	.090	.072	762	75	6.4	5.3	23	29.0	23.5	3
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
16 FEB	2.06	1.10	1.35	3.2	3	6.6	<.2	6.1	5.9	36	28	<.030	.15
22 MAY	2.02	1.07	.93	3.3	<1	6.4	<.2	4.3	8.1	36		.040	.11
15	1.45	.770	.70	3.0	3	5.3	<.2	3.2	3.6	33	20	<.030	.19
29	.62	.409	.47	1.9	2	3.2	<.2	4.7	2.6	24	15	<.030	E.07
		NITRO-	NITRO-	NITRO-			NITRO-	van k		CARBON,	CARBON,		CARBON,
	NITRO- GEN, AMMONIA TOTAL	GEN, AM- MONIA + ORGANIC TOTAL	GEN, NO2+NO3 DIS- SOLVED	GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	INORG + ORGANIC PARTIC. TOTAL	INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
16	<.03	.17	.096	<.003	.25	.26	.080	E.003	.004	1.1	<.1	4.3	1.1
FEB 22 MAY	.05	.20	.273	<.003	.39	.47	.048	.004	.011	.7	<.1	4.3	.7
15 AUG	<.03	.33	.042	<.003	.23	.37	.176	E.003	.022	2.7	<.1	4.4	2.7
29	<.03	.12	E.046	<.003			.092	<.004	.005	.9	<.1	2.0	.9

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	E1.5		E10	5
FEB				
22	<1.0		E11	4
MAY				
15	E1.8	2.60	E11	1
AUG				
29	<1.0	2.30	E10	6

E Estimated value.

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

MULLICA RIVER BASIN

01409500 BATSTO RIVER AT BATSTO, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	0950	<20	<100	<10	JUL 09 30	0941 1010	<20 <20	<100 <100	10 <10

< 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 County 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 mi2.

PERIOD OF RECORD. -- Water years 1976-93, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-	OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
28 FEB	0930	114		.299	.236	761	82	9.9	4.2	45	7.0	7.0	3
08 MAY	0930	351		.386	.300	773	86	11.7	3.7	48	3.5	3.0	3
30	0920	101	6.0	.301	.241	760	82	8.1	4.0	38	15.5	16.0	3
23	1130	53	6.2	.220	.179	762	94	8.5	3.9	38	30.5	20.5	3
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)	TOTAL (MG/L AS N) (00610)
NOV													
28 FEB	.62	.430	.93	2.3		4.2	<.2	6.1	5.9	30	<.030	.14	.04
08 MAY	.58	.359	.52	2.0		3.6	<.2	3.8	5.6	29	.100	.20	.12
30	.62	.378	. 84	2.1	<1	4.1	<.2	4.7	4.3	26	.030	.13	<.03
23	.63	.378	1.07	2.4	<1	4.1	<.2	5.9	6.2	30	<.030	E.09	.08
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,	CHLORO- PHYLL A FLUORO- METRIC METHOD	BORON, DIS- SOLVED
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)	CORR. (UG/L) (32209)	(UG/L AS B) (01020)
NOV													
28 FEB	.21	<.037	<.003	.082	.004	.017	1.7	<.1	5.9	1.7	E1.4	127	13
08 MAY	.19	<.037	<.003	.040	.018	.033	.6	<.1	8.4	.6	<1.0		E10
30 AUG	.30	<.037	<.003	.149	.008	.093	2.8	<.1	5.0	2.8	E1.1	1.60	<13
23	.23	E.026	<.003	.150	<.004	.050	2.1	<.1	3.2	2.1	<1.0	3.60	E10

	RESIDUE
	TOTAL
	AT 105
	DEG. C,
	SUS-
DATE	PENDED
	(MG/L)
	(00530)
VOV	
28	<1
FEB	
08	2
IAY	
30	12
AUG	
23	10

E Estimated value

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

MULLICA RIVER BASIN

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	0908	310	<100	50	JUL 09 30	1003 0954	20 <20	<100 <100	<10 40

< 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, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Management Area 14.

WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
28 FEB	1100	23	-	.350	.278	762	69	8.4	4.5	50		7.0	4
01 MAY	1000	22		.217	.172	764	79	10.3	4.4	47	9.0	4.5	3
30	1030	13	.5	.159	.126	760	68	6.9	4.5	38	19.0	14.5	3
28	1000	12	.7	.118	.094	759	66	6.2	4.6	34	28.0	18.0	2
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	SOLVED (MG/L AS K)	SOLVED (MG/L AS NA)	(MG/L AS CACO3)	SOLVED (MG/L AS CL)	SOLVED (MG/L AS F)	(MG/L AS SIO2)	SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L)	DIS- SOLVED (MG/L)	SOLVED (MG/L AS N)	DIS. (MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
28 FEB	.55	.629	. 54	3.3		5.0	<.2	6.8	5.8	39		.040	.15
01 MAY	.50	.538	.51	3.0	1	4.7	<.2	6.1	5.3	27	21	.040	<.10
30 AUG	.38	.428	.32	2.7	<1	5.0	<.2	6.4	3.2	23		.060	E.07
28	.34	.395	.48	2.6	<1	4.9	<.2	9.3	3.7	34		.060	.11
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,	CHLORO- PHYLL A FLUORO- METRIC METHOD
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)	CORR. (UG/L) (32209)
NOV													
28 FEB	<.03	.15	<.037	<.003	<.022	<.004	E.002	.3	<.1	7.5	.3	<1.2	
01 MAY	.03	.12	E.020	<.003	<.022	E.002	E.003	.3	<.1	4.5	.3	<1.0	
30	.03	.08	<.037	<.003	.027	E.003	<.004	.3	<.1	3.0	.3	<1.0	1.10
28	<.03	.10	E.026	<.003	.088	<.004	E.003	.6	<.1	2.3	.6	<1.0	.700

BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
14	<1
E12	<1
<13	1
<13	1
	DIS- SOLVED (UG/L AS B) (01020) 14 E12 <13

E Estimated value.

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

MULLICA RIVER BASIN

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	0927	<20	<100	20	JUL 09 30	1015 0940	<20 <20	<100 <100	10 10

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

GREAT EGG HARBOR RIVER BASIN

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Mangagement Area 15.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
1020			- C. C. C. C.	613055	500 300		4239765	32379703		is realize	Total and	- Tarres	
NOV 15	1220	1.6	22	.144	.115	756	83	9.5	6.0	60	10.0	9.0	15
FEB						,50	0.5	3.3	0.0				-
20	1230	4.6		.211	.166	764	87	10.9	6.0	67	18.0	6.0	15
MAY 09	1110	2.0	2.0	241	107	7.00		0.0	6.0	60	20.0	13.0	15
AUG	1110	3.0	3.0	.241	.187	765	77	8.2	6.2	62	20.0	13.0	15
22	1250	1.4	2.8	.141	.114	760	101	8.8	6.4	62	27.5	22.0	15
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA DIS-	NITRO- GEN,AM- MONIA + ORGANIC
	SOLVED	SOLVED	DIS- SOLVED	DIS- SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
15 FEB	3.18	1.60	1.65	3.7	6	6.5	<.2	8.1	4.9	45	39	<.030	.16
20	3.38	1.69	1.58	3.8	5	6.8	<.2	5.7	7.5	50	38	<.030	.24
MAY 09	3.25	1.63	1.54	3.6	8	6.7	<.2	4.2	4.5	55	36	<.030	.24
AUG 22	3.16	1.68	1.59	3.5	7	6.6	<.2	7.4	4.9	52	39	<.030	.18
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L
DALL	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
15 FEB	<.03	.15	1.44	<.003	1.6	1.6	.044	.004	.010	.6	<.1	2.9	.6
20	.03	.21	1.14	<.003	1.4	1.4	.031	.007	.010	.3	<.1	4.5	.3
MAY 09	<.03	.32	1.23	<.003	1.5	1.5	.055	.004	.017	1.0	м	4.4	E1.0
AUG 22	<.03	. 25	1.41	<.003	1.6	1.7	.064	.005	.018	.7	<.1	2.4	.7
22	1.03	. 45	1.41	1.003	1.0	1.7	.004	.005	.010	.,	1.1	4.4	.,

	OXYGEN DEMAND,	CHLORO- PHYLL A		RESIDUE
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	<1.0		E9	4
FEB				
20	<1.0		E12	6
MAY				
09	E1.4	11.7	E8	<1
AUG				
22	<1.0	3.10	E12	11

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

GREAT EGG HARBOR RIVER BASIN

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10	1100	20	200	210	07	1040	90	100	390
17	1055	330	<100	380					
24	1135	790	700	220					
31	1110	130	200	190					

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

GREAT EGG HARBOR RIVER BASIN

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 mi2.

PERIOD OF RECORD. -- Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20	WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	200
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
20 FEB	1330	112		.169	.134	759	93	11.5	6.4	54	9.5	6.0	10
21 MAY	1230	269		.356	.275	762	90	11.1	5.0	68	10.0	6.5	11
08 SEP	1110	145	3.0	.282	.223	772	93	9.5	6.2	57	20.5	15.0	10
05	1140	75	1.5	.091	.072	763	87	8.2	6.6	53	24.0	18.5	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
ZO FEB	2.06	1.18	1.11	4.9	4	7.7	<.2	7.4	4.9	40	34	.070	.19
21 MAY	2.31	1.24	1.02	6.8	2	10.5	<.2	5.4	6.7	59	37	.060	.24
08 SEP	2.11	1.17	1.08	5.2	4	8.2	<.2	4.3	5.1	48	32	<.030	.23
05	1.93	1.11	1.00	4.9	5	7.5	<.2	6.0	4.7	42	30	<.030	E.16
2.2	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
20 FEB	.08	.23	.467	<.003	.65	.70	<.022	.004	.009	.4	<.1	3.7	.4
21 MAY	.05	.28	.436	<.003	.68	.72	.144	.005	.013	.7	<.1	7.3	.7
08 SEP	.03	.32	.482	<.003	.71	.80	.084	.005	.024	1.2	<.1	5.2	1.2
05	<.03	.16	E.616	<.003			<.022	E.002	.012	.5	<.1	5.1	.5

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
20	E1.1		31	<1	
FEB					
21	2.3		27	<1	
MAY					
08	E1.7	7.20	31	<1	
SEP					
05	<1.0	2.80	45	7	

E Estimated value.

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

GREAT EGG HARBOR RIVER BASIN

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY	DATE	WATER	VEAD	OCTOBER	2000	TYO	CEDTEMBER	2001
MWIEK-COWPITI	DATA.	WAILER	ILAR	OCTOBER	2000	10	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
20 FEB	1110	8.1		.159	.126	760	78	10.0	4.5	47	6.0	5.0	8
21	1010	16		.461	.354	762	80	10.0	3.9	84	12.0	6.0	9
MAY 08 AUG	0920	12	1.7	.320	.251	772	81	9.0	4.5	58	16.5	11.0	7
29	1150	3.9	1.0	.079	.064	760	75	7.2	5.6	41	28.0	17.5	7
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
20 FEB	1.36	1.02	.64	3.5	1	6.6	<.2	9.6	4.2	42	31	<.030	.11
21 MAY	1.81	1.13	. 63	6.0		10.1	<.2	6.6	8.3	46	77	.030	.23
08	1.32	.935	.82	4.8		8.9	<.2	6.3	4.6	47		<.030	.18
29	1.25	1.05	.75	3.3	2	6.1	<.2	8.9	2.5	35	25	<.030	.11
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
20 FEB	.50	.15	.658	<.003	.77	.81	.025	E.003	.005	.4	<.1	3.5	.4
21 MAY	.03	.24	.360	<.003	.59	.60	.036	.004	.007	.4	<.1	10	. 4
08 AUG	<.03	.21	.498	<.003	.68	.71	<.022	E.003	.009	.6	<.1	6.3	.6
29	<.03	.12	E.850	<.003			.040	E.003	.008	.3	<.1	1.7	.3

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
20	<1.0		E8	<1
FEB				
21	E1.6		E9	3
MAY				
08	E1.8	1.20	E11	<1
AUG		100		
29	<1.0	.800	E10	1

E Estimated value.

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

TUCKAHOE RIVER BASIN

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ

LOCATION.--Lat 39°22'19", long 74°51'14", Atlantic County, Hydrologic Unit 02040302, at bridge on Cumberland Avenue, at Atlantic-Cumberland County boundary, 0.8 mi upstream from Sharps Branch, and 2.8 mi west of Estell Manor.

DRAINAGE AREA. -- 8.78 mi2.

PERIOD OF RECORD. -- December 2000 to August 2001.

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, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY	DATE	TATATIVED	VEND	CALCULA	2000	T	CEDMEMBED	2001
MATEK-OUALITY	DATA,	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
DEC	2010		314	4.2	5.10	100			44		1.0		1.52
13 FEB	1000		.145	.116	781	80	11.5	5.8	33	-2.5	1.5	5	.85
08 MAY	1000		.435	.335	777	79	10.5	4.8	50	4.0	4.0	5	.79
30	1000	.8	.445	.349	761	85	8.2	4.8	33		17.0	4	. 57
09	1000	1.1	.201	.164	763	83	6.7	5.7	38	31.0	26.5	5	.82
	MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-	NITRO-
	SIUM, DIS- SOLVED	SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	TIT 4.5 LAB (MG/L	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI- TUENTS,	AMMONIA DIS- SOLVED	MONIA + ORGANIC DIS.	GEN, AMMONIA TOTAL
DATE	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	AS CACO3)	SOLVED (MG/L AS CL)	SOLVED (MG/L AS F)	(MG/L AS SIO2)	SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L)	DIS- SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)
DEC 13	700		2.4								050		0.5
FEB	.728	. 62		3	4.5	<.2	7.5	2.5	28	22	.050	.12	.06
08 MAY	.784	.54	2.4		3.9	<.2	6.9	6.1	42		.040	.24	.03
30	.601	.36	2.6	<1	4.4	<.2	6.0	2.0	33		<.030	.29	.05
09	.668	.84	2.5	3	4.5	<.2	7.0	1.4	31	20	.080	.35	.06
	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,
	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL	BIO- CHEM- ICAL,
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	TOTAL (MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	5 DAY (MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC									100				
13 FEB	.19	.288	<.003	.41	.48	.042	E.003	.004	.5	<.1	3.3	.5	E1.1
08 MAY	.21	.117	.006	.36	.32	.069	.004	.007	.5	<.1	10	.5	<1.0
30	.30	.043	<.003	.33	.34	.039	.009	.005	.5	<.1	9.5	.5	1.5
09	.32	E.032	<.003			.087	.005	.005	.8	<.1	5.1	.8	3.0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
DEC			
13		E12	<1
FEB			
08		14	1
MAY			
30	1.50	E11	7
AUG			
09	5.10	<13	2

E Estimated value.

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

TUCKAHOE RIVER BASIN

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
AUG 09	1000	<2	16.7	E.04	10	.05	<1	E.6	150	<1	E3	<.01	<1
				עם	ATE	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	9	<.4	<.05	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 UNFLITRD 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)
FEB 08	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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 UNFLITED 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)
FEB	162				A Taran								100
08	FEE	<.2	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITRD 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)	<.10	<.2

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY													
30	1000	<.004	<.002	<.005	<.007	<.010	E.003	<.020	<.005	<.018	<.003	<.006	<.005

E Estimated value.

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

TUCKAHOE RIVER BASIN

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ--Continued

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
30	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 3	0	<.011	<.016	<.034	<.005	<.009				

E Estimated value.

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

TUCKAHOE RIVER BASIN

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ

LOCATION.--Lat 39°18'25", long 74°49'15", Cape May County, Hydrologic Unit 02040302, at highway bridge on State Route 49, 0.2 mi upstream from McNeals Branch, 0.4 mi southeast of Head of River, and 3.7 mi west of Tuckahoe.

DRAINAGE AREA. -- 30.8 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 15.

WATER-QUALITY DATA, WATER YEAR	OCTOBER 20	OT OO	SEPTEMBER	2001
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DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
28 FEB	0945	7-	.678	.542	765	78	9.4	4.6	49		7.5	7	1.19
08 MAY	0945		.505	.394	778	83	11.2	4.5	47	6.0	3.5	5	.90
23 AUG	1000	3.7	.445	.355	760	80	7.7	4.9	35	18.5	17.0	5	.89
29	1000	1.1	.190	.153	765	71	6.4	5.8	29	26.0	20.5	5	.97
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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)
	,,	,,,,,,,,,	,,,,,,,	(/	(00000)	(000007	(000007	(00000)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
NOV 28 FEB	.884	1.14	2.8	<1	5.1	<.2	8.0	5.3	56		.040	<.10	<.03
08 MAY	.669	.47	2.5		4.5	<.2	6.3	5.5	46		.080	.23	<.03
23 AUG	.631	.65	2.8	1	5.1	<.2	7.1	3.2	34	21	<.030	.23	<.03
29	.629	.65	2.6	3	4.5	<.2	6.7	2.8	36	21	<.030	.18	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
28 FEB	.32	E.034	<.003			.063	<.050	<.060	.6	<.1	15	.6	2.9
08	.22	.038	<.003	. 27	.26	.077	E.003	.007	.6	<.1	11	.5	E1.6
23 AUG	.57	.042	<.003	.28	.61	.268	.005	.021	2.3	<.1	8.4	2.3	E1.2
29	.19	E.062	<.003	22	44.	.076	.010	.019	.6	<.1	3.2	.6	E1.8

DATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV			
28 FEB	77-0	19	4
08		E9	4
MAY			
AUG	2.20	E11	1
29	2.40	E8	1

E Estimated value

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

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
AUG 29	1000	<2	15.0	E.04	11	<.04	<1	.6	400	<1	4	<.01	<1
				AUG	ATE	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)					
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 UNFLITRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITED REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 08	0945	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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- FIUORO- 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- PENITYL 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)
FEB													
08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	ATE	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)		
	FEE	3)8	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 23	1000	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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

TUCKAHOE RIVER BASIN

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
23	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITED 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	3	.016	<.016	<.034	<.005	<.009				

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

fishing creek basin 305

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 mi2.

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted:
DISSOLVED OXYGEN: Jun. 25 to Jun. 28.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Undeveloped Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 16.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
15 FEB	1040	4.0		.830	.647	757	71	8.3	6.8	156	6.5	8.5	39
27 MAY	1010	3.8		.703	.547	767	81	9.9	6.3	124	12.0	7.0	27
23	0930	2.2	2.4	.749	.585	756	72	6.5	7.2	146	17.0	20.0	35
AUG 27	1300	E1.0	1.4	.975	.756	757	77	5.9	6.8	130	29.0	29.0	36
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
15 FEB	9.86	3.57	2.26	12.2	21	21.7	<.2	8.3	12.9	123	83	<.030	.57
27 MAY	6.98	2.28	1.20	11.2	11	18.5	<.2	7.9	11.3	99	67	<.030	.38
23 AUG	8.96	3.03	1.85	12.1	18	20.6	E.1	2.8	12.3	107	73	.210	. 87
27	9.75	2.88	1.37	9.9	23	15.7	<.2	9.8	8.8	124	72	.050	.64
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
15 FEB	<.03	.55	.050	<.003	.62	.60	.148	.012	.036	.8	<.1	17	.8
27 MAY	<.03	.48	.187	<.003	. 57	.67	.068	.004	.010	.4	<.1	15	.4
23 AUG	.20	.77	.079	.006	.95	.85	.100	.016	.036	.7	<.1	14	.7
27	.03	.72	.046	.003	. 69	.76	.127	.010	.026	1.1	<.1	19	1.1

E Estimated value.

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

FISHING CREEK BASIN

01411400 FISHING CREEK AT RIO GRANDE, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV				
15	2.1		25	9
27 MAY	E1.0		15	9
23	2.4	10.5	29	5
AUG 27	E1.6	23.4	26	2

E Estimated value.

FISHING CREEK BASIN 01411400 FISHING CREEK AT RIO GRANDE, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

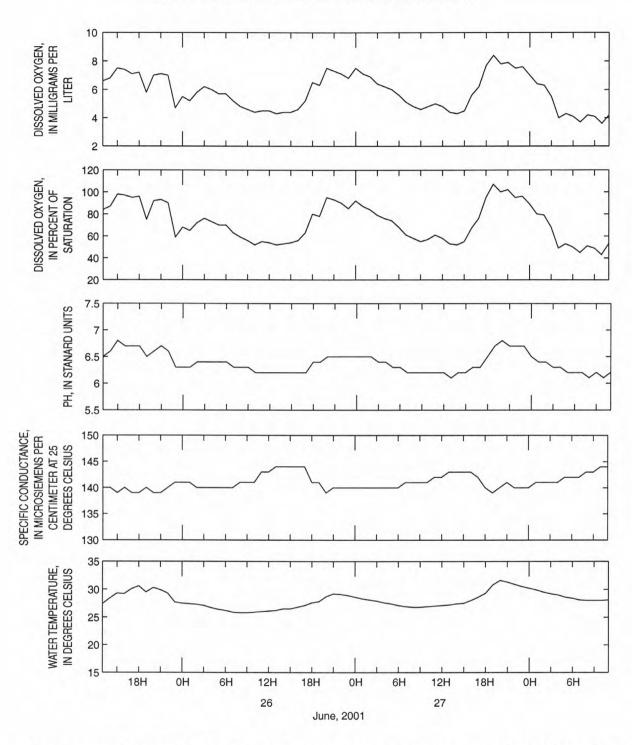


Figure 48. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01411400 Fishing Creek at Rio Grande, water year 2001.

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 mi2.

PERIOD OF RECORD .-- Water Year 2000 to current year.

REMARKS. -- Site is tide-affected; all samples collected at low tide, except sample on May 30 that was collected at high tide.

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, and total suspended solids was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS	CALCIUM DIS- SOLVED (MG/L
		(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	(00900)	AS CA) (00915)
DEC													
13 MAR	0800		.171	.134	772	84	11.3	6.4	63		3.5	12	1.77
01 MAY	0830		.149	.113	756	90	11.0	6.3	73	3.0	6.5	13	2.16
30	0800	1.2	.120	.091	757		6.3	6.7	4.4	16.0	21.0	120	8.98
SEP 06	0800	1.9	.131	.098	764		6.8	6.5		15.0	22.0	22	2.57
				ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-	
	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	RESIDUE AT 180	SUM OF CONSTI-	GEN, AMMONIA	GEN, AM- MONIA +	NITRO- GEN,
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC	AMMONIA
DATE	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	AS CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)
DEC													
13	1.95	1.97	6.4	4	11.5	<.2	3.4	7.8	48	39	.050	.19	.07
MAR 01 MAY	1.89	1.88	6.2	4	9.8	<.2	5.4	8.5	45	40	.030	.15	.04
30 SEP	23.6	8.06	185	8	332	E.1	1.3	49.4	626	613	<.030	.23	<.03
06	3.69	2.24	19.5	7	34.7	<.2	3.0	10.2	97	80	.060	E.47	.10
	NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,	OXYGEN
	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
DATE	TOTAL (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L	ICAL, 5 DAY
DATE	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
13 MAR	.30	.301	<.003	.49	.60	.058	.005	.012	.6	<.1	4.3	.5	E1.9
01 MAY	.22	.498	<.003	. 65	.72	.056	E.003	.014	.5	<.1	3.6	.5	E1.1
30 SEP	.32	E.025	<.003			.054	.006	.016	.6	<.1	3.4	.6	E1.4
06	.57	E.035	<.003			.098	.012	.030	1.0	<.1	4.5	1.0	2.7
				DA	TE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR.	BORON, DIS- SOLVED (UG/L	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED					
						(UG/L) (32209)	AS B) (01020)	(MG/L) (00530)					
				DEC	3	200	17	<1					
				MAR	l .								
				MAY	1		E9	9					

E Estimated value.

30...

SEP 06... 5.70

14.1

97

26

1

< 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 2000 TO SEPTEMBER 2001

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)	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)
SEP 06	0800	<2	92.1	. 07	25	<.04	<1	1.2	290	<1	20	<.01	<1
				D.A	ATE	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)					
				SEF 0	06	<.4	<.05	4					
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
MAR 01	0830	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	CHLORO- BENYENE 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, UNFLITED 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 01	<.10	<.2	<.10	<.10	<.10	<.2			<.10	<.2	<.10	<.10	<.2
•	DA MAR	TE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)	7.10	\.2

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 30	0800	<.004	<.002	<.005	.010	<.010	E.238	<.020	<.005	<.018	<.003	E.004	<.005

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

DENNIS CREEK BASIN

01411428 DENNIS CREEK TRIBUTARY 2 AT DENNISVILLE, NJ--Continued

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 30	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLIRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 3	0	<.011	<.016	<.034	<.005	<.009				

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

01411444 WEST CREEK NEAR LEESBURG, NJ

LOCATION.--Lat 39°15'36", long 74°54'42", Cumberland County, Hydrologic Unit 02040206, at bridge on County 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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 16.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
15	1350	14		.528	.416	757	77	8.9	4.4	52	6.2	9.0	5
FEB 27	1220	6.7		.448	.343	766	92	10.9	4.0	57	10.0	8.0	5
MAY	1220	0.7			.545	700	32	10.5		3,	20.0	0.0	-
23 SEP	1140	16	.9	.478	.372	757	78	7.4	4.4	50	18.5	17.5	3
20	0900	.00	1.7	.257	.204	765	49	4.6	4.4	40	20.0	18.5	2
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)	(MG/L AS N) (00625)
NOV													
15 FEB	.77	.788	.99	2.8	5.8	<.2	12.3	4.8	51	<.030	.32	<.03	.40
27 MAY	.72	.728	.76	2.7	4.6	<.2	7.0	6.4	36	<.030	.20	<.03	.36
23 SEP	.41	.526	.56	2.7	5.0	<.2	8.1	3.6	41	.050	.25	<.03	.29
20	.27	.436	.80	2.6	4.8	<.2	7.9	3.6	23	<.030	.19	<.03	.25
	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE	OXYGEN DEMAND, BIO- CHEM-	CHLORO- PHYLL A FLUORO- METRIC METHOD
DATE	SOLVED (MG/L AS N) (00631)	(MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	(MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	(MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)	ICAL, 5 DAY (MG/L) (00310)	CORR. (UG/L) (32209)
NOV													
15	E.031	<.003			.124	E.003	.010	1.4	<.1	11	1.4	E1.4	
27 MAY	.196	<.003	.40	.56	.100	E.002	.008	1.7	<.1	9.6	1.7	E1.0	
23 SEP	.037	<.003	.28	.33	.060	E.003	.006	.5	<.1	10	.5	E1.2	1.20
20	E.018	<.003			.066	.004	.007	.9	<.1	5.0	.9	<1.0	1.90

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	DEG. C, SUS- PENDED (MG/L)
NOV		
15	E13	6
27	E13	3
MAY 23	14	<1
SEP 20	E9	6

E Estimated value.

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

WEST CREEK BASIN

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
SEP 20	0900							<2	17.9	.06	11	E.03	<1
20	0900	5.50	180	<.2	110	1.6	<.2						
DATE	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)	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)
SEP 20	E.4	300			. 01			. 05					
20			<1 	6	<.01	<1	<.4	<.05	11	<1	<.03	1.0	.1
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
SEP													
20	<.342	280	1.1	3.8	<.01	<.3	<1	<3	<50	<50	<50	<50	<50
DATE	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)	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)
SEP													
20	<50	<50	<50	<50	<50	<50	<50	<50	<50	м	<50	<50	<50
DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE,236 TRIMETH SED, EM WS,<2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	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. FALL DIAM. % FINER THAN .004 MM (80157)
SEP													
20	<50	<50	м	<50	<50	<5	<50	<50	<50	<50	<50	м	2

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

SEP 20... 20... 3

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

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
27	1220	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 27	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DĀ	ATE	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)		
	FEE 2	3 27	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLIRD 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)
MAY													
23	1140	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY													
23	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015
			D	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY										
			2	3	<.011	<.016	< . 034	<.005	<.009				

E Estimated value.

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

WEST CREEK BASIN

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28	1055	<20	100	100	12	1017	20	<100	10
JUL					19	1017	<20	100	10
05	1018	310	200	70	26	1031	<20	<100	40

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

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ

LOCATION.--Lat 39°38'08", long 75°05'59", Gloucester County, Hydrologic Unit 02040206, at bridge on Little Mill Road, 1.3 mi downstream of Silver Lake, and 1.5 mi south of Clayton.

DRAINAGE AREA. -- 10.6 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS	
		(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)	
NOV													
14 FEB	1000		.126	.098	758	73	8.0	6.7	115		11.0	28	
15 MAY	1000		.145	.110	760	81	9.6	6.5	145	8.5	8.0	29	
09 AUG	1000	1.7	.292	.235	769	75	7.7	6.6	122		14.5	29	
30	1000	1.9	.211	.163	760	66	5.8	6.5	104	24.5	21.5	30	
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFL/TRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
DATE	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
14 FEB	5.58	3.30	2.29	8.0	17	14.1	<.2	5.0	6.9	62	60	.030	.23
15	6.39	3.17	1.87	12.4	9	21.5	<.2	6.6	11.2	88	75	<.030	.18
09 AUG	6.19	3.32	2.22	9.2	15	16.7	<.2	3.2	8.3	78	64	<.030	.36
30	5.95	3.56	2.14	9.1	18	15.9	<.2	4.2	6.7	78	58	.030	.28
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
14	.04	.24	1.01	<.003	1.2	1.3	.036	.004	.010	.5	<.1	3.1	.5
15 MAY	<.03	.18	1.46	<.003	1.6	1.6	.091	.005	.011	.7	<.1	3.7	.7
09 AUG	<.03	.36	1.17	<.003	1.5	1.5	.064	.005	.015	.6	М	5.0	E.6
30	.06	.43	E.610	<.003			.058	.006	.035	. 5	<.1	4.7	.5

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
14	E1.0		19	3
FEB				
15	<1.1		E12	7
MAY				
09	<1.0	7.30	21	<1
AUG				
30	<1.0	13.0	25	17

E Estimated value.

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

MAURICE RIVER BASIN

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
AUG 30	1000							E1	88.5	.09	25	. 05	<1
30	1000	6.30	100	1.6	220	8.9	<.2						
DATE	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)	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)
AUG 30	1.2	1460	2	90	.03	1	E.2	<.05	10				
30						1.				<1	<.03	2.7	.3
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
30	м	1200	3.3	7.5	<.01	.8	<1	4	<50	<50	<50	<50	<50
DATE	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)	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, EM 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)
AUG													
30	<50	<50	<50	<50	<50	<50	<50	<50	<50	м	<50	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
30 30	<50	<50	<50	<50	<50	<5	E20	<50	<50	<50	<50	м	<1

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

AUG 30... 2

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

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE FEB 15	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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
DATE	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	FREON- 113 WATER UNFLTRD REC (UG/L)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L)
FEB 15	(34301) <.10	(32105)	(32106)	(77093)	(32101)	(34668)	(81577)	(81576)	(5000 4)	(50005)	(34371)	(77652) <.10	(78032)
	D₽	ATE	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)		
	FEI 1	3 .5	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

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

		ACETO-	ALA-		ATRA-	BEN- FLUR-	CAR- BARYL	CARBO- FURAN		CYANA-	DCPA	DEETHYL ATRA-	
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED
		(UG/L) (49260)	(UG/L) (46342)	(UG/L) (34253)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L) (04041)	(UG/L) (82682)	(UG/L) (04040)	(UG/L) (39572)
		(49260)	(40342)	(34253)	(39632)	(82673)	(82680)	(82674)	(38933)	(04041)	(82082)	(04040)	(39572)
MAY													
09	1000	<.004	<.002	<.005	.009	<.010	<.041	E.007	<.005	<.018	<.003	E.004	<.005
				LIN-		METHYL			MOL-	NAPROP-		PENDI-	
		EPTC		URON		AZIN-		METRI-	INATE	AMIDE		METH-	PRO-
	DI-	WATER		WATER	MALA-	PHOS	METO-	BUZIN	WATER	WATER		ALIN	METON,
	ELDRIN	FLTRD	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	FLTRD	P,P'	WAT FLT	WATER,
	DIS-	0.7 U	DIS-	0.7 τ	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DDE	0.7 U	DISS,
DATE	SOLVED	GF, REC	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	DISSOLV	GF, REC	REC
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(39381)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82671)	(82684)	(34653)	(82683)	(04037)
MAY													
09	<.005	<.002	<.004	<.035	<.027	<.050	.022	<.006	<.002	<.007	<.003	<.010	E.005
				1.055			.022	1.000					2.005
						TEBU-	mmn	THIO-	TRI-				
					SI-	THIURON	TER- BACIL	BENCARB	FLUR-				
					MAZINE,	WATER	WATER	WATER	ALIN				
					WATER,	FLTRD	FLTRD	FLTRD	WAT FLT				
					DISS,	0.7 U	0.7 U	0.7 U	0.7 U				
			DA	TE	REC	GF, REC	GF, REC	GF, REC	GF, REC				
					(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)				
					(04035)	(82670)	(82665)	(82681)	(82661)				
			MAY										
				9	<.011	E.013	<.034	<.005	<.009				

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

MAURICE RIVER BASIN

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10	1025	<20	200	190	07	1010	220	100	220
17	1020	230	<100	200					
24	1000	80	<100	380					
31	1040	110	100	170					

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

MAURICE RIVER BASIN

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY	DATA,	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
73925													
NOV	0040	4.0		c11	404	255			4 7	40	7.5	8.0	7
15 FEB	0940	4.9		.611	.484	756	65	7.6	4.7	46	7.5	8.0	,
20	0950	9.1		.508	.399	765	75	10.0	4.4	60	12.0	3.5	7
MAY						, 00	, ,	20.0					
09	0830	1.6	.8	.432	.345	765	60	6.5	4.6	48	14.0	12.0	7
AUG		2.2		2.10					12.5		44.4	22.2	2
22	1030	2.7	.8	.192	.158	760	78	7.5	5.5	40	31.0	17.0	6
		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L	(MG/L	(MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED	SOLVED	(MG/L	(MG/L
DALL	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
15 FEB	1.27	.927	1.03	2.6	<1	5.4	<.2	9.7	3.9	49		<.030	.34
20 MAY	1.23	.897	.78	2.7		5.2	<.2	6.6	5.3	49		.040	.25
09 AUG	1.29	.957	.87	3.5	<1	6.4	<.2	5.3	3.7	45		<.030	.22
22	1.09	.908	.92	3.3	3	6.1	<.2	7.5	3.3	40	28	<.030	.19
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
15 FEB	<.03	.32	.350	<.003	.69	.67	.041	.004	.004	.3	<.1	11	.3
20 MAY	.05	.28	.588	<.003	.83	.87	.037	.005	.005	.3	<.1	9.6	.3
09 AUG	<.03	.29	.610	<.003	.83	.90	<.022	E.003	.006	.5	<.1	7.2	.5
22	<.03	.24	.669	<.003	.86	.91	.047	.007	.011	.4	<.1	3.8	.4

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	E1.3		E7	6
FEB				
20	<1.0		E7	7
MAY				
09	<1.0	5.50	E11	<1
AUG				
22	<1.0	4.50	E10	

E Estimated value.

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

MAURICE RIVER BASIN

01411466 INDIAN BRANCH NEAR MALAGA, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10	1040	50	<100	80	07	1025	70	<100	80
17	1040	20	<100	60					
24	1055	20	<100	50					
31	1055	50	<100	40					

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

MAURICE RIVER BASIN

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 (County Route 540) in Norma, 0.8 mi downstream from Blackwater Branch, and 2.9 mi west of Vineland.

DRAINAGE AREA. -- 112.0 mi2.

PERIOD OF RECORD. -- Water years 1953, 1962-63, 1965 to September 1997, December 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 17.

								0001
WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
27 FEB	1140	154	44	.305	.243	753	89	10.4	6.2	90	12.5	8.0	20
26 MAY	1230	184		.253	.194	765	95	11.6	6.2	110	9.0	7.0	22
09 SEP	1000	122	1.7	.305	.240	768	84	8.4	6.5	99	8.5	16.0	22
06	1000	58	1.2	.097	.075	767	91	8.5	6.5	96	20.2	19.0	20
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFL/TRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
27 FEB	4.25	2.27	2.22	6.7	7	11.0	<.2	6.2	7.9	64	52	<.030	.30
26 MAY	4.80	2.34	1.79	8.9	5	14.8	<.2	5.5	9.7	75	59	<.030	.24
09 SEP	4.60	2.50	1.84	7.5	9	11.7	<.2	3.4	7.5	70	53	.030	.30
06	3.94	2.43	2.46	7.5	10	11.9	<.2	4.0	6.0	56		.030	.24
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
27 FEB	<.03	.38	1.57	<.003	1.9	1.9	.043	.006	.016	.8	<.1	7.2	.8
26 MAY	.03	.29	1.92	<.003	2.2	2.2	.025	E.003	.009	.3	<.1	5.7	.3
09 SEP	<.03	.40	1.79	.004	2.1	2.2	.044	.006	.017	.5	<.1	5.6	. 5
06	.04	.23	1.63	<.003	1.9	1.9	.027	.004	.010	.3	<.1	2.6	.3

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
27	E1.9		97	10	
FEB					
26	E1.2		52	1	
MAY					
09	2.7	1.20	30	3	
SEP					
06	<1.0	.900		<1	

E Estimated value.

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

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28	0919	110	100	70	12	0913	90	<100	140
JUL					19	0905	140	100	310
05	0905	50	100	340	26	0920	<20	<100	50

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

MAURICE RIVER BASIN

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ

LOCATION.--Lat 39°20'14", long 75°03'04", Cumberland County, Hydrologic Unit 02040206, at bridge on Battle Lane, 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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Background, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001	

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
NOV													
20	1110	.68		.073	.060	760	81	10.2	5.2	26		5.5	4
FEB													
26	1140	3.7	1	.229	.175	764	86	10.5	4.6	44		7.0	5
MAY 10	1040	.93	1.3	.115	.091	764	81	8.6	5.1	25	18.5	13.0	3
AUG	1040	.93	1.3	.115	.091	764	91	8.0	5.1	25	10.5	13.0	3
27	1010	.92	6.2	.091	.074	757	77	7.2	5.3	23	29.0	18.0	4
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
20 FEB	.64	.508	.41	2.1	2		<.2	7.7		19		<.030	<.10
26	.75	.725	.46	2.8	<1	5.2	<.2	5.8	5.5	39		<.030	.12
MAY 10	.52	.481	.42	2.2	2	4.1	<.2	4.4	1.8	24	15	<.030	E.10
AUG		.401		2.2	-	4.1	1.2		1.0	2.	13	1.030	2.10
27	.52	.532	.44	2.0	2	4.0	<.2	7.3	1.4	32	18	<.030	E.09
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
20 FEB	.03	.17	.117	<.003		.29	<.022	E.002	.006	.4	<.1	1.6	.4
26 MAY	<.03	.18	.082	<.003	.20	.26	.038	<.004	.005	.5	<.1	5.0	.5
10	.05	.13	.057	<.003		.19	.045	<.004	E.002	.5	M	2.4	E.5
AUG 27	<.03	.27	.149	<.003		.42	.043	E.002	.014	.6	<.1	1.7	.6

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	
NOV					
20 FEB	<1.0		E9	5	
26	<1.0		19	2	
10	<1.0	1.60	E8	<1	
27	<1.0	10.9	E7	12	

E Estimated value.

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

M Presence of material verified but not quantified.

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			WATER-	-QUALITY I	DATA, WATE	ER YEAR OC	TOBER 200	00 TO SEPT	TEMBER 200)1			
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)	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)
AUG 27	1010	<2	16.5	E.04	11	E.02	<1	E.6	230	2	E2	<.01	<1
	1010		10.3		ATE	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)	230	•	22		
				AUG	3 27	<.4	<.05	4					
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 UNFLITRD 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)
FEB 26	1140	<.10	<.10	<.10	<,2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 26	<.10	<.2	.28	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	FEE		METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)		
	2	6	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 10	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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

MAURICE RIVER BASIN

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 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)
MAY													
10	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	.0	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28	1039	40	100	10	12	1000	<20	200	30
JUL					19	0959	90	<100	120
05	1000	170	100	200	26	0949	20	<100	100

< 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, at 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 mi².

PERIOD OF RECORD .-- Water years 1975 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
		,		,		(00000)	(0000-/	(00000)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,
NOV 27	0930	24		110	204		0.77	10.0		201	10 5	0.0	62
FEB	0930	34		.118	.094	755	87	10.2	6.8	221	10.5	8.0	02
26	1030	37		.081	.063	765	93	11.5	6.7	207	7.5	6.5	60
MAY													
AUG	1400	49	14	.199	.157	756	86	8.3	7.0	194	23.0	16.5	56
29	1220	29	14	.100	.077	762	84	7.3	6.4	207	25.5	22.5	59
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
27	12.1	7.67	7.87	9.5	17	24.1	<.2	9.7	22.7	132	126	<.030	.29
FEB												11000	
26	12.1	7.13	4.00	8.8	12	20.8	<.2	8.5	25.8	128	118	.040	.20
MAY 22	11.4	6.75	4.45	8.9	16	20.1	<.2	6.6	23.4	136	110	.100	.48
AUG	11.4	0.75	4.45	0.9	10	20.1	1.2	0.0	23.4	130	110	.100	. 40
29	11.6	7.28	6.21	9.8	16	22.6	<.2	8.0	23.7	126	99	.060	.38
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
-0.00	,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,	,/	,,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,
NOV 27	.03	40	4 07	012		- 4	100	010	OFO	0		2 2	0
FEB		.40	4.97	.012	5.3	5.4	.100	.018	.058	.9	<.1	3.3	.9
26 MAY	.04	.30	5.40	.006	5.6	5.7	.097	.004	.048	.9	<.1	2.5	.9
22 AUG	.08	.76	4.13	.018	4.6	4.9	.206	.017	.115	1.8	<.1	5.0	1.8
29	.07	.50	E4.39	.017			.148	.020	.077	1.1	<.1	3.1	1.1

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 27	E2.1		17	2
FEB 26	E1.5		17	7
MAY 22	2.9	9.00	15	12
AUG 29	<1.0	4.30	20	12

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				3.5
28	0941	50	<100	<10	12	0929	<20	<100	<10
JUL					19	0925	<20	<100	60
05	0924	20	<100	290	26	0939	<20	<100	20

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

01413013 BARRETT RUN AT BRIDGETON, NJ

LOCATION.--Lat 39°26'45", long 75°14'48", Cumberland County, Hydrologic Unit 02040206, at bridge on West Avenue, 400 ft downstream of Mary Elmer Lake in Bridgeton, 1,300 ft upstream of Sunset Lake, and 2.2 mi northeast of Bowentown.

DRAINAGE AREA. -- 7.58 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2	2001
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DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	
		(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	
NOV													
29	1000		.143	.120	764	88	10.7	6.9	158		7.0	50	
MAR	4.5												
07 MAY	0900		.050	.039	754	96	12.6	7.7	176	3.5	3.5	49	
30	1000	56	.169	.133	760	93	8.5	7.1	127	16.5	19.5	43	
AUG	1000	50	.103	.133	700	33	0.5	,	14/	10.5	15.5	***	
14	1000	6.9	.088	.069	760	87	7.0	7.2	157	24.0	26.0	51	
		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5 LAB	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI-	AMMONIA DIS-	MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
29 MAR	10.5	5.77	3.69	6.1	16	15.6	<.2	7.5	17.0	94	89	.030	.39
07	10.4	5.65	2.72	7.9	13	18.8	<.2	5.9	18.1	97	94	.040	.18
MAY 30	9.68	4.67	3.84	4.2	18	10.7	E.1	4.8	14.6	90	73	.040	.44
AUG	3.00	4.07	3.04	•	10	10.7	2.1	4.0	14.0	30	,,	.040	
14	10.6	5.92	3.88	6.6	24	16.7	<.2	5.5	15.9	81	85	.090	.39
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
29 MAR	<.03	.58	3.05	.011	3.4	3.6	.216	.006	.036	1.4	<.1	3.3	1.4
07 MAY	.06	.29	3.74	.009	3.9	4.0	.074	.004	.028	.6	<.1	1.7	.5
30	.12	. 95	2.11	.040	2.5	3.1	.250	.023	.197	1.6	<.1	4.3	1.6
14	.15	. 63	1.15	.037	1.5	1.8	.229	.012	.049	1.5	<.1	2.8	1.5

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV	4.1			
29 MAR	3.0		23	3
07 MAY	E1.4		<13	2
30	3.9	36.4	14	21
14	2.2	53.5	25	5

E Estimated value.

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

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
AUG									44.14				742
14	1000 1000	6.50	60	1.0	90	.9	<.2	E2	51.4	<.06	21	E.02	<1
3	COPPER, TOTAL RECOV-	IRON, TOTAL RECOV-	LEAD, TOTAL RECOV-	MANGA- NESE, TOTAL RECOV-	MERCURY TOTAL RECOV-	NICKEL, TOTAL RECOV-	SELE-	SILVER, TOTAL RECOV-	ZINC, TOTAL RECOV-	ARSENIC TOTAL IN BOT- TOM MA-	CADMIUM RECOV. FM BOT- TOM MA-	CHRO- MIUM, RECOV. FM BOT-	COBALT, RECOV. FM BOT- TOM MA-
	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	ERABLE	TERIAL	TERIAL	TOM MA-	TERIAL
DATE	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/G	(UG/G	TERIAL	(UG/G
	AS CU) (01042)	AS FE) (01045)	AS PB) (01051)	AS MN) (01055)	AS HG) (71900)	AS NI) (01067)	AS SE) (01147)	AS AG) (01077)	AS ZN) (01092)	AS AS) (01003)	AS CD) (01028)	(UG/G) (01029)	AS CO) (01038)
	(01042)	(01043)	(01031)	(01033)	(71300)	(01001)	(01147)	(01077)	(01092)	(01003)	(01020)	(01023)	(01030)
AUG		200											
14	.8	610	<1	121	<.01	<1	.5	<.05	3		<.03	1.1	.1
14										<1	<.03	1.1	.1
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
14						24							
14	8	3900	1.0	7.7	<.01	<.3	<1	<3	<50	<50	<50	<50	<50
DATE	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)	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, EM 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)
AUG													
14													
14	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
14												22	
14	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<1

	BED
	MAT.
	SIEVE
	DIAM.
	% FINER
DATE	THAN
	.062 M
	(80164)
NUG	

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

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
MAR							1.22						
07	0900	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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, UNFLITED 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 UNFLITED 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 07	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	D#	ATE	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	R 07	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 30	1000	<.004	.578	<.005	.217	<.010	E.058	<.020	<.005	.766	<.003	E.013	3.41
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY												. 010	- 00-
30	<.005	.010	<.004	.072	<.027	E.080	.350	.012	<.002	<.007	<.003	<.010	E.007
			D#	ATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 3		.143	<.016	<.034	<.005	E.007				

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

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
28	1008	<20	<100	80	12	0937	20	100	150
JUL					19	0933	20	100	90
05	0935	330	200	600	26	0949	<20	<100	<10

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

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, PA, Hydrologic Unit 02040104, at bridge (on U.S. Highways 6 and 209) between Port Jervis, N.Y. and Matamoras, PA, 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River.

DRAINAGE AREA . -- 3.070 mi2.

PERIOD OF RECORD. --Water years 1957-60, 1964 to January 1994, June 1997, 1999 to August 2001 (discontinued).

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 August 2001 (discontinued).

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 August 2001 (discontinued).

ORGANIC DATA: 0C--1974 (b), 1975 (d), 1999 to August 2001 (discontinued).

NUTRIENT DATA: 1968 (a), 1969-76 (d), 1987 (b), 1988-89 (c), 1990 (b), 1999 to August 2001 (discontinued).

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 August 2001 (discontinued).

PERTOD OF DATLY RECORD --

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 August

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 (DELR NAWQA).

For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" 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.

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT												
16 NOV	1530	ENVIRONMENTAL	1840	754	102	10.6	7.2	75	12.0	13.3	23	6.82
07	1020	ENVIRONMENTAL	1490	756	109	13.1	7.1	82	7.5	7.0	24	7.10
JAN	3222		70101						0.7			3,30
17	1300	ENVIRONMENTAL	2020	755	105	15.0	7.5	82	4.0	.6	22	6.55
FEB				222			2.2			- 1		
14	1230	ENVIRONMENTAL	3410	752	77	11.0	7.2	108	4.0	. 4	24	7.36
MAR	1000											
08	1229	FIELD BLANK			122							
08	1230	ENVIRONMENTAL	2490	754	109	14.9	7.5	97	6.0	2.1	22	6.81
08	1231	SPLIT REPLICATE						==	12.75		23	7.03
31	1310	ENVIRONMENTAL	24600	744	104	13.9	6.9	75	8.0	2.3	17	5.12
MAY	2222		1,250	454	4.4		darda	1.22	0.00			2012
10	1030	ENVIRONMENTAL	1550	757	94	9.0	7.0	93	17.5	17.4	24	7.30
JUN												
04	1220	ENVIRONMENTAL	6590	751	103	10.0	7.2	72	20.0	15.9	20	6.14
25	1310	ENVIRONMENTAL	2210	755	112	9.6	7.6	81	27.0	22.5	22	6.60
AUG												
23	0900	ENVIRONMENTAL	1890	755	106	9.1	7.2	95	20.2	22.3	25	7.13

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ALKA- LINITY WAT DIS TOT IT FIELD	BICAR- BONATE WATER DIS IT FIELD	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	MG/L AS CACO3 (39086)	MG/L AS HCO3 (00453)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	(MG/L AS N) (00623)	(MG/L AS N) (00625)	(MG/L AS N) (00608)	(MG/L AS N) (00600)
OCT													
16	1.37	.81	5.1			7.8	<.2	.9	6.8	.18	.31	<.041	.38
NOA													
07	1.41	.83	5.1	18	22	7.7	<.2	.5	7.2	.12	.15	<.041	.23
JAN 17	1.34	.70	E 2					2 0	7.4	10		- 041	.49
FEB	1.34	.70	5.2	11	14	9.1	<.2	3.2	7.4	.12	.11	<.041	.49
14	1.35	.87	8.9			16.0	<.2	3.1	7.4	.12	.17	<.041	.53
MAR			1000				1	2,40					
08										E.06	<.08	<.041	
08	1.27	.69	7.8	11	13	13.5	<.2	1.9	7.6	.13	.20	<.041	.39
08 31	1.31 .997	. 72	8.0 5.6	7	8	13.7	E. 1	2.0	7.7	.11	. 19	<.041 .041	.37
MAY	.337	.00	5.0	,	8	9.5	<.2	2.5	6.5	.20	.59	.041	.96
10	1.42	.88	6.8	14	17	12.0	<.2	.8	7.6	.19	.23	<.041	.46
JUN													
04	1.25	. 67	5.3	12	15	8.5	<.2	2.5	6.3	.19	.32	<.040	.49
25	1.34	.58	6.6	12	15	10.8	<.2	1.9	6.2	.19	.24	E.026	.33
AUG 23	1.65	.96	6.8	16	20	13.3	<.2	1.3	7.4	.17	.24	<.040	.41
		TABLET	12.12.52				-						4215 112 1
	NITRO- GEN DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, ORGANIC TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	SOLIDS, RESIDUE AT 180 DEG. C DIS-
DATE	GEN DIS- SOLVED (MG/L	GEN, NO2+NO3 DIS- SOLVED (MG/L	GEN, NITRITE DIS- SOLVED (MG/L	GEN, ORGANIC TOTAL (MG/L	GEN, PAR TICULTE WAT FLT SUSP (MG/L	PHORUS DIS- SOLVED (MG/L	PHORUS ORTHO, DIS- SOLVED (MG/L	PHORUS TOTAL (MG/L	INORG + ORGANIC PARTIC. TOTAL (MG/L	INOR- GANIC, PARTIC. TOTAL (MG/L	ORGANIC DIS- SOLVED (MG/L	ORGANIC PARTIC- ULATE TOTAL (MG/L	RESIDUE AT 180 DEG. C DIS- SOLVED
DATE	GEN DIS- SOLVED	GEN, NO2+NO3 DIS- SOLVED	GEN, NITRITE DIS- SOLVED	GEN, ORGANIC TOTAL	GEN, PAR TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHORUS ORTHO, DIS- SOLVED	PHORUS	INORG + ORGANIC PARTIC. TOTAL	INOR- GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	ORGANIC PARTIC- ULATE TOTAL	RESIDUE AT 180 DEG. C DIS-
	GEN DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHORUS TOTAL (MG/L AS P)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
ост 16	GEN DIS- SOLVED (MG/L AS N)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN, ORGANIC TOTAL (MG/L AS N)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHORUS DIS- SOLVED (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHORUS TOTAL (MG/L AS P)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 16 NOV 07	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	TOTAL (MG/L AS P) (00665)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT 16 NOV 07 JAN 17	GEN DIS- SOLVED (MG/L AS N) (00602)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHORUS TOTAL (MG/L AS P) (00665)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT 16 NOV 07 JAN 17	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005	INORG + ORGANIC PARTIC: TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45
OCT 16 NOV 07 JAN 17 FEB 14	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC: TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9	ORGANIC PARTIC- ULATE TOTAL (MG/L AS (C) (00689)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FIT SUSP (MG/L AS N) (49570) <.022 .054	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015	INORG + ORGANIC PARTIC TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054 .026	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.23	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08 08	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832 .30	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189 .187	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054026	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005 E.004	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015 .004 .012	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS (C) (00689) <.23	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054 .026	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.23	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08 08 08	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832 .30	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189 .187	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054026	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005 E.004	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015 .004 .012	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS (C) (00689) <.23	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08 08 08 08 08 JI MAY 10 JUN 04	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832 .30 .59	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189 .187 .394	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006 <.006 <.006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054 .026377	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005 E.004 .010	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015 .004 .012 .012 .012	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 1 .4 .43.7	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.23 3 3.6	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65 57 55 48
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08 08 11 MAY 10 JUN 04 25	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832 .30 .59	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189 .187 .394 .228	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 .006	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) <.022 .054026377	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005 E.005 .004	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015 .004 .012 .012 .012	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 1 .4 .4 .4 .3.7	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3 2.9 2.1	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.23 3.6 E.4	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65
OCT 16 NOV 07 JAN 17 FEB 14 MAR 08 08 08 08 08 JI MAY 10 JUN 04	GEN DIS- SOLVED (MG/L AS N) (00602) .24 .20 .49 .4832 .30 .59 .42	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .068 .076 .377 .360 <.047 .189 .187 .394 .228	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.006 <.008 <.008	GEN, ORGANIC TOTAL (MG/L AS N) (00605)	GEN, PAR TICULTE WAT FIT SUSP (MG/L AS N) (49570) <.022 .054 .026377 .042 .155	PHORUS DIS- SOLVED (MG/L AS P) (00666) E.004 <.006 .007 .007 <.006 E.005 E.004 .010 .008	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018 <.018	PHORUS TOTAL (MG/L AS P) (00665) .006 .005 .010 .015 .004 .012 .012 .149 .016	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 1 .4 .4 .3.7 .4 1.2	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1 M <.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 2.4 2.0 1.9 2.3 	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.23 3.6 E.4 1.2	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) 47 45 48 65 57 55 48 59

DATE	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)
OCT							
16	41	<2.0	E7	20	5.2	6.0	1
07 JAN	41	<2.0	E10	20	4.5		<1
17 FEB	42	<2.0	<13	20	3.3	6.5	1
14 MAR	54	2.8	E9	50	11.0	42	5
08							2.2
08	47	<2.0	E11 E10	30 30	9.2 8.7		<1 <1
31 MAY	38	54	E8	40	25.9	3790	57
10	46	<2.0	E8	30	13.4		<1
JUN 04	39	11	<13	60	7.2	240	14
25	42	<2.0	E8	80	11.5	18	3
AUG 23	49	<2.0	E9	30	5.4	6.1	1

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

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-DI- CHLORO- WATER UNFL/TRD 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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 16	1530	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT 16	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
DATE	TET	TRD WAT OVER RE	TT- TYL METE UER CHI UNF RII C TOT (L) (UG/	CHI CE RIII CAL TOTA (L) (UG/	E XYLE O- WAT DE UNFI L RE L) (UG	A- CHLA ENE TOLA ER WAT TRD WHO CC TOT C/L) (UG	DRO- O JENE XYL TER WA DLE WH TAL TO (L) (UG	ENE TOLI TER WAS OLE WHO TAL REG /L) (UG	PYL- TETH UENE CHLA I'ER ETHY OLE ENE C TOY	ORO- YL- E TOLU FAL TOT /L) (UG/	ral TOT	ORO- CHLO VL- FLUO NE METI FAL TO: G/L) (UG	DRO- DRO- HANE TAL ('L')
OCT 16	<2	<.	2 <.	2 <.	2 <.0	6 <.0)3 <.	04 <.0	07 <.	.1 E.C	01 <.0	04 <.0	09

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
OCT													
16	1530	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
FEB													
14	1230	<.004	<.004	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
MAR													
31	1310	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005	<.018	<.003	E.002	<.005
MAY													
10	1030	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
JUN													
04	1220	<.004	<.002	<.005	.020	<.010	E.005	<.020	<.005	<.018	<.003	E.005	<.005
25	1310	<.004	<.002	<.005	.011	<.010	E.039	<.020	<.005	<.018	<.003	<.006	<.005
AUG													
23	0900	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.018	<.003	E.004	<.005

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 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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													
16	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015
FEB													
14	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015
MAR													
31	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.002	<.007	<.003	<.010	<.015
MAY													1000
10	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
04	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	<.015
25	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
23	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.002	<.007	<.003	<.010	<.015

DATE	DISS, REC	FLTRD 0.7 U		THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	ALIN WAT FLT 0.7 U GF, REC
	(04035)	(82670)	(82665)	(82681)	(82661)
OCT					
16	<.011	<.016	<.034	<.005	<.009
FEB					
14	E.003	<.016	<.034	<.005	<.009
MAR					
31	<.011	<.016	<.034	<.005	<.009
MAY					
10	E.003	<.016	<.034	<.005	<.009
JUN					
04	E.003	<.016	<.034	<.005	<.009
25	E.009	E.004	<.034	<.005	<.009
AUG					
23	<.011	<.016	<.034	<.005	<.009

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	t	N	OVEMBER		Di	ECEMBER			JANUARY	
1	16.5	14.0	15.5	9.0	7.0	8.0	3.5	2.5	3.0	.0	5	.0
2	16.5	15.0	16.0	9.0	7.0	8.0	2.5	1.0	2.0	.0	5	.0
3	17.5	15.5	16.5	9.5	7.0	8.5	1.0	.0	.5	.0	5	.0
4	17.5	15.5	16.5	9.5	8.5	9.0	1.0	.0	.5	.0	.0	.0
5	17.0	15.5	16.0	9.0	8.0	8.5	1.0	.0	.5	.0	.0	.0
6	16.0	15.0	15.5	8.5	7.0	7.5	.5	.0	.0	.0	.0	.0
7	15.5	14.0	15.0	8.0	6.5	7.5	.5	.0	.0	.0	.0	.0
8	14.0	11.0	12.5	8.0	6.5	7.5	.0	.0	.0	.5	.0	.0
9	11.0	9.5	10.0	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
10	10.0	8.5	9.5	9.5	8.5	9.0	.0	.0	.0	. 5	.0	.0
11	10.5	8.5	9.5	9.5	9.0	9.0	1.0	.0	.5	.5	5	.0
12	11.5	9.0	10.5	9.0	8.5	9.0	1.0	.0	1.0	.5	.0	.0
13	12.0	10.0	11.0	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
14	13.5	11.5	12.5	8.5	8.0	8.5	.5	.0	.0	.5	.0	.0
15	14.5	12.0	13.5	8.0	6.0	7.0	1.0	.0	.5	.5	.0	.5
16			222	6.5	5.5	6.0	1.0	.0	.5	.5	.0	.5
17	13.0	12.5	12.5	6.5	5.5	6.0	4.0	.5	1.5	.5	.5	.5
18	13.0	12.5	12.5	5.5	4.5	5.0	2.0	.5	1.5	.5	.0	.5
19	12.5	11.5	12.0	5.0	3.5	4.5	1.5	1.0	1.0	1.0	.0	.5
20	12.0	10.5	11.0	4.5	2.5	3.5	1.0	.5	.5	1.0	.0	.5
21	12.5	11.0	11.5	3.5	2.0	3.0	.5	.0	.5	.5	.0	.0
22	12.5	11.0	12.0	3.0	1.0	2.0	1.0	.0	.5	.5	.0	.0
23	12.0	10.0	11.0	1.5	.0	.5	.0	5	.0	.5	.0	.0
24	12.0	10.0	11.0	.5	5	.0	.0	.0	.0	.5	5	.0
25	13.0	10.5	12.0	.5	.0	.5	.0	.0	.0	.5	.0	.0
26	13.5	11.0	12.5	2.0	.5	1.5	.0	5	.0	.5	.0	.0
27	13.5	11.5	12.5	2.5	1.5	2.0	.0	.0	.0	.5	.0	.0
28	13.0	11.0	12.0	3.0	2.0	2.5	.0	.0	.0	1.0	.0	.0
29	11.0	8.5	9.5	3.5	2.5	3.0	.0	5	.0	.5	.0	.0
30	9.0	7.5	8.0	4.0	3.0	3.5	.0	.0	.0	.5	.0	.5
31	8.5	6.5	8.0				.0	.0	.0	1.5	.5	.5
MONTH	17.5	6.5	12.3	9.5	5	5.6	4.0	5	.5	1.5	5	.1

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

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPE	RATURE,	WATER (DEG.	C), WA	TER YEAR	OCTOBER	2000 10	SEPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
572								APRIL			MAY	
	1	FEBRUARY			MARCH			APRIL				
1	1.5	.0	. 5	1.0	.0	.5	3.0	2.5	2.5	16.0	13.5	14.5
2	1.0	.0	.5	1.5	1.0	1.5	3.5 4.5	3.0	4.0	17.5 18.5	14.5 16.5	17.5
3	.5	.0	.0	3.0 2.0	.5	1.0	5.5	3.5	4.5	20.5	16.5	18.5
5	.0	.0	.0	.5	.0	.0	6.5	4.5	5.5	20.0	17.0	18.5
	1				•	-	6.0	5.0	5.5	18.5	15.5	17.0
6 7	1.0	.0	.0	1.0 3.5	.0	1.5	5.0	4.5	5.0	18.0	15.5	16.5
8	.5	.0	.5	3.0	.5	2.0	5.0	4.5	5.0	17.5	15.0	16.5
9	1.5	.0	.5	2.0	1.0	1.5	6.5	4.5	5.5	17.5	16.0	16.5
10	2.0	.0	1.0	3.0	.5	2.0	7.0	6.5	7.0	20.0	16.0	18.0
11	.5	.0	.0	2.5	.5	1.5	6.5	6.0	6.0	20.5	17.5	19.0
12	.5	5	.0	3.5	.5	2.0	6.5	5.5	6.0	21.0	18.0	19.5
13	1.5	.0	.5	3.0	2.0	2.5	8.0	6.0	7.0	19.5	17.5	18.5
14	.5	.0	.5	3.0	1.5	2.0	8.5	7.0	8.0	18.0 18.0	16.5 15.5	17.5 17.0
15	1.0	.0	.5	3.0	1.0	2.0	8.5	7.0	8.0	10.0	13.5	27.10
16	.5	.0	.0	3.5	1.5	2.5	8.5	7.5	8.0	17.5	15.5	16.5
17	1.0	.0	.5	3.5	2.0	2.5	8.0	7.5	7.5	17.0	16.0 15.0	16.5 15.5
18	1.0	5	.0	3.5	1.5	2.5	8.0	6.5	7.0	16.0 19.0	15.0	17.0
19 20	1.5	5	1.0	4.0	1.5	3.0	8.0	6.5	7.5	18.5	17.0	18.0
									2.2			
21	2.0	.0	1.0	3.0	2.0	2.5	9.5		8.5 10.5	18.0 16.5	16.5	17.0 16.0
22	.5	5	.0	2.5 3.5	1.5	2.0	12.5 15.0	9.0	13.5	16.0	15.5	16.0
23 24	1.0	.0	.5	3.5	2.5	3.0	15.5	14.0	15.0	18.0	15.5	17.0
25	1.0	.0	.5	3.5	2.0	3.0	15.0	13.0	13.5	18.0	16.5	17.0
50				-				11 0	12.5	16.5	15.5	16.0
26	1.5	.5	1.0	3.0	1.0	2.5	13.0 13.0			16.0	15.0	15.5
27 28	1.5	.0	1.0	3.5	1.5	2.5	13.5		12.5	17.5	15.5	16.5
29				3.5	2.5	3.0	14.5	11.0	12.5	18.0	16.0	17.0
30				3.0	2.5	3.0	14.5	11.0	13.0	17.5	16.0 14.5	16.5
31				2.5	2.0	2.5				17.5	14.5	10.0
MONTH	2.0	5	.4	4.5	.0	2.0	15.5	2.5	8.1	21.0	13.5	16.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN	MEAN	MAX	MIN		MAX	MIN SEPTEMBE	
		JUNE			JULY			AUGUST				
1	17.0	JUNE 14.5	16.0			MEAN	25.5	AUGUST	24.0	MAX	SEPTEMBE	ER
		JUNE			JULY		25.5 26.5 26.5	AUGUST 22.5 23.5 24.0	24.0 25.0 25.5		SEPTEMBE	ER
1 2 3 4	17.0 17.0 16.5 16.5	JUNE 14.5 15.0 15.5 15.5	16.0 16.0 16.0 16.0	=	JULY		25.5 26.5 26.5 26.0	22.5 23.5 24.0 24.0	24.0 25.0 25.5 25.0	===	SEPTEMBE	ER
1 2 3	17.0 17.0 16.5	JUNE 14.5 15.0 15.5	16.0 16.0 16.0	==	JULY		25.5 26.5 26.5	22.5 23.5 24.0 24.0	24.0 25.0 25.5 25.0		SEPTEMBE	ER
1 2 3 4 5	17.0 17.0 16.5 16.5 17.0	JUNE 14.5 15.0 15.5 15.5	16.0 16.0 16.0 16.0	=	JULY		25.5 26.5 26.5 26.0	22.5 23.5 24.0 24.0 24.0	24.0 25.0 25.5 25.0 25.5	===	SEPTEMBE	======================================
1 2 3 4	17.0 17.0 16.5 16.5	JUNE 14.5 15.0 15.5 15.5	16.0 16.0 16.0 16.0	 23.5	JULY 21.0 20.5 20.0	 22.5 22.0 21.5	25.5 26.5 26.5 26.0 27.0 28.0 29.0	22.5 23.5 24.0 24.0 24.0 25.5 26.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5	=======================================	SEPTEMBE	======================================
1 2 3 4 5	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5	16.0 16.0 16.0 16.5 17.5 18.5	23.5 23.5 23.5 23.5	JULY 21.0 20.5 20.0 20.5	22.5 22.5 21.5 21.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5	22.5 23.5 24.0 24.0 24.0 25.5 26.0 25.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.5	=======================================	SEPTEMBE	ER
1 2 3 4 5 6 7 8 9	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0	16.0 16.0 16.0 16.5 17.5 18.5 19.0	23.5 23.5 23.5 21.5 25.5	JULY 21.0 20.5 20.0 20.5 21.0	 22.5 22.0 21.5 21.0 23.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5	AUGUST 22.5 23.5 24.0 24.0 24.0 25.5 26.0 25.0 24.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.5	=======================================	SEPTEMBE	======================================
1 2 3 4 5	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5	16.0 16.0 16.0 16.5 17.5 18.5	23.5 23.5 23.5 23.5	JULY 21.0 20.5 20.0 20.5	22.5 22.5 21.5 21.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5	AUGUST 22.5 23.5 24.0 24.0 24.0 25.5 26.0 25.0 24.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.5 26.0		SEPTEMBE	ER
1 2 3 4 5 6 7 8 9	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5 21.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0	16.0 16.0 16.0 16.5 17.5 18.5 19.0 19.5 20.0	23.5 23.5 23.5 21.5 21.5 25.5 26.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0	22.5 22.0 21.5 21.0 23.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 28.5 27.5 26.5	22.5 23.5 24.0 24.0 24.0 25.5 26.0 25.0 24.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.5 26.0 26.0		SEPTEMBE	ER
1 2 3 4 5 6 7 8 9 10	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5 21.5 21.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 18.5	16.0 16.0 16.0 16.5 17.5 19.0 19.5 20.0	23.5 23.0 23.5 21.5 25.5 26.0	JULY 21.0 20.5 20.0 20.5 21.0 22.5 22.0	22.5 22.0 21.5 21.0 23.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 24.0	24.0 25.0 25.5 25.5 27.0 27.5 26.5 26.0 26.0		SEPTEMBE	ER
1 2 3 4 5 6 7 8 9 10	17.0 17.0 16.5 16.5 17.0 18.5 21.0 21.5 21.5 21.0 22.0 24.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 18.5	16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.0 20.5 22.0	23.5 23.5 23.5 21.5 25.5 26.0 25.5 24.5 22.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 23.0 22.5 22.0 20.5	22.5 22.5 22.5 21.5 21.0 23.0 24.0 23.0 21.5	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 23.5	24.0 25.0 25.5 25.5 27.0 27.5 26.5 26.0 25.0 24.0 24.5	=======================================	SEPTEMBE	ER
1 2 3 4 5 6 7 8 9 10	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5 21.5 21.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 18.5	16.0 16.0 16.0 16.5 17.5 19.0 19.5 20.0	23.5 23.0 23.5 21.5 25.5 26.0	JULY 21.0 20.5 20.0 20.5 21.0 22.5 22.0	22.5 22.0 21.5 21.0 23.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 23.5 23.5 23.5	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.5 26.0 26.0 24.0 24.5		SEPTEMBE	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 16.5 16.5 17.0 18.5 21.0 21.5 21.5 21.0 22.0 24.0 26.0 27.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 18.5 19.5 19.0 21.0 21.5 23.5	16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.5 22.0 23.5 25.0	23.5 23.5 23.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 23.0 23.0 23.0 19.5	22.5 22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5	25.5 26.5 26.5 26.5 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 23.5 23.5 23.5	24.0 25.0 25.5 25.5 27.0 27.5 26.5 26.0 26.0 24.0 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5 21.5 21.0 22.0 24.0 26.0 27.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.5 23.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.5 22.0 23.5 25.0	23.5 23.0 23.5 21.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0 23.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.0 19.5	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 27.0 26.0 27.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.5 19.0 21.0 21.0 21.5 23.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 20.0 20.5 22.0 23.5 25.0	23.5 23.0 23.5 21.5 21.5 25.5 26.0 25.5 22.0 22.0 23.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.5 20.0 20.5 20.0	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 21.5 21.5	25.5 26.5 26.5 26.5 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 25.0 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 21.5 21.5 21.0 22.0 24.0 26.0 27.0	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.5 23.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.5 22.0 23.5 25.0	23.5 23.0 23.5 21.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0 23.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.0 19.5	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 25.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 23.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 16.5 16.5 17.0 18.5 21.0 21.5 21.5 21.0 22.0 24.0 27.0 26.0 23.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 18.5 19.5 19.0 21.0 21.5 23.5	16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.5 22.0 23.5 25.0 24.5 23.5	23.5 23.0 23.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0 23.0 24.5 24.5	JULY 21.0 20.5 20.0 20.5 21.0 20.5 21.0 20.5 21.0 23.0 23.0 20.5 22.0 20.5 22.0 20.5 20.0 19.5	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 21.5 21.5 23.5 23.5	25.5 26.5 26.5 26.5 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 25.5 24.5 24.5	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 23.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.0 24.5 25.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 17.5 18.0 12.5 23.5 23.0 22.5 22.5 22.0	16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.5 22.0 23.5 23.0 24.5 23.0	23.5 23.0 23.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0 23.0 25.5 24.5 25.5 25.5	JULY 21.0 20.5 20.0 20.5 21.0 23.0 23.0 20.5 22.5 22.0 20.5 22.0 20.5 22.0 20.5 22.0 20.5	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 21.5 23.5 23.5 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 25.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.5 27.0 27.5 26.5 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.0 23.5 23.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.5 23.5 23.0 22.5 21.0 22.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.5 22.0 23.5 22.0 24.5 23.0 24.5 23.0 24.0	23.5 23.5 23.5 21.5 21.5 25.5 26.0 25.5 24.5 22.0 22.0 23.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 23.0 22.5 22.0 20.5 20.0 19.5 21.5 23.0 22.0 23.0	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.0 21.5 21.0 21.5 21.5 23.5 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 25.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 25.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.0		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.0 24.5 25.5 22.5 22.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.5 18.0 18.5 19.0 21.0 21.0 22.5 23.5 23.0 22.5 21.0 22.0 21.0 20.0	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.5 22.0 23.5 22.0 24.0 24.0 22.5 23.0 24.0	23.5 23.0 23.5 21.5 25.5 26.0 25.5 22.0 22.0 23.0 25.5 25.5 25.5 25.5 25.5 25.5 25.5	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.5 22.0 22.5 20.0 22.5 23.0 22.5 23.0 22.5 23.0	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 21.5 23.5 24.0 24.0 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.0 23.5 24.0		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 22.5 23.5 22.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.0 22.5 23.5 23.0 22.5 21.0 22.0 22.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.0 22.5 22.0 23.5 23.0 24.5 23.0 24.0 22.5 21.5 21.0	23.5 23.5 23.5 21.5 25.5 26.0 25.5 24.5 22.0 23.0 24.5 25.5 25.0 25.5 25.0 26.0 27.5 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.0 19.5 21.5 23.0 22.5 23.0 22.5 23.5 24.5 25.0	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5 21.5 23.5 24.0 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 27.5 26.0 26.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.0 24.5 25.5 22.5 22.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.5 18.0 18.5 19.0 21.0 21.0 22.5 23.5 23.0 22.5 21.0 22.0 21.0 20.0	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.0 20.0 20.5 22.0 23.5 22.0 24.0 24.0 22.5 23.0 24.0	23.5 23.0 23.5 21.5 25.5 26.0 25.5 22.0 22.0 23.0 25.5 25.5 25.5 25.5 25.5 25.5 25.5	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.5 22.0 22.5 20.0 22.5 23.0 22.5 23.0 22.5 23.0	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 21.5 23.5 24.0 24.0 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5 24	22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 27.5 26.0 26.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 22.5 23.5 22.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.0 22.5 23.5 23.0 22.5 21.0 22.0 22.5	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.0 22.5 22.0 23.5 23.0 24.5 23.0 24.0 22.5 21.5 21.0	23.5 23.5 23.5 21.5 25.5 26.0 25.5 24.5 22.0 23.0 24.5 25.5 25.0 25.5 25.0 26.0 27.5 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.0 19.5 21.5 23.0 22.5 23.0 22.5 23.5 24.5 25.0	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5 21.5 23.5 24.0 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	AUGUST 22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.0 25.0 25.0 24.0 25.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 23.5 22.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.5 23.5 23.0 22.5 21.0 22.0 22.5 21.0 20.0 20.0	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.5 22.0 23.5 23.0 24.5 23.0 24.0 22.5 21.0 21.0	23.5 23.0 23.5 21.5 25.5 26.0 25.5 22.0 23.0 22.0 23.0 25.5 25.5 25.5 25.5 26.0 27.5 28.0 27.5 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 23.0 20.5 22.5 20.0 19.5 21.5 23.0 22.5 24.5 24.5 24.0 22.5	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5 21.5 22.5 24.0 24.0 24.0 24.5 26.0 26.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	AUGUST 22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0	24.0 25.0 25.5 25.0 27.5 26.5 26.0 26.0 24.0 24.5 24.5 24.5 24.5 24.0 23.5 24.0 23.5		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	17.0 17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 22.0 24.0 26.0 27.0 26.0 23.5 23.0 24.5 25.5 21.5 21.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.5 19.0 21.0 21.0 22.5 21.0 22.5 21.0 20.0 20.0	16.0 16.0 16.0 16.0 16.5 17.5 18.5 20.0 20.5 22.0 23.5 23.0 24.5 23.0 22.5 23.0 24.5 21.5 21.0	23.5 23.0 23.5 21.5 25.5 26.0 22.0 22.0 22.0 23.0 25.5 25.5 25.5 26.0 27.5 28.0 28.0 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 22.5 20.0 22.5 22.0 23.0 22.5 24.5 24.5 25.0 24.5 24.5 22.0	22.5 22.0 21.5 21.0 23.0 24.0 24.0 21.5 21.5 23.5 21.5 23.5 24.0 24.5 24.0 24.5 26.0 26.0 26.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	AUGUST 22.5 23.5 24.0 24.0 25.5 26.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 26.0 27.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	24.0 25.0 25.5 25.5 27.0 27.5 26.0 24.0 24.5 24.5 24.5 24.5 24.0 23.5 24.0 23.5 24.0		SEPTEMBI	ER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 21 22 23 24 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 22.5 23.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.5 23.5 23.0 22.5 21.0 22.0 22.5 21.0 20.0 20.0	16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.0 22.5 22.0 23.5 23.0 24.0 22.5 21.5 21.0	23.5 23.5 23.5 21.5 25.5 26.0 25.5 22.0 23.0 24.5 25.5 25.0 26.0 27.5 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 22.0 20.0 19.5 21.5 23.0 22.5 24.5 24.0 22.5 22.0 22.5	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.0 21.5 21.0 21.5 23.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 26.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	AUGUST 22.5 23.5 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 24.0 25.0 26.0 27.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28	24.0 25.0 25.5 25.0 25.5 27.0 27.5 26.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5		SEPTEMBI	ER
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	17.0 17.0 16.5 16.5 17.0 18.5 19.5 21.5 21.5 21.0 22.0 24.0 26.0 27.0 26.0 23.5 23.5 23.5 22.5 23.5 23.5 23.5	JUNE 14.5 15.0 15.5 15.5 15.0 16.5 17.0 18.0 18.5 19.5 19.0 21.0 22.5 23.5 23.0 22.5 21.0 22.0 22.5 21.0 20.0 20.0 20.0	16.0 16.0 16.0 16.0 16.5 17.5 18.5 19.5 20.0 20.5 22.5 23.0 24.5 23.0 24.5 21.5 21.0 21.0	23.5 23.0 23.5 21.5 25.5 26.0 25.5 22.0 23.0 24.5 25.5 25.0 26.0 27.5 28.0 27.5 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0	JULY 21.0 20.5 20.0 20.5 21.0 23.0 22.5 22.0 20.5 23.0 22.5 23.5 24.5 24.0 22.5 22.5 24.5 24.0 22.5 22.5 22.5 22.5	22.5 22.0 21.5 21.0 23.0 24.0 23.0 21.5 21.5 21.5 23.5 24.0 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.5 24.0 24.0 24.5 24.0 24.0	25.5 26.5 26.5 26.0 27.0 28.0 29.0 28.5 27.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24	AUGUST 22.5 24.0 24.0 24.0 25.5 26.0 25.0 25.0 24.0 25.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	24.0 25.0 25.5 25.0 27.5 26.0 26.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5		SEPTEMBI	ER
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01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, at 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 mi².

PERIOD OF RECORD. -- May 1999 to September 2001 (discontinued).

REMARKS.-- These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA); the 05/10 and 08/23 samples were part of the DELR NAWQA synoptic study. Data from additional sites collected as part of the synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature records for this and other sites are presented in "Water Quality at Miscellaneous Surface-Water Sites." For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality Control Data" in the "Introduction."

DATE	TIME	SAME TYP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT													
16 MAY	1040	ENVIRONM		60	729	93	10.0	6.4	27	9.5	10.2	9	2.52
10	0929	FIELD BL			77			77					.01
10	0930	ENVIRONM	ENTAL	104	723	109	11.9	7.0	35	21.0	9.1	9	2.60
AUG	0.000		43445	- 2	202	300	5.2	12.12	16.7	22.4		2	2 22
23	1600	ENVIRONM	ENTAL	26	719	106	9.8	7.5	34	19.5	16.3	9	2.65
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ALKA- LINITY WAT DIS TOT IT	BICAR- BONATE WATER DIS IT	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA DIS-	NITRO- GEN,
	SOLVED	SOLVED	SOLVED	FIELD	FIELD	SOLVED	SOLVED	(MG/L	SOLVED	DIS.	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	MG/L AS	MG/L AS	(MG/L	(MG/L	AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS MG)	AS K)	AS NA)	CACO3	HCO3	AS CL)	AS F)	SIO2)	AS SO4)	AS N)	AS N)	AS N)	AS N)
	(00925)	(00935)	(00930)	(39086)	(00453)	(00940)	(00950)	(00955)	(00945)	(00623)	(00625)	(00608)	(00600)
OCT													
16	.638	.30	1.1	4	4	1.5	E.1	2.5	4.9	E.07	.09	<.041	.14
MAY				-		1.5	2.1	2.5		2.07			
10	<.008	<.09	<.1			<.1	<.2	<.1	<.1	<.10	<.08	<.041	
10	.631	.30	1.5	3	4	2.9	<.2	2.0	4.7	<.10	E.07	<.041	
AUG													
23	.674	.40	1.8	4	5	3.6	<.2	2.4	4.8	<.10	E.06	<.040	77
	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	TUR- BID- ITY FIELD WATER
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	SOLVED	SOLVED	UNFLTRD
2	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(MG/L)	(NTU)
	(00631)	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(70300)	(70301)	(61028)
OCT													St.A.
16 MAY	.052	<.006	7.5	<.006	<.018	E.002	. 77		1.0	<.2	20	16	2.0
10	<.047	<.006		<.006	<.018	<.004					<10	70	
10	.206	<.006	<.022	<.006	<.018	E.002	.2	<.1	.99	.2	26	17	
AUG	43.56	41.000							100	1.0	100	2.3	12.0
23	.119	<.006	<.022	<.006	<.020	.006	. 2	<.1	. 65	. 2	23	19	<2.0

DATE	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)
OCT					
16	<13	<10	E2.3	.16	1
MAY					
10	<13	<10	<3.2	0	<1
10	<13	<10	E1.8		<1
23	<13	<10	E1.9	.11	2

E Estimated value.

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY--Continued

WATER-COLUMN PESTICIDE ANALYSES

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

		ACETO- CHLOR,	ALA- CHLOR,	ALPHA	ATRA- ZINE,	BEN- FLUR- ALIN	CAR- BARYL WATER	CARBO- FURAN WATER	CHLOR-	CYANA- ZINE,	DCPA WATER	DEETHYL ATRA- ZINE,	DI-
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,
DATE	TIME	FLTRD REC (UG/L) (49260)	DISS, REC, (UG/L) (46342)	DIS- SOLVED (UG/L) (34253)	DISS, REC (UG/L) (39632)	0.7 U GF, REC (UG/L) (82673)	0.7 U GF, REC (UG/L) (82680)	0.7 U GF, REC (UG/L) (82674)	SOLVED (UG/L) (38933)	DISS, REC (UG/L) (04041)	0.7 U GF, REC (UG/L) (82682)	DISS, REC (UG/L) (04040)	DIS- SOLVED (UG/L) (39572)
OCT													
16	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
10	0930	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
23	1600	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
	-	EPTC		LIN- URON		METHYL AZIN-		METRI-	MOL- INATE	NAPROP- AMIDE		PENDI- METH-	PRO-
	DI- ELDRIN DIS-	WATER FLTRD 0.7 U	LINDANE DIS-	WATER FLTRD 0.7 U	MALA- THION, DIS-	PHOS WAT FLT 0.7 U	METO- LACHLOR WATER	BUZIN SENCOR WATER	WATER FLTRD 0.7 U	WATER FLTRD 0.7 U	P,P'	WAT FLT 0.7 U	METON, WATER, DISS,
DATE	SOLVED (UG/L) (39381)	GF, REC (UG/L) (82668)	SOLVED (UG/L) (39341)	GF, REC (UG/L) (82666)	SOLVED (UG/L) (39532)	GF, REC (UG/L) (82686)	DISSOLV (UG/L) (39415)	DISSOLV (UG/L) (82630)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82684)	DISSOLV (UG/L) (34653)	GF, REC (UG/L) (82683)	REC (UG/L) (04037)
OCT													
16	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
10	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
23	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
					SI-	TEBU- THIURON	TER- BACIL	THIO- BENCARB	TRI- FLUR-				
					MAZINE, WATER,	WATER	WATER	WATER	ALIN WAT FLT				
			DA	TE	DISS, REC	0.7 U GF, REC	0.7 U GF, REC	GF, REC	O.7 U GF, REC				
					(UG/L) (04035)	(UG/L) (82670)	(UG/L) (82665)	(UG/L) (82681)	(UG/L) (82661)				
			OCT										
			MAY	6	<.011	<.016	<.034	<.005	<.009				
			AUG	.0	<.011	<.016	<.034	<.005	<.009				
			2	3	<.011	<.016	<.034	<.005	<.009				

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

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-OUALTT	KTEAT VE	TATA THE D	VEND	OCHODED	2000 m	O CEDMEMBED	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
08 MAR	0915	1800		.053	.040	757	98	12.0	7.3	90		6.5	26
08 MAY	1030	3610		.060	.045	755	96	13.4	7.4	111	8.0	1.5	25
10	0930	1920	1.0	.072	.054	755	108	10.7	7.3	107	22.0	15.5	26
22	1100	2090	1.3	.054	.041	758	80	6.9	7.4	100	30.0	22.5	25
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM,	ANC UNFLITED TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA +
	SOLVED	SOLVED	SOLVED	DIS- SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	SOLVED	ORGANIC DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
08 MAR	7.67	1.54	.81	5.8	18	8.8	<.2	.6	7.0	45	44	.050	.18
08	7.71	1.47	.75	9.3	14	15.8	<.2	2.4	7.6	61	55	<.030	.14
10	7.79	1.50	.88	8.8	16	15.9	<.2	1.5	7.7	70	55	<.030	.22
22	7.27	1.64	.91	7.3	18	12.1	<.2	1.3	6.6	58	49	<.030	.22
	NITRO- GEN,	NITRO- GEN, AM- MONIA +	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE	NITRO- GEN	NITRO-	NITRO- GEN, PAR TICULTE	PHOS- PHORUS	PHOS-	CARBON, INORG + ORGANIC	CARBON, INOR- GANIC,	CARBON, ORGANIC	CARBON, ORGANIC PARTIC-
	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE
E. Carlo	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
08 MAR	.04	.23	.115	<.003	.30	.34	.052	.004	.014	.3	<.1	1.9	.3
08 MAY	<.03	.12	.272	<.003	.41	.40	.042	.006	.012	.3	<.1	2.0	.3
10	<.03	.25	.305	<.003	.52	.55	.034	.008	.016	.4	М	2.5	E.4
22	<.03	.26	.205	<.003	.42	.46	.088	.007	.017	.6	<.1	2.1	.6

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV				
08 MAR	E1.1		E10	12
08	<1.0		<13	2
10	E1.0	2.90	E8	<1
22	<1.0	2.40	E8	4

E Estimated value.

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

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1035	20	<100	10	01	1040	<20	<100	60
11	1040	20	<100	210					
18	1035	50	<100	30					
25	1040	<20	<100	<10					

< 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, 1.0 mi upstream from Flatbrookville, and 1.5 mi upstream from mouth.

DRAINAGE AREA. -- 64.0 mi2.

PERIOD OF RECORD. -- Water years 1923-24, 1956-57, 1959-80, 1993, 1995, 1997 to current year.

INSTRUMENTATION.--WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 to 30 minutes) located at gage.

REMARKS.--Additional water-quality data for this and other sites collected as part of the DELR NAWQA synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites." Continuous water temperature records and fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites." For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Physical parameters measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Field data and samples for laboratory analyses on 10/05, 05/10, and 08/23 were provided by the Delaware River Basin National Water Quality Assessment Program (DELR NAWQA). Additional 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Undeveloped Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

DATE	TIME	SAMI TYI		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WIR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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													
05 NOV	1150	ENVIRONMENTAL		28	<2.0	+-		717	112	10.9	7.6	251	14.5
14 FEB	1100	ENVIRONMENTAL		37		.080	.061	749	92	10.6	7.9	198	
21 MAY	1100	ENVIRONMENTAL		110		.056	.043	756	95	12.7	7.8	179	3.0
10	1619	FIELD BI	LANK			44		0==0					
10	1620	ENVIRON		55	<2.0			757	100	9.3	8.0	235	30.5
31 AUG	1100	ENVIRONMENTAL		123	2.2	.133	.103	754	97	10.2	7.8	149	18.0
23 SEP	1550	ENVIRONMENTAL		13	<2.0			755	104	9.4	8.1	285	20.0
05	0800	ENVIRON	MENTAL	10	.4	.034	.026	752		6.2	7.9		16.0
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)	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)
OCT													
05 NOV	13.6	97	27.9	6.52	.68	10.2		85	103	16.8	<.2	3.2	13.5
14 FEB	8.5	73	20.8	5.08	.71	8.9	61			14.5	<.2	4.3	13.3
21 MAY	3.0	60	17.7	3.76	.53	9.1	48	7.7		15.5	<.2	4.9	11.6
10			E.01	<.008	<.09	<.1				<.1	<.2	<.1	<.1
10	18.4	87	25.6	5.52	.50	10.5		73	89	18.3	<.2	4.0	13.3
31 AUG	12.5	52	15.2	3.43	.40	7.9	42			12.5	<.2	4.8	9.8
23 SEP	19.6	110	32.3	8.16	.62	11.2	2-	92	112	20.9	<.2	3.4	19.3
05	17.0	110	31.5	7.98	.70	11.7	97			17.8	<.2	3.8	19.6

E Estimated value.

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

DELAWARE RIVER BASIN

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT							,						
05 NOV	139	129	<.020	.12		.14	<.050	<.010				E.005	<.010
14 FEB	108	104	<.030	.15	<.03	.13	E.027	<.003			<.022	E.003	
21 MAY	107	92	.030	E.08	.05	E.08	.131	<.003	77	100	<.022	.004	
10	<10		<.041	<.10		<.08	<.047	.006				<.006	<.018
10	140	122	<.041	.10		.17	.111	.009	.21	.29	.036	.006	<.018
31 AUG	101	80	<.030	.17	<.03	.20	.086	<.003	.26	.28	.049	.012	
23 SEP	165	151	<.040	.10		.10	<.050	<,006				E.004	<.020
05	152	151	<.030	E.09	<.03	.12	<.037	<.003			<.022	E.003	
DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
DATE	PHORUS TOTAL (MG/L AS P)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	DIS- SOLVED (UG/L AS B)	DIS- SOLVED (UG/L AS FE)	NESE, DIS- SOLVED (UG/L AS MN)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	MENT, SUS- PENDED (MG/L)
	PHORUS TOTAL (MG/L AS P)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	ORGANIC DIS- SOLVED (MG/L AS C)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L)	DIS- SOLVED (UG/L AS B)	DIS- SOLVED (UG/L AS FE)	NESE, DIS- SOLVED (UG/L AS MN)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	MENT, SUS- PENDED (MG/L)
OCT 05 NOV 14 FEB	PHORUS TOTAL (MG/L AS P) (00665)	INORG + ORGANIC PARTIC TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC, TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020)	DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
OCT 05 NOV 14	PHORUS TOTAL (MG/L AS P) (00665)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020)	DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
OCT 05 NOV 14 FEB 21 MAY	PHORUS TOTAL (MG/L AS P) (00665)	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC, TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.9 2.4	ORGANIC PARTIC- PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.2 .3 .2	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020) E11 <13 <13	DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056) 10.1	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
OCT 05 NOV 14 FEB 21 MAY 10	PHORUS TOTAL (MG/L AS P) (00665) .010 .006 .007 <.004 .014	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.9 2.4 1.7	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.2 .3 .2	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 <1.0	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020) E11 <13 <13	DIS- SOLVED (UG/L AS FE) (01046)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
OCT 05 NOV 14 FEB 21 MAY 10 10 31	PHORUS TOTAL (MG/L AS P) (00665) .010 .006 .007	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.9 2.4	ORGANIC PARTIC- PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.2 .3 .2	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020) E11 <13 <13	DIS- SOLVED (UG/L AS FE) (01046) 30 <10	NESE, DIS- SOLVED (UG/L AS MN) (01056) 10.1	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)
OCT 05 NOV 14 FEB 21 MAY 10 10	PHORUS TOTAL (MG/L AS P) (00665) .010 .006 .007 <.004 .014	INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1	ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.9 2.4 1.7	ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) <.2 .3 .2	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 <1.0	PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020) E11 <13 <13	DIS- SOLVED (UG/L AS FE) (01046) 30 <10 50	NESE, DIS- SOLVED (UG/L AS MN) (01056) 10.1	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	MENT, SUS- PENDED (MG/L) (80154)

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

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

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

DATE	TIME	SAMP TYP		ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITED 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)
OCT	4450					1. 122		0.222					
05 MAY	1150	ENVIRONM	ENTAL	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003
10	1618	FIELD BL	ANK	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	< . 003
10	1620	ENVIRONM	ENTAL	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.018	<.003
AUG													
23	1550	ENVIRONM	ENTAL	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003
DATE	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)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLITED 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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
	(04040)	(39372)	(0000-)	,,	(33341)	(02000)	(39532)	(02000)	(05-20)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	44.75.75.		
OCT	(04040)	(39372)	(00001)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(33341)	(02000)	(39532)	(02000)	(05110)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100000		
OCT 05	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.003	<.007	E.002
											1	<.007	E.002
05											1	<.007	E.002
05 MAY	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.003		
05 MAY 10	<.006	<.005 <.005	<.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027	<.050 <.050	<.013	<.006 <.006	<.003 <.002	<.007	<.003

	PENDI- METH-	PRO-	SI-	TEBU- THIURON	TER- BACIL	THIO- BENCARB	TRI- FLUR-
	ALIN	METON,	MAZINE,	WATER	WATER	WATER	ALIN
	WAT FLT	WATER,	WATER,	FLTRD	FLTRD	FLTRD	WAT FLT
	0.7 U	DISS,	DISS,	0.7 U	0.7 U	0.7 U	0.7 U
DATE	GF, REC	REC	REC	GF, REC	GF, REC	GF, REC	GF, REC
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(82683)	(04037)	(04035)	(82670)	(82665)	(82681)	(82661)
OCT							
05	<.010	<.015	<.011	<.016	<.034	<.005	<.009
MAY							
10	<.010	<.015	<.011	<.016	<.034	<.005	<.009
10	<.010	<.015	<.011	<.016	<.034	<.005	<.009
AUG							
23	<.010	<.015	<.011	<.016	<.034	<.005	<.009

DELAWARE RIVER BASIN

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	0950	70	<100	50	01	0955	20	<100	50
11	0950	460	100	180					
18	0945	<20	<100	380					
25	0950	80	<100	60					

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 2000 TO SEPTEMBER 2001

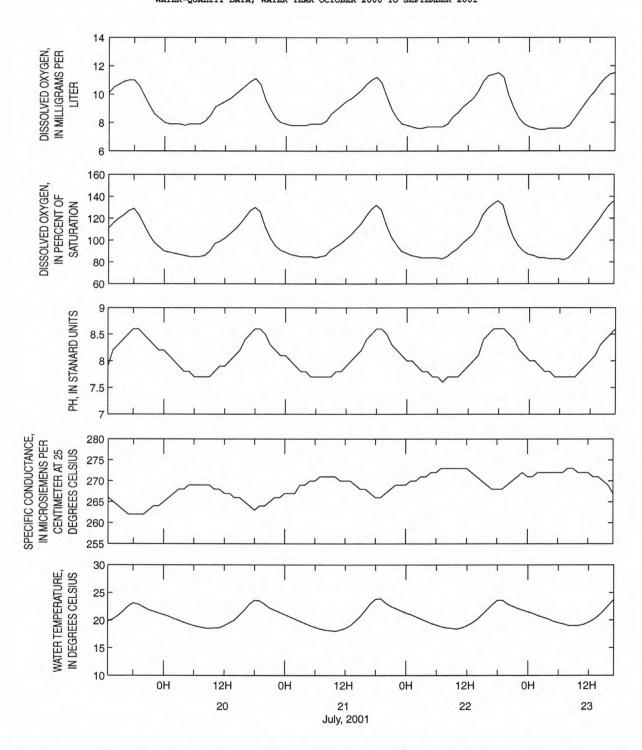


Figure 49. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01440000 Flat Brook near Flatbrookville, water year 2001.

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ

LOCATION.--Lat 40°58'14", long 75°07'35", Warren County, Hydrologic Unit 02040104, at footbridge in Delaware Water Gap National Recreation Area 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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Background, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 200	WATER-OUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	200
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DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLITED (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
01 FEB	0920	.99	77	.020	.015	755			6.6	37	15.5	9.5	15
07 MAY	1020	8.8		.018	.014	760	100	13.4	7.1	34	6.5	3.0	11
02	1000	4.9		.022	.018	755	100	10.9	6.7	33	26.5	11.0	12
AUG 08	1310	.43	.4	.023	.018	752	104	9.3	5.8	39	35.0	20.0	14
DATE	CALCTUM 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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
01 FEB	3.77	1.32	.51	1.0	7	1.5	<.2	4.6	7.3	26	25	.060	<.10
07 MAY	2.82	1.02	.40	.7	4	1.2	<.2	4.3	8.1	24	21	.030	<.10
02 AUG	3.04	1.03	.44	.8	6	1.1	<.2	4.2	8.1		22	<.030	E.08
08	3.62	1.26	.55	1.0	7	1.5	<.2	5.4	7.2	26	26	.030	<.10
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,	CHLORO- PHYLL A FLUORO- METRIC METHOD
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)	CORR. (UG/L) (32209)
NOV													
01 FEB	.03	E.07	<.037	<.003	<.022	<.004	<.004	.1	<.1	.72	.1	2.4	
07 MAY	<.03	E.07	E.022	<.003	<.022	<.004	E.002	.2	<.1	.70	.2	E1.7	
02 AUG	<.03	<.08	<.037	<.003	<.022	E.003	E.003	E.2	<.1	.83	E.2	E1.9	.200
08	.05	E.04	.259	<.003	.050	.005	.005	.3	<.1	.72	.3	<1.0	.100

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
VOV		
01	<13	<1
07	E8	2
02	<13	6
08	E8	2

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 2000 TO SEPTEMBER 2001

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)	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)
AUG 08	1310	<2	17.0	<.06	7	.04	<1	E.4	E10	<1	E3	<.01	2
				AUG	3 3 38	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE ERABLE (01/L AS ZN) (01092)					
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 UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 07	1020	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB	1.024												
07	FEE	<.2	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITRD 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)	<.10	<.2

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 02	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005

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

DELAWARE RIVER BASIN

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 02	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY	2	<.011	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0900	20	<100	40	15	1020	80	<100	30
08	0830	<20	<100	30	22	0930	<20	<100	40
					29	0935	<20	<100	70

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

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY FIELD WATER UNFL/TRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
0.245		1020320			10707.21		,,,,,,,,,			0.855.85	133757		3363634
NOV 02	0950	1950		.064	.049	756	102	11.8	7.5	98	15.5	8.5	31
FEB						,,,,	202					7.5	
13	0930	5730		.068	.052	762	96	13.8	7.0	125	7.0	.5	30
MAY 02	1330	4660		.065	.051	756	106	10.3	7.7	108	32.0	16.5	29
AUG													
08	1000	2330	1.3	.062	.047	752	102	7.9	7.3	111	34.0	28.0	30
		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	(MG/L)	AS N)	AS N)
	(00312)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
02	9.57	1.72	.81	6.2	22	9.1	<.2	.8	8.1	56	50	.030	.13
FEB 13	9.13	1.71	.76	10.2	16	18.2	<.2	3.8	8.8	74	64	<.030	.14
MAY	3.23		.,,			10.2		3.0	0.0				
02	8.68	1.68	.71	7.4	20	13.5	<.2	1.1	8.1	80	54	<.030	.20
08	9.02	1.83	.90	7.9	22	13.7	<.2	1.4	8.1	59	56	.060	.21
		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,
	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-	CONTRACT.	INORG +	INOR-	CARBON,	ORGANIC
	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-
	AMMONIA	ORGANIC	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	GEN, TOTAL	WAT FLT SUSP	DIS- SOLVED	PHORUS	PARTIC.	PARTIC. TOTAL	DIS- SOLVED	ULATE
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
02	.05	.14	.045	.003	.17	.19	.028	.010	.015	.2	<.1	2.2	.2
FEB		722			7.73			1555					
13	<.03	.14	.360	<.003	.50	.50	<.022	.011	.022	.4	<.1	2.3	.4
MAY			39.0		125			2.22	224		1.0	3.6	4
02 AUG	<.03	.18	.222	<.003	.42	.40	.060	.009	.016	.3	<.1	2.6	.3
08	<.03	.26	.091	<.003	.30	.35	.104	.013	.021	.7	<.1	2.3	.7

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
02	E1.2		<13	6	
FEB					
13	E1.1		E7	6	
MAY					
02	E1.3	2.60	<13		
AUG					
08	<1.0	2.50	E8	5	

E Estimated value

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

DELAWARE RIVER BASIN

01443000 DELAWARE RIVER AT PORTLAND, PA--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG	5620				AUG			100	1000
01	0930	<20	<100	20	15	1012	20	<100	<10
08	0850	<20	<100	60	22	0955	<20	<100	10
					29	0950	20	<100	40

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

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ

LOCATION. --Lat 41°06'21", long 74°40'56", Sussex County, Hydrologic Unit 02040104, at bridge on Warbasse Junction Road (County Route 663) at Warbasse, 0.9 mi southwest of Lafeyette, and 1.3 mi east of unnamed pond.

DRAINAGE AREA. -- 11.4 mi2.

PERIOD OF RECORD .-- November 2000 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

WATER-	VITAT.TITY	DATE	WATED	VEND	CONCEPT	2000	TO	SEPTEMBER	2001
WATER-	CUALITY	DATA.	MATER	YEAR	OCTOBER	2000	10	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER- ATURE	HARD- NESS TOTAL (MG/L	
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	
NOV													
21 FEB	1100		.298	.219	745	77	10.2	7.7	658		2.5	220	
15 MAY	1115		.197	.147	746	76	9.7	7.5	681	5.0	4.0	180	
23 AUG	1100	8.2	.422	.319	744	52	5.2	7.5	535	18.0	14.2	160	
14	1100	24	.168	.125	747	42	3.6	7.5	574	27.0	21.5	170	
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
21 FEB	58.4	19.0	3.66	42.1	173	73.8	<.2	7.8	34.7	377	359	.070	.79
15 MAY	49.3	14.0	2.18	57.8	128	109	<.2	6.8	26.5	375	351	.050	.56
23 AUG	43.5	12.7	2.17	40.4	120	70.9	E.1	6.0	27.4	313	279	.180	.91
14	43.7	14.4	4.46	43.9	117	77.2	<.2	6.7	37.9	313	310	.440	.84
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
21 FEB	.11	.98	3.60	.024	4.4	4.6	.077	.036	.059	.7	<.1	8.4	.7
15	.05	.58	2.02	<.003	2.6	2.6	.123	.022	.070	1.2	<.1	5.4	1.2
23 AUG	.19	1.2	.899	.034	1.8	2.1	.249	.069	.115	2.2	<.1	10	2.2
14	.40	1.1	2.42	.123	3.3	3.5	.170	.079	.144	1.9	<.1	5.3	1.9

	OXYGEN	CHLORO-		RESIDUE
		PHYLL A		TOTAL
	DEMAND,		22223	
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	<1.0		55	5
FEB				
15	<1.0		20	8
MAY				
23	2.9	14.6	24	14
AUG				
14	E2.1	6.90	48	7

E Estimated value.

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

DELAWARE RIVER BASIN

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
AUG												12.0	
14	1100							6	18.3	<.06	47	.05	м
14	1100	7.47	760	2.2	310	34	13						
DATE	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)	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)
AUG													
14	4.3	680	3	186	<.01	2	.4	.26	12				
14										2	. 2	13	5.8
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
14													
14	14	16000	15	370	.03	15	<1	70	<50	<50	<50	<50	<50
DATE	ANTHRA- CENE, 2- METHYL- SED, BM WS, <2MM DW, REC (UG/KG) (49435)	ANTHRA- CENE SED, EM 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 FLUCR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO (G HI) PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, EM WS,<2MM DW, REC (UG/KG) (49397)	CHRY- SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	DIBENZ (AH), AN THRACEN SED, EM 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)
AUG													
14	==												
14	<50	E30	70	80	70	60	70	100	<50	140	60	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
14									-22				221
14	<50	<50	<50	<50	<50	<5	<50	<50	50	<50	<50	120	3

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

8

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

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
15	1115	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 15	<.10	<.2	.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.6
	D#	ATE	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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)		
	FEE			5 15 0				2 - 2/25	10.79.9				
	1	.5	<.2	<.20	<.10	<.10	.4	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITRD 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)
MAY 23	1100	.009	<.002	<.005	.015	<.010	E.007	<.020	<.005	<.018	<.003	E.005	E.003
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 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)
MAY 23	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	E.013
			DA	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	r 23	<.011	<.016	<.034	<.005	<.009				

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

DELAWARE RIVER BASIN

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
05	1040	490	400	300	01	1115	790	400	160
11	1105	2200	700	2300					
18	1050	790	800	70					
25	1130	460	600	60					

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'44", long 74°57'15", Warren County, Hydrologic Unit 02040105, 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 mi2.

PERIOD OF RECORD. -- Water years 1921, 1925, 1957-60, 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, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WANTED -	OTTAT TITLE	DAMA	TATA CITE TO	VEND	OCHOPED	2000	mo	SEPTEMBER	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
28 FEB	1100	87		.118	.088	753	98	12.5	8.1	480		4.5	180
27 MAY	1100	405		.103	.077	758	102	14.0	8.0	463	8.0	2.0	140
17 AUG	1100	72	5.4	.090	.067	755	92	9.0	8.2	534	16.0	16.0	210
23	0830	20	4.7	.097	.072	754	71	6.2	8.2	580	18.0	21.5	210
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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
28 FEB	46.3	16.6	1.82	26.4	149	46.7	<.2	6.4	20.4	271	258	.040	.28
27 MAY	35.4	12.2	1.45	34.1	110	63.3	<.2	4.9	17.9	256	238	<.030	.18
17 AUG	50.8	19.7	1.40	28.6	175	53.5	<.2	3.8	18.4	279	284	<.030	.28
23	46.6	23.2	1.89	33.9	170	65.8	<.2	2.8	21.7	316	299	<.030	.32
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
28 FEB	<.03	.29	.951	<.003	1.2	1.2	.047	.007	.016	.4	<.1	3.5	.4
27 MAY	<.03	.28	.838	<.003	1.0	1.1	.071	.005	.019	.6	<.1	3.2	.6
17	<.03	.35	.543	.014	.82	.89	.100	.017	.040	.9	<.1	2.8	.9
23	.04	.40	.233	<.003	.55	.64	.084	.026	.043	.6	<.1	2.9	.6

OXYGEN	CHLORO-		RESIDUE
DEMAND,	PHYLL A		TOTAL
BIO-	FLUORO-	BORON,	AT 105
CHEM-	METRIC	DIS-	DEG. C,
ICAL,	METHOD	SOLVED	SUS-
5 DAY	CORR.	(UG/L	PENDED
(MG/L)	(UG/L)	AS B)	(MG/L)
(00310)	(32209)	(01020)	(00530)
<1.0	0-27	17	<1
E1.3		E9	6
E1.4	8.40	20	6
<1.0	5.00	23	6
	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.3	DEMAND, PHYLL A BIO- FLUORO- CHEM- CHEM- CORR. (MG/L) (UG/L) (00310) (32209) <1.0 E1.3 E1.4 8.40	DEMAND, PHYLL A BIO- FLUORO- BORON, CHEM- METRIC DIS- ICAL, METHOD SOLVED 5 DAY CORR. (UG/L) (MG/L) (UG/L) AS B) (00310) (32209) (01020) <1.0 17 E1.3 E9 E1.4 8.40 20

E Estimated value.

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

DELAWARE RIVER BASIN

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0830	230	100	140	15	1040	260	<100	50
08	0905	80	<100	50	22	0910	130	200	70
					29	0900	330	100	270

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

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ

LOCATION.--Lat 40°58'30", long 74°50'57", Warren County, Hydrologic Unit 02040105, at bridge on Dark Moon Road 1.3 mi northeast of Johnsonburg, 0.4 mi northeast of CONRAIL railroad tunnel, and 0.5 mi northwest of Francis Lake.

DRAINAGE AREA .-- 5.10 mi2.

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

COOPERATION. --Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 1.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV	1000							2007				2.3	
29 FEB	1030	1.0		.037	.028	746	97	11.4	8.1	456	8.0	7.5	210
07 MAY	1300	7.2		.101	.077	753	96	12.1	7.9	391	6.5	5.0	160
22 AUG	1110	7.7	36	.215	.166	743	82	8.3	7.8	338	19.0	13.5	150
09	0920	.62	1.1	.016	.013	744	135	13.4	7.3	454	30.0	14.5	220
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLITED TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
29 FEB	50.8	20.3	1.68	10.3	201	18.2	<.2	7.6	20.0	267	256	<.030	.11
07 MAY	41.1	14.2	1.51	13.9	138	26.0	<.2	7.8	16.1	221	207	<.030	.24
22 AUG	34.0	14.9	1.34	10	137	16.5	<.2	5.0	13.4	204	180	.040	.48
09	53.3	21.3	1.46	13.1	199	23.9	<.2	7.8	18.8	277	267	.070	E.08
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV 29	.03	.30	1.43	<.003	1.5	1.7	.028	.004	.008	.3	<.1	1.3	.3
07	<.03	.32	.780	<.003	1.0	1.1	.121	.011	.021	.6	<.1	3.2	.6
MAY 22	.06	1.1	. 645	.004	1.1	1.8	.600	.035	.143	5.6	<.1	6.2	5.5
AUG 09	.08	.12	1.80	<.003		1.9	.077	E.003	<.004	.4	<.1	.74	.4

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
29	<1.0		15	<1
FEB				
07	<1.0		E8	3
MAY				
22	3.1	9.50	E9	44
AUG				
09	E1.5	2.20	E9	<1

E Estimated value.

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

DELAWARE RIVER BASIN

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0815	20	100	3600	15	1053	20	<100	2900
08	0745	70	<100	800	22	0850	80	<100	2100
					29	0845	230	200	660

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

01445900 HONEY RUN NEAR HOPE, NJ

LOCATION.--Lat 40°53'33", long 74°53'42", Warren County, Hydrologic Unit 02040105, at bridge on County Route 519 1.0 mi east of Swayzes Mills, 1.4 mi southwest of Hope, and 1.6 mi downstream of Hope Pond.

DRAINAGE AREA. -- 10.2 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
		(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)	(00915)
NOV													
16	1100		.178	.137	755	89	11.1	7.8	352	102211	5.5	140	36.2
FEB			12.4	120,				,					2375
22	1000		.076	.057	764	93	13.6	7.8	386	-4.5	.00	140	35.9
MAY		2.0				-		2.2					
16 AUG	1000	7.1	.146	.113	753	66	6.9	7.9	418	17.0	13.0	180	45.5
15	1000	4.3	.141	.107	756	44	3.8	7.8	384	23.0	22.5	180	42.7
13	1000			.107	750	**	3.0	7.0	304	23.0	44.5	100	44.7
				ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-	
	MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,	GEN, AM-	NITRO-
	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA	MONIA +	GEN,
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC	AMMONIA
-	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(MG/L) (70300)	(70301)	(00608)	(00623)	(00610)
	(00525)	(00333)	(00550)	(50410)	(00540)	(00330)	(00333)	(00545)	(,,,,,,,,	(70301)	(00000)	(00023)	(00010)
NOV													
16 FEB	12.3	2.88	13.2	122	23.0	<.2	9.6	22.1	202	193	<.030	.29	.03
22 MAY	12.0	1.38	17.6	110	35.4	<.2	5.1	21.7	210	198	<.030	.15	<.03
16	16.4	. 94	17.1	165	29.2	<.2	9.3	11.9	252	230	.100	.44	.10
AUG 15	16.9	1.71	12.5	164	20.8			10.1	218	213		.31	.12
15	10.9	1.71	12.5	104	20.8	<.2	9.4	10.1	218	213	<.030	.31	.12
	NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,	OXYGEN
	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
DATE	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	5 DAY (MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
16 FEB	.39	.064	<.003	.36	.46	.070	.020	.045	.5	<.1	5.1	.5	<1.0
22 MAY	.21	.687	<.003	.84	.90	.030	.007	.017	.4	<.1	2.3	.4	<1.0
16 AUG	.53	.253	.018	.69	.78	.100	.034	.069	.6	<.1	3.7	.6	E1.2
15	.34	.093	<.003	.40	.43	.073	.061	.083	.6	<.1	4.0	.6	<1.0

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
16		E11	18
FEB			
22		E11	5
MAY			
16	2.50	14	2
AUG			
15	9.00	17	<1

E Estimated value.

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

DELAWARE RIVER BASIN

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
AUG													
15	1000							E1	9.3	<.06	16	<.04	<1
15	1000	7.50	580	3.9	270	8.7	3.4						
DATE	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)	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)
AUG													
15	.6	200	<1	145	<.01	<1	<.4	<.05	2				
15										1	11	11	5.4
DATE	COPPER, RECOV. FM BOT- TOM MA- TERTAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
15													
15	13	18000	17	660	.03	<.1	<1	60	60	<50	50	E30	<50
DATE	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)	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)
AUG													
15 15	<50	110	320	310	260	180	260	360	60	650	210	<50	<50
DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/RG) (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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
15													
15	<50	E30	E30	<50	E40	<5	<50	E40	460	<50	<50	560	4

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

AUG 15... 15... 9

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

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB													
22	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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, UNFLITED 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)
FEB 22	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	TE	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)		
	FEE			1022	14				921				
	2	2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 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)
MAY 16	1000	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003	E.003	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLITRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 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)
MAY 16	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.002
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	6	<.011	<.016	<.034	<.005	<.009				

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

DELAWARE RIVER BASIN

01445900 HONEY RUN NEAR HOPE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1010	50	400	300	15	1100	790	800	520
08	0915	490	500	330	22	1030	700	<100	230
					29	1020	5400	1700	4000

< 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 bridge on County Route 619 in Belvidere, and 0.3 mi upstream from mouth.

DRAINAGE AREA. -- 158 mi2.

PERIOD OF RECORD. -- Water years 1957, 1962, 1976-82, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALI	TY DATA	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV 02 FEB	1230	61		.089	.068	757	110	12.6	8.4	530	20.0	9.0	240
13	1220	258	120	.113	.085	763	114	15.3	8.3	503	8.5	3.0	200
16 AUG	0910	109	4.8			755	97	10.3	8.4	540	21.0	12.0	230
09	1140	38	1.3	.073	.056	744	129	10.8	8.5	511	43.5	23.0	230
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV	20.5		2.22	22.0	223	200	100	12.0		202	200	1000	
02 FEB	53.9	25.0	1.95	17.9	209	34.0	<.2	7.0	22.3	302	294	.080	.24
13 MAY	47.1	20.1	1.48	20.3	177	41.4	<.2	7.6	24.0	290	274	.060	.23
16	53.6	23.8	1.70	17.3	210	34.4	E.1	7.1	21.6	348	292	<.030	.21
09	50.6	25.5	2.04	20.9	206	37.7	E.1	7.8	24.9	318	299	.040	
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L AS N) (00610)	TOTAL (MG/L AS N) (00625)	(MG/L AS N) (00631)	SOLVED (MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	(MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	(MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
NOV													
02 FEB	.05	.28	1.31	.016	1.5	1.6	<.022	.056	.062	.3	<.1	2.9	.3
13 MAY	.04	.43	1.28	.008	1.5	1.7	.046	.025	.050	.8	<.1	3.6	.8
16 AUG	<.03	.35	1.46	.036	1.7	1.8	.150	.050	.070	1.0	<.1	2.4	1.0
09	.08	. 37	1.37	.016		1.7	.066	.122	.132	.5	<.1	2.3	.5

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
02	E1.7		E13	5
FEB				
13	<1.0		14	11
MAY				
16	E1.4	3.80	E13	4
AUG				
09	E1.8	3.60	E13	3

E Estimated value.

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

DELAWARE RIVER BASIN

01446400 PEQUEST RIVER AT BELVIDERE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	1000	1300	500	840	15	0950	1400	1300	340
08	0940	460	200	410	22	1015	330	200	160
					29	1000	170	400	460

delaware river basin 365

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, PA, Hydrologic Unit 02040106, at 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 mi2.

PERIOD OF RECORD. -- Water years 1996 to September 2001 (discontinued).

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: May 1999 to June 1999, October 2000 to September 2001.

INSTRUMENTATION.--Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes), located 50 ft downstream from bridge.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).

For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the
"Introduction." Fish community for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + N DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC O	82 22.1 83 23.0 70 19.4 69 19.0 61 17.0 	5.0 1.2 4.1 3.7 5.7 	13.5 5.0 6.0 3.0	218 185 218 210	8.2 8.0 7.5 7.3	15.2 18.7 16.4	120 134 128	756 753	13 27	ENTAL	ENVIRONM	1020	12 NOV 06
NOV 06 1020 ENVIRONMENTAL 13 756 120 15.2 8.2 218 13.5 5.0 DEC 12 1310 ENVIRONMENTAL 27 753 134 18.7 8.0 185 5.0 1.2 FEB 06 1500 ENVIRONMENTAL 95 748 128 16.4 7.5 218 6.0 4.1 MAR 13 1020 ENVIRONMENTAL 346 743 100 12.8 7.3 210 3.0 3.7 APR 03 1119 FIELD BLANK	83 23.0 70 19.4 69 19.0 61 17.0 	5.0 1.2 4.1 3.7 5.7 	13.5 5.0 6.0 3.0	218 185 218 210	8.2 8.0 7.5 7.3	15.2 18.7 16.4	120 134 128	756 753	13 27	ENTAL	ENVIRONM	1020	NOV 06
DEC 12 1310 ENVIRONMENTAL 27 753 134 18.7 8.0 185 5.0 1.2 FEB 06 1500 ENVIRONMENTAL 95 748 128 16.4 7.5 218 6.0 4.1 MAR 13 1020 ENVIRONMENTAL 346 743 100 12.8 7.3 210 3.0 3.7 APR 03 1119 FIELD BLANK	70 19.4 69 19.0 61 17.0 	1.2 4.1 3.7 5.7 20.4	5.0 6.0 3.0	185 218 210 187	8.0 7.5 7.3	18.7 16.4	134 128	753	27				
12 1310 ENVIRONMENTAL 27 753 134 18.7 8.0 185 5.0 1.2 FEB 06 1500 ENVIRONMENTAL 95 748 128 16.4 7.5 218 6.0 4.1 MAR 13 1020 ENVIRONMENTAL 346 743 100 12.8 7.3 210 3.0 3.7 APR 03 1119 FIELD BLANK 03 1120 ENVIRONMENTAL 157 754 106 13.1 7.5 187 14.5 5.7 03 1121 SPLIT REPLICATE MAY 07 1450 ENVIRONMENTAL 27 761 142 12.8 8.6 196 21.5 20.4 JUN 05 1420 ENVIRONMENTAL 75 760 8.6 198 26.0 20.0 05 1421 SPLIT REPLICATE 26 1400 ENVIRONMENTAL 184 757 7.6 201 29.0 19.7 AUG 20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5	69 19.0 61 17.0 	4.1 3.7 5.7 20.4	6.0 3.0 14.5	218 210 187	7.5 7.3	16.4	128			ENTAL	ENVIRONM	1310	DEC
06 1500 ENVIRONMENTAL 95 748 128 16.4 7.5 218 6.0 4.1 MAR 13 1020 ENVIRONMENTAL 346 743 100 12.8 7.3 210 3.0 3.7 APR 03 1119 FIELD BLANK	61 17.0 	3.7 5.7 20.4	3.0 14.5	210 187	7.3			748	95			1310	12
13 1020 ENVIRONMENTAL 346 743 100 12.8 7.3 210 3.0 3.7 APR 03 1119 FIELD BLANK	73 20.3 75 20.7 75 20.6 72 19.8	5.7 20.4	14.5	 187		12.8	100			ENTAL	ENVIRONM	1500	
APR 03 1119 FIELD BLANK	73 20.3 75 20.7 75 20.6 72 19.8	5.7 20.4	14.5	 187		12.0		742	246	TENTON T	PARITDONIM	1020	
03 1120 ENVIRONMENTAL 157 754 106 13.1 7.5 187 14.5 5.7 03 1121 SPLTT REPLICATE	73 20.3 75 20.7 75 20.6 72 19.8	20.4		187			100	743	340	ENTAL	ENVIRONM	1020	
03 1121 SPLIT REPLICATE	73 20.3 75 20.7 75 20.6 72 19.8	20.4			7 5					LANK	FIELD BL	1119	03
MAY 07 1450 ENVIRONMENTAL 27 761 142 12.8 8.6 196 21.5 20.4 JUN 05 1420 ENVIRONMENTAL 75 760 8.6 198 26.0 20.0 05 1421 SPLIT REPLICATE 26 1400 ENVIRONMENTAL 184 757 7.6 201 29.0 19.7 AUG 20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5 ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHLO- FLUO- SILICA, GEN, AM- CONTROL SILICA, SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + BICAR- RIDE, RIDE, DIS- SULFATE MONIA + BICAR- BICAR- RIDE, RIDE, DIS- SULFATE MONIA + BICAR- BICAR- BICAR- CAR- SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + BICAR- BICAR- BICAR- BICAR- BICAR- CAR- BICAR- BICAR- CAR- BICAR- BICAR	73 20.3 75 20.7 75 20.6 72 19.8	20.4			1.5	13.1	106	754	157	ENTAL	ENVIRONM	1120	03
07 1450 ENVIRONMENTAL 27 761 142 12.8 8.6 196 21.5 20.4 JUN 05 1420 ENVIRONMENTAL 75 760 8.6 198 26.0 20.0 05 1421 SPLIT REPLICATE 7.6 201 29.0 19.7 26 1400 ENVIRONMENTAL 184 757 7.6 201 29.0 19.7 AUG 20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5 ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHIO- FLUO- SILICA, GEN, AM- CAR- SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + N DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC CORGANIC CORGANIC CORP.	75 20.7 75 20.6 72 19.8					77.22				EPLICATE	SPLIT RE	1121	
05 1420 ENVIRONMENTAL 75 760 8.6 198 26.0 20.0 05 1421 SPLIT REFLICATE	75 20.6 72 19.8	20.0	21.5	196	8.6	12.8	142	761	27	ENTAL	ENVIRONM	1450	
05 1421 SPLIT REPLICATE 26 1400 ENVIRONMENTAL 184 757 7.6 201 29.0 19.7 AUG 20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5 ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHIO- FLUO- SILICA, GEN, AM- CAR- SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + B DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC CAR- DIS- DIS- DIS- TOT IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC CAR- ROMAN CAR- SIUM SIUM SODIUM WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + B DIS- DIS- DIS- TOT IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC CAR- ROMAN CAR- SIUM SIUM SODIUM WATER WATER RIDE, RIDE, DIS- SOLVED DIS- ORGANIC CAR- DIS- DIS- DIS- TOT IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC CAR- ROMAN	75 20.6 72 19.8	20.0	26.0	100	0 6			760	75	TENTO A T	PAR/TROAM	1420	
26 1400 ENVIRONMENTAL 184 757 7.6 201 29.0 19.7 AUG 20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5 ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHLO- FLUO- SILICA, GEN, AM- COLOR SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA DIS- DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC COMPANDANCE COMPANDAN	72 19.8		20.0										
20 1040 ENVIRONMENTAL 9.4 747 141 11.5 8.4 220 27.5 24.5 ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHLO- FLUO- SILICA, GEN, AM- C SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + B DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC C	84 23.1	19.7	29.0										
ALKA- BICAR- CAR- MAGNE- POTAS- LINITY BONATE BONATE CHLO- FLUO- SILICA, GEN,AM- C SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + B DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC C	84 23.1												AUG
MAGNE- POTAS- LINITY BONATE BONATE CHLO- FLUO- SILICA, GEN,AM- C SIUM, SIUM, SODIUM, WAT DIS WATER WATER RIDE, RIDE, DIS- SULFATE MONIA + N DIS- DIS- DIS- TOT IT DIS IT DIS IT DIS- DIS- SOLVED DIS- ORGANIC C		24.5	27.5	220	8.4	11.5	141	747	9.4	ENTAL	ENVIRONM	1040	20
DATE (MG/L (MG/L MG/L AS MG/L AS MG/L AS (MG/L (MG/L AS (MG/L (MG/L AS MG) AS K) AS NA) CACO3 HCO3 CO3 AS CL) AS F) SIO2) AS SO4) AS N)	NITRO- SEN, AM- GEN, MONIA + AMMONIA ORGANIC DIS- TOTAL SOLVED (MG/L (MG/L AS N) AS N) (00625) (00608)	GEN, AM-GI MONIA + MO ORGANIC OI DIS. (MG/L AS N)	SULFATE DIS- SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L AS SIO2)	RIDE, DIS- SOLVED (MG/L AS F)	RIDE, DIS- SOLVED (MG/L AS CL)	BONATE WATER DIS IT FIELD MG/L AS CO3	BONATE WATER DIS IT FIELD MG/L AS HCO3	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	DIS- SOLVED (MG/L AS NA)	SIUM, DIS- SOLVED (MG/L AS K)	SIUM, DIS- SOLVED (MG/L AS MG)	DATE
OCT													OCT
12 6.53 1.62 6.0 48 59 11.8 <.2 3.2 21.0 .22	.25 <.041	.22	21.0	3.2	<.2	11.8	24	59	48	6.0	1.62	6.53	12
NOV 06 6.21 1.60 6.3 46 57 11.2 E.1 2.0 21.4 .14	.45 <.041	.14	21.4	2.0	E.1	11.2	14	57	46	6.3	1.60	6.21	06
DEC 12 5.26 1.16 5.6 10.3 <.2 5.3 20.8 .12	.12 <.041	.12	20.8	5.3	<.2	10.3				5.6	1.16	5.26	12
FEB 06 5.18 1.21 10.9 22 27 21.9 <.2 6.7 19.0 .18	.20 <.041	.18	19.0	6.7	<.2	21.9		27	22	10.9	1.21	5.18	
MAR 13 4.42 1.39 12.7 23 28 26.0 <.2 5.0 16.4 .24	.84 E.025									12.7	1 20	4 42	MAR
APR								20					APR
03	77.							1.77					
03 5.03 1.05 6.8 21 26 13.8 <.2 5.8 18.0 .15	.18 <.041												
03				7.7	=	25		7.7	-77	77		77	
07 5.52 1.12 6.8 38 46 13.8 <.2 2.9 19.1 .18	.24 <.041	.18	19.1	2.9	<.2	13.8		46	38	6.8	1.12	5.52	07
05 5.74 1.00 6.8 33 37 1 14.0 <.2 6.0 18.8 .14	20 4 040	.14	18.8	6.0	<.2	14.0	1	37	33	6.8	1.00	5.74	
	.20 <.040												
	.20 <.040 .25 <.040								30				26
	.25 <.040	.18	17.5		17.12								
		.18	17.5					٠,				7.7.	

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

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
12 NOV	3.3	3.2	3.02	E.004		E.003	<.018	.020			1.9	<.2	118
06 DEC	3.3	3.0	2.90	.006	7-	E.005	E.009	.020			1.6	<.2	118
12 FEB	4.2	4.2	4.12	E.005	+	E.005	<.018	.008			1.1		107
06 MAR	5.7	5.6	5.46	.008	<.022	.008	<.018	.014	.4		1.2		123
13 APR	4.6	4.0	3.79	.006	.500	.010	<.018	.178	4.6	<.1	2.9	4.6	127
03	-12				.087		22		.1	<.1	<.15	.1	
03	5.7	5.6	5.50	E.005	.040	E.005	<.018	.012	E.4	<.1	1.1	E.4	115
03					.098				. 3	<.1	1.0	.3	
MAY													
07 JUN	3.4	3.4	3.19	.011	.087	.007	<.018	.013	E.7	<.1	1.6	E.7	108
05	4.7	4.6	4.48	.011	.038	.007	<.020	.016	.3	<.1	1.8	.3	117
05	4.8	4.7	4.53	.011		.007	<.020	.016					131
26 AUG	5.2	5.1	5.03	.028	.052	.015	<.020	.026	.6	<.1	4.2	.6	133
20	1.9	1.9	1.65	.013	.050	E.004	<.020	.013	.3	<.1	2.8	.3	127

	SOLIDS, SUM OF	TUR- BID-			MANGA-	SEDI- MENT,	
	CONSTI-	ITY	BORON,	IRON,	NESE,	DIS-	SEDI-
	TUENTS,	FIELD	DIS-	DIS-	DIS-	CHARGE,	MENT,
	DIS-	WATER	SOLVED	SOLVED	SOLVED	SUS-	SUS-
DATE	SOLVED	UNFLTRD	(UG/L	(UG/L	(UG/L	PENDED	PENDED
	(MG/L)	(NIU)	AS B)	AS FE)	AS MN)	(T/DAY)	(MG/L)
	(70301)	(61028)	(01020)	(01046)	(01056)	(80155)	(80154)
OCT							
12	114	<2.0	E12	10	5.8	.64	15
NOV							
06	112	<2.0	13	10	3.6	.40	11
DEC							
12	106	3.3	E9	M	5.2	.23	3
FEB							
06	121	9.4	E10	<10	6.3	1.7	7
MAR							
13	114	150	E6	40	11.3	147	158
APR							
03							
03	105	6.7	16	M	6.2	2.4	6
03							
MAY							
07	107		E6	20	6.9		<1
JUN							
05	113		E10	30	5.5	1.1	5
05			E12	20	4.8		6
26	111	10	E12	10	6.3	3.3	7
AUG		3, 70			200		
20	117	4.7	15	20	E2.6	.03	1

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 12	0850	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

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

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L (32104	SUI WA WA TO (UC	OLE BEI	LORO- NZENE N FAL G/L)	DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	-II CHI ETH WA TO (UG	TER I	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLO DI- FLUO METH TOTA (UG/ (346	RO- I RO- I ANE UI L RI L) (1	ETHER ETHYL WATER NFL/TRD ECOVER UG/L) 81576)	PENT METH UNFT RECO	HYL LTRD OVER	ETHYL- BENZEI TOTAI (UG/L)	UNFLTRD REC (UG/L)
OCT 12	<.04	<.06	۷,	07 <	.03	<.2	<.02	۷.	04	<.05	۷.	3	<.2	<	,1	<.03	<.06
DATE	TET	TRA- TORO- BOTER ENTED WADDVER	THYL ERT- UTYL THER T UNF REC G/L) 8032)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYI ENE CHLO- RIDE TOTAL (UG/L) (34423	XYLE WAT UNFI RE (UG	RA- CHL ENE TOL TER WA TRD WH EC TO	ORO- UENE TER OLE TAL (/L) 275)	O- XYLENI WATEI WHOLI TOTAI (UG/L) (7713	R WATE WHO L REC	PYL- JENE JER OLE (L)	TETRA- CHLORO ETHYL- ENE TOTAL (UG/L) (34475	TOLU TOI (UG/	'L)	TRI- CHLOI ETHYI ENI TOTI (UG,	RO- CE L- FI E ME AL C	TRI- LLORO- LUORO- ETHANE POTAL JG/L) 14488)
OCT 12	<2		<.2	<.2	<.2	<.0	06 <.	03	<.04	<.0	17	<.1	E.0	12	<.04		.09

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

DATE	TIME	SAME TYP		ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
OCT													
12	0850	ENVIRONM	MENTAL	<.004	<.002	<.005	.016	<.010	<.041	<.020	<.005	<.018	<.003
FEB 06	1500	ENVIRONM	AENTTAT.	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005	<.018	<.003
APR	1500	FIALTHOM	LENIAL	V.004	1.002	1.005	E.002	1.010	1.041	1.020	1.005	1.010	1.003
03	1119	FIELD BI	LANK	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003
03	1120	ENVIRONM	MENTAL	<.004	<.005	<.005	.026	<.010	<.041	<.020	<.005	<.018	<.003
03	1121	SPLIT RE	EPLICATE	<.004	<.004	<.005	.021	<.010	<.041	<.020	<.005	<.018	<.003
MAY													
07 JUN	1450	ENVIRONM	ENTAL	<.004	<.002	<.005	.022	<.010	<.041	<.020	<.005	<.018	<.003
05	1420	ENVIRONM	MENTAL	<.004	<.002	<.005	.060	<.010	<.041	<.020	<.005	<.018	<.003
26	1400	ENVIRONM		.005	<.002	<.005	.177	<.010	<.041	<.020	<.005	<.018	<.003
AUG				4355	131,545.		3733			1000			44.5
20	1040	ENVIRONM	ENTAL	<.004	<.002	<.005	.025	<.010	<.041	<.020	<.005	<.018	<.003
DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)	DI- ELDRIN DIS- SOLVED (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLITD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV
	(04040)	(39572)	(39381)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82671)	(82684)	(34653)
OCT													
12	E.016	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003
FEB	10.444		0.0242	121								112	
06	<.006	<.015	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003
APR 03	<.006	- 005	- 005	<.002	- 004	- 025	- 007	050	- 012	- 000	- 000	- 007	<.003
03	E.027	<.005	<.005	<.002	<.004	<.035 <.035	<.027	<.050	<.013 .026	<.006	<.008 <.010	<.007	<.003
03	E.020	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.024	<.006	<.002	<.007	<.003
MAY	E. 020	1.005	<.005	<.002	<.004	<.035	<.027	<.050	.024	<.000	<.002	4.007	<.003
07	E.013	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003
JUN	2.023		1.003			1.033	1.04/	1.050	1.011		1.002	1.007	
05	E.030	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.032	<.006	<.002	<.007	<.003
26	E.025	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.154	<.006	<.002	<.007	E.002
AUG													
20	E.012	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.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 2000 TO SEPTEMBER 2001

	PENDI- METH- ALIN WAT FLT	PRO- METON, WATER,	SI- MAZINE, WATER,	TEBU- THIURON WATER FLTRD	TER- BACIL WATER FLTRD	THIO- BENCARB WATER FLTRD	ALIN WAT FLT
DATE	0.7 U GF, REC (UG/L) (82683)	DISS, REC (UG/L) (04037)	DISS, REC (UG/L) (04035)	0.7 U GF, REC (UG/L) (82670)	0.7 U GF, REC (UG/L) (82665)	0.7 U GF, REC (UG/L) (82681)	0.7 U GF, REC (UG/L) (82661)
OCT							
12 FEB	<.010	E.002	.016	<.016	<.034	<.005	<.009
06	<.010	<.015	<.011	<.016	<.034	<.005	<.009
APR							
03	<.010	<.015	<.011	<.016	<.034	<.005	<.009
03	<.010	<.015	<.011	<.016	<.034	<.005	<.009
03	<.010	<.015	E.006	<.016	<.034	<.005	<.009
MAY							
07	<.010	E.007	.616	<.016	<.034	<.005	<.009
JUN							
05	<.010	<.015	.064	<.016	<.034	<.005	<.009
26	<.010	<.015	E.009	<.016	<.034	<.005	<.009
AUG							
20	<.010	<.015	.012	<.016	<.034	<.005	<.009

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	1	N	OVEMBER		Di	ECEMBER			JANUARY	
1				10.5	5.0	7.5	4.5	2.0	3.0	.0	.0	.0
2				10.5	5.0	7.5	2.5	.0	1.0	.0	.0	.0
3				10.5	5.0	8.0	.5	.0	.0	.0	.0	.0
4				11.0	7.5	9.0	.0	.0	.0	.0	.0	.0
5				9.5	6.0	7.5	.0	.0	.0	.0	.0	.0
6	222			9.0	3.5	6.0	.5	.0	.0	.0	.0	.0
7				9.0	3.5	6.0	.0	.0	.0	.0	.0	.0
8				9.5	5.0	7.5	.5	.0	.0	.0	.0	.0
9				10.5	8.5	9.5	.5	.0	.0	.5	.0	.0
10				12.0	10.5	11.0	.0	.0	.0	.0	.0	.0
11				11.5	8.5	10.0	.5	.0	.0	.0	.0	.0
12				10.0	7.0	8.5	1.5	.0	.5	.5	.0	.0
13	14.5	7.5	11.0	10.0	8.0	9.0	.0	.0	.0	.5	.0	.0
14	15.5	9.0	12.0	9.5	6.5	9.0	.5	.0	.0	.0	.0	.0
15	16.5	10.0	13.0	7.0	4.5	5.5	1.0	.0	.5	.0	.0	.0
16	14.5	13.0	13.5	6.0	3.5	5.0	2.0	.0	1.0	.5	.0	.0
17	14.0	12.0	13.0	7.5	4.0	5.5	7.0	1.5	5.0	.0	.0	.0
18	14.0	12.0	13.0	5.0	3.0	4.0	5.0	3.0	3.5	.0	.0	.0
19	14.5	10.5	12.0	4.0	1.5	2.5	3.5	2.5	3.0	.0	.0	.0
20	14.0	7.5	10.5	2.5	.0	1.0	3.0	.5	2.0	.0	.0	.0
21	15.0	8.5	11.5	2.0	.0	.5	1.5	.0	.5	.0	.0	.0
22	14.5	9.5	11.5	1.0	.0	.0	2.5	.0	1.0	.0	.0	.0
23	12.5	6.5	9.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
24	12.0	7.5	9.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
25	15.0	9.0	11.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	14.5	9.5	12.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0
27	15.0	9.5	12.0	6.0	3.0	4.5	.0	.0	.0	.0	.0	.0
28	14.0	8.0	11.5	7.0	5.0	6.0	.0	.0	.0	.0	.0	.0
29	10.0	5.5	7.5	6.0	3.5	4.5	.0	.0	.0	.0	.0	.0
30	9.5	5.0	7.0	6.0	4.0	5.0	.0	.0	.0	.0	.0	.0
31	10.5	5.0	7.0				.0	.0	.0	.5	.0	.0
MONTH				12.0	.0	5.4	7.0	.0	.7	.5	.0	.0

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

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPER	RATURE,	WATER (DEG.	c), 1	WATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
			0.12			1.2				22.0	11 5	16.5
1 2	2.5	1.5	1.0	3.5 5.0	2.0	2.5 3.5				22.0	11.5	18.5
3	2.5	.0	1.0	6.5	4.0	5.0				23.5	15.5	19.5
4	3.0	.0	1.0	4.5	.0		12.0	6.0	9.0	25.5	17.0	21.0
5	1.5	.0	. 5	2.0	.0	.5	12.5	5.0	9.0	22.0	16.5	19.5
6	4.0	.0	2.5	4.0	.0	2.0	9.5	7.0	8.0	22.0	12.0	16.5
7	5.5	2.0	3.5	7.0	1.5	4.0	9.0		8.0	21.5	11.0	15.5
8	3.5	1.0	2.0	6.0	2.5	4.0	8.5 17.0	7.0 8.0	7.5	20.5	11.5	15.5 17.0
9 10	5.5	2.5	3.5 4.0	7.0	1.5	4.0	16.0		14.0	23.0	13.0	17.5
							40.5			25.0	14 5	19.0
11 12	2.5	.0	1.5	5.5 7.0	1.5		13.5 11.0	10.0 9.5	11.5	25.0 22.5	14.5 16.5	19.0
13	6.0	2.0	3.5	5.0	3.5	4.5	17.0		13.0	22.5	14.0	17.5
14	4.0	3.0	3.5	7.0	4.5	5.5	16.5		12.5	19.5	12.0	15.5
15	5.0	4.0	4.5	6.0	3.5	5.0	14.0	9.0	12.0	22.0	11.0	15.5
16	4.0	3.5	3.5	7.5	5.0	6.5	12.5	10.5	11.5	22.5	11.5	16.0
17	5.0	1.0	3.5	6.5	5.0	6.0	10.5		9.0	16.5	13.5	14.5
18 19	2.5	.0	1.0	8.0 8.5	3.0		11.5 12.5		8.0	14.0 24.5	13.0	13.5 18.0
20	5.0	2.0	3.0	8.5	3.0		10.5		8.5	19.0	15.5	17.0
									11 0	15 5	12.0	14.0
21 22	1.5	1.5	4.0	7.0	5.5		13.0 19.0		11.0 14.5	15.5 15.5	13.0 13.0	14.5
23	1.0	.0	.5	9.5	4.5	6.5	21.5		17.5	19.5	14.5	16.5
24	2.0	.0	1.0	7.5		6.0	20.5		17.5	23.0	15.5	18.5
25	2.0	1.0	1.5	7.5	2.5	5.0	15.0	11.0	13.0	18.5	15.5	17.0
26	6.0	2.0	3.5				17.0	7.5	12.0	15.5	14.5	15.0
27	5.5	1.5	3.5				18.5		13.5	16.5	14.0	15.0
28	5.5	2.5	4.0				18.0 17.5		14.0	18.0 17.0	14.0	15.5 15.0
29 30							19.0		14.0	17.5	13.5	15.0
31										18.0	11.5	14.5
MONTH	6.0	.0	2.3	9.5	.0	4.6	21.5	5.0	11.6	25.5	11.0	16.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN	MAX	MIN	MEAN	MAX	MIN SEPTEMBE	
		JUNE			JULY			AUGUST			SEPTEMBE	ER
1	14.5	JUNE 11.5	13.0	24.0	JULY 19.5	21.5	27.5	AUGUST	22.5	26.5	SEPTEMBE 20.0	ER 23.0
1 2	14.5 16.5	JUNE 11.5 12.5	13.0 14.5	24.0 22.0	JULY 19.5 16.5	21.5 19.0	27.5 28.5	AUGUST 18.0 19.5			SEPTEMBE	ER
1 2 3 4	14.5 16.5 16.5 17.5	JUNE 11.5 12.5 14.0 13.0	13.0 14.5 15.5 15.0	24.0 22.0 21.0 22.5	JULY 19.5 16.5 14.5 17.5	21.5 19.0 18.0 20.0	27.5 28.5 27.0 26.0	18.0 19.5 21.0 21.0	22.5 23.5 23.5 23.5	26.5 24.0 24.5 24.0	20.0 16.0 15.5 18.5	23.0 19.5 19.5 21.0
1 2 3	14.5 16.5 16.5	JUNE 11.5 12.5 14.0	13.0 14.5 15.5	24.0 22.0 21.0	JULY 19.5 16.5 14.5	21.5 19.0 18.0 20.0	27.5 28.5 27.0	18.0 19.5 21.0 21.0	22.5 23.5 23.5 23.5	26.5 24.0 24.5	20.0 16.0 15.5	23.0 19.5 19.5
1 2 3 4	14.5 16.5 16.5 17.5	JUNE 11.5 12.5 14.0 13.0	13.0 14.5 15.5 15.0	24.0 22.0 21.0 22.5	JULY 19.5 16.5 14.5 17.5	21.5 19.0 18.0 20.0 20.5	27.5 28.5 27.0 26.0	AUGUST 18.0 19.5 21.0 21.0	22.5 23.5 23.5 23.5	26.5 24.0 24.5 24.0	20.0 16.0 15.5 18.5	23.0 19.5 19.5 21.0
1 2 3 4 5	14.5 16.5 16.5 17.5 20.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5	13.0 14.5 15.5 15.0 16.5	24.0 22.0 21.0 22.5 23.5	JULY 19.5 16.5 14.5 17.5 18.5	21.5 19.0 18.0 20.0 20.5	27.5 28.5 27.0 26.0 28.0	18.0 19.5 21.0 21.0 21.0 23.0	22.5 23.5 23.5 23.5 24.0 25.5 26.5	26.5 24.0 24.5 24.0 25.0	20.0 16.0 15.5 18.5 17.5	23.0 19.5 19.5 21.0 20.5
1 2 3 4 5	14.5 16.5 16.5 17.5 20.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5	13.0 14.5 15.5 15.0 16.5	24.0 22.0 21.0 22.5 23.5 22.5 23.5 20.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5	21.5 19.0 18.0 20.0 20.5 19.5 19.0	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0	18.0 19.5 21.0 21.0 21.0 23.0 24.0	22.5 23.5 23.5 24.0 25.5 26.5 27.5	26.5 24.0 24.5 24.0 25.0 25.0	20.0 16.0 15.5 18.5 17.5	23.0 19.5 19.5 21.0 20.5
1 2 3 4 5	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 15.5 14.5 14.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 18.0	24.0 22.0 21.0 22.5 23.5 22.5 23.5 20.5 26.0	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5	21.5 19.0 18.0 20.0 20.5 19.5 19.5 19.5 22.0	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0	18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0	22.5 23.5 23.5 24.0 25.5 26.5 27.5	26.5 24.0 24.5 24.0 25.0	20.0 16.0 15.5 18.5 17.5	23.0 19.5 19.5 21.0 20.5
1 2 3 4 5 6 7 8 9	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 18.0 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5	21.5 19.0 18.0 20.0 20.5 19.5 19.0 19.5 22.0	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 32.0	18.0 19.5 21.0 21.0 22.0 23.0 24.0 23.0 25.5	22.5 23.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5	26.5 24.0 24.5 24.0 25.0 25.0 25.5 25.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 18.5 20.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0
1 2 3 4 5 6 7 8 9 10	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5	21.5 19.0 18.0 20.0 20.5 19.5 19.5 22.0 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5	18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5	22.5 23.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0	26.5 24.5 24.0 25.0 25.0 25.5 25.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0
1 2 3 4 5 6 7 8 9 10	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5	21.5 19.0 18.0 20.0 20.5 19.5 19.5 19.5 22.0 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 32.0 29.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 24.0 23.0 25.5	22.5 23.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5	26.5 24.0 24.5 24.0 25.0 25.0 25.5 25.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 18.5 20.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0
1 2 3 4 5 6 7 8 9 10	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 26.5 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.0 17.6 19.0 17.5 16.5 15.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0	18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5 22.0 21.5 22.0 21.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5
1 2 3 4 5 6 7 8 9 10	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5 16.0 17.0 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5	24.0 22.0 21.0 22.5 23.5 20.5 26.0 25.5 24.0 20.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 32.0 29.5 25.5 24.0 27.5	18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5 22.0 21.5 22.0 21.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 18.5 20.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 26.5 27.0 25.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0 22.5	24.0 22.0 21.0 22.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5 19.5 19.6 17.5 16.5	21.5 19.0 18.0 20.0 20.5 19.5 19.0 19.5 22.0 22.5 21.5 20.5 18.5 19.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 20.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.5	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5
1 2 3 4 5 6 7 8 9 10	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 26.5 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 23.0 22.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5	JULY 19.5 16.5 14.5 17.0 15.5 18.5 18.5 19.5 19.6 17.5 16.5 16.0 17.0	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 24.0 27.5 28.0 28.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5 24.5	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.5 24.5 24.0 20.0 20.5	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5 15.5 12.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 19.5 19.5 19.5
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 27.0 25.5 27.0 23.0 23.0 24.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5	24.0 22.0 21.0 22.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 23.5	JULY 19.5 16.5 14.5 17.0 15.5 18.5 19.0 17.0 17.0 17.0 17.0 17.0 19.5	21.5 19.0 18.0 20.0 20.5 19.5 19.0 19.5 22.0 22.5 21.5 20.5 18.5 19.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 28.0 28.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 20.5 20.5 20.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5 24.5 24.0	26.5 24.0 24.5 24.0 25.0 25.5 24.5 24.5 24.0 20.0 20.5 20.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 15.5 15.5 15.5 12.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 22.0 25.5 26.5 27.0 25.5 23.0 23.0 24.5 25.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 17.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0 22.5 20.5 20.5 21.5	24.0 22.0 21.0 22.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 23.5	JULY 19.5 16.5 14.5 17.5 18.5 17.0 15.5 18.5 19.5 19.5 16.5 17.0 17.0 17.5 20.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 20.5 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 28.0 27.5 26.0 27.5	18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 25.5 22.5 20.5 20.5 20.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 22.5 24.5 24.5 24.5 24.0 24.5 23.6	26.5 24.0 24.5 24.0 25.0 25.5 25.5 24.5 24.5 24.0 20.0 20.5 21.0	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5 15.5 12.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 19.5 19.5 19.5
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 22.0 25.5 27.0 25.5 27.0 23.0 24.5 25.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 17.0 19.0 20.5 21.0 20.5 17.5 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 19.0 22.5 23.0 22.5 20.5 20.5 22.0	24.0 22.0 21.0 22.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 23.5 27.5 26.5 27.0 28.0	JULY 19.5 16.5 14.5 17.0 15.5 18.5 17.0 15.5 18.5 19.0 17.5 16.5 16.5 16.0 17.0 19.5 20.5 20.0	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 23.0 23.0 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 28.0 27.5 26.0 27.0 29.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 20.5 20.5 20.5 22.5 22.5	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5 24.5 24.0 24.5 23.0 23.5 25.0	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.0 20.0 20.5 20.5 21.0 19.5 21.0	20.0 16.0 15.5 18.5 17.5 15.0 17.0 15.0 17.0 15.5 15.5 12.5 12.5 12.5 12.5 14.0 14.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 22.0 25.5 26.5 27.0 25.5 23.0 24.5 25.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 17.5 19.0 19.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 23.5 27.5 26.5 27.0 28.0	JULY 19.5 16.5 17.5 17.5 18.5 17.0 15.5 18.5 19.5 19.5 16.0 17.0 17.0 19.5 20.5 20.5 20.5 17.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 20.5 22.5 20.5 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 29.5	18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 25.5 22.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 22.5 24.5 24.5 24.5 24.0 24.5 23.5 23.5 23.5	26.5 24.0 24.0 25.0 25.5 25.5 24.5 24.0 20.0 20.0 20.5 21.0 19.5 21.0 18.0	20.0 16.0 15.5 18.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 15.5 15.5 12.5 12.5 12.5 14.0 17.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0
1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	14.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 23.0 24.5 25.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5 20.5 22.0 22.0	24.0 22.0 21.0 22.5 23.5 23.5 26.0 25.5 26.0 25.5 27.5 27.5 28.0 27.5 27.0	JULY 19.5 16.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.5 16.0 17.0 19.5 20.5 20.5 21.5 5 18.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 23.0 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 24.0 27.5 28.0 27.5 26.0 27.5 26.0 27.5	18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.0	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.0 23.5 24.5 24.5 24.5 24.0 24.5 23.0 23.5 22.5	26.5 24.0 24.5 24.0 25.0 25.5 25.5 24.5 24.5 24.0 20.0 20.5 20.5 21.0 18.0	20.0 16.0 15.5 18.5 17.5 15.0 17.0 15.0 17.0 15.5 15.5 12.5 12.5 12.5 12.5 14.0 14.0	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 23.0 24.5 25.5 26.5 25.5 21.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 27.5 26.5 27.0 28.0	JULY 19.5 16.5 17.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.0 17.0 17.5 16.5 16.0 17.0 17.5 18.5 18.5 18.5 18.5 18.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 2	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 29.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 21.5 22.5 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 22.5 24.5 24.5 24.5 24.0 24.5 23.5 23.5 23.5 24.0	26.5 24.0 24.0 25.0 25.5 24.5 24.5 24.5 24.0 20.0 20.5 21.0 19.5 21.5 21.5 21.5 21.5 21.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 14.0 17.5	23.0 19.5 19.5 21.0 20.5 19.0 21.5 22.0 20.5 19.5 19.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0 18.5
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	14.5 16.5 16.5 17.5 20.5 19.0 22.0 22.5 21.0 22.5 22.5 23.0 24.5 25.5 26.5 23.0 24.5 25.5 26.5 23.0 24.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 19.0 20.5 21.0 20.5 17.5 19.0 19.5 17.5 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0 21.0 19.5 21.0	24.0 22.0 21.0 22.5 23.5 23.5 26.0 25.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 26.5 27.0 29.0	JULY 19.5 16.5 14.5 17.0 15.5 18.5 17.0 17.5 18.5 19.5 19.0 17.5 16.5 16.5 16.5 17.0 17.0 19.5 20.5 20.0 18.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 2	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 24.0 27.5 28.0 27.5 26.0 27.0 29.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 21.5 22.5 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5 24.5 24.0 24.5 23.0 23.5 23.0 23.5	26.5 24.0 24.0 25.0 25.0 25.5 24.5 24.5 24.0 20.0 20.5 20.5 21.0 19.5 21.0 20.5 21.0	20.0 16.0 15.5 18.5 17.5 15.0 17.0 15.0 17.0 15.5 15.5 12.5 12.5 12.5 14.0 14.0 17.5	23.0 19.5 19.5 21.0 20.5 19.0 21.5 22.0 20.5 19.5 19.5 19.5 19.5 18.0 16.5 17.5 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 23.0 24.5 25.5 26.5 25.5 21.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 21.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 27.5 26.5 27.0 28.0	JULY 19.5 16.5 17.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.0 17.0 17.5 16.5 16.0 17.0 17.5 18.5 18.5 18.5 18.5 18.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 23.0 23.0 22.5 22.5 23.0 23.0 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 29.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 22.5 20.5 20.5 20.5 20.5 20.5 20.7 20.5 20.9 20.9 20.9 20.9 20.9 20.9	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 22.5 24.5 24.5 24.5 24.0 24.5 23.5 23.5 22.5 23.5 24.5 24.5 24.5 24.0	26.5 24.0 24.0 25.0 24.0 25.5 24.5 24.5 24.0 20.0 20.5 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0 18.5 18.5 19.5
1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	14.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 27.0 25.5 26.5 23.0 24.5 25.5 26.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 15.5 14.5 14.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 16.5 16.5 16.5 17.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 21.5 20.5 22.5 21.5 22.0 22.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 27.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0	JULY 19.5 16.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.5 16.0 17.0 17.5 18.5 18.5 20.5 20.5 20.5 21.5 23.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 23.0 22.5 23.0 22.5 22.0 23.5 22.0 23.5 22.0	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 27.5 26.0 27.5 22.0 27.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5 22.0 21.5 22.0 21.5 22.0 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.0 23.5 24.5 24.5 24.0 24.5 23.0 24.5 23.0 23.5 21.0 22.5 21.0	26.5 24.0 24.5 24.0 25.0 25.5 25.5 24.5 24.0 20.0 20.5 21.0 19.5 21.5 22.5 19.5 19.0	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5 12.5 14.0 17.5 14.0 17.5 16.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 16.5 17.5 18.0 18.5 19.0
1 2 3 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	14.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 22.5 27.0 25.5 27.0 24.5 25.5 26.5 23.0 24.5 25.5 26.5 23.0 21.0 19.0 25.5 26.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 19.0 20.5 21.0 20.5 17.5 19.0 17.5 19.0 19.5 17.5 16.5 16.5 16.5 16.5 17.0 18.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 19.0 22.5 23.0 22.5 20.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 22	24.0 22.0 21.0 22.5 23.5 23.5 26.0 25.5 26.0 20.5 21.5 23.5 27.0 28.0 27.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0	JULY 19.5 16.5 17.0 18.5 17.0 15.5 18.5 19.0 17.5 16.5 19.0 17.5 16.5 17.0 17.5 18.5 20.5 20.0 18.5 21.5 23.5 21.0 18.0	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 23.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22	27.5 28.5 27.0 28.0 29.5 31.0 32.0 29.5 24.0 27.5 28.0 27.5 26.0 27.0 27.0 27.0 27.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 24.0 23.0 25.5 22.0 21.5 22.0 21.5 22.5 20.5 20.5 20.5 19.0 20.0 19.0 19.0 21.0 21.0	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.0 23.5 24.5 24.5 24.5 24.0 24.5 23.0 23.5 22.5 24.5 22.5 22.5 22.5 22.5	26.5 24.0 24.5 24.0 25.0 25.5 24.5 24.5 24.5 24.0 20.0 20.5 21.0 19.5 21.0 21.5 22.5 19.5 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 15.5 15.5 12.5 12.5 14.0 14.0 17.5 16.5 17.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.5 22.0 20.5 19.5 18.0 16.0 16.5 16.5 17.5 18.5 19.0 18.5 17.5
1 2 3 4 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	14.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 27.0 25.5 26.5 23.0 24.5 25.5 26.5 26.5	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 15.5 14.5 14.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 16.5 16.5 16.5 17.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 21.5 20.5 22.5 21.5 22.0 22.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 27.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0	JULY 19.5 16.5 17.5 18.5 17.0 15.5 18.5 19.5 19.0 17.5 16.5 16.0 17.0 17.5 18.5 18.5 20.5 20.5 20.5 21.5 23.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 2	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 27.5 26.0 27.5 22.0 27.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5 22.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.0 23.5 24.5 24.5 24.0 24.5 23.0 24.5 23.0 23.5 21.0 22.5 21.0	26.5 24.0 24.5 24.0 25.0 25.5 25.5 24.5 24.0 20.0 20.5 21.0 19.5 21.5 22.5 19.5 19.0	20.0 16.0 15.5 18.5 17.5 15.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5 12.5 14.0 17.5 14.0 17.5 16.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 16.5 17.5 18.0 18.5 19.0
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 23.0 24.5 25.5 26.5 25.5 26.5 27.0 25.5 26.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.5 14.0 14.5 16.0 17.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0 21.0 19.5 17.5 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 26.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0	JULY 19.5 16.5 17.5 17.0 15.5 18.5 19.5 19.0 17.5 16.0 17.0 17.5 18.5 18.5 20.5 20.5 20.5 21.0 18.5 21.5 23.5	21.5 19.0 18.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 23.0 22.5 22.5 23.0 22.5 22.0 23.5 22.5 22.0 23.5 22.5 22.0 23.5 22.5 22.0 23.5 22.5 22.0 23.5 22.5 22.5 22.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 27.5 22.0 27.5 22.0 27.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 25.5 22.0 21.5 22.5 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 24.5 24.5 24.5 24.5 24.5 23.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 24.0	26.5 24.0 24.0 25.0 24.0 25.5 24.5 24.5 24.0 20.0 20.5 21.0 20.5 21.0 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5	20.0 16.0 15.5 18.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 14.0 17.5 16.5 16.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0 18.5 18.5 19.5 18.5 18.5 18.5 18.5 18.5 18.5 19.5
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	14.5 16.5 17.5 20.5 19.0 22.5 22.5 21.0 22.5 22.5 21.0 25.5 27.0 25.5 23.0 24.5 25.5 26.5 23.0 24.5 25.5 26.5 27.0 25.5 26.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 14.5 14.0 14.5 16.0 17.0 20.5 21.0 20.5 19.0 17.5 19.0 19.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5 20.5 21.5 22.0 21.0 19.5 17.5 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 26.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0 24.5 25.5	JULY 19.5 16.5 17.5 17.0 15.5 18.5 19.5 19.0 17.5 16.5 16.0 17.0 17.5 18.5 20.5 20.5 20.5 21.0 18.5 21.5 23.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 22.5 22.5 23.0 23.0 22.5 22.5 22.5 23.0 23.0 23.0 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	27.5 28.5 27.0 26.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 28.0 27.5 26.0 27.5 22.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 25.5 22.0 21.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 24.5 24.5 24.5 24.5 24.5 23.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 23	26.5 24.0 25.0 24.0 25.5 24.5 24.5 24.0 20.0 20.5 21.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	20.0 16.0 15.5 17.5 15.0 17.0 17.0 18.5 20.0 17.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 14.0 17.5 16.5 16.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 17.5 18.0 18.5 17.5 18.5 19.5
1 2 3 3 4 5 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	14.5 16.5 17.5 20.5 19.0 22.0 22.5 22.5 21.0 25.5 26.5 27.0 25.5 26.5 23.0 24.5 25.5 26.5 23.0 24.5 25.5 26.5 26.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0	JUNE 11.5 12.5 14.0 13.0 13.5 15.5 15.5 14.5 14.0 17.0 19.0 20.5 21.0 20.5 19.0 17.5 19.0 17.5 16.5 16.0 15.5 16.5 17.0 18.0 19.0	13.0 14.5 15.5 15.0 16.5 17.0 18.0 17.5 17.5 19.0 22.5 23.0 22.5 20.5 22.5 21.5 22.0 21.0 19.5 17.5 17.5	24.0 22.0 21.0 22.5 23.5 23.5 20.5 26.0 25.5 25.0 24.0 20.5 21.5 23.5 27.5 27.0 28.0 27.5 27.0 28.0 27.5 27.0 29.0 30.5 31.0	JULY 19.5 16.5 17.5 17.0 15.5 18.5 19.5 19.0 17.5 16.0 17.0 19.5 20.5 20.5 21.0 17.5 18.5 19.0 17.5 18.5 19.5	21.5 19.0 20.0 20.5 19.5 19.5 22.0 22.5 21.5 20.5 18.5 19.5 22.5 22.5 22.5 22.5 23.0 23.0 22.5 22.5 22.5 23.0 23.0 23.0 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	27.5 28.5 27.5 28.0 28.0 29.5 31.0 32.0 29.5 25.5 24.0 27.5 26.0 27.5 26.0 27.5 22.0 27.5 22.0 27.0 27.0 27.0 27.0	AUGUST 18.0 19.5 21.0 21.0 21.0 23.0 23.0 24.0 23.0 25.5 22.0 21.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	22.5 23.5 23.5 24.0 25.5 26.5 27.5 27.5 27.5 24.5 24.5 24.5 24.5 24.5 23.5 23.5 22.5 23.5 22.5 23.5 22.5 23.5 23	26.5 24.0 24.0 25.0 24.0 25.5 24.5 24.5 24.0 20.0 20.5 21.0 19.5 21.5 22.5 19.0 18.0	20.0 16.0 15.5 17.5 15.0 17.0 15.0 17.0 18.5 20.0 17.0 15.5 15.5 12.5 12.5 14.0 17.5 16.5 16.5 17.5 16.5 17.5 16.5 17.5	23.0 19.5 19.5 21.0 20.5 19.0 19.5 21.0 21.5 22.0 20.5 19.5 19.5 18.0 16.0 16.5 16.5 17.5 18.0 18.5 19.0 18.5 19.0 18.5 19.0

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 mi2.

PERIOD OF RECORD. -- November 1998, revised, to August 2001 (discontinued).

PERIOD OF DAILY RECORD. --WATER TEMPERATURE: October 1998 to April 1999.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA). For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Minimum, -1.0°C, Feb. 24, 1999, but may have been lower during period of missing record.

DATE	TIME	SAMP TYP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT													
NOV	1110	ENVIRONM	ENTAL	844	764	111	12.1	8.2	394	16.5	11.7	130	30.9
06	1359	FIELD BL											
06	1400	ENVIRONM		759	760	109	12.2	8.3	415	13.5	10.4	130	31.8
06 DEC	1401	SPLIT RE	EPLICATE										
12 FEB	1040	ENVIRONM	ENTAL	861	754	114	14.7	7.8	354	5.0	4.2	120	28.9
06 MAR	1050	ENVIRONM	ENTAL	2190	756	111	15.7	7.7	277	8.0	.9	81	20.6
13 APR	1320	ENVIRONM	ENTAL	4190	746	101	12.5	7.7	294	7.5	5.5	80	20.9
03 MAY	1440	ENVIRONM	ENTAL	5550	754	107	12.9	7.5	170	14.5	6.7	51	13.0
07 JUN	1050	ENVIRONM	ENTAL	1710	770	106	10.5	7.9	267	14.5	16.5	92	22.2
05	0930	ENVIRONM	ENTAT.	2730	761			7.6	265	17.5	16.0	82	20.5
26 AUG	0930	ENVIRONM		2420	765			7.6	260	25.0	20.5	90	22.8
20	1550	ENVIRONM	ENTAL	952	752	109	9.0	8.2	335	28.0	24.3	120	26.7
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)	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 DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT													
NOV	13.4	3.14	22.1	90	110	34.6	E.1	6.0	40.9	.27	.34	E.033	3.4
06						7.7							
06	12.9	3.44	26.5	91	111	34.3	.3	4.3	39.8	.27	.34	<.041	2.9
DEC 12	11.9	2.87	21.0	82	100	29.9	E.1	5.5	35.8	.26	.37	E.031	3.4
FEB 06 MAR	7.22	1.79	18.2	47	57	31.5	<.2	5.5	23.5	.30	.39	.144	2.9
13	6.88	1.88	22.6	48	59	38.9	<.2	4.4	23.8	.29	.57	.149	2.6
APR 03	4.43	1.18	10.8	26	32	17.6	<.2	4.6	17.1	.15	.20	E.029	1.7
MAY 07	8.79	2.09	14.4	58	71	22.1	<.2	4.2	26.4	.26	.32	<.041	2.1
					2.5	22/2					2-		
JUN 05	7.47	1.69	13.8	49	59	22.7	<.2	5.5	23.0	.24	.35	.051	2.2
	7.47	1.69	13.8 13.1	49 54	66	22.7	<.2	6.6	24.5	.20	.44	<.040	2.8

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 2000 TO SEPTEMBER 2001

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)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
12	3.3	3.04	.025			.319	.302	.350			2.1	.2	224
NOV													
06											<.33	<.2	
06	2.8	2.58	.014			.311	.276	.322			2.0	<.2	221
06											2.2	<.2	
DEC													
12	3.3	3.01	.023			.277	.242	.320			1.8	.4	204
FEB													
06	2.8	2.49	.022	.25	.037	.109	.108	.126	.4		2.0		165
MAR													
13	2.4	2.08	.022	.42	. 247	.096	.084	.163	2.8	<.1	2.1	2.8	163
APR													
03	1.6	1.48	.007		.090	.034	.027	.050	.6	<.1	1.7	.6	100
MAY													
07	2.0	1.74	.033		.130	.149	.116	.165	E.8	<.1	1.9	E.8	146
JUN													
05	2.1	1.83	.019	.30	.230	.115	.091	.158	1.1	<.1	2.5	1.0	134
26	2.5	2.35	.027		.122	.111	.072	.134	1.2	<.1	4.9	1.1	153
AUG													
20	2.4	2.18	.019		.065	.189	.175	.186	. 6	<.1	1.9	.6	196

DATE	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)
OCT							
NOV 12	220	2.3	37	30	17.2	5.9	3
06						22	
06	220	<2.0	52	30	17.1	3.7	2
06				2-			
DEC							
12 FEB	199	3.5	34	10	28.6	18	8
06	148	2.1	19	30	40.1	13	2
MAR 13 APR	158	37	E12	30	32.8	334	30
03 MAY	91	4.7	21	20	38.9	79	5
07	143		24	30	24.8	8.3	2
JUN			1.2		22.2	22	122
05	132	4.2	18	40	28.5	78	11
AUG	141	13	21	40	28.3	63	10
20	184	6.1	28	30	48.2	9.0	4

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 12	1110	E.04	E.01	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

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

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L (32104	SUI WI WI TO (UC	OTAL T	HLORO- ENZENE OTAL UG/L) 34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	-D CHL ETH WA TO (UG	ORO- ENE C TER M TAL (/L)	BROMO- DI- HLORO- ETHANE TOTAL (UG/L) 32101)	DI- CHLOI DI- FLUOI METH TOTAL (UG/)	RO- MANE UIL RU	ETHER ETHYL WATER NFLTRD ECOVER UG/L) 81576)	PENT METH UNFT RECO	HYL LTRD OVER	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT																	
12	<.04	<.06	<.	. 07	<.03	<.2	.18	•	16	E.04	<	3	<.2	<.	.1	<.03	<.06
	FUR	AN, ME	THYL			MET	A/ C	-		P-IS	10-						
	TET		ERT-		METH			ORO-	0-	PROP		TETRA-			TRI-		
	HYD		THER	CHLO-				UENE TER	WATER			CHLORO-			CHLOF		ORO- ORO-
	UNFL	The same of the sa	r UNF	RIDE	RIL			OLE	WHOLE			ENE	TOLU	ENE	ENE		HANE
DATE	RECO		REC	TOTAL				TAL	TOTAL			TOTAL	TOT		TOTA		TAL
	(UG/		3/L)	(UG/L)	(UG/			/L)	(UG/L)			(UG/L)	(UG/		(UG/		/L)
	(816	07) (7	8032)	(34418) (344	23) (857	95) (77	275)	(77135) (773	56)	(34475	(340	10)	(3918	30) (34	488)
OCT																	
12	<2		<.2	M	<.	2 <.0	6 <.	03	<.04	<.0	7	E.1	E.0	2	.17	<.	09

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALA- CHLOR, WATER, DISS, REC,	ALPHA BHC DIS- SOLVED	ATRA- ZINE, WATER, DISS, REC	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC	CAR- BARYL WATER FLTRD 0.7 U GF, REC	CARBO- FURAN WATER FLTRD 0.7 U GF, REC	CHLOR- PYRIFOS DIS- SOLVED	CYANA- ZINE, WATER, DISS, REC	DCPA WATER FLTRD 0.7 U GF, REC	DEETHYL ATRA- ZINE, WATER, DISS, REC	DI- AZINON, DIS- SOLVED
		(49260)	(UG/L) (46342)	(UG/L) (34253)	(UG/L) (39632)	(UG/L) (82673)	(UG/L) (82680)	(UG/L) (82674)	(UG/L) (38933)	(UG/L) (04041)	(UG/L) (82682)	(UG/L) (04040)	(UG/L) (39572)
OCT			Actorio.	*******	172 177				,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
12	1110	<.004			0.54								
FEB	1110	1.004	<.002	<.005	.061	<.010	<.041	<.025	<.005	<.018	<.003	E.068	<.005
06	1050	<.004	<.002	<.005	.024	<.010	<.041	<.100	<.005	<.018	<.003	E.032	<.005
APR	1050		1.002	1.005	.024	1.010	1.041	1.100	1.005	1.010	1.003	E.032	1.005
03	1440	<.004	<.002	<.005	.018	<.010	<.041	<.030	<.005	<.018	<.003	E.018	<.005
MAY			1125	7.000				11050	1.005	11010	1.005	2.010	1.005
07	1050	<.004	<.002	<.005	.029	<.010	<.041	<.025	<.005	<.018	<.003	E.028	<.005
JUN													
05	0930	<.004	<.002	<.005	.069	<.010	E.017	<.020	<.005	<.018	<.003	E.033	<.005
26	0930	<.004	<.002	<.005	.126	<.010	<.041	<.020	<.005	<.018	<.003	E.019	<.005
AUG	2223												
20	1550	<.004	<.002	<.005	.042	<.010	<.041	<.020	<.005	<.018	<.003	E.040	E.004
	DI- ELDRIN DIS-	EPTC WATER FLTRD 0.7 U	LINDANE DIS-	LIN- URON WATER FLTRD 0.7 U	MALA- THION, DIS-	METHYL AZIN- PHOS WAT FLT 0.7 U	METO- LACHLOR WATER	METRI- BUZIN SENCOR WATER	MOL- INATE WATER FLTRD 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	P,P' DDE	PENDI- METH- ALIN WAT FLT 0.7 U	PRO- METON, WATER, DISS,
DATE	(UG/L) (39381)	GF, REC (UG/L) (82668)	(UG/L) (39341)	GF, REC (UG/L) (82666)	SOLVED (UG/L) (39532)	GF, REC (UG/L) (82686)	(UG/L) (39415)	DISSOLV (UG/L) (82630)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82684)	(UG/L) (34653)	GF, REC (UG/L) (82683)	REC (UG/L) (04037)
OCT													
12	<.005	<.002	<.004	<.035	<.027	<.050	E.013	<.006	<.002	<.007	<.003	<.010	E.013
FEB						100		47,000		27.5,50			
06	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.002	<.007	<.003	<.010	E.004
APR													
03 MAY	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.004
07	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	E.006
05	<.005	<.002	<.004	<.035	<.027	<.050	.028	<.006	<.002	<.007	<.003	<.010	<.015
26	<.005	<.002	<.004	<.035	<.027	<.050	.073	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
20													

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

01454700 LEHIGH RIVER AT GLENDON, PA--Continued

DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (UG/L) (04022)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
12	E.010	<.016	< . 034	E.006	<.005	<.009
FEB						
06	E.005	<.016	<.034		<.005	<.009
APR						
03	E.009	<.016	<.034		<.005	<.009
MAY						
07	E.006	<.016	<.034		<.005	<.009
JUN						
05	.015	<.016	<.034		<.005	<.009
26	.013	<.016	<.034		<.005	<.009
AUG						
20	.020	<.016	<.034		<.005	<.009

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°11'11", revised, Warren County, Hydrologic Unit 02040105, at bridge on Riegelsville-Milford Road (County Route 627) in Riegelsville, 0.2 mi north of Mount Joy, and 0.2 mi upstream from mouth.

DRAINAGE AREA . -- 156 mi2.

PERIOD OF RECORD .-- Water years 1962, 1976 to current year.

REMARKS.--Water-quality samples do not include Riegelsville Paper Company bypass flow. Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-recomnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-C	WITH TATIC	DAMA	TATA MED	VEND	COMODED	2000	TO	SEPTEMBER	2001
WATER-C	DUALLIX	DATA.	WATER	YEAR	OCTOBER	2000	10	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOA													
08 FEB	1210	97		.038	.030	759	117	13.8	8.4	440	14.0	8.0	170
12 MAY	0920	241		.057	.043	776	100	14.4	7.5	454	-4.0	1.0	120
16	1320	145	2.6	.043	.033	760	107	10.7	8.4	441	20.0	15.0	170
23	1100	109	5.0	.041	.031	759	100	9.0	8.4	454	26.0	20.0	170
		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5 LAB	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	CONSTI- TUENTS,	AMMONIA DIS-	MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA)	SOLVED (MG/L AS MG)	SOLVED (MG/L AS K)	SOLVED (MG/L AS NA)	(MG/L AS CACO3)	SOLVED (MG/L AS CL)	SOLVED (MG/L AS F)	(MG/L AS SIO2)	SOLVED (MG/L AS SO4)	DIS- SOLVED (MG/L)	DIS- SOLVED (MG/L)	SOLVED (MG/L AS N)	DIS. (MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
08 FEB	36.7	19.3	1.83	19.4	141	39.1	E.1	6.5	19.2	242	237	.060	.41
12	27.9	11.8	1.59	37.6	83	73.9	<.2	8.0	16.5	242	235	<.030	.16
16	37.1	18.4	1.69	21.0	131	42.3	<.2	8.0	18.2	228	236	<.030	.66
23	35.9	19.7	2.38	21.2	135	46.1	<.2	7.7	19.5	251	244	.030	.28
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA	MONIA + ORGANIC	NO2+NO3 DIS-	NITRITE DIS-	GEN DIS-	NITRO- GEN,	TICULTE WAT FLT	PHORUS DIS-	PHOS- PHORUS	ORGANIC PARTIC.	GANIC, PARTIC.	ORGANIC DIS-	PARTIC- ULATE
DATE	(MG/L AS N)	(MG/L AS N)	SOLVED (MG/L AS N)	(MG/L AS N)	SOLVED (MG/L AS N)	(MG/L AS N)	SUSP (MG/L AS N)	SOLVED (MG/L AS P)	(MG/L AS P)	(MG/L AS C)	TOTAL (MG/L AS C)	(MG/L AS C)	TOTAL (MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV	0.5	47		24.5						- 1	1.4		
08 FEB	.05	.47	2.41	.010	2.8	2.9	.072	.004	.011	.4	<.1	1.9	.4
12 MAY	.08	.22	1.82	<.003	2.0	2.0	.128	.006	.031	.9	<.1	2.3	.9
16	.03	.82	2.53	.021	3.2	3.3	.100	.012	.033	.6	<.1	1.3	.6
23	.11	.35	2.35	.036	2.6	2.7	.101	.025	.043	.7	<.1	1.8	.7

	ONT GTTA	CILLOITO		TOPIDE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
08	E1.1		19	9
FEB				
12	3.1		E12	9
MAY				
16	E1.6	9.00	21	1
AUG				
23	<1.0	5.80	19	3

OVVCEN CULORO-

PECTIVIE

E Estimated value

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

DELAWARE RIVER BASIN

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0920	2400	200	140	15	0915	9200	700	520
08	1030	790	200	260	22	0929	1700	700	170
					29	0925	330	600	330

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

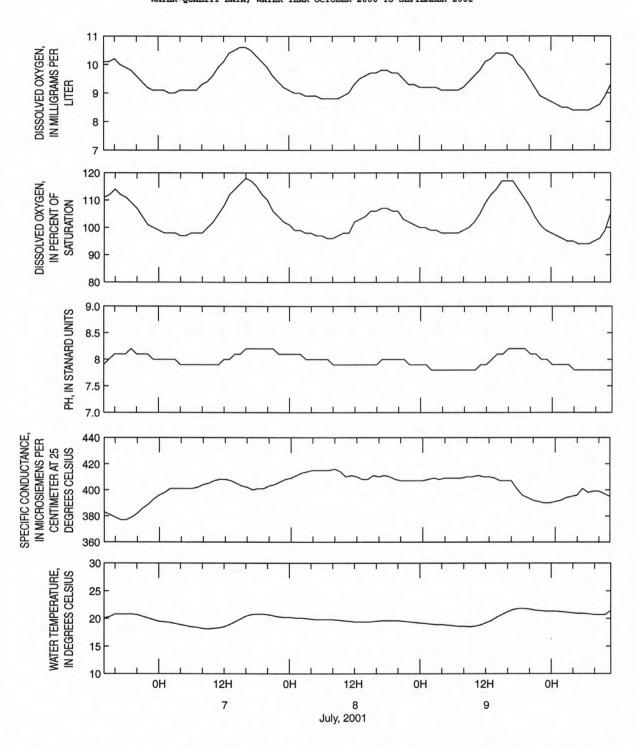


Figure 50. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01457400 Musconetcong River at Riegelsville, water year 2001.

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, Hydrologic Unit 02040105, at 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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-CHALTTY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001									
	WATER _OTTAT TITLE	DAMA	בריבורת מדגד	VEND	COMODED	2000	TTO	CEDWEMDED	2001

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV		2000									20.00		40
29 FEB	1030	5980		.068	.052	763	88	11.3	7.6	186	10.5	5.0	60
08	1045	7650		.061	.047	772	90	12.4	7.8	233	2.0	2.5	65
MAY 16	1045	3870	1.8	42		758	88	8.4	8.0	253		17.5	85
AUG		232.0											
22	1100	3010	2.8	.046	.035	760	90	7.5	8.2	232	25.0	24.5	79
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SODIUM, DIS- SOLVED (MG/L AS NA)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV	20.0												
29 FEB	15.9	4.97	1.46	10.4	43	14.2	<.2	3.2	17.4	105	98	.030	.20
08 MAY	17.5	5.23	1.28	15.5	42	27.4	<.2	5.0	16.3	123	119	.040	.14
16 AUG	21.9	7.50	1.67	13.2	61	21.5	<.2	3.7	21.1	163	133	.030	.20
22	19.4	7.37	1.72	13.4	57	20.3	<.2	3.5	22.8	137	129	<.030	.21
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
29 FEB	.03	.78	.999	.010	1.2	1.8	.026	.062	.068	.4	<.1	2.4	.4
08 MAY	.06	.24	1.24	.007	1.4	1.5	.055	.042	.051	.4	<.1	2.1	.4
16 AUG	<.03	.29	1.30	.021	1.5	1.6	.079	.089	.102	.6	<.1	2.0	.6
22	<.03	.40	1.33	.011	1.5	1.7	.038	.103	.114	.4	<.1	1.8	.4

OXYGEN	CHLORO-		RESIDUE		
DEMAND,	PHYLL A		TOTAL		
BIO-	FLUORO-	BORON,	AT 105		
CHEM-	METRIC	DIS-	DEG. C,		
ICAL,	METHOD	SOLVED	SUS-		
5 DAY	CORR.	(UG/L	PENDED		
(MG/L)	(UG/L)	AS B)	(MG/L)		
(00310)	(32209)	(01020)	(00530)		
<1.0		20	<1		
E1.4		14	1		
E1.6	4.40	17	<1		
E1.3	3.90	21	14		
	DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.4 E1.6	DEMAND, PHYLL A BIO-FLUORO- CHEM-METRIC ICAL, METHOD 5 DAY CORR. (MG/L) (UG/L) (00310) (32209) <1.0 E1.4 E1.6 4.40	DEMAND, PHYLL A BIO- FLUORO- BORON, CHEM- METRIC DIS- ICAL, METHOD SOLVED 5 DAY CORR. (UG/L (MG/L) (UG/L) AS B) (00310) (32209) (01020) <1.0 20 E1.4 14 E1.6 4.40 17		

E Estimated value.

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

DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
01	0910	130	300	220	15	0910	330	100	260
08	1015	110	<100	140	22	0915	80	100	110
					29	0915	80	200	160

< 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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUAL	ITY DATA	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
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		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
08 FEB	0910	1.4		.043	.034	760	101	12.7	7.8	205	6.0	5.5	59
12 MAY	1210	26		.045	.034	772	99	14.1	6.6	190	-0.5	1.5	57
30	1100	15	5.0	.063	.047	754	96	9.8	7.7	189	17.0	14.0	62
09	1220	5.3	1.9	.055	.042	745	99	8.1	7.7	193	31.5	24.0	66
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
08 FEB	15.0	5.25			61		<.2			115		.040	.11
12 MAY	14.5	5.04	1.67	11.4	26	19.2	<.2	10.8	16.9	122	109	<.030	.10
30	15.6	5.51	1.46	9.9	39	15.3	<.2	11.8	16.4	119	111	.050	.18
09	17.0	5.78	1.95	9.9	54	13.6	<.2	11.1	11.9	122	110	.050	.13
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	TOTAL (MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	(MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
NOV													
08 FEB	.03	.17	1.22	<.003	1.3	1.4	.035	.013	.025	.1	<.1	1.4	.1
12 MAY	<.03	.10	3.08	<.003	3.2	3.2	.071	.026	.031	.3	<.1	1.6	.3
30 AUG	.03	.19	2.72	.005	2.9	2.9	.051	.043	.050	.4	<.1	1.9	.4
09	.06	.14	1.37	<.003	1.5	1.5	<.022	.050	.051	.2	<.1	1.5	.2

	OXYGEN DEMAND,	CHLORO- PHYLL A		RESIDUE
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
08	<1.0		32	15
FEB				
12	E1.0		19	<1
MAY				
30	E1.2	1.90	25	3
AUG				
09	E2.1	2.10	31	1

E Estimated value.

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

DELAWARE RIVER BASIN

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	1000	110	100	1100	02	0915	80	200	580
19	1000	1100	600	2500	09	1125	490	600	670

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 mi2.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2	WATER-	JALITY DATA	. WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001
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		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
15	1100	5130		.078	.061	754	92	10.7	7.8	183	+-	8.5	63
27 MAY	1000	12650		.082	.062	764	92	12.6	7.5	233	6.0	2.5	65
15 AUG	1000	3700	2.8	.051	.039	758	82	7.9	8.1	250	21.0	17.0	88
01	1000	3130	4.3	.062	.047	768	90	7.6	8.2	248	21.5	24.0	85
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFL/TRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
15 FEB	16.4	5.43	1.49	10.2	46	14.6	<.2	2.2	15.8	103	98	<.030	.21
27 MAY	17.1	5.39	1.54	18.4	42	31.0	<.2	4.6	17.2	134	125	.030	.17
15	22.2	7.82	1.49	13.5	62	21.2	E.1	3.7	20.2	148	133	<.030	.27
01	21.3	7.81	1.78	13.6	62	22.1	<.2	3.4	20.2	144	132	<.030	.22
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
	(00010)	(00023)	(00031)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00000)	(00001)	(00003)
NOV 15	<.03	.56	.878	.003	1.1	1.4	.071	.058	.067	.6	<.1	2.7	.6
FEB 27 MAY	.05	.30	1.13	.004	1.3	1.4	.101	.022	.041	1.3	<.1	2.6	1.3
15	<.03	.33	1.25	.013	1.5	1.6	.090	.070	.087	.6	<.1	2.1	.6
01	<.03	.28	1.04	.005	1.3	1.3	.083	.076	.089	.5	<.1	2.6	.5

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
15	E1.8		16	2
FEB				
27	E1.0		E13	4
MAY				
15	2.8	7.80	16	9
AUG				
01	<1.0	5.40	23	5

E Estimated value.

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

DELAWARE RIVER BASIN

01461000 DELAWARE RIVER AT LUMBERVILLE, PA--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	1030	130	200	10	02	1000	210	<100	10
19	1030	170	100	50	09	1050	110	100	220

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

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ

LOCATION.--Lat 40°26'38", long 74°57'59", Hunterdon County, Hydrologic Unit 02040105, at Green Sergents Covered Bridge on County Route 604, 1.0 mi downstream of confluence with Plum Brook, and 1.2 mi west of Sergeantsville.

DRAINAGE AREA. -- 22.3 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
20 FEB	0930		.087	.067	758	105	14.4	7.6	198		2.0	60	14.3
27 MAY	0915	221	.189	.148	765	99	14.1	7.3	143	5.5	1.0	34	8.43
30 AUG	1000	5.4	.196	.151	757	120	12.3	7.5	148	17.0	14.0	45	11.0
01	0930	1.8	.036	.028	768	92	9.0	7.4	176	21.0	17.0	56	13.0
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L AS MG) (00925)	(MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	SOLVED (MG/L AS CL) (00940)	SOLVED (MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV													
20 FEB	5.85	2.28	12.6	45	16.2	<.2	10.5	19.4	113	111	<.030	.13	<.03
27 MAY	3.26	1.49	10.9	19	16.4	<.2	8.1	14.3	81	78	.040	.22	.04
30 AUG	4.21	2.03	10.9	31	11.1	E.1	10.7	15.1	103	89	<.030	.34	<.03
01	5.75	1.90	10.7	38	11.4	<.2	15.8	16.0	113	111	<.030	E.09	<.03
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV													
20 FEB	.18	.539	<.003	.67	.72	<.022	.015	.018	.2	<.1	3.0	.2	<1.0
27 MAY	.31	.753	<.003	.97	1.1	.060	.016	.036	.4	<.1	4.2	.4	3.0
30 AUG	.36	1.15	<.003	1.5	1.5	<.022	.033	.044	<.1	<.1	5.0	<.1	1.6
01	.12	3.00	<.003		3.1	.034	.055	.059	. 2	<.1	1.2	.2	2.3

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
20		E11	<1
FEB			
27		18	1
MAY			
30	1.20	17	3
AUG			
01	4.40	14	2

E Estimated value.

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

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		WATER-	-QUALITY I	DATA, WATE	ER YEAR OC	TOBER 200	O TO SEP	EMBER 200)1			
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)	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)
0930	м	52.3	<.06	12	<.04	<1	1.0	40	<1	3	<.01	<1
					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)					
					<.4	<.05	2					
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
0915	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
DA	TE	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)		
		<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		
	O930 TIME O915 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10	TIME (UG/L) AS AS) (01002) 0930 M 1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) 0915 <.10 CHLORO- BENZENE TOTAL TOTAL (UG/L)	BARIUM, TOTAL RECOV- TOTAL RECOV- TOTAL RECOV- TOTAL RECOV- TOTAL RECOV- RECOV-	ARSENIC RECOV- R	BARIUM, LIUM, BORON, TOTAL T	ARSENIC RECOV- RECOV-	ARSUNC TOTAL TOT	BARTUM, LIUM, BORON, CARMIUM MUM, COPPER, TOTAL TOTAL	BARIUM, LIUM, LI	BARTUM, LUM, BORON, CADRUM MIUM, COPPER, TRON, LEAD, TOTAL TOTAL	BARIUM, BORNA, CALMIUM MIUM, COPPER, IRON, LEAD, MANGAL TOTAL TOTA	BANTUM

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 30	1000	.152	.034	<.005	.756	<.010	<.041	<.020	E.002	<.018	<.003	E.065	<.005

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

DELAWARE RIVER BASIN

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY													
30	<.005	<.002	<.004	<.035	<.027	<.050	.124	<.006	<.002	<.007	<.003	<.010	E.003
30			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 3	0	E.006	<.016	<.034	<.005	E.005				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
12	0930	490	100	330	02	0930	50	100	380
19	1100	1100	800	1900	09	1030	1700	500	860
26	0900	<20	<100	220					
26	1000	3500	2500	1000					
26	1030	790	400	500					
26	1100	130	200	150					

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

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, at Calhoun Street Bridge at Trenton, 0.5 mi upstream from Assumpink Creek, and at river mile 134.5. DRAINAGE AREA . -- 6.780 mi2. 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: Water year 2000 to current year. 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.--Replicate nutrient samples on Dec. 19 at 0931, Mar. 14 at 1121, June 4 at 1111, and Sep. 10 at 1201 were collected to fulfill the requirements of the Ambient Stream Monitoring Program. For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." 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. Beginning October, 1999, pH daily value tables reported maximum, minimum and median values. Continuous turbidity-record values less than 2 were below the instrument detection level. Missing continuous water-quality records are the result of instrument malfunction or interruption of flow through the filtration plant. The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is reclaibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the defference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection"). Data from the following periods were adjusted: DISSOLVED OXYGEN: Oct. 3 to Dec. 14, Feb. 15 to Feb. 23, Apr. 17 to May 15, May 18 to June 1, June 14 to July 2, Aug. 1 to Sep. 13. pH: Aug. 1 to Aug. 10. TURBIDITY: Jan. 2 to Jan. 16, Mar. 22 to Apr. 3, Apr. 17 to May 1, May 18 to June 1. COOPERATION. -- Samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA) with cooperation from the Delaware River Basin Commission. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, E. coli, enterococcus bacteria, and dissolved hexavalent chromium on Dec. 19 at 0932, Mar. 14 at 1122, June 4 at 1112, and Sept. 10 at 1202 were performed by the New Jersey Department of Health, Public Health and Environmental Laboratories. 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, 1,300 ntu, Apr. 11, 2001; minimum, <2.0 ntu, on many days in water years 2000-01. EXTREMES FOR CURRENT YEAR . --DISSOLVED OXYGEN: Maximum, 17.5 mg/L, Mar. 12; minimum, 6.1 mg/L, Aug. 11.

DISSOURCE N. Maximum, 17.5 mg/L, Mar. 12; minimum, 6.1 mg/L, Aug. 11.
pH: Maximum, 9.2 units, May 1; minimum, 6.3 units, Dec. 19.
SPECIFIC CONDUCTANCE: Maximum, 305 uS/cm, Dec. 17; minimum, 93 uS/cm, Dec. 19.
WATER TEMPERATURE: Maximum, 32.0°C, Aug. 9; minimum, 0.0°C, on several days during winter months.
TURBIDITY: Maximum, 1,300 ntu, Apr. 11; minimum, <2.0 ntu, on many days.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DATE	TIME	SAMP TYP		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLIED (NTU) (61028)	TURBID- ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WIR FLT (UNITS /CM) (61726)	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 10	1030	ENVIRONM	TENEDA Y	4450	2.0				765	96	10.3	8.2	210
NOV		ENVIRONM	ENTAL	4450						100			
DEC	1340	ENVIRONM	ENTAL	3160	<2.0				762	142	15.6	9.0	231
19 19	0930 <i>0931</i>	ENVIRONM SPLIT RE		69500	200	72	.186	.146	760	102	14.3	7.1	87
19	0932	ENVIRONM											
FEB 05	0920	ENVIRONM	ENTAL	7980	2.6				761	111	15.3	7.3	223
MAR 14	1120	ENVIRONM	IDANI'A T	16100	22	14	.079	.060	754	110	13.7	7.7	244
14	1121	SPLIT RE											
14	1122	ENVIRONM	ENTAL										
02 30	1020 0900	ENVIRONM ENVIRONM		34500 8340	13 2.7				759 759	103 109	13.3	7.1 8.5	129 183
JUN					4.7								
04	1110 1111	ENVIRONM SPLIT RE		14000		9.5	.101	.076	753	104	9.8	7.8	197
04 JUL	1112	ENVIRONM											
02	1329	FIELD BL											
02 <i>02</i>	1330 1331	ENVIRONM SPLIT RE		8290	42				764	108	8.9	8.2	207
AUG										105			
O7	1400	ENVIRONM		3900	9.0				763	126	9.5	8.2	239
10	1200 1201	ENVIRONM SPLIT RE		3220	<2.0	2.6	.043	.032	762	128	10.6	8.6	232
10	1202	ENVIRONM	ENTAL										
DATE	TEMPER- ATURE ATR (DEG C) (00020)	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)	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)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 10	ATURE AIR (DEG C)	ATURE WATER (DEG C)	NESS TOTAL (MG/L AS CACO3)	DIS- SOLVED (MG/L AS CA)	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	UNFLITED TIT 4.5 LAB (MG/L AS CACO3)	WAT DIS TOT IT FIELD MG/L AS CACO3	WATER DIS IT FIELD MG/L AS HCO3	WATER DIS IT FIELD MG/L AS CO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)
OCT 10 NOV 02	ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 10 NOV 02 DEC 19	ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)	NESS TOTAL (MG/L AS CACO3) (00900)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 10 NOV 02 DEC 19	ATURE AIR (DEG C) (00020) 14.0 19.0	ATURE WATER (DEG C) (00010) 12.2 11.3	NESS TOTAL (MG/L AS CACO3) (00900) 66 76	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70	DIS- SOLVED (Mg/L AS NA) (00930) 11.6 13.2	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9	RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 10 NOV 02 DEC 19 19	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5	ATURE WATER (DEG C) (00010) 12.2 11.3	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2	UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 FEB 05	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 	UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 19 14	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 	UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55 40 42	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 FEB 05 MAR 14 14	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 FEB 05 MAR 14 14 14 20	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 	UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55 40 42	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 19 14 14 14 14 14 2PR 02 30 JUN 04	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 19 4 14 14 14 2PR 02 30 JUN 04	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46	LINITY WAT DIS TOT IT FIELD MG/L AS (39086) 46 55 40 42 19 42	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 19 14 14 14 14 14 2PR 02 30 JUN 04 04 04	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5 21.5	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17 1.22	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5	UNFL/TRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 FEB 05 MAR 14 14 2APR 02 30 JUN 04 04 JUL 02 02	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5 21.5 25.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4 25.1	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63 69 71	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2 18.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68 6.28	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17 1.22 1.54	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5 	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55 57	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5 21.5 25.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4 25.1	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63 69 	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2 18.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68 6.28	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17 1.22 1.54	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5 11.4	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55 40 42 19 42 45 47	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55 57	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2 18.5	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 19 14 14 14 14 14 14 14 14 14 14 14 14 14 14 19	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5 21.5 25.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4 25.1	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63 69 71	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2 18.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68 6.28	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17 1.22 1.54	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5 	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55 57	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2
OCT 10 NOV 02 DEC 19 19 19 14 14 14 2PR 02 30 JUN 04 04 04 04 02 02 02 AUG 07	ATURE AIR (DEG C) (00020) 14.0 19.0 -0.5 2.0 9.0 7.5 17.5 21.5 25.0	ATURE WATER (DEG C) (00010) 12.2 11.3 1.3 2.0 5.4 4.4 14.7 17.4 25.1	NESS TOTAL (MG/L AS CACO3) (00900) 66 76 25 65 73 35 63 69 	DIS- SOLVED (MG/L AS CA) (00915) 17.2 19.2 6.76 17.1 19.1 9.71 16.5 18.2 18.1	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 5.52 6.86 1.86 5.45 6.11 2.71 5.25 5.68 6.28	SIUM, DIS- SOLVED (MG/L AS K) (00935) 1.45 1.70 1.79 1.31 1.55 .90 1.17 1.22 1.54	DIS- SOLVED (MG/L AS NA) (00930) 11.6 13.2 5.2 14.4 17.7 8.1 10 11.5 11.4	UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410) 58 46 47 47	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 46 55 40 42 19 42 45 47	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 56 61 49 51 23 51 55 57	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452) 3	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 18.2 16.9 9.2 25.3 30.3 14.0 17.9 18.2 18.5	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2

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

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT													
10	2.1	16.6	108	103	<.041	.20		.24	.748	E.005	.95	.99	
NOV													
02 DEC	.6	19.8	125	115	<.041	.19		. 27	.745	.006	.93	1.0	0
19	3.0	8.8	63	49	.047	.33		.95	.753	E.003	1.1	1.7	1.2
19						.33			.721		1.0		
19					.070		.08			<.003			
FEB													
05	4.5	16.5	133	115	<.041	.16		.17	1.30	E.005	1.5	1.5	
MAR													
14	3.7	18.4	147	128	<.041	.23		. 54	1.35	.009	1.6	1.9	.250
14						.22			1.38		1.6		
14 APR					.030		.05			.007			
02	3.6	10.7	77	64	E.030	.16		.56	.748	E.004	.90	1.3	.184
30	1.2	14.3	120	94	<.041	.17		.26	.561	.010	.73	.83	.130
JUN													
04	4.9	14.8	116	106	<.040	.18		.40	.971	.007	1.2	1.4	.240
04						.18			.940		1.1		
JUL JUL					<.030		<.03			.004			
02													<.022
02	4.1	16.8	120	109	.045	.18		.48	.865	.021	1.0	1.4	.215
02													.230
AUG													
07	3.4	21.3	127	125	E.028	.20		.39	.929	.009	1.1	1.3	.144
SEP													
10	1.0	20.3	124	117	<.040	.22		.27	.738	.009	.96	1.0	.067
10						. 23			.794		1.0		
10					<.030		<.03			.005			

	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,	OXYGEN DEMAND, CHEM- ICAL (HIGH	SEDI- MENT, DIS- CHARGE, SUS-	SEDI- MENT, SUS-
DATE	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)	LEVEL) (MG/L) (00340)	PENDED (T/DAY) (80155)	PENDED (MG/L) (80154)
OCT											
10	.062	.048	.083			2.3	.4	-		47	4
02 DEC	.050	.037	.066			2.5	<.2				<1
19	.034	.018	.266	12	.4	4.8	12		43	39200	209
19	.033										
19								4.0			
FEB											
05	.031	.021	.043			2.1				1420	66
MAR											
14	.022	E.016	.099	1.7	<.1	2.6	1.6		13	982	23
14	.024										
14								2.6			
APR	212	100000	0.73.274							2422	
02	.012	<.018	.078	1.3	<.1	2.7	1.3			2490	27
30 JUN	.019	<.018	.031	.6	<.1	2.1	.6			47	2
04	.046	.039	.086	1.4	<.1	3.0	1.4		17	643	17
04	.046										
04								2.8			
JUL											
02				. 2	<.1	.49	.2				
02	.059	.028	.126	2.0	<.1	4.3	1.9			611	27
02				2.0	<.1	3.8	2.0				
AUG	10.00	12.22	27.24							252	2.2
07	.084	.067	.109	1.1	<.1	2.4	1.1			126	12
SEP		444			1.0	1.0	-		1.54		
10	.060	.044	.069	.4	<.1	2.1	.4		<10	12	1
10	. 059										
10								<1.0			

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

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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, 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)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	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)
OCT 10	1030				15	22		: 44:	22				20
NOV 02	1340				20	22							20
DEC 19	0930	E2	67.6	.26	E8	8	.30	<.8	122	2	1.3	6.3	60
19 FEB	0932								<5				
05 MAR	0920	44			15								40
14	1120	<2	27.9	E.05	13	16	.10	<.8		M	1.5	2.2	30
APR	1122								<5	0			
30	1020 0900				16 14								30 30
JUN			29.0										2.5
04	1110 1112	<2	26.2	E.05	E12	13	.09	<.8	<5	<1	1.3	2.0	40
JUL													
02 AUG	1330				17								30
07	1400				22								10
10	1200	<2	24.4	<.06	22	21	E.03	<.8		<1	1.6	1.8	10
10	1202								<5				
					MANGA-								
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, DIS- SOLVED (UG/L AS MN) (01056)	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)
OCT	TOTAL RECOV- ERABLE (UG/L AS FE)	DIS- SOLVED (UG/L AS PB)	TOTAL RECOV- ERABLE (UG/L AS PB)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	DIS- SOLVED (UG/L AS HG)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS NI)	TOTAL RECOV- ERABLE (UG/L AS NI)	NIUM, TOTAL (UG/L AS SE)	TOTAL RECOV- ERABLE (UG/L AS AG)	DIS- SOLVED (UG/L AS ZN)	TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 10	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC 19	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC 19	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- REABLE (UG/L AS PB) (01051) 10 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.14	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 14	TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- ERABLE (UG/L AS PB) (01051) 10 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890) <.23 <.23	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.14 <.14	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) 06 E.03	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- ERABLE (UG/L AS ZN) (01092) 56 28
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 14 2APR 02 30 JUN	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- REABLE (UG/L AS PB) (01051) 10 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.14 <.14	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) 06 E.03	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- RERABLE (UG/L AS ZN) (01092) 56 28
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 APR 02 30 JUN 04	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460 400	DIS- SOLVED (UG/L AS PB) (01049) .20 .21 	TOTAL RECOV- RECOV- ERABLE (UG/L AS PB) (01051) 10 2 2 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7 12.1 10.2 4.3	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890) <.23 <.23 <.01	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.14 <.14 <.101	DIS- SOLVED (UG/L AS NI) (01065) .69 .76 .76	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2 1	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) 06 E.03	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- ERABLE (UG/L AS ZN) (01092) 56 28 14
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 14 2APR 02 30 JUN	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- REABLE (UG/L AS PB) (01051) 10 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7 	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <-14 <-14 <-14	DIS- SOLVED (UG/L AS NI) (01065)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2 2	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) 06 E.03	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- REABLE (UG/L AS ZN) (01092) 56 28 28
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 14 APR 02 30 JUN 04	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460 400	DIS- SOLVED (UG/L AS PB) (01049) .20 .21 	TOTAL RECOV- RECOV- ERABLE (UG/L AS PB) (01051) 10 2 2 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7 12.1 10.2 4.3	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890) <.23 <.23 <.01	TOTAL RECOV- ERABLE (UG/L AS HG) (71900) <.14 <.14 <.101	DIS- SOLVED (UG/L AS NI) (01065) .69 .76 .76	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2 1	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV- ERABLE (UG/L AS AG) (01077) 06 E.03	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- ERABLE (UG/L AS ZN) (01092) 56 28 14
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 APR 02 30 JUN 04 04 JUL 02 AUG 07 SEP	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460 400	DIS- SOLVED (UG/L AS PB) (01049)	TOTAL RECOV- RECOV- ERABLE (UG/L AS PB) (01051) 10 2 2 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7 12.1 10.2 4.3	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890) <.23 <.23 <.01	TOTAL RECOV- RECOV- ERABLE (UG/L AS HG) (71900) <.14 <.14 <.01 <.01	DIS- SOLVED (UG/L AS NI) (01065) .69 .76 .76	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2 1	NIUM, TOTAL (UG/L AS SE) (01147) <.4 <.4 <.4	TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- RECOV- REABLE (UG/L AS ZN) (01092) 56 28 14
OCT 10 NOV 02 DEC 19 19 FEB 05 MAR 14 14 APR 02 30 JUN 04 04 JUL 02 AUG 07	TOTAL RECOV- ERABLE (UG/L AS FE) (01045) 3770 460 400 400	DIS- SOLVED (UG/L AS PB) (01049) .20 .21 .15	TOTAL RECOV- RECOV- REABLE (UG/L AS PB) (01051) 10 2 2 2	NESE, DIS- SOLVED (UG/L AS MN) (01056) 6.6 5.7 10.0 15.7 21.7 12.1 10.2 4.3 	NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890) <.23 <.23 <.01	TOTAL RECOV- REABLE (UG/L AS HG) (71900) <.14 <.14 <.101	DIS- SOLVED (UG/L AS NI) (01065) .69 .76 .76	TOTAL RECOV- ERABLE (UG/L AS NI) (01067) 5 2 1 1	NIUM, TOTAL (UG/L AS SE) (01147)	TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	DIS- SOLVED (UG/L AS ZN) (01090)	TOTAL RECOV- RECOV- REABLE (UG/L AS ZN) (01092) 56 28 14

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

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

The sample collected on Oct. 10 was analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analysis in one or more samples from this and other stations are listed for that date in the following table. Samples collected on Dec. 19, Mar. 14, June 4, and Sep. 10 were analyzed for VOCs with laboratory schedule 1307. All compounds in schedule 1307 are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	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)
OCT													
DEC	1030	<.03	<.04	<.04	<.1	<.03	<.03	E6	<.03	<.05	<.03	<.04	<.06
19 MAR	0930	<.10	<.10	<.10	<.2	<.10	<.10		<.10	<.10	<.10	<.10	<.20
14 JUN	1120	<.10	<.10	<.10	<.2	<.10	<.10		<.10	<.10	<.10	<.10	<.20
04 SEP	1110	<.10	<.10	<.10	<.2	<.10	<.10		<.10	<.10	<.10	<.10	<.20
10	1200	<.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)	FREON- 113 WATER UNFLITED REC (UG/L) (77652)
OCT													
DEC	<.06	<.03	<.2	E.04	<.04	<.05	<.3	<.1	<.2	<.05	<.1	<.03	<.06
19 MAR	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
14	- 00	130000				. 10	<.2	<.2	<.2	<.10	<.2	<.10	<.10
	<.20	<.10	<.2	<.10	<.10	<.10	4.2	1.2					
JUN 04 SEP	<.20	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10

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)
OCT										
10	E.1	<.2	<.06	<.04	<.04	<.1	<.05	<.04	<.09	<.1
DEC										
19	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
MAR										
14	E.1	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
JUN										
04	.3	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2
SEP										
10	2.7	<.2	E.14	<.10	<.10	<.1	.29	<.10	<.20	<.2

E Estimated value.

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

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

FILTERED-WATER PESTICIDE ANALYSES

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

								BEN-	CAR-	CARBO-			
				ACETO- CHLOR, WATER	ALA- CHLOR, WATER,	ALPHA BHC	ATRA- ZINE, WATER,	FLUR- ALIN WAT FLD	BARYL WATER FLTRD	FURAN WATER FL/TRD	CHLOR- PYRIFOS	CYANA- ZINE, WATER,	DCPA WATER FLTRD
DATE	TIME	SAMP		FLTRD REC (UG/L) (49260)	DISS, REC, (UG/L) (46342)	DIS- SOLVED (UG/L) (34253)	DISS, REC (UG/L) (39632)	0.7 U GF, REC (UG/L) (82673)	0.7 U GF, REC (UG/L) (82680)	0.7 U GF, REC (UG/L) (82674)	SOLVED (UG/L) (38933)	DISS, REC (UG/L) (04041)	0.7 U GF, REC (UG/L) (82682)
OCT													
10	1030	ENVIRONM	ENTAL	<.004	<.002	<.005	.020	<.010	E.006	<.020	<.005	<.018	<.003
05 APR	0920	ENVIRONM	ENTAL	<.004	<.002	<.005	.020	<.010	<.041	<.020	<.005	<.018	<.003
02	1020	ENVIRONM	ENTAL	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.018	<.003
30	0900	ENVIRONM		<.004	<.002	<.005	.018	<.010	<.041	<.020	<.005	<.018	<.003
JUN 04	1110	ENVIRONM	ENTAL.	.012	<.002	<.005	.120	<.010	E.002	<.020	<.005	<.018	<.003
JUL	1110	ZHV ZHOIM.	THE PARTY NAMED IN	.012	1.002	1.005	.120	4.010	2.002	1.020	1.005	1.010	1.005
02	1329	FIELD BL	ANK	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003
02	1330	ENVIRONM	ENTAL	.016	<.002	<.005	.426	<.010	E.005	<.020	E.002	.028	<.003
02	1331	SPLIT RE	EPLICATE	.012	<.002	<.005	.302	<.010	E.002	<.020	<.005	.028	<.003
AUG													
07 SEP	1400	ENVIRONM	ENTAL	<.004	<.002	<.005	.046	<.010	<.041	<.020	<.005	<.018	<.003
10	1200	ENVIRONM	ENTAL	<.004	<.002	<.005	.027	<.010	<.041	<.020	<.005	<.018	<.003
DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC	DI- AZINON, DIS- SOLVED	DI- ELDRIN DIS- SOLVED	EPTC WATER FLTRD 0.7 U GF, REC	LINDANE DIS- SOLVED	LIN- URON WATER FLTRD 0.7 U GF, REC	MALA- THION, DIS- SOLVED	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC	METO- LACHLOR WATER DISSOLV	METRI- BUZIN SENCOR WATER DISSOLV	MOL- INATE WATER FITRD 0.7 U GF, REC	NAPROP- AMIDE WATER FITRD 0.7 U GF, REC	P,P' DDE DISSOLV
DATE	ATRA- ZINE, WATER, DISS,	AZINON, DIS-	ELDRIN DIS-	WATER FLTRD 0.7 U	DIS-	URON WATER FLTRD 0.7 U	THION, DIS-	AZIN- PHOS WAT FLT 0.7 U	LACHLOR WATER	BUZIN SENCOR WATER	INATE WATER FLTRD 0.7 U	AMIDE WATER FLTRD 0.7 U	DDE
DATE	ATRA- ZINE, WATER, DISS, REC (UG/L)	AZINON, DIS- SOLVED (UG/L)	ELDRIN DIS- SOLVED (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	DIS- SOLVED (UG/L)	URON WATER FLTRD 0.7 U GF, REC (UG/L)	THION, DIS- SOLVED (UG/L)	PHOS WAT FLT 0.7 U GF, REC (UG/L)	LACHLOR WATER DISSOLV (UG/L)	BUZIN SENCOR WATER DISSOLV (UG/L)	INATE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DDE DISSOLV (UG/L)
	ATRA- ZINE, WATER, DISS, REC (UG/L)	AZINON, DIS- SOLVED (UG/L)	ELDRIN DIS- SOLVED (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	DIS- SOLVED (UG/L)	URON WATER FLTRD 0.7 U GF, REC (UG/L)	THION, DIS- SOLVED (UG/L)	PHOS WAT FLT 0.7 U GF, REC (UG/L)	LACHLOR WATER DISSOLV (UG/L)	BUZIN SENCOR WATER DISSOLV (UG/L)	INATE WATER FLTRD 0.7 U GF, REC (UG/L)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	DDE DISSOLV (UG/L)
ОСТ 10	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	AZINON, DIS- SOLVED (UG/L) (39572)	DIS- SOLVED (UG/L) (39381)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	WATER DISSOLV (UG/L) (39415)	BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	DDE DISSOLV (UG/L) (34653)
OCT 10 FEB 05	ATRAZINE, WATER, DISS, REC (UG/L) (04040) E.024	AZINON, DIS- SOLVED (UG/L) (39572)	ELDRIN DIS- SOLVED (UG/L) (39381) <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002	DIS- SOLVED (UG/L) (39341) <.004	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666) <.035	THION, DIS- SOLVED (UG/L) (39532) <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.002 <.002	AMIDE WATER FLITED 0.7 U GF, REC (UG/L) (82684) <.007	DDE DISSOLV (UG/L) (34653) <.003
OCT 10 FEB 05 APR 02 30	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	AZINON, DIS- SOLVED (UG/L) (39572) <.005	ELDRIN DIS- SOLVED (UG/L) (39381)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	DIS- SOLVED (UG/L) (39341)	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.035	THION, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004	BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.002	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)	DDE DISSOLV (UG/L) (34653)
OCT 10 FEB 05 APR 02 30 JUN	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666) <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005 E.002 E.008	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006	INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002	AMIDE WATER FLITTD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003
OCT 10 FEB 05 APR 02 30 JUN 04 JUL	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005 <.005	WATER FLIRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666) <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003
OCT 10 FEB 05 APR 02 30 JUN 04 JUL	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005 <.005 <.005	WATER FLTRD JOT U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002	DIS- SOLIVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004	URON WATER FLITTD 0.7 U GF, REC (UG/L) (82666) <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005 E.002 E.008 .051	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITTD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003
OCT 10 FEB 05 APR 02 30 JUN 04 JUL 02	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017 E.023	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005 <.005 <.005 E.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER FLIRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005 E.002 E.002 E.008	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006 <.006 <.006	INATE WATER WATER 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003 <.003
OCT 10 FEB 05 APR 02 30 JUN 04 JUL 02 02 AUG	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005 <.005 <.005	WATER FLTRD JOT U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002	DIS- SOLIVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004	URON WATER FLITTD 0.7 U GF, REC (UG/L) (82666) <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005 E.002 E.008 .051	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006 <.006 <.006	INATE WATER WATER FLITRD 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITTD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003
OCT 10 FEB 05 APR 02 30 JUN 04 JUL 02 02	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) E.024 E.019 E.006 E.017 E.023	AZINON, DIS- SOLVED (UG/L) (39572) <.005 <.005 <.005 <.005 <.005 E.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.005 <.005 <.005 <.005 <.005 <.005 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITRD 0.7 U GF, REC (UG/L) (82666) <.035 <.035 <.035 <.035 <.035 <.035 <.035	THION, DIS- SOLVED (UG/L) (39532) <.027 <.027 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050 <.050 <.050 <.050 <.050 <.050 <.050	LACHLOR WATER DISSOLV (UG/L) (39415) E.004 E.005 E.002 E.008 .051 <.013 .156	BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006 <.006 <.006 <.006 <.006 <.006	INATE WATER WATER 0.7 U GF, REC (UG/L) (82671) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684) <.007 <.007 <.007 <.007 <.007 <.007	DDE DISSOLV (UG/L) (34653) <.003 <.003 <.003 <.003 <.003 <.003

DATE	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 FL/TRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
100.0	(02005)	(04037)	(04033)	(02070)	(02003)	(02001)	(02001)
OCT	A 3500		4.500	N. Challe	1000	4 245	1.255
10	<.010	<.015	E.004	<.016	<.034	<.005	<.009
FEB							
05	<.010	<.015	<.011	<.016	<.034	<.005	<.009
APR							
02	<.010	<.015	<.011	<.016	<.034	<.005	<.009
30	<.010	<.015	<.011	<.016	<.034	<.005	<.009
JUN							
04	<.010	<.015	.028	E.005	<.034	<.005	<.009
JUL							
02	<.010	<.015	<.011	<.016	<.034	<.005	<.009
02	E.006	E.018	.054	<.016	<.034	<.005	<.009
02	<.010	E.010	.040	<.016	<.034	<.005	<.009
AUG							
07	<.010	E.012	.014	<.016	<.034	<.005	<.009
SEP							
10	<.010	<.015	E.007	<.016	<.034	<.005	<.009

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

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WHOLE-WATER PESTICIDE ANALYSES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	AROCLOR 1016/ 1242 PCB WATER UNFL/TRD (UG/L) (81648)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	CHLOR- DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLOR- DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)
DEC													
19	0930	<.040	<.03	<.10	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1
10	1200	<.040	<.03	<.10	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1
DATE	DELTA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (34259)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN- I WATER WHOLE REC (UG/L) (34361)	ENDO- SULFAN II TOTAL (UG/L) (34356)	ENDO- SULFAN SULFATE TOTAL (UG/L) (34351)	ENDRIN ALDE- HYDE TOTAL (UG/L) (34366)	ENDRIN WATER UNFLITED REC (UG/L) (39390)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	LINDANE TOTAL (UG/L) (39340)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	P,P' DDT, TOTAL (UG/L) (39300)
DEC 19	<.09	<.020	<.1	<.04	<.6	<.2	<.060	<.800	<.030	<.030	<.1	<.04	<.1
SEP 10	<.09	<.020	<.1	<.04	<.6	<.2	<.060	<.800	<.030	<.030	<.1	<.04	<.1

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
DEC					JUN				
19	0932	490		2300	04	1112	790		60
MAR					05	1047	330	100	50
14	1122	110		60	11	1050	140	100	10
MAY					SEP				
23	1100	2400	1500	2000	10	1202	50	<100	<10
30	1107	170	300	150					

< 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 2000 TO SEPTEMBER 2001

10			OXI	GEN DISSO	LVED (MG/	L), WATE	R IEAR OC	TOBER 200	U IU SEF	TEMBER 20	01		
1 10.6 9.4 9.9 14.1 11.3 12.8 14.9 13.1 13.8 14.0 13.5 2 10.5 9.4 9.9 14.6 11.9 13.1 13.8 14.9 13.1 13.6 14.4 13.9 3 10.5 9.1 9.8 14.6 11.9 13.1 13.6 12.5 13.6 14.4 13.2 4 10.8 9.1 9.8 14.6 11.9 13.1 13.6 12.5 13.6 14.4 13.1 5 9.5 8.8 9.1 13.6 11.6 12.6 15.8 13.2 14.3 14.2 1 10.5 8.9 9.7 14.6 12.1 13.3 13.6 14.9 13.9 13.6 8 10.6 9.3 10.0 14.5 12.3 13.4 15.7 13.7 14.7 9 10.9 9.7 10.3 13.8 12.0 12.8 13.6 14.9 13.9 13.6 1 11.5 10.1 10.8 12.7 11.0 11.8 16.8 13.6 15.2 13.8 13.5 1 11.5 10.1 10.8 12.7 11.0 11.8 16.8 13.6 15.2 13.8 13.5 1 11.1 11.8 10.3 11.0 12.9 10.5 11.7 16.0 13.2 14.8 14.1 13.5 1 12.1 10.1 10.1 10.1 12.9 10.5 11.7 16.0 13.2 14.8 14.1 13.5 1 13.5 10.4 11.0 12.9 10.6 11.8 15.9 13.5 14.1 13.9 1 1 1 10.0 10.0 10.5 13.3 11.6 11.4 14.2 13.1 13.7 13.6 1 1 1 10.0 10.0 10.5 13.3 11.6 11.4 14.2 13.1 13.7 13.8 1 1 1 1 1 1 1 1 1 1	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
4 10.8 9.1 9.8 14.5 12.1 13.2 15.6 13.2 14.3 14.2 14.3 13.9 5 9.5 8.8 9.1 13.6 11.6 12.6 15.8 13.3 14.5 14.3 13.9 16.6 10.2 8.6 9.3 14.1 11.6 12.8 13.3 15.6 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 10.0 13.0 10.9 9.7 10.3 13.8 12.0 13.3 16.1 13.6 14.6 13.6 14.0 13.6 14.0 13.6 14.0 13.9 10.1 11.9 10.1 10.8 12.7 11.0 11.8 16.8 14.0 15.4 14.0 13.6 13.9 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 13.9 13.6 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0			OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	
4 10.8 9.1 9.8 14.5 12.1 13.2 15.6 13.2 14.3 14.2 14.3 13.9 5 9.5 8.8 9.1 13.6 11.6 12.6 15.8 13.3 14.5 14.3 13.9 16.6 10.2 8.6 9.3 14.1 11.6 12.8 13.3 15.6 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 10.0 13.0 10.9 9.7 10.3 13.8 12.0 13.3 16.1 13.6 14.6 13.6 14.0 13.6 14.0 13.6 14.0 13.9 10.1 11.9 10.1 10.8 12.7 11.0 11.8 16.8 14.0 15.4 14.0 13.6 13.9 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 13.9 13.6 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0	1	10.6	9.4	9.9	14.1	11.3	12.8	14.9	13.1	13.8	14.0	13.9	14.0
4 10.8 9.1 9.8 14.5 12.1 13.2 15.6 13.2 14.3 14.2 14.3 13.9 5 9.5 8.8 9.1 13.6 11.6 12.6 15.8 13.3 14.5 14.3 13.9 16.6 10.2 8.6 9.3 14.1 11.6 12.8 13.3 15.6 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 7 10.5 8.9 9.7 14.6 12.1 13.3 16.1 13.6 14.4 14.7 14.0 13.7 10.0 13.0 10.9 9.7 10.3 13.8 12.0 13.3 16.1 13.6 14.6 13.6 14.0 13.6 14.0 13.6 14.0 13.9 10.1 11.9 10.1 10.8 12.7 11.0 11.8 16.8 14.0 15.4 14.0 13.6 13.9 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 14.0 13.6 13.9 13.6 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0				9 8	14 4	11 9	13.1	14.9	12.5	13.6	14.4		14.1
C			9.0	9.9	14.6	12.1	13.3	15.3		14.0	14.4		14.2
The color of the			9.1	9.8	14.5	12.1	13.2	15.6		14.3	14.2		14.2
S	5	9.5			13.0	11.0	12.0	15.0	13.3	14.5	14.5	13.5	
S			8.6	9.3		11.6	12.8	16.0	13.4	14.7	14.0		13.8
10 11.5 10.1 10.8 12.7 11.0 11.8 16.8 14.0 15.4 14.0 13.1 11.1 11.1 11.2 10.8 11.7 16.5 13.7 15.1 14.1 13.8 12.2 12.0 10.3 11.0 12.7 10.8 11.7 16.5 13.2 14.8 14.1 13.9 14.1 11.9 10.4 11.0 12.9 10.6 11.1 14.1 16.9 13.4 15.2 14.1 13.9 14.1 11.9 10.4 11.0 12.9 10.6 11.8 15.9 13.5 14.6 13.9 15.2 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.2 14.1 13.9 13.6 13.0 13.0 10.5 13.3 11.6 12.4 14.2 13.1 13.9 15.2 14.1 13.9 13.6 14.1 13.9 13.6 14.1 13.9 13.6 14.1 13.9 13.6 13.0 10.5 13.3 11.7 12.5 13.1 10.9 12.0 13.8 13.6 13.1 13.0 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.1 13.7 13.8 13.6 13.0 13.0 13.0 13.1 13.1 14.0 13.3 13.1 12.7 13.0 13.8 13.6 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.1 13.1 13.1 13.1 13.1 13.7 13.8 13.1 13.1 13.1 13.1 13.1 13.1 13.7 13.1 13.1			8.9	9.7	14.6	12.1	13.3	16.1	13.6			13.6	13.7
10 11.5 10.1 10.8 12.7 11.0 11.8 16.8 14.0 15.4 14.0 13.1 11.1 11.1 11.2 10.8 11.7 16.5 13.7 15.1 14.1 13.8 12.2 12.0 10.3 11.0 12.7 10.8 11.7 16.5 13.2 14.8 14.1 13.9 14.1 11.9 10.4 11.0 12.9 10.6 11.1 14.1 16.9 13.4 15.2 14.1 13.9 14.1 11.9 10.4 11.0 12.9 10.6 11.8 15.9 13.5 14.6 13.9 15.2 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.1 14.1 13.9 15.2 14.1 13.9 13.6 13.0 13.0 10.5 13.3 11.6 12.4 14.2 13.1 13.9 15.2 14.1 13.9 13.6 14.1 13.9 13.6 14.1 13.9 13.6 14.1 13.9 13.6 13.0 10.5 13.3 11.7 12.5 13.1 10.9 12.0 13.8 13.6 13.1 13.0 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.7 13.8 13.6 13.0 13.0 13.1 13.1 13.7 13.8 13.6 13.0 13.0 13.0 13.1 13.1 14.0 13.3 13.1 12.7 13.0 13.8 13.6 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.2 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.6 13.1 13.1 13.7 13.8 13.1 13.1 13.1 13.1 13.1 13.7 13.8 13.1 13.1 13.1 13.1 13.1 13.1 13.7 13.1 13.1			9.3	10.0	13.8	12.3	12.8	16.8	13.6	15.2	13.8	13.5	13.7
11				10.8	12.7	11.0	11.8	16.8	14.0	15.4	14.0		13.8
15	2.2								40.5			12 0	13.9
15	11	11.8	10.3			10.5	11.7	16.5		14.8	14.1		14.0
15	4.74				12.1	11.0	11.4	16.9	13.4	15.2	14.1		14.0
15	14	11.9	10.6	11.1	11.2	10.8	11.0	16.6	13.9	15.2	14.1	13.9	14.0
15	15	11.9	10.4	11.0	12.9	10.6	11.8	15.9	13.5	14.6	13.9	13.6	13.8
17 10.7 9.5 10.1 13.3 11.7 12.5 13.1 10.9 12.0 13.8 13.6 13.6 13.0 13.8 13.6 13.6 13.0 13.8 13.6 13.6 13.6 13.6 13.6 13.6 13.7 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	16	11 0	10 0	10.5	13 3	11 6	12 4		13.1	13.7	13.8	13.4	13.6
18 10.7 9.7 10.2 14.0 12.1 12.9 12.7 11.2 11.9 13.8 13.6 19 15.0 13.1 14.1 12.4 13.3 13.1 12.7 13.0 13.8 13.6 13.6 13.8 13.6 13.6 13.1 13.8 13.6 13.6 13.1 13.7 13.6 13.8 13.6 13.1 13.7 13.6 13.1 13.7 13.6 13.8 13.6 13.1 13.7 13.6 13.8 13.6 13.1 13.7 13.6 13.8 13.6 13.1 13.7 13.6 13.8 13.6 14.8 14.2 13.1 10.7 11.4 16.9 14.8 15.8 14.1 13.6 13.9 15.0 14.7 24 12.1 10.7 11.4 16.9 14.8 15.8 14.1 13.6 13.9 15.0 14.8 14.2 12.1 10.7 11.4 16.9 14.8 15.8 14.1 13.6 13.9 15.0 14.8 14.2 12.1 10.7 11.1 15.8 13.8 13.8 14.1 13.8 14.0 15.0 14.8 14.2 12.1 10.7 11.1 15.8 13.8 14.7 14.3 13.8 14.0 15.0 14.8 14.8 14.2 12.1 10.7 11.1 15.6 13.3 14.1 14.0 13.8 14.0 15.0 14.8 14.2 12.9 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 14.2 12.9 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 14.2 13.1 13.8 13.4 10.9 12.1 15.1 13.2 14.0 14.1 13.8 13.8 14.9 14.3 14.9 14.3 13.8 13.8 13.6 14.8 14.1 14.0 14.8 14.4 14.5 13.1 13.8 14.0 15.0 14.5 13.1 13.8 14.2 12.6 14.0 14.8 14.4 14.1 13.8 13.9 14.9 14.3 13.1 13.8 13.8 13.8 14.3 14.1 14.0 13.8 14.0 14.9 14.5 13.1 13.8 14.0 14.0 14.8 14.4 14.5 13.1 13.8 14.0 13.8 14.0 14.9 14.5 13.1 13.8 14.0 14.0 14.8 14.4 14.5 13.8 13.9 14.2 14.0 14.5 13.1 13.8 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.8 14.4 14.1 14.2 15.1 13.2 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.8 14.4 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 14.1 15.0 13.4 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 14.1 15.0 13.4 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 14.1 13.8 13.9 9.6 14.1 14.5 13.1 13.2 14.0 12.9 12.1 12.6 14.1 14.0 14.8 14.1 14.2 15.1 13.0 13.6 12.8 12.4 12.0 12.9 12.1 12.6 14.1 10.0 13.5 13.8 14.3 14.1 14.1 14.2 15.1 13.0 13.6 12.8 12.4 12.0 12.2 12.8 12.8 8.9 14.1 14.1 14.2 15.1 13.0 13.6 12.8 12.4 12.0 12.2 12.8 12.8 8.9 14.1 14.1 14.2 14.1 14.2 15.1 13.0 13.6 12.8 12.4 12.0 12.3 13.9 9.6 13.1 14.1 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.2 14.1 14.1	17	10.7	9.5				10 5	12 1	10 0	12.0	13.8		13.7
20	18	10.7	9.7	10.2	14.0	12.1	12.9	12.7	11.2	11.9	13.8		13.7
11 1.5 10.3 10.9 15.4 13.4 14.3 13.6 13.2 13.5 14.3 13.4 14.2 13.1 13.6 13.9 14.2 13.5 13.6 14.8 14.2 13.1 13.6 13.9 15.0 14.7 14.5 13.6 13.9 15.0 14.8 15.6 14.8 15.8 14.1 13.8 14.0 15.0 14.8 15.5 14.4 13.8 14.0 15.0 14.8 15.5 14.4 13.8 14.0 15.0 14.8 15.5 14.4 13.8 14.0 15.0 14.8 15.5 14.4 13.8 14.0 15.0 14.8 15.5 14.1 13.8 14.0 15.0 14.8 15.5 13.9 14.1 14.8 14.5 14.8 14.5 14.3 13.8 14.1 14.8 14.6 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.8 14.6 14.6 14.8 14.					14.1	12.4	13.3	13.1	12.7	13.0	13.8	13.6	13.6
26 12.4 10.4 11.4 17.0 15.0 16.0 14.3 13.8 14.1 14.8 14.6 26 12.0 10.2 11.1 15.8 13.8 14.7 14.3 14.2 14.2 14.2 14.2 14.6 27 12.3 10.0 11.1 14.5 13.1 13.8 14.2 12.6 14.0 14.8 14.4 28 12.4 9.8 11.1 15.6 13.3 14.1 14.0 13.8 14.0 14.8 14.4 29 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 29 12.9 10.1 11.6 15.7 13.3 14.4 15.0 14.5 30 13.4 10.9 12.1 15.1 13.2 14.0 14.1 13.8 13.9 14.9 14.3 31 13.8 11.4 12.4 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 14.2 15.1 13.2 14.0 13.5 13.8 14.1 15.0 13.4 14.1 14.2 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 14.0 13.5 13.9 14.9 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 12.9 14.1 14.5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.5 10.7 7.2 16 15.8 15.1 15.4 16.5 13.9 15.0 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 12.3 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.1 12.4 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.1 12.4 12.0 12.2 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.5 13.4 12.5 13.4 12.5 13.3	20				15.0	13.1			12.9			13.0	13.7
26 12.4 10.4 11.4 17.0 15.0 16.0 14.3 13.8 14.1 14.8 14.6 26 12.0 10.2 11.1 15.8 13.8 14.7 14.3 14.2 14.2 14.2 14.2 14.6 27 12.3 10.0 11.1 14.5 13.1 13.8 14.2 12.6 14.0 14.8 14.4 28 12.4 9.8 11.1 15.6 13.3 14.1 14.0 13.8 14.0 14.8 14.4 29 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 29 12.9 10.1 11.6 15.7 13.3 14.4 15.0 14.5 30 13.4 10.9 12.1 15.1 13.2 14.0 14.1 13.8 13.9 14.9 14.3 31 13.8 11.4 12.4 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 14.2 15.1 13.2 14.0 13.5 13.8 14.1 15.0 13.4 14.1 14.2 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 14.0 13.5 13.9 14.9 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 12.9 14.1 14.5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.5 10.7 7.2 16 15.8 15.1 15.4 16.5 13.9 15.0 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 12.3 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.1 12.4 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.1 12.4 12.0 12.2 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.5 13.4 12.5 13.4 12.5 13.3	21	11.5	10.3	10.9	15.4	13.4	14.3	13.6	13.2	13.5	14.3	13.4	13.9
26 12.4 10.4 11.4 17.0 15.0 16.0 14.3 13.8 14.1 14.8 14.6 26 12.0 10.2 11.1 15.8 13.8 14.7 14.3 14.2 14.2 14.2 14.2 14.6 27 12.3 10.0 11.1 14.5 13.1 13.8 14.2 12.6 14.0 14.8 14.4 28 12.4 9.8 11.1 15.6 13.3 14.1 14.0 13.8 14.0 14.8 14.4 29 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 29 12.9 10.1 11.6 15.7 13.3 14.4 15.0 14.5 30 13.4 10.9 12.1 15.1 13.2 14.0 14.1 13.8 13.9 14.9 14.3 31 13.8 11.4 12.4 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 14.2 15.1 13.2 14.0 13.5 13.8 14.1 15.0 13.4 14.1 14.2 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 14.0 13.5 13.9 14.9 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 12.9 14.1 14.5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.5 10.7 7.2 16 15.8 15.1 15.4 16.5 13.9 15.0 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 12.3 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.1 12.4 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.1 12.4 12.0 12.2 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.5 13.4 12.5 13.4 12.5 13.3	22	11.8	10.3	11.0	15.9	14.0	14.9	13.7		13.6	14.8	14.2	14.6
26 12.4 10.4 11.4 17.0 15.0 16.0 14.3 13.8 14.1 14.8 14.6 26 12.0 10.2 11.1 15.8 13.8 14.7 14.3 14.2 14.2 14.2 14.2 14.6 27 12.3 10.0 11.1 14.5 13.1 13.8 14.2 12.6 14.0 14.8 14.4 28 12.4 9.8 11.1 15.6 13.3 14.1 14.0 13.8 14.0 14.8 14.4 29 12.9 10.1 11.6 15.7 13.3 14.1 14.0 13.8 14.0 14.9 14.4 29 12.9 10.1 11.6 15.7 13.3 14.4 15.0 14.5 30 13.4 10.9 12.1 15.1 13.2 14.0 14.1 13.8 13.9 14.9 14.3 31 13.8 11.4 12.4 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 13.5 13.8 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 13.8 13.9 14.9 14.3 14.1 14.0 14.1 14.2 15.1 13.2 14.0 13.5 13.8 14.1 15.0 13.4 14.1 14.2 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 14.0 13.5 13.9 14.9 14.1 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 12.9 14.1 14.5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.5 10.7 7.2 16 15.8 15.1 15.4 16.5 13.9 15.0 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 12.3 13.3 14.4 12.2 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.5 12.4 12.5 12.1 12.4 9.0 7.6 12.1 12.1 12.4 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.1 12.4 12.0 12.2 12.1 12.3 9.8 6.7 9 12.4 12.5 13.4 12.5 13.4 12.5 13.4 12.5 13.3	23	12.1		11.2	16.5	14.4	15.4	14.1		13.9	15.0		14.8
26			10.7	11.4	17.0	15.0	16.0	14.3		14.1	14.8		14.7
MAX MIN MEAN ME	2.7	14.4	10.4		17.0	13.0							
MAX MIN MEAN ME				11.1	15.8		14.7	14.3		14.2	15.0		14.8
MAX MIN MEAN ME				11.1	14.5		13.8	14.2		14.0	14.8	14.4	14.6
MAX MIN MEAN ME				11.1	15.0		14.4	14.0			15.0	14.5	14.7
MONTH 13.8 8.6 10.7 17.0 10.5 13.3 16.9 10.9 14.1 15.0 13.4 DAY MAX MIN MEAN FERRUARY MARCH APRIL 1 14.5 13.9 14.2 15.0 13.0 14.0 12.9 12.1 12.6 14.1 10.0 2 14.4 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 12.8 8.9 4 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 13.1 12.6 12.8 12.0 7.8 7.8 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.6 10.7 7.2 16 15.8 15.1 15.4 16.5 13.9 15.0 12.4 11.7 12.1 10.8 7.5 8 15.6 14.8 15.1 15.4 16.5 13.9 15.0 12.4 11.7 12.1 10.8 7.5 9 15.6 14.8 15.1 15.4 16.5 13.9 15.0 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.6 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.8 13.3 14.4 12.6 12.1 12.3 9.8 6.7 10 14.9 14.1 14.3 16.5 13.2 14.7 12.2 11.7 11.9 9.0 7.6 10 14.9 14.1 14.3 16.5 13.2 14.7 12.2 11.7 11.9 9.0 7.1 11 15.4 14.3 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 13.0 12.0 11.8 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 13.0 12.0 11.8 11.5 11.7 9.2 7.3 13 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.1 14.5 13.5 12.9 11.9 11.5 11.1 11.9 11.5 11.7 9.2 7.3 13 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 18 15.8 14.7 15.2 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 9.2 7.3 13 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 18 15.8 14.7 15.2 14.5 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 9.8 8.5 11.5 15.1 15.9 15.0 12.8 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.1 12.3 9.8 8.5 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.5 13.4 11.4 10.0 9.0 9.0 8.5 12.8 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.5 13.4 11.4 11.9 12.0 0.9 9.0 8.5 12.8 12.4 12.6 12.0 12.3 9.8 8.5 12.4 12.9 13.3 12.6 12.0 12.3 9.8 8.5 12.4 12.9 13.3 12.6 12.0 12.3 9.8 8.5 12.4 12.9 13.3 12.6 12.0 12.8 12.9 13.3 12.6 12.0 12.8 12.9 13.3 12.6 12.0 12.8 12.9 13.9				12.1	15.1					13.9	14.9		14.5
DAY MAX MIN MEAN MIN MEAN MAX MIN MAX MIN MEAN MAX MIN MEAN MAX MIN M	31	13.8	11.4	12.4				14.0	13.5	13.8	14.3	14.1	14.2
Tebruary March Land La	MONTH	13.8	8.6	10.7	17.0	10.5	13.3	16.9	10.9	14.1	15.0	13.4	14.1
1 14.5 13.9 14.2 15.0 13.0 14.0 12.9 12.1 12.6 14.1 10.0 2 14.4 14.1 14.2 15.1 13.2 14.0 12.9 12.1 12.6 13.9 9.6 3 15.0 14.1 14.6 15.3 13.3 14.1 13.1 12.0 12.8 12.8 8.9 4 15.5 14.8 15.1 14.2 13.2 13.6 13.1 12.6 12.8 12.0 7.8 5 15.1 14.7 14.9 14.5 13.0 13.6 12.8 12.4 12.6 10.7 7.2 6 15.8 14.9 15.4 16.5 13.9 15.0 12.4 12.0 12.2 11.0 6.8 7 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.1 12.1 10.8 7.5 9 15.6 14.8 15.1 15.8 13.3 14.4 12.6 12.1 12.4 9.0 7.6	DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
6 15.8 14.9 15.4 12.4 12.0 12.2 11.0 6.8 7 15.8 15.1 15.4 16.5 13.9 15.0 12.4 11.7 12.1 10.8 7.5 8 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.1 12.3 9.8 6.7 9 15.6 14.8 15.1 15.9 13.3 14.5 12.4 12.1 12.3 9.8 6.7 10 14.9 14.1 14.3 16.5 13.2 14.7 12.2 11.7 11.9 9.0 7.6 10 14.9 14.1 14.3 16.5 13.2 14.7 12.2 11.7 11.9 9.0 7.1 11 15.4 14.3 14.9 16.7 13.5 14.9 11.8 11.5 11.6 9.0 7.1 12 16.2 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 13.0 12.0 11.8 11.8 9.9 7.3 14 15.5 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 9.2 7.3 14 15.5 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 12.9 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 15.8 14.8 15.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 12.1 15.9 14.3 15.0 12.9 12.3 12.6 11.9 12.2 10.3 8.8 15.8 14.4 15.0 12.9 12.3 12.6 12.0 12.3 9.5 8.8 12.6 12.0 12.3 9.5 8.8 12.6 12.0 12.3 9.5 8.8 12.6 12.9 13.5 14.3 15.0 12.8 12.4 12.9 11.5 11.1 11.3 9.0 8.5 12.1 13.4 12.9 12.2 11.4 12.0 9.7 8.8 12.1 14.4 15.9 13.5 14.3 15.0 12.8 12.4 12.9 12.3 12.2 11.4 12.0 9.7 8.8 12.1 14.9 13.5 14.3 15.0 12.9 12.3 12.6 11.9 12.2 10.0 9.7 8.8 12.1 14.9 13.5 14.3 15.0 12.9 12.3 12.6 11.0 9.6 10.3 9.3 8.1 12.4 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 12.4 15.9 14.3 15.0 12.9 12.3 12.6 11.0 9.6 10.3 9.3 8.1 12.4 15.9 14.3 15.0 12.9 12.3 12.6 11.0 9.6 10.3 9.3 8.1 12.4 15.9 14.3 15.0 12.9 12.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 12.9 12.9 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 12.9 12.9 13.9 13.3 12.6 13.3 13.8 9.9 11.8 8.9 8.3 13.0 11.8 10.7 11.8 8.9 8.3 13.0 11.6 11.8 12.0 12.1 12.4 12.6 13.3 13.8 9.9 11.8 8.9 8.3 13.0 11.8 11.9 11.8 12.6 13.3 13.8 9.9 11.8			FEBRUARY			MARCH			APRIL			MAY	
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11 15.4 14.3 14.9 16.7 13.5 14.9 11.8 11.5 11.6 9.0 7.1 12 16.2 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 12.5 11.8 11.5 11.7 9.2 7.3 14 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6			15.1	15.4	16.5		15.0	12.4	11.7	12.1	10.8	7.5	9.3
11 15.4 14.3 14.9 16.7 13.5 14.9 11.8 11.5 11.6 9.0 7.1 12 16.2 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 12.5 11.8 11.5 11.7 9.2 7.3 14 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6		15.6	14.8	15.1	15.9		14.5	12.4	12.1	12.3	9.8	7.6	8.6
11 15.4 14.3 14.9 16.7 13.5 14.9 11.8 11.5 11.6 9.0 7.1 12 16.2 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 12.5 11.8 11.5 11.7 9.2 7.3 14 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6		14.9	14.1	14.3	16.5		14.7	12.2	11.7	11.9	9.0	7.1	8.0
12 16.2 14.9 15.6 17.5 13.3 15.1 11.9 11.5 11.7 9.2 7.3 13 16.0 15.4 15.6 14.7 11.9 13.0 12.0 11.8 11.8 9.9 7.3 14 15.5 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8													
13 16.0 15.4 15.6 14.7 11.9 13.0 12.0 11.8 11.8 9.9 7.3 14 15.5 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.4 10.0 7.9 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.8 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5				14.9	16.7		14.9	11.8	11.5				8.1
14 15.5 14.5 15.1 12.9 11.9 12.5 11.8 11.5 11.7 10.2 8.2 15 15.5 14.3 14.9 13.6 12.3 13.0 11.6 11.3 11.7 10.2 8.2 16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8				13.0	17.5								8.6
16 14.9 14.4 14.7 14.4 12.5 13.4 11.4 10.9 11.2 10.0 8.3 17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.2 11.4 12.0 9.7 8.8												8.2	9.1
17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4	15	15.5	14.3	14.9	13.6	12.3	13.0	11.6	11.3	11.4	10.0	7.9	9.0
17 15.0 14.1 14.5 13.5 12.4 12.9 11.5 11.1 11.3 9.6 8.3 18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4	16	14 9	14 4	14 7	14 4	12 5	13.4	11.4	10.9	11.2	10.0	8.3	9.1
18 15.8 14.7 15.2 14.5 12.1 13.4 12.1 11.4 11.8 10.0 8.6 19 16.1 15.1 15.5 15.0 12.8 13.9 12.6 11.9 12.2 10.3 8.8 20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5												8.3	8.9
20 15.8 14.8 15.2 15.2 12.6 13.8 12.6 12.0 12.3 9.8 8.5 21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7	18				14.5								9.3
21 15.4 14.1 14.7 13.6 12.0 12.8 12.6 12.0 12.3 9.5 8.8 22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3													9.5
22 15.3 14.2 14.7 12.4 11.9 12.3 12.2 11.4 12.0 9.7 8.8 23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6	20	15.8	14.8	15.2	15.4	12.0	13.8	12.0	12.0	12.3		0.5	3.1
23 15.8 14.4 15.0 12.9 12.3 12.6 11.8 10.7 11.3 9.0 8.1 24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6	21	15.4									9.5		9.1
24 15.9 14.3 15.0 12.8 12.4 12.6 11.0 9.6 10.3 9.3 8.1 25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6											9.7		9.1
25 14.9 13.5 14.3 13.1 12.0 12.7 11.1 9.2 10.0 9.0 8.4 26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6							12.6	11.8		11.3	9.0		8.7
26 14.9 13.2 13.9 13.3 12.6 13.0 12.2 9.7 10.9 9.0 8.5 27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6							12.7	11.1		10.0			8.7
27 15.0 13.1 14.0 13.6 12.9 13.3 12.6 9.9 11.2 8.9 8.6 28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 3.0 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6													
28 15.0 12.9 13.9 14.1 13.2 13.6 13.2 9.5 11.3 9.1 8.7 29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6										10.9	9.0		8.7
29 13.7 12.6 13.3 13.8 9.9 11.8 8.9 8.3 30 12.9 11.8 12.6 14.2 10.0 12.1 9.2 8.6										11.3	9.1		8.9
	29				13.7	12.6	13.3	13.8	9.9	11.8	8.9	8.3	8.7
31 12.9 12.2 12.5 9.5 8.5													8.9
	31				12.9	12.2	12.5				9.5	0.5	9.1
MONTH 16.2 12.9 14.8 17.5 11.8 13.5 14.2 9.2 11.8 14.1 6.7	MONTH	16.2	12.9	14.8	17.5	11.8	13.5	14.2	9.2	11.8	14.1	6.7	9.1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ir.
1	9.6	8.3	9.1	10.4	6.8	8.5	10.6	7.7	9.1	10.8	7.9	9.2
2	9.3	8.9	9.1	8.6	6.8	7.9	10.7	7.7	9.1	11.2	8.2	9.6
3	9.4	8.9	9.2	9.6	7.9	8.7	10.5	7.4	8.8	11.2	8.7	9.9
4	9.6	9.0	9.3	9.7	8.0	8.7	9.4	7.2	8.0	11.1	8.6	9.7
5	9.5	9.0	9.2	9.6	8.0	8.8	8.8	7.0	7.7	11.8	8.1	9.7
6	9.5	8.8	9.1	10.6	8.0	9.2	8.7	6.8	7.7	11.8	8.3	10.0
7	9.8	8.8	9.2	10.9	8.4	9.6	9.6	6.9	8.1	11.7	8.3	9.9
8	10.1	8.5	9.2	9.6	8.1	8.9	9.8	6.8	8.1	11.6	8.4	9.9
9	10.2	8.6	9.4	11.1	8.2	9.6	9.8	6.7	8.1	11.2	7.7	9.5
10	10.5	8.3	9.4	10.2	7.9	9.1	9.1	6.5	7.4	10.7	7.7	9.2
11	10.6	8.6	9.5	10.4	7.7	9.1	7.2	6.1	6.6	10.9	7.2	8.9
12	10.9	8.4	9.6	11.3	7.9	9.5	7.2	6.4	6.9	11.4	7.8	9.4
13	10.7	8.1	9.3	11.6	8.3	9.9	7.3	7.1	7.2	11.2	7.8	9.3
14	10.5	7.6	9.0	11.5	8.3	9.9	8.2	7.2	7.6	9.0	7.0	7.9
15	10.2	7.9	9.1	11.2	8.4	9.8	8.4	7.3	7.8	11.1	7.3	9.1
16	9.0	7.6	8.3	10.9	8.1	9.5	9.1	7.3	8.1	11.4	7.9	9.5
17	7.8	7.1	7.4	11.1	8.1	9.6	9.1	7.3	8.1	11.4	7.8	9.4
18	8.0	7.5	7.7	10.4	7.4	8.9	9.7	7.4	8.5	11.4	8.0	9.5
19	7.9	7.3	7.5	10.9	7.6	9.3	9.4	7.6	8.4	11.2	7.8	9.3
20	8.5	7.5	7.9	11.3	7.0	9.7	10.0	7.5	8.6	9.6	7.8	8.6
21	8.3	7.3	7.8	11.6	8.3	10.0	10.2	7.6	8.9	10.1	7.5	8.5
22	8.9	7.5	8.2	12.1	8.0	10.0	10.3	7.6	9.0	9.2	7.9	8.4
23	8.2	7.7	7.9				10.0	7.7	8.7	9.8	7.4	8.5
24	8.1	7.7	7.9	11.6	7.9	9.8				9.4	7.6	8.4
25	8.5	7.9	8.2	10.9	7.6	9.2	10.8	8.0	9.3	9.4	7.8	8.5
26	8.7	7.8	8.3	8.7	6.5	7.4	11.0	8.1	9.5	8.7	8.1	8.4
27	9.2	7.8	8.4	9.1	6.7	7.9	10.4	8.0	9.3	9.4	8.3	8.8
28	9.7	7.6	8.5	9.8	7.5	8.6	11.0	8.1	9.4	9.8	8.9	9.3
29	9.5	7.3	8.4	9.4	7.5	8.4	10.9	8.0	9.5	10.4	9.2	9.7
30	10.2	6.8	8.6	9.7	7.6	8.7	10.8	8.1	9.4	10.6	9.5	10.0
31				10.4	8.1	9.1	10.9	8.1	9.4			
MONTH	10.9	6.8	8.7	12.1	6.5	9.1	11.0	6.1	8.4	11.8	7.0	9.2
YEAR	17.5	6.1	11.4									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBE	ir.	N	OVEMBER		Di	ECEMBER			JANUAR	tY.
1	8.3	7.6	7.9	8.7	8.1	8.5	8.4	7.5	8.0	7.1	7.1	7.1
2	8.3	7.7	7.9	8.8	8.2	8.5	8.4	7.5	8.0	7.2	7.1	7.1
3	8.4	7.7	8.0	8.8	8.3	8.6	8.4	7.6	8.1	7.2	7.1	7.1
4	8.5	7.8	8.0	8.8	8.3	8.6	8.4	7.5	8.1	7.2	7.1	7.1
5	8.1	7.7	7.9	8.7	8.2	8.5	8.4	7.5	8.1	7.2	7.1	7.1
6	8.2	7.6	7.8	8.7	8.1	8.5	8.4	7.6	8.2	7.2	7.1	7.2
7	8.3	7.7	8.0	8.7	8.2	8.5	8.4	7.7	8.2	7.2	7.1	7.2
8	8.2	7.8	8.0	8.7	8.3	8.6	8.3	7.7	8.1			
9	8.2	7.8	8.0	8.6	8.2	8.5	8.4	7.6	8.2	7.2	7.2	7.2
10	8.3	7.6	8.0	8.5	7.9	8.3	8.5	7.8	8.2	7.3	7.2	7.2
11	8.4	7.7	8.1	8.4	7.6	8.1	8.4	7.7	8.2	7.2	7.2	7.2
12	8.5	7.8	8.2	8.3	7.7	8.0	8.5	7.7	8.3	7.3	7.2	7.2
13				8.0	7.5	7.7	8.5	7.8	8.3	7.3	7.2	7.2
14	8.7	8.1	8.4	7.5	7.2	7.4	8.5	7.7	8.2	7.3	7.2	7.2
15	8.7	8.2	8.4	8.1	7.1	7.7	8.3	7.5	7.9	7.3	7.2	7.3
16	8.4	8.1	8.3	8.2	7.4	7.8	7.8	7.3	7.5	7.3	7.2	7.3
17	8.1	7.8	7.9	8.2	7.5	7.8	7.3	6.8	7.2	7.4	7.3	7.3
18	8.0	7.7	7.8	8.3	7.5	7.9	7.1	6.5	6.9	7.4	7.3	7.3
19	8.6	7.7	8.2	8.2	7.5	7.9	6.5	6.3	6.4	7.4	7.3	7.3
20	8.3	7.7	8.1	8.4	7.6	8.1	6.6	6.5	6.6	7.3	7.2	7.2
21	7.7	7.4	7.5	8.5	7.7	8.2	6.6	6.6	6.6	7.4	7.2	7.3
22	7.9	7.3	7.5	8.5	7.8	8.2	6.7	6.6	6.7	7.4	7.3	7.4
23	7.9	7.3	7.5	8.5	7.8	8.2	6.8	6.7	6.7	7.4	7.3	7.4
24	8.0	7.4	7.7	8.5	7.8	8.2	6.8	6.8	6.8	7.5	7.3	7.4
25	8.2	7.4	7.8	8.4	7.8	8.2	6.9	6.8	6.8	7.5	7.4	7.4
26	8.2	7.4	7.8	8.2	7.7	8.0	6.9	6.9	6.9	7.5	7.4	7.5
27	8.2	7.4	7.8	8.1	7.3	7.7	7.0	6.9	6.9	7.6	7.4	7.5
28	8.5	7.5	8.1	8.4	7.6	8.0	7.0	6.9	7.0	7.6	7.4	7.5
29	8.6	7.7	8.2	8.4	7.7	8.1				7.6	7.4	7.5
30	8.6	7.8	8.2	8.3	7.7	8.0	7.1	7.0	7.0	7.5	7.4	7.4
31	8.6	7.9	8.3				7.1	7.0	7.1	7.4	7.3	7.3
MAX	8.7	8.2	8.4	8.8	8.3	8.6	8.5	7.8	8.3	7.6	7.4	7.5
MIN	7.7	7.3	7.5	7.5	7.1	7.4	6.5	6.3	6.4	7.1	7.1	7.1

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2	7.5 7.5	7.3	7.4	8.2 8.2	7.4	7.9 8.0	6.8	6.6	6.7	9.2	8.6	8.9
3	7.5	7.3	7.4	8.3	7.6	8.0	7.1	6.7	7.0	9.1	8.5	8.8
4	7.6	7.4	7.4	8.0	7.5	7.8	7.2	7.0	7.1	8.9	8.4	8.7
5	7.4	7.2	7.3	7.8	7.3	7.5	7.3	7.1	7.2	8.7	8.0	8.4
6	7.5	7.2	7.3				7.2	7.1	7.1	8.5	7.3	8.1
7	7.7	7.4	7.4	8.5	7.9	8.2	7.1	7.0	7.1	8.4	7.4	7.9
8	7.6	7.4	7.5	8.5	8.0	8.3	7.1	6.9	7.0	8.0	7.3	7.5
9 10	7.8 7.6	7.4	7.5	8.5 8.6	7.9	8.3	7.1 7.1	6.9	7.0	7.6	7.2	7.4
11 12	7.5 7.7	7.3	7.4	8.7 8.7	8.1	8.4	7.0 6.8	6.7	6.8	7.7 8.0	7.2	7.5 7.7
13	7.6	7.4	7.5	8.4	7.1	7.8	6.9	6.8	6.8	8.2	7.4	7.7
14	7.6	7.3	7.4	7.5	7.2	7.3	7.0	6.9	6.9	8.2	7.6	7.8
15	7.7	7.3	7.4	7.6	7.1	7.4	7.1	6.9	7.0	8.3	7.6	7.9
16	7.5	7.4	7.4	8.0	7.3	7.8	7.2	7.0	7.1	8.3	7.7	8.0
17	7.6	7.3	7.4	7.8	7.2	7.4	7.2	7.1	7.2	8.0	7.6	7.8
18	7.7	7.3	7.5	8.0	7.2	7.6	7.3	7.1	7.2	7.9	7.5	7.8
19	7.8	7.4	7.5	8.2	7.3	7.9	7.4	7.1	7.2	8.1	7.6	7.8
20	7.9	7.5	7.6	8.2	7.3	7.9	7.3	7.1	7.2	8.1	7.6	7.8
21	8.1	7.5	7.7	8.2	7.2	7.4	7.4	7.1	7.3	7.9	7.7	7.7
22	7.8	7.6	7.8	7.2	7.1	7.1	7.6	7.2	7.4	7.8	7.5	7.6
23	8.1	7.4	7.6	7.2	7.0	7.1	7.9	7.3	7.6	7.6	7.4	7.5
24	8.2	7.6	7.9	7.0	6.9	6.9	8.1	7.3	7.7	7.7	7.4	7.5
25	7.9	7.3	7.6	6.9	6.8	6.9	8.1	7.3	7.7	7.6	7.5	7.5
26	7.9	7.2	7.3	7.0	6.9	6.9	8.5	7.5	7.9	7.5	7.4	7.5
27	8.1	7.3	7.7	7.1	6.9	7.0	8.6	7.7	8.3	7.4	7.3	7.4
28	8.2	7.4	7.8	7.2	6.9	7.1	8.8	7.8	8.4	7.5	7.3	7.4
29				7.2	6.9	7.0	8.9	8.2	8.6	7.5	7.3	7.4
30 31				7.1	7.0 6.8	7.0	9.1	8.4	8.7	7.6 7.7	7.4	7.5 7.6
MAX	8.2			8.7							8.7	
MIN	7.4	7.6	7.9	6.9	8.1 6.8	8.4 6.9	9.1 6.8	6.6	8.7 6.7	9.2 7.4	7.2	8.9 7.4
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN	MEDIAN		MIN AUGUST	MEDIAN		MIN SEPTEMB	
		JUNE			JULY			august			SEPTEMB	ER
1	7.7	JUNE 7.4	7.6	8.7	JULY 7.9	8.3	8.6	AUGUST	8.2	8.9	SEPTEMB	ER 8.6
1 2	7.7 7.6	JUNE 7.4 7.4	7.6 7.4	8.7 8.2	JULY 7.9 7.8	8.3 7.9	8.6 8.7	AUGUST 7.7 7.8	8.2 8.3	8.9 9.0	8.2 8.4	ER 8.6 8.7
1	7.7	JUNE 7.4	7.6	8.7	JULY 7.9	8.3	8.6	AUGUST	8.2	8.9	SEPTEMB	ER 8.6
1 2 3	7.7 7.6 7.7	JUNE 7.4 7.4 7.4	7.6 7.4 7.6	8.7 8.2 8.3	JULY 7.9 7.8 7.7	8.3 7.9 8.1	8.6 8.7 8.6	7.7 7.8 7.9	8.2 8.3 8.2	8.9 9.0 9.0	8.2 8.4 8.4	8.6 8.7 8.8
1 2 3 4 5	7.7 7.6 7.7 7.7 7.6	JUNE 7.4 7.4 7.4 7.5 7.4	7.6 7.4 7.6 7.5	8.7 8.2 8.3 8.4 8.2	7.9 7.8 7.7 7.8 7.8	8.3 7.9 8.1 8.1	8.6 8.7 8.6 8.4 8.1	7.7 7.8 7.9 7.7	8.2 8.3 8.2 8.0 7.6	8.9 9.0 9.0 9.0 9.1	8.2 8.4 8.4 8.6 8.5	8.6 8.7 8.8 8.8 8.8
1 2 3 4	7.7 7.6 7.7 7.7	JUNE 7.4 7.4 7.4 7.5	7.6 7.4 7.6 7.6	8.7 8.2 8.3 8.4	7.9 7.8 7.7 7.8 7.8 7.8	8.3 7.9 8.1 8.1 8.1	8.6 8.7 8.6 8.4 8.1	7.7 7.8 7.9 7.7 7.6	8.2 8.3 8.2 8.0	8.9 9.0 9.0 9.0	8.2 8.4 8.4 8.6	8.6 8.7 8.8 8.8
1 2 3 4 5	7.7 7.6 7.7 7.7 7.6	JUNE 7.4 7.4 7.5 7.4 7.5	7.6 7.4 7.6 7.6 7.5	8.7 8.2 8.3 8.4 8.2	7.9 7.8 7.7 7.8 7.8	8.3 7.9 8.1 8.1	8.6 8.7 8.6 8.4 8.1	7.7 7.8 7.9 7.7	8.2 8.3 8.2 8.0 7.6	8.9 9.0 9.0 9.1	8.2 8.4 8.4 8.6 8.5	8.6 8.7 8.8 8.8 8.8
1 2 3 4 5	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5	7.4 7.4 7.4 7.5 7.4 7.5 7.6 7.8	7.6 7.4 7.6 7.6 7.5 7.5 7.7 7.8 8.1	8.7 8.2 8.3 8.4 8.2 8.6 8.7	7.9 7.8 7.7 7.8 7.8 7.8 7.9	8.3 7.9 8.1 8.1 8.1	8.6 8.7 8.6 8.4 8.1	7.7 7.8 7.9 7.7 7.6	8.2 8.3 8.2 8.0 7.6 7.7	8.9 9.0 9.0 9.1 9.1 9.1 9.1	8.2 8.4 8.4 8.6 8.5	8.6 8.7 8.8 8.8 8.9 8.9
1 2 3 4 5	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3	JUNE 7.4 7.4 7.5 7.4 7.5 7.6	7.6 7.4 7.6 7.5 7.5 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5	JULY 7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0	8.3 7.9 8.1 8.1 8.1 8.3	8.6 8.7 8.6 8.4 8.1	7.7 7.8 7.9 7.7 7.6 7.5 7.6	8.2 8.3 8.2 8.0 7.6 7.7 8.0	8.9 9.0 9.0 9.1 9.1 9.1	8.2 8.4 8.4 8.6 8.5 8.6	8.6 8.7 8.8 8.8 8.8 8.9
1 2 3 4 5	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5	7.4 7.4 7.4 7.5 7.4 7.5 7.6 7.8	7.6 7.4 7.6 7.6 7.5 7.5 7.7 7.8 8.1	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5	JULY 7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8	8.3 7.9 8.1 8.1 8.3 8.4	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6	8.2 8.3 8.2 8.0 7.6 7.7 8.0 8.1 8.2	8.9 9.0 9.0 9.1 9.1 9.1 9.1	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7	8.6 8.7 8.8 8.8 8.9 8.9
1 2 3 4 5 6 7 8 9 10	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6	7.4 7.4 7.5 7.4 7.5 7.4 7.5 7.6 7.8 7.8 8.1 8.2	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6	JULY 7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 7.8	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.7	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7	8.2 8.3 8.2 8.0 7.6 7.7 8.0 8.1 8.0 7.5	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.5 8.4	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9
1 2 3 4 5 6 7 8 9 10	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.6 8.8	7.4 7.4 7.5 7.4 7.5 7.4 7.5 7.8 8.1 8.2 8.3	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.5 8.7	JULY 7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 8.0 8.0 7.8 8.3	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.4	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.7	7.7 7.8 7.9 7.7 7.6 7.6 7.6 7.6 7.7	8.2 8.3 8.2 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.5	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.8 8.9	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9
1 2 3 4 5 6 7 8 9 10	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6	7.4 7.4 7.5 7.4 7.5 7.4 7.5 7.6 7.8 7.8 8.1 8.2	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.4 8.5 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.7 7.5 7.5	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.5	8.9 9.0 9.0 9.1 9.1 9.1 9.0 8.9 8.8 8.9	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.5 8.4	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 8.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.7 7.6 7.7 7.6 8.1 8.3 8.5 8.6 8.8 8.8 8.7	7.4 7.4 7.5 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6 8.7 8.8 8.9 8.8	7.9 7.8 7.7 7.8 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0 8.0 8.0 8.2 8.2	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.7 7.5 7.5 7.7	7.7 7.8 7.9 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4	8.2 8.3 8.2 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.4 7.5	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.8 8.9 8.8 8.9 8.4 8.6	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.5 8.4 8.0 7.8 7.8	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.9 8.7 8.4 7.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7	7.4 7.4 7.4 7.5 7.4 7.5 7.8 7.8 8.1 8.2 8.3 8.1	7.6 7.4 7.6 7.6 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.5 8.4	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6 8.7 8.8 8.9 8.8	7.9 7.8 7.8 7.8 7.9 7.8 8.0 7.8 8.0 8.0 7.8 8.1	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.4 8.5 8.6 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.7 7.5 7.7 7.8	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.5 7.6 7.7	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.6	8.2 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 8.4 7.8 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 8.1 8.2 8.3 8.3 8.1	7.6 7.4 7.6 7.5 7.5 7.7 8.1 8.2 8.4 8.5 8.6 8.5 8.4	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.8	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0 8.0 8.0 8.3 8.2 8.1	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.5 7.5 7.5 7.8 8.2	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.4 7.5 7.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.9
1 2 3 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7	7.4 7.4 7.5 7.5 7.6 7.6 7.8 8.1 8.2 8.3 8.1 7.9 7.1	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5 8.4	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.8 8.7	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.9 8.0 7.8 8.3 8.2 8.2 8.2	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.5 7.5 7.5 7.5 7.8 8.2 8.3	7.7 7.8 7.9 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5	8.2 8.3 8.2 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.5 7.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6	8.2 8.4 8.4 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.8 7.9 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 8.1 8.2 8.3 8.3 8.1	7.6 7.4 7.6 7.5 7.5 7.7 8.1 8.2 8.4 8.5 8.6 8.5 8.4	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.8	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0 8.0 8.0 8.3 8.2 8.1	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.5 7.5 7.5 7.8 8.2	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.4 7.5 7.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.9
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20	7.7 7.6 7.7 7.6 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 8.1 8.2 8.3 8.3 8.1 7.9 7.1 7.4	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5 8.4 8.2 7.3 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.7 8.8 8.7 8.8	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.3 8.2 8.2 8.2 8.2	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6 8.5 8.6	8.6 8.7 8.6 8.4 8.1 8.2 8.5 8.6 8.5 7.5 7.5 7.5 7.5 7.5 7.8 8.3 8.4 8.4 8.5	7.7 7.8 7.9 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.0 8.1 8.0	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.9 8.7 8.7 8.7	8.2 8.4 8.4 8.5 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 6.7 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.8 7.9 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.1 7.9 7.1 7.2 7.3	7.6 7.4 7.6 7.6 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.5 8.4 8.2 7.3 7.4 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6 8.7 8.8 8.9 8.8 8.7 8.8 8.7 8.8 8.9	7.9 7.8 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0 8.0 8.0 8.0 8.0 8.3 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.6 8.5 8.6	8.6 8.7 8.4 8.1 8.2 8.5 8.6 8.6 8.5 7.7 7.5 7.7 7.8 8.2 8.3 8.4 8.5	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6 8.7 8.7 8.7 8.6 8.1	8.2 8.4 8.6 8.5 8.6 8.7 8.7 8.5 8.4 8.0 7.9 7.6 7.6 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 8.4 7.8 7.9 8.0 8.0 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7 8.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 8.1 8.2 8.3 8.3 8.1 7.9 7.1 7.4	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5 8.4 8.2 7.3 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.7 8.8 8.7 8.8	7.9 7.8 7.7 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.3 8.2 8.2 8.2 8.2	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6 8.5 8.6	8.6 8.7 8.4 8.1 8.2 8.5 8.6 8.5 7.5 7.5 7.5 7.8 8.3 8.4 8.4 8.5 8.6 8.5 8.6 8.7 8.8	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5 7.6 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.0 8.1 8.0	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.9 8.7 8.7 8.7	8.2 8.4 8.4 8.5 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 6.7 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.8 7.9 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7 8.7 7.6 7.4 7.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3 8.3 8.1 7.9 7.1 7.4 7.2	7.6 7.4 7.6 7.5 7.5 7.7 8.1 8.2 8.4 8.5 8.5 8.5 8.4 8.5 7.3 7.5 7.6	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.9 9.0 9.1	7.9 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 8.2 8.1 8.2 8.1 8.2 8.0 8.3 8.5 8.5	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.6	8.6 8.7 8.4 8.1 8.2 8.5 8.6 8.6 8.5 7.7 7.5 7.7 7.8 8.2 8.3 8.4 8.5	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.6 8.7 8.7 8.7 8.6 8.1	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 6 7.6 7.6 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 8.4 7.9 8.0 8.0 7.7
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7 7.6 7.4 7.7	7.4 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3 8.1 7.9 7.1 7.4 7.2 7.3	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5 7.3 7.5 7.3 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 8.8 8.7 8.8 8.9 8.8 8.9	7.9 7.8 7.8 7.8 7.9 7.9 8.0 7.9 8.0 7.8 8.0 8.0 8.0 8.3 8.2 8.1 8.2 8.1 8.2 8.1	8.3 7.9 8.1 8.1 8.3 8.4 8.3 8.4 8.5 8.6 8.6 8.6 8.5 8.6 8.5 8.5 8.6	8.6 8.7 8.6 8.4 8.1 8.5 8.6 8.5 7.5 7.5 7.5 7.7 8.2 8.3 8.4 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5 7.6 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.2 8.0 8.2 8.3	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.9 8.7 8.7 8.6 8.7 8.7 8.6 8.1	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 6.7 7.6 7.6 7.6 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.8 8.4 7.9 8.0 8.0 8.0 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7 8.7 7.6 7.4 7.7	7.4 7.4 7.5 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.1 7.9 7.1 7.2 7.3	7.6 7.4 7.6 7.6 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.5 8.4 7.3 7.4 7.6 7.6 7.6	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.6 8.7 8.8 8.9 8.8 8.7 8.8 8.9 9.0 9.1	7.9 7.8 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 8.0 8.0 8.3 8.2 8.1 8.2 8.1 8.2 8.6 8.4	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.6 8.8 8.6	8.6 8.7 8.4 8.1 8.2 8.5 8.6 8.5 7.7 7.5 7.7 7.8 8.2 8.3 8.4 8.6 8.5 8.6 8.5	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.6 7.7 7.7 7.9	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 8.0 7.5 7.5 7.6 7.7 8.0 8.0 8.2 8.0 8.0 8.2	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6 8.7 8.7 8.7 8.6 8.1	8.2 8.4 8.6 8.5 8.6 8.7 8.5 8.4 8.0 7.9 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 8.4 7.8 7.9 8.0 8.0 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 25 26 27	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7 7.6 7.4 7.7	7.4 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3 8.1 7.9 7.1 7.4 7.2 7.3 7.4	7.6 7.4 7.6 7.5 7.5 7.7 7.8 8.1 8.2 8.4 8.5 8.6 8.5 7.5 7.3 7.5 7.5 7.5 7.5	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 9.0 9.1 9.0 8.9	7.9 7.8 7.8 7.9 7.9 8.0 7.8 8.0 7.8 8.0 8.0 8.0 8.0 8.3 8.5 8.5 8.5	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.7	8.6 8.7 8.6 8.4 8.1 8.5 8.6 8.5 7.5 7.5 7.5 7.5 7.7 8.2 8.3 8.4 8.6 8.5 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.7 7.7	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.5 7.6 7.7 8.0 8.2 8.0 8.2 8.3 8.4 8.3 8.4	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.6 8.7 8.7 8.6 8.1 8.2 7.9 8.0 7.9	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 6.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.8 8.0 8.0 8.0 8.0 7.7
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7 7.6 7.4 7.7 7.6 7.4 7.7	7.4 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3 8.3 7.1 7.4 7.2 7.3 7.4 7.5 7.6 7.7	7.6 7.4 7.6 7.5 7.7 7.7 8.1 8.2 8.4 8.5 8.6 8.4 8.5 7.5 7.7 7.5 7.5 7.7 7.5 8.2	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	7.9 7.8 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 8.0 8.0 8.3 8.2 8.1 8.2 8.1 8.2 8.0 8.0 8.0 8.7 8.6 8.4 7.8 7.7	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.5 8.5 8.7 8.9 8.7	8.6 8.7 8.4 8.1 8.5 8.6 8.5 7.5 7.5 7.7 8.2 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5 7.6 7.7 7.7 7.9 8.0 8.1 8.1	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.4 7.6 7.8 8.0 8.2 8.3 8.4 8.3 8.4 8.3 8.4 8.5 8.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.9 8.7 8.7 8.6 8.7 8.7 7.8 7.7	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.9 8.0 8.0 7.7 7.6 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.7 8.7 7.6 7.4 7.7 7.6 7.8 7.7	7.4 7.4 7.5 7.4 7.5 7.8 7.8 8.1 8.2 8.3 8.1 7.9 7.1 7.2 7.3 7.3 7.4 7.5 7.6 7.7	7.6 7.4 7.6 7.5 7.5 7.7 8.1 8.2 8.4 8.5 8.5 8.4 8.5 7.3 7.4 7.5 7.6 7.5 7.6 7.5 7.6 7.6 8.1 7.6 7.6 8.1 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.7 8.2 8.4 8.2 8.6 8.7 8.6 8.7 8.8 8.8 8.8 8.8 8.8 8.7 8.8 8.9 9.0 9.1 9.0 9.1 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	7.9 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 8.0 8.0 8.0 8.3 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.6 8.7 8.8 8.7 8.9 7.9	8.6 8.7 8.4 8.1 8.2 8.6 8.6 8.5 7.5 7.7 7.8 8.3 8.4 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.7 7.7 7.7 7.7 7.9 8.0 8.1 8.1 8.2	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 7.5 7.5 7.6 7.7 8.0 8.2 8.4 8.5 8.4 8.5 8.6 8.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.8 8.9 8.4 8.6 8.7 8.7 8.7 8.6 8.1 8.2 7.9 7.8 7.7 7.6 7.7	8.2 8.4 8.6 8.5 8.6 8.7 8.5 8.6 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 7.9 8.0 8.0 7.7 7.6 7.6 7.5 7.5 7.5 7.5
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.3 8.5 8.6 8.8 8.8 8.7 8.7 7.6 7.4 7.7 7.6 7.4 7.7	7.4 7.4 7.5 7.6 7.8 7.8 8.1 8.2 8.3 8.3 8.3 7.1 7.4 7.2 7.3 7.4 7.5 7.6 7.7	7.6 7.4 7.6 7.5 7.7 7.7 8.1 8.2 8.4 8.5 8.6 8.4 8.5 7.5 7.7 7.5 7.5 7.7 7.5 8.2	8.7 8.2 8.3 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.9 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	7.9 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 7.8 8.2 8.2 8.1 8.2 8.0 8.3 8.5 8.5 8.6 7.7 7.6	8.3 7.9 8.1 8.1 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.7 8.7 8.9 8.7	8.67 8.48.1 8.5668.5 7.5577.8 8.33 8.66-8 8.88.6 8.88.6 8.88.8 8.88.8 8.88.8 8.88.8 8.88.8	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5 7.7 7.7 7.7 7.8 7.9 8.0 8.1 8.1 8.2	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.5 8.0 7.5 7.5 8.0 8.2 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.7 8.7 8.7 8.7 8.7 8.7 8.7 7.6 7.7 7.6	8.2 8.4 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 7.9 8.0 8.0 8.0 7.7 7.6 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	7.7 7.6 7.7 7.7 7.6 7.7 8.1 8.5 8.6 8.8 8.7 8.7 7.6 7.4 7.7 7.8 8.2 8.5 8.5 8.7	7.4 7.4 7.5 7.4 7.5 7.8 7.8 8.1 8.2 8.3 8.1 7.9 7.1 7.2 7.3 7.3 7.4 7.5 7.6 7.7 8.7	7.64 7.66 7.66 7.5 7.5 7.7 8.1 8.2 8.4 8.5 8.5 8.4 8.5 7.3 7.4 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.6 7.6 7.6 8.1 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.7 8.2 8.4 8.2 8.6 8.7 8.6 8.7 8.8 8.8 8.8 8.8 8.8 8.7 8.8 8.9 9.0 9.1 9.0 9.1 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	7.9 7.8 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 8.3 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.7 8.6 7.7 7.6 7.6 7.7	8.3 7.9 8.1 8.1 8.3 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.5 8.6 8.7 8.8 8.7 8.9 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	8.67 8.48.1 8.25 8.66 8.77 7.55 7.77 8.35 8.66 8.78 8.86 8.88 8.88 8.88 8.88 8.88	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.5 7.7 7.7 7.7 7.7 7.8 7.9 8.0 8.1 8.2 8.2	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.2 7.5 7.5 7.5 8.0 8.2 8.4 8.5 8.6 8.6 8.7	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.7 8.7 8.7 8.7 8.6 8.7 7.6 7.6 7.7 7.6 7.7	8.2 8.4 8.6 8.5 8.6 8.7 8.5 8.4 8.0 7.9 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.6 8.7 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 7.9 8.0 8.0 7.7 7.6 7.5 7.5 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.7 7.6 7.7 7.6 7.7 8.1 8.5 8.6 8.8 8.8 8.7 8.7 7.6 7.6 7.7 7.6 7.7 7.6 8.5 8.5 8.7 8.5 7.7	7.4 7.4 7.5 7.4 7.5 7.8 7.8 8.1 8.2 8.3 8.1 7.9 7.1 7.4 7.3 7.4 7.5 7.4 7.5 7.8	7.64 7.46 7.66 7.57 7.57 7.58 8.2 8.4 8.5 8.5 8.4 8.5 7.5 7.5 7.5 7.5 7.5 8.1 7.5 7.5 7.5 8.1 7.5 7.5 8.1 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.7 8.2 8.4 8.2 8.6 8.7 8.5 8.7 8.8 8.8 8.8 8.8 8.8 8.9 9.0 9.1 9.0 8.7 8.3 8.3 8.3	7.9 7.8 7.8 7.9 7.9 8.0 7.8 8.0 8.0 7.8 8.2 8.2 8.1 8.2 8.0 8.3 8.5 8.5 8.6 7.7 7.6	8.3 7.9 8.1 8.1 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.7 8.7 8.9 8.7	8.67 8.48.1 8.5668.5 7.5577.8 8.33 8.66-8 8.88.6 8.88.6 8.88.8 8.88.8 8.88.8 8.88.8 8.88.8	7.7 7.8 7.9 7.7 7.6 7.5 7.6 7.6 7.6 7.7 7.2 7.3 7.4 7.4 7.4 7.5 7.7 7.7 7.7 7.8 7.9 8.0 8.1 8.1 8.2	8.2 8.3 8.0 7.6 7.7 8.0 8.1 8.0 7.5 7.5 8.0 7.5 7.5 8.0 8.2 8.3 8.4 8.3 8.4 8.3 8.4 8.3 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.9 9.0 9.0 9.1 9.1 9.1 9.1 9.1 9.0 8.9 8.9 8.4 8.7 8.7 8.7 8.7 8.7 8.7 8.7 7.6 7.7 7.6	8.2 8.4 8.6 8.5 8.6 8.7 8.7 8.7 8.7 8.7 8.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	8.6 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.7 8.4 8.5 7.9 8.0 8.0 7.7 7.6 7.5 7.5 7.5 7.5

YEAR MAX MIN MEDIAN MAXIMUM 9.2 MINIMUM 6.5 MAXIMUM 8.7 MINIMUM 6.3 MAXIMUM 8.9 MINIMUM 6.4

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

s	SPECIFIC	CONDUCTA	NCE (MICRO	OSIEMENS/C	M AT 25	DEG. C),	WATER YEA	AR OCTOB	ER 2000 T	O SEPTEMBE	R 2001	
DAY	MAX	MIN	MEAN									
		OCTOBER		NO	VEMBER		DI	ECEMBER			JANUARY	
	220	214	217	225	220	222	192	189	190	191	163	177
1 2	220	214	217	227	223	225	194	188	191	193	183	189
3	221	217	219	226	223	224	195	188	191	194	180	189
4	224	221	223	231	225	228	198	190	195	190	184	186
5	230	223	228	233	228	230	200	197	198	200	181	193
6	239	228	232	234	227	230	211	199	204	200	194	197
7	243	238	241	233	229	231	218	209	215	199	192	195
8	242	231	238	234	227	231	223	218	221			
9	231	200	216	234	228	231	227	221	223	200	196	198
10	202	197	199	242	234	237	231	224	227	201	197	199
11	210	201	205	255	242	248	232	225	229	206	199	203
12	219	210	215	263	247	257	233	227	230	210	205	207
13				247	204	231	234	229	232	212	207	209
14	237	228	232	204	177	184	235	226	231	215	210	213
15	240	236	238	183	178	180	267	225	234	213	210	212
16	242	239	240	201	182	191	294	259	271	214	211	212
17	242	239	240	204	199	202	305	142	249	217	214	215
18	241	238	239	199	186	190	206	107	155	232	216	224
19	243	240	241	190	184	186	107	93	99	230	219	225
20	257	239	247	193	189	190	111	99	106	229	219	223
21	240	162	195	195	190	192	123	111	118	259	224	240
22	162	158	160	200	195	198	129	120	124	267	259	263
23	182	161	172	205	200	202	137	124	132	272	260	268
24	183	176	179	208	204	206	140	137	139	269	260	266
25	179	172	175	211	207	209	153	139	148	273	267	270
26	190	179	184	212	205	208	157	149	153	272	262	269
27	204	190	197	226	210	217	163	153	159	262	256	260
28	209	203	206	248	226	239	169	151	159	256	250	252
29	213	208	211	233	204	215				253	248	251
30 31	219 221	211 218	214 220	206	191	196	173 174	154 163	169 172	250 249	239 235	245 240
31	221	210	220		1200		-/-					
MONTH	257	158	215	263	177	214	305	93	185	273	163	223
DAY	MAX	MIN	MEAN									
		FEBRUARY	r		MARCH			APRIL			MAY	
1	273	249	259	229	219	223	147	124	132	197	189	193
2	272	249	258	222	218	220	132	124	128	199	196	193 198
3	249	232	239	227	219	222	139	132	135	201	197	199
4	232	222	226	224	221	223	140	136	138	207	201	203
5	224	218	220	229	221	224	142	140	141	209	205	207
6	234	223	228				142	137	140	212	207	210
7	257	233	240	255	244	249	138	134	136	218	211	216
8	263	255	260	252	239	245	134	129	131	246	218	225
9	262	241	249	250	239	243	129	120	126	246	225	229
10	247	209	236	243	236	240	120	114	116	236	231	233
11	239	209	223	249	240	245	118	97	105	242	236	240
12	254		246	244	241	242	102	96	99	247		245
13	240	226	229	244	230	238	115	100	105	256	247	250
14 15	226 222	219 217	222 219	254 244	230 230	243 238	111 113	107 108	109 109	257 256	252 252	254 253
13												
16	222	217	219	234	220	228	120 129	111	115 126	257 259	251 252	253 255
17	219 213	212 210	216 211	224 226	219 216	221 221	135	127	129	266	259	262
18 19	213	208	210	220	212	215	138	135	136	270	266	268
20	217	210	213	215	208	212	143	136	139	272	267	270
	217		215	215	202	209	150	140	144	270	262	266
21 22	220	213 213	215	203	193	198	155	148	151	262	246	252
23	219	211	214	200	174	190	164	154	160	250	243	247
24	220	209	213	175	152	159	164	162	163	249	229	235
25	233	213	222	158	147	150	166	162	164	235	227	231
26	233	221	228	150	147	148	169 176	163 168	166 172	229 228	215 203	223 216
27 28	247 241	231 225	241 233	153 158	148 152	150 153	184	173	178	213	204	208
29	241	225	233	166	157	161	182	177	179	213	197	204
30				166	155	160	189	180	184	197	193	195
31				175	147	166				195	190	192
MONTH	273	208	229	255	147	208	189	96	139	272	189	230

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

												100
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		-	AUGUST			SEPTEMBE	R
1	200	193	195	229	213	221	253	245	248	248	244	246
2	196	186	192	221	210	215	259	253	255	245	241	243
3	211	194	204	239	215	229	265	259	262	249	243	247
4	201	176	193	230	216	223	266	253	263	249	241	245
5	176	161	168	232	222	228	255	242	249	241	229	235
5	1/6	101	100	434	222	220	233					
6	166	160	162	233	223	228	278	239	262	229	224	225
7	170	162	166	240	229	233	271	236	248	227	224	225
8	177	169	174	247	239	245	237	229	233	236	227	232
9	185	176	181	247	240	243	238	230	233	241	235	237
10	194	185	191	244	240	242	239	232	236	238	224	231
11	206	194	201	245	238	241	237	174	223	229	219	223
12		204	206	248	239	245	247	217	233	226	220	224
	214		207	246	236	241	254	199	221	231	226	229
13	213	205			239	243	231	201	218	231	223	227
14	219	207	214	247				198	204	234	227	231
15	219	207	212	243	231	239	210	190	204	234		
16	213	207	210	250	235	243	222	208	214	252	234	246
17	212	135	179	253	242	248	239	222	229	251	239	245
18	221	184	206	244	239	242	245	234	240	240	228	234
19	184	160	169	252	242	245	252	243	247	237	233	236
20	171	161	166	261	252	255	250	242	246	238	231	235
21	181	166	172	259	254	257	246	242	244	232	220	226
22	188	180	183	269	256	260	243	240	241	264	225	246
23	202	182	188				249	242	246	238	198	212
24	187	177	181	258	254	256				201	196	198
25	196	187	193	261	255	259	255	252	253	204	199	202
25	190	107	193	201	233	233	255					
26	204	196	199	261	251	259	256	251	254	252	203	228 196
27	213	204	207	258	243	251	252	247	250	222	183	
28	216	208	213	261	252	258	250	244	246	191	182	185
29	222	216	220	253	244	248	246	244	245	191	186	188
30	229	215	223	247	241	244	250	245	248	195	187	190
31				246	241	244	251	246	248			
MONTH	1 229	135	192	269	210	243	278	174	241	264	182	226
YEAR	305	93	212									
-			2.50									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	1	N	OVEMBER		DI	ECEMBER			JANUARY	
1	17.5	15.0	16.5	11.0	9.5	10.0	5.5	4.5	5.0	.5	.0	.0
2	18.0	16.0	17.0	11.0	9.5	10.5	4.5	3.0	4.0	.5	.0	.0
3	19.0	16.5	17.5	11.5	9.5	10.5	3.5	2.5	3.0	.0	.0	.0
4	19.5	17.0	18.5	12.0	10.5	11.0	3.0	2.0	2.5	.5	.0	.0
5	19.0	18.0	18.5	11.5	10.0	10.5	3.0	1.5	2.5	.0	.0	.0
6	18.5	17.5	18.0	10.5	9.0	9.5	2.5	1.5	2.0	1.0	.0	.5
7	18.0	16.5	17.0	10.0	8.5	9.5	2.0	1.0	1.5	1.5	.5	1.0
8	16.5	15.0	15.5	10.0	8.5	9.5	1.5	1.0	1.5			
9	15.0	13.0	14.0	10.5	9.5	10.0	2.0	1.0	1.5	2.0	1.0	1.5
10	13.0	12.0	12.5	12.0	10.5	11.5	2.0	1.0	1.5	1.0	1.0	1.0
11	13.5	11.5	12.5	12.0	10.5	11.0	3.0	2.0	2.5	1.5	.5	1.0
12	14.5	12.5	13.5	11.0	10.0	10.5	4.0	3.0	3.5	1.5	. 5	1.0
13				11.0	10.5	10.5	3.0	1.5	2.0	2.0	. 5	1.5
14	15.5	13.5	14.5	10.5	9.5	10.0	3.5	2.0	2.5	1.5	1.0	1.5
15	16.0	14.0	15.0	9.5	8.5	9.0	3.0	2.5	3.0	2.5	1.5	2.0
16	15.5	15.0	15.5	8.5	8.0	8.5	3.5	2.5	2.5	3.0	2.5	2.5
17	15.5	14.5	15.0	9.0	8.0	8.5	8.5	3.5	5.5	3.0	2.0	2.5
18	14.5	14.5	14.5	8.0	7.0	7.5	7.0	2.5	5.0	2.5	2.0	2.5
19	15.0	13.5	14.5	7.0	6.0	6.5	2.5	1.5	2.0	2.5	2.5	2.5
20	15.0	13.0	14.0	6.0	5.0	5.5	2.0	1.5	2.0	2.5	2.0	2.5
21	14.5	13.5	14.0	5.5	4.0	5.0	1.5	1.5	1.5	2.0	1.0	1.5
22	14.5	13.5	14.0	4.0	3.0	3.5	1.5	. 5	1.0	1.5	.5	1.0
23	13.5	12.5	13.0	3.5	2.0	3.0	.5	.0	.5	1.0	.0	.5
24	13.5	12.0	13.0	3.0	2.0	2.5	.5	.0	.0	1.5	.0	1.0
25	14.5	12.5	13.5	3.0	2.0	2.5	.0	.0	.0	2.0	.5	1.0
26	14.5	13.0	14.0	4.5	3.0	4.0	.0	.0	.0	1.5	.5	1.0
27	15.0	13.5	14.0	5.5	4.5	5.0	.5	.0	.0	2.0	1.0	1.5
28	14.5	12.5	14.0	6.0	5.0	5.5	.5	.0	.0	2.5	1.5	2.0
29	12.5	10.5	11.5	5.5	5.0	5.0				2.5	1.5	2.0
30	11.0	9.5	10.0	5.5	5.0	5.5	.0	.0	.0	3.0	2.0	2.5
31	10.5	9.0	10.0				.5	.0	.0	3.0	2.0	2.5
MONTH	19.5	9.0	14.5	12.0	2.0	7.7	8.5	.0	2.0	3.0	.0	1.3

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

									SEPTEMBER			
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	EBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.0	4.0	3.5	4.0	4.5	4.5	4.5	18.0	15.5	16.5
2	3.5	3.0	3.5	4.0	3.5	4.0	5.0	4.5	4.5	19.0	17.0	18.0
3	3.0	2.0	2.5	4.5	4.0	4.0	6.0 7.0	4.5 5.5	5.0 6.5	20.5 21.5	18.5	19.5
5	2.5	2.0	2.0 1.5	4.5 3.0	3.0 2.5	2.5	8.0	6.5	7.0	21.5	20.5	21.0
6	2.0	.0	1.0				8.0	7.5	7.5	20.5	19.5	20.0
7	3.0	1.5	2.0	4.0	2.5	3.5	7.5		7.5	20.0	18.5 17.5	19.0
8	3.0	2.5	3.0	4.5 5.0	4.0	4.0	7.0 8.0		7.0	20.0	18.0	19.0
10	4.5	3.5	4.0	5.5	4.0	4.5	9.0		8.5	21.5	18.5	20.0
11	3.5	2.5	3.0	5.5	4.5	5.0	9.0		8.5	22.5	19.0	21.0
12	2.5	2.0	2.5	6.0	4.5 5.5	5.5 5.5	8.5 8.5		8.0	23.5 21.5	20.5	20.5
13 14	3.5	3.0	3.0	6.0	5.0	5.5	10.0		8.0 9.0 10.0	20.5	18.0	19.5
15	3.5	3.0	3.5	5.5	5.0	5.0	10.5	9.5	10.0	20.5	17.5	19.0
16	3.5	3.5		6.0	5.0	5.5	10.5		10.0	20.0 19.0	18.0 17.5	19.0 18.0
17 18	3.5	3.0	3.5	6.0	5.5	6.0	10.5	9.5	9.5	17.5	17.0	17.0
19	2.5	1.5	2.0	6.5	5.0	6.0	10.0	8.5	9.0 9.5	20.5	16.5	18.5
20	3.0	2.0	2.5	7.0	5.5	6.5	10.0	9.0	9.5	20.0	18.5	19.0
21	4.0	3.0	3.5	7.0	6.0	6.5	10.5		10.0	18.5 17.0	17.0 16.5	17.5 17.0
22	3.0	1.5	1.5	6.0	5.5	6.0 5.5	13.0 15.0		14.0		17.0	17.0
24	2.5	1.5	2.0	5.5	5.0	5.0	17.0	15.0	16.0	19.5	17.0	18.0
25	3.0	2.0	2.5	5.5	4.5	5.0	17.0	15.0	15.5	19.0	18.0	18.5
26	3.5	2.5	3.0	5.0	4.5	4.5	16.0	14.5	15.0	18.0	17.0	17.5
27 28	4.0 5.0	4.0	3.5 4.5	5.0 5.0	4.0 3.5	4.5	16.0 16.0	14.5 15.0	15.0 15.5	17.0 18.0	17.0 16.5	17.0 17.0
29				5.0	4.0	4.5	16.0		15.0	18.5	17.0	17.5
30				5.0	4.5	5.0	16.5		15.5	18.5 18.5	17.5 17.0	18.0 17.5
31				5.0	4.5	5.0			777			
MONTH	5.0	.0	2.7	7.0	2.5	4.9	17.0	4.5	10.0	23.5	15.5	18.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER
1	18.0	17.0	17.5	28.5	27.0	27.5	28.0	24.5	26.0	26.5	25.0	26.0
2	17.5	16.5	17.0	27.0	24.5	25.5	28.5		27.0	25.5 25.0	23.5	24.5
3 4	18.0 18.5	17.0 16.5	17.5 17.5	25.0 25.0	23.0	24.0	28.0 27.5		27.0 26.5	24.5	23.0	24.0
5	19.5	17.5	18.5	25.0	23.5	24.5	27.5		26.5	25.0	23.0	24.0
6	19.5		19.0	25.0	23.0	24.0		00.0	07.	24 5	22.0	23.5
7		18.5		25.0			29.0	26.0	27.5	24.5		
8	21.0	18.5	20.0	25.5	22.5	24.0	30.5	27.5	29.0	25.0	22.5	23.5
0	21.5	19.0	20.0	25.5 25.0	22.5	24.0	30.5	27.5 28.5	29.0 30.0	25.0 25.0		23.5 24.0 24.5
9 10		19.0	20.0	25.5 25.0 26.5	22.5	24.0	30.5	27.5 28.5 28.5	29.0 30.0	25.0	22.5	24.0
	21.5	19.0 20.0 20.5	20.0 21.0 21.0	25.5 25.0 26.5 27.5	22.5 23.5 23.0	24.0 24.0 24.5	30.5 31.5 32.0 31.0	27.5 28.5 28.5 29.5	29.0 30.0 30.5 30.5	25.0 25.0 25.5 25.5	22.5 23.0 23.5 24.0	24.0 24.5 25.0 24.5
10 11 12	21.5 22.0 22.5 23.0 24.5	19.0 20.0 20.5 21.0 21.5 22.0	20.0 21.0 21.5 22.0 23.0	25.5 25.0 26.5 27.5 27.0 26.0	22.5 23.5 23.0 25.0 25.0 24.0	24.0 24.0 24.5 26.0 25.0	30.5 31.5 32.0 31.0 30.0 27.0	27.5 28.5 28.5 29.5 26.5 26.0	29.0 30.0 30.5 30.5 28.0 26.5	25.0 25.0 25.5 25.5 25.5	22.5 23.0 23.5 24.0 23.5 22.5	24.0 24.5 25.0 24.5 23.5
10 11 12 13	21.5 22.0 22.5 23.0 24.5 26.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0	20.0 21.0 21.5 22.0 23.0 24.5	25.5 25.0 26.5 27.5 27.0 26.0 26.0	22.5 23.5 23.0 25.0 25.0 24.0 23.5	24.0 24.0 24.5 26.0	30.5 31.5 32.0 31.0	27.5 28.5 28.5 29.5 26.5 26.0 25.0	29.0 30.0 30.5 30.5 28.0 26.5 25.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0	24.5 25.0 24.5 23.5 23.5 23.5
10 11 12	21.5 22.0 22.5 23.0 24.5	19.0 20.0 20.5 21.0 21.5 22.0	20.0 21.0 21.5 22.0 23.0	25.5 25.0 26.5 27.5 27.0 26.0 26.0 25.5	22.5 23.5 23.0 25.0 25.0 24.0	24.0 24.0 24.5 26.0 25.0 25.0	30.5 31.5 32.0 31.0 30.0 27.0 26.5	27.5 28.5 28.5 29.5 26.5 26.0 25.0	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0	25.0 25.0 25.5 25.5 25.5 25.0 25.0	22.5 23.0 23.5 24.0 23.5 22.5 22.5	24.5 25.0 24.5 23.5 23.5
10 11 12 13 14	21.5 22.0 22.5 23.0 24.5 26.0 25.5	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0	20.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0	22.5 23.5 23.0 25.0 25.0 24.0 23.5 23.0 23.0	24.0 24.0 24.5 26.0 25.0 25.0 24.5 24.5	30.5 31.5 32.0 31.0 30.0 27.0 26.5 27.0 27.5	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5	24.0 24.5 25.0 24.5 23.5 23.5 22.0 20.5
10 11 12 13 14 15	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5	20.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 23.5	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 25.5 26.0	22.5 23.5 23.0 25.0 25.0 24.0 23.5 23.0 23.0	24.0 24.5 26.0 25.0 25.0 24.5 24.5 24.5	30.5 31.5 32.0 31.0 30.0 27.0 26.5 27.0 27.5	27.5 28.5 28.5 29.5 26.5 26.0 25.0 25.0 25.0 25.0	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0 26.5	25.0 25.5 25.5 25.5 25.5 25.0 25.0 24.5 21.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5	24.0 24.5 25.0 24.5 23.5 23.5 22.0 20.5
10 11 12 13 14 15 16 17 18	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 23.5 24.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 25.5 26.5 27.5	22.5 23.5 23.0 25.0 25.0 24.0 23.5 23.0 23.0	24.0 24.0 24.5 26.0 25.0 25.0 24.5 24.5	30.5 31.5 32.0 31.0 30.0 27.0 26.5 27.0 27.5	27.5 28.5 29.5 29.5 26.0 25.0 25.0 25.0 25.0 25.5 25.5	29.0 30.0 30.5 30.5 28.0 26.5 26.0 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 24.5 21.5 22.0 22.0 22.0	22.5 23.0 23.5 24.0 23.5 22.5 21.0 19.5 19.0 19.5	24.0 24.5 25.0 24.5 23.5 23.5 22.0 20.5 21.0 21.0
10 11 12 13 14 15	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5	20.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 23.5	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 25.5 26.0	22.5 23.5 23.0 25.0 25.0 24.0 23.5 23.0 23.0 23.5	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0	30.5 31.5 32.0 31.0 30.0 27.0 26.5 27.0 27.5 28.0 27.5 27.5	27.5 28.5 28.5 29.5 26.5 25.0 25.0 25.0 25.5 25.5 25.5	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5	24.0 24.5 25.0 24.5 23.5 23.5 22.0 20.5 20.5 21.0 21.0
10 11 12 13 14 15 16 17 18 19 20	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5 23.0 24.0	20.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 24.0 25.0 25.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 25.5 26.5 27.5 26.5 27.5 28.0	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5	24.0 24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 25.5 26.0	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.0 27.5 27.0 27.5 27.0 27.5	27.5 28.5 28.5 29.5 26.5 25.0 25.0 25.0 25.0 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 24.5 21.5 22.0 22.0 22.0 22.0 21.5	22.5 23.0 23.5 24.0 23.5 22.5 21.0 19.5 19.0 20.0 20.0 20.5	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.5
10 11 12 13 14 15 16 17 18 19 20 21	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5 23.0 24.0	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 26.5 27.5 26.5 27.5 28.0 28.5	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 25.5 26.0	30.5 31.5 32.0 31.0 30.0 27.0 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 21.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 19.0 20.0 20.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5 23.0 24.0 24.5 24.0	20.0 21.0 21.0 21.5 22.0 24.5 25.0 25.0 24.5 25.0 24.0 25.0 24.5 25.0 24.5 25.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 27.5 27.5 27.5 27.0 27.5 28.0 28.5 27.5	22.5 23.0 25.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5	24.0 24.5 26.0 25.0 25.0 24.5 24.5 25.0 26.0 26.0 26.0 26.5 26.0	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.0 27.5 27.0 28.0 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.0 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 24.5 21.5 22.0 22.0 22.0 22.0 22.5 22.5 22.5 23.5	22.5 23.0 23.5 24.0 23.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 21.5 21.0 20.0 20.5	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 21.5 22.5 22.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 22.5 23.5 23.0 24.0 24.0 22.5	20.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 24.0 24.0 25.0 25.0 25.0 24.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 27.5 27.5 27.5 27.0 27.5 28.0 28.5 27.5	22.5 23.5 25.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 25.5 26.0 26.0	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 22.0 22.5 22.5 22.5 22	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 22.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 21.5 22.5 22.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 24.5 25.0 24.5 25.5 26.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5 24.0 24.5 24.0 22.5 22.0 22.0 22.0	20.0 21.0 21.0 21.5 22.0 24.5 25.0 25.0 25.0 24.0 25.0 25.0 24.5 24.0 22.5 24.0 24.5	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 25.5 27.5 27.5 27.5 27.5 28.0 28.5 30.0 30.5	22.5 23.0 25.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.0 26.0 26.5 26.0 26.5 28.5 29.5	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 24.5 21.5 22.0 22.0 22.0 22.5 22.5 22.5 22.5 22.5	22.5 23.0 23.5 24.0 23.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 21.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 22.5 22.0 22.5 22.0
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 24.5 25.0 24.5	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 22.5 23.5 23.0 24.0 22.5 24.0 22.5 22.0	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 25.0 24.0 25.0 24.0 25.0 24.5 25.0	25.5 25.0 26.5 27.5 27.0 26.0 26.0 25.5 26.0 26.5 27.5 26.5 27.5 28.0 28.5 30.0 30.5	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5 22.0	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 25.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 22.0 22.5 22.5 23.5 23.0 22.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 21.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 21.5 22.5 22.5 22.5 22.5 22.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 26.0 25.5 25.0 26.0 25.5 26.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 25.0 22.5 23.5 24.0 24.5 24.0 22.5 22.0 22.5 22.0 22.5 22.0	20.0 21.0 21.0 21.5 22.0 24.5 25.0 25.0 25.0 24.0 25.0 24.5 24.0 22.5 23.0 24.5 24.0 22.5 23.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 26.5 27.5 27.5 28.0 28.5 30.0 30.5 29.5 27.0 27.5	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 25.0 24.5 24.5 25.0 28.0	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.5 28.5 29.5	30.5 31.5 32.0 31.0 30.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.5 25.0 25.0 25.0 25.0 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 24.5 21.5 22.0 22.0 22.0 22.5 22.5 23.5 23.0 22.5	22.5 23.0 23.5 24.0 23.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 21.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.5 22.5 22.5 22.0 20.0 18.5 17.0
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 22.5 23.5 23.0 24.0 22.5 22.0 22.5 22.0 22.5 22.0	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 24.0 25.0 24.0 22.5 23.0 24.0 24.0 26.0 26.0 26.0 26.0 26.0 26.0 26.0 26	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 26.5 27.5 26.5 27.5 28.0 28.5 30.0 30.5 29.5 27.0 26.5	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 25.0 24.5 25.0 28.0 28.0 29.0 29.0 29.0 29.0 29.0 29.0 29.0 29	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.0 26.5	30.5 31.5 32.0 31.0 27.0 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.6 27.6 27.6	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.5 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 22.0 22.5 22.5 23.5 23.0 22.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 21.0	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 21.5 22.5 22.5 22.5 22.5 22.5
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 24.5 25.0 24.5 25.0 24.5 27.5 28.0 29.0	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 22.5 23.5 24.0 24.5 22.0 22.0 22.0 23.0 24.5 24.0	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 24.0 25.0 24.5 24.0 25.0 24.5 24.0 25.0 24.5 24.0 25.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 27.5 26.5 27.5 28.0 27.5 28.0 28.5 30.0 30.5 29.5 27.0 27.5	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.0 23.5 24.5 25.0 24.5 25.0 28.0 26.5 25.0 24.5 25.0 24.5 25.0 28.0 28.0	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.5 26.0 26.5 26.0 26.5 26.0 26.5	30.5 31.5 32.0 31.0 30.0 27.0 27.5 27.5 27.5 27.5 27.5 27.6 27.5 27.6 27.5 27.6 27.5 27.6 27.6 27.6	27.5 28.5 28.5 29.5 26.0 25.0 25.0 25.0 25.0 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 21.5 22.5 23.5 23.5 23.5 23.6 21.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 20.0 20.5 21.5 22.0 21.0 19.5 21.5 22.0 21.5	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 22.5 22.5 22.5 22.0 20.0 21.0
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	21.5 22.0 22.5 23.0 24.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 26.0 25.5 22.0 24.5 23.0 24.5 23.0 24.5 23.0 24.5	19.0 20.0 20.5 21.0 21.5 22.0 23.0 24.5 24.0 22.5 23.5 24.0 22.5 22.0 22.5 22.0 22.5 22.0 22.5 22.0 22.5	20.0 21.0 21.0 21.5 22.0 23.0 24.5 25.0 25.0 25.0 24.0 25.0 24.5 24.0 22.5 23.0 24.5 24.0 22.5 23.0	25.5 25.0 26.5 27.5 27.0 26.0 25.5 26.0 27.5 26.5 27.5 28.0 27.5 28.0 27.5 28.5 30.0 30.5 29.5 25.0 27.0 25.0 27.0 28.0 27.0 28.0 29.0 20.0 2	22.5 23.5 23.0 25.0 24.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5 25.0 24.5 25.0 28.0 26.5 25.0 26.5 25.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	24.0 24.5 26.0 25.0 25.0 24.5 24.5 26.0 26.0 26.0 26.0 26.5 26.0 26.5 28.5 29.5 28.5 29.5	30.5 31.5 32.0 31.0 30.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	27.5 28.5 28.5 29.5 26.5 25.0 25.0 25.0 25.0 25.5 25.5 25.5 25	29.0 30.0 30.5 30.5 28.0 26.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	25.0 25.0 25.5 25.5 25.5 25.0 25.0 24.5 21.5 22.0 22.0 22.0 22.5 23.5 23.5 23.5 23.5 23.6 27.5	22.5 23.0 23.5 24.0 23.5 22.5 22.5 21.0 19.5 20.0 20.0 20.5 21.5 22.0 22.0 21.0 19.5 19.0 19.5	24.0 24.5 25.0 24.5 23.5 22.0 20.5 21.0 21.0 21.0 21.0 21.5 22.5 22.5 22.5 22.0

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued
TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20

TURBIDITY	, FIELD,	WATER,	UNFILTERED	, NEPHE	LOMETRIC	TURBIDITY	UNITS,	WATER	YEAR OCTOBER	2000	TO SEPTEM	BER 20
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		CTOBER		NO	VEMBER		D	ECEMBER			JANUARY	
1	2.4	<2.0	<2.0	5.5	<2.0	<2.0	2.9	<2.0	2.0	3.6	2.1	2.5
	10	<2.0		<2.0	<2.0	<2.0	2.0	<2.0	<2.0	3.7	<2.0	2.1
3	5.4	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0
5	2.3	<2.0	<2.0	2.1	<2.0	<2.0	2.6	<2.0	<2.0	5.9	<2.0	2.3
	2.2	<2.0		2.8		<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0
	<2.0	<2.0		<2.0	<2.0	<2.0	2.2	<2.0	<2.0	8.0	<2.0	<2.0
8	2.1	<2.0		<2.0	<2.0	<2.0	2.0	<2.0	<2.0		<2.0	<2.0
9	2.5 <2.0	<2.0 <2.0		<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0	<2.0	<2.0 <2.0	<2.9	<2.0	<2.0
10	12.0	12.0										
	<2.0	<2.0	<2.0	2.2		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13				7.0	2.1	4.1	2.7 3.8	<2.0	<2.0 <2.0	2.0	<2.0	<2.0
14 15	3.5	<2.0	<2.0 <2.0	3.4	2.3 <2.0	2.4	4.2	2.5	3.1	<2.0	<2.0	<2.0
											-2.0	<2.0
16	3.2		<2.0	2.6	<2.0 <2.0	<2.0	4.4	<2.0	2.9	<2.0	<2.0 <2.0	<2.0
17 18	<2.0 2.0	<2.0	<2.0	2.6		<2.0	320	61	170	2.1	<2.0	<2.0
19	2.2	<2.0	<2.0	2.1		<2.0	230	76	100	15	<2.0	2.3
20	4.2	<2.0			<2.0	<2.0	120	37	79	19	10	15
21	4.8	2.3	3.3	<2.0	<2.0	<2.0	47	22	29	10	6.4	7.6
22	2.6	<2.0	2.0	2.1	<2.0	<2.0	23	18	20	7.0		4.9
23	3.3	<2.0		<2.0	<2.0	<2.0	27	16	19	4.0	2.6	3.0
24	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	22	14	15	3.6		2.4
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	19	12	14	2.3	<2.0	<2.0
26	<2.0	<2.0	<2.0	6.0	<2.0	<2.0	14	11	12	<2.0		<2.0
27	4.3	<2.0	2.3	10	3.7	6.8	12	10	11	<2.0	<2.0	<2.0
28	4.8	<2.0	2.3	5.8	2.0	2.8	12	10	11	<2.0		<2.0
29	<2.0	<2.0	<2.0	3.6	<2.0	2.3				2.4	<2.0	<2.0
30	<2.0	<2.0	<2.0	3.2	<2.0	2.4	4.2	2.1	2.8	27 60	<2.0	5.0 26
31	<2.0	<2.0	<2.0				28	2.1	3.7	60	9.4	
MONTH	10	<2.0	<2.0	10	<2.0	<2.0	460	<2.0	21	60	<2.0	3.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	F	EBRUARY			MARCH			APRIL			MAY	
1	10	6.6	8.4	3.0	<2.0	2.2	20	4.2	7.4	12	<2.0	<2.0
2	7.0	4.4	6.1	2.2	<2.0	<2.0	14	9.5	12	4.9	<2.0	<2.0
3	4.8	3.1	3.8	2.1	<2.0	<2.0	14	4.9	8.6	2.0	<2.0	<2.0
4	3.6	2.2	2.9	2.7	<2.0	<2.0		3.0	4.1	2.4	<2.0	<2.0
5	6.6	<2.0	2.9	2.5	<2.0	<2.0	6.5	2.9	4.0	3.6	<2.0	2.0
6	5.6	2.3	3.1				5.2	2.0	3.0			
7	3.1	2.0	2.4	<2.0	<2.0	<2.0	7.3	2.3	4.0			
8	3.0	<2.0		2.0		<2.0	7.3	2.5	4.2			
9	3.0	<2.0		2.6	<2.0	<2.0	8.1	2.9	4.4			
10	51	<2.0	16	3.2	<2.0	2.4	49	3.9	9.9		3777	15.50
11	40	5.7	15	2.8	<2.0		1300	14	110			
12				2.7		2.1		18	23			
13	3.8	2.3		33	<2.0	14	26	14	19			
14 15	3.5	<2.0		24 13	4.1	15 8.6	19 14	7.6	11 11		===	
									6.6			
16 17	3.5 6.3	2.1	2.6 4.1	5.0	2.6 3.1	3.9	8.0	4.7	6.1			
18	5.4	3.4	4.3	7.4	3.8	4.8	7.9	2.5	3.6			
19	3.7	2.6	3.2	8.6	5.5	6.7	9.5	<2.0	4.2	4.9	<2.0	2.2
20	3.4	2.1	2.5	8.7	4.5	5.7	7.3	<2.0	3.0	3.4	<2.0	<2.0
21	3.1	<2.0	2.1	8.8	5.6	7.5	5.1	<2.0	2.8	2.2	<2.0	<2.0
22	2.1	<2.0		24	7.9	16	3.8	<2.0	2.5	6.2	<2.0	2.4
23	2.8	<2.0	<2.0	9.6	4.9	6.8	4.7	<2.0	2.4	5.7		4.7
24	<2.0	<2.0	<2.0	19	4.0	6.9	3.8	<2.0	<2.0	5.7		3.9
25	<2.0	<2.0		23	5.9	9.5	2.3	<2.0	<2.0	5.3	<2.0	3.5
26	4.8	<2.0		12	5.1	8.6	2.1	<2.0	<2.0	4.4	<2.0	<2.0
27	4.6	3.0		10	7.2	8.5	4.3	<2.0	2.7	21	2.4	8.9
28	3.6	2.5		8.2	2.9	5.1	5.9	2.0	2.9	34	11	20 11
29				11	3.1	4.6	3.9 53	<2.0	2.8 5.5	25 28	5.9 6.0	13
30 31				9.7	3.6 5.1	7.0	53	<2.0	5.5	10	2.2	5.4
MONTH	51	<2.0	4.0	33	<2.0	5.7	1300	<2.0	9.5	34	<2.0	4.9

DELAWARE RIVER BASIN
01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TURBIDITY, FIELD, WATER, UNFILTERED, NEPHELOMETRIC TURBIDITY UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	3.4	<2.0	2.0	8.4	3.8	5.5	6.7	2.1	3.7	2.5	<2.0	<2.0
2	35	2.1	22	27	4.4	14	6.7	3.9	5.7	2.0	<2.0	<2.0
3	26	3.4	8.4	18	8.3	11	8.0	3.2	5.3	<2.0	<2.0	<2.0
4	7.8	2.8	4.5	11	3.0	6.4	6.5	2.1	3.9	<2.0	<2.0	<2.0
5	5.7	<2.0	2.8	5.5	2.4	4.0	23	3.8	9.7	9.4	<2.0	<2.0
6	4.2	<2.0	2.1	5.0	2.7	3.7	39	7.9	21	<2.0	<2.0	<2.0
7	6.2	<2.0	3.1	4.0	<2.0	2.6	15	4.3	7.5	<2.0	<2.0	<2.0
8	3.7	<2.0	<2.0	5.3	2.0	3.0	8.3	4.4	6.1	<2.0	<2.0	<2.0
9	4.0	<2.0	2.2	6.3	2.5	4.0	10	3.3	6.4	<2.0	<2.0	<2.0
10	3.9	<2.0	<2.0	9.3	2.4	4.6	8.0	<2.0	5.2	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	33	5.1	13	85	<2.0	14	<2.0	<2.0	<2.0
12	14	<2.0	<2.0	64	3.1	8.4	22	2.3	7.0	<2.0	<2.0	<2.0
13	14	<2.0	<2.0	13	2.9	5.6	36	16	23	<2.0	<2.0	<2.0
14	5.5	<2.0	2.6	8.8	<2.0	3.1	24	5.8	9.2	<2.0	<2.0	<2.0
15	2.8	<2.0	2.0	4.6	<2.0	2.4	26	7.0	13	<2.0	<2.0	<2.0
16	2.5	<2.0	<2.0	2.7	<2.0	<2.0	11	3.4	7.1	5.6	<2.0	<2.0
17	350	<2.0	110	2.2	<2.0	<2.0	4.9	3.0	3.6	<2.0	<2.0	<2.0
18	44	7.7	21	<2.0	<2.0	<2.0	7.2	2.9	4.6	<2.0	<2.0	<2.0
19	31	8.6	16	4.3	<2.0	2.2	11	3.3	5.4	2.6	<2.0	2.1
20	31	9.1	17	2.7	<2.0	<2.0	5.6	3.0	3.5	6.7	2.0	4.2
21	21	9.2	14	3.4	<2.0	<2.0	6.8	3.4	4.3	17	2.1	8.4
22	35	8.6	17	2.9	<2.0	<2.0	5.4	3.1	3.8	38	6.9	20
23	77	7.2	21				7.0	2.1	4.0	18	2.9	6.1
24	150	28	94	7.3	<2.0	2.2				4.9	2.3	3.1
25	93	20	40	11	<2.0	2.8	4.0	<2.0	<2.0	5.1	2.0	3.2
26	23	6.2	11	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	21	2.7	11
27	13	5.1	8.9	22	<2.0	8.5	<2.0	<2.0	<2.0	27	5.8	12
28	10	4.3	6.6	9.2	3.8	6.0	<2.0	<2.0	<2.0	17	4.9	12
29	12	3.9	6.2	5.8	2.4	3.5	<2.0	<2.0	<2.0	13	4.7	7.4
30	8.0	3.7	5.2	5.5	2.2	3.3	<2.0	<2.0	<2.0	6.1	2.2	3.7
31				7.1	2.1	4.2	2.4	<2.0	<2.0			
MONTH	350	<2.0	15	64	<2.0	4.5	85	<2.0	6.1	38	<2.0	3.4
YEAR	1300	<2.0	6.7									



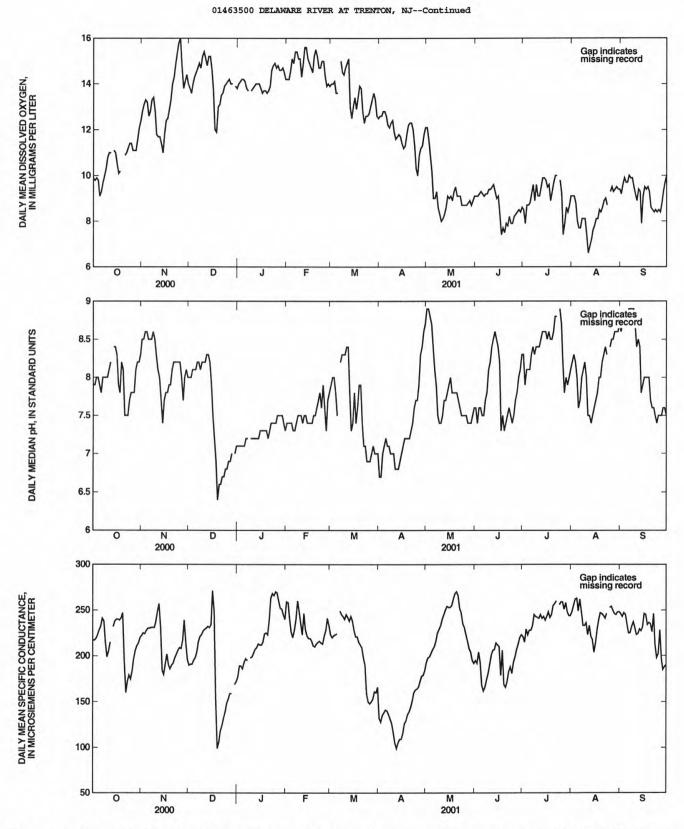


Figure 51. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton, water year 2001.

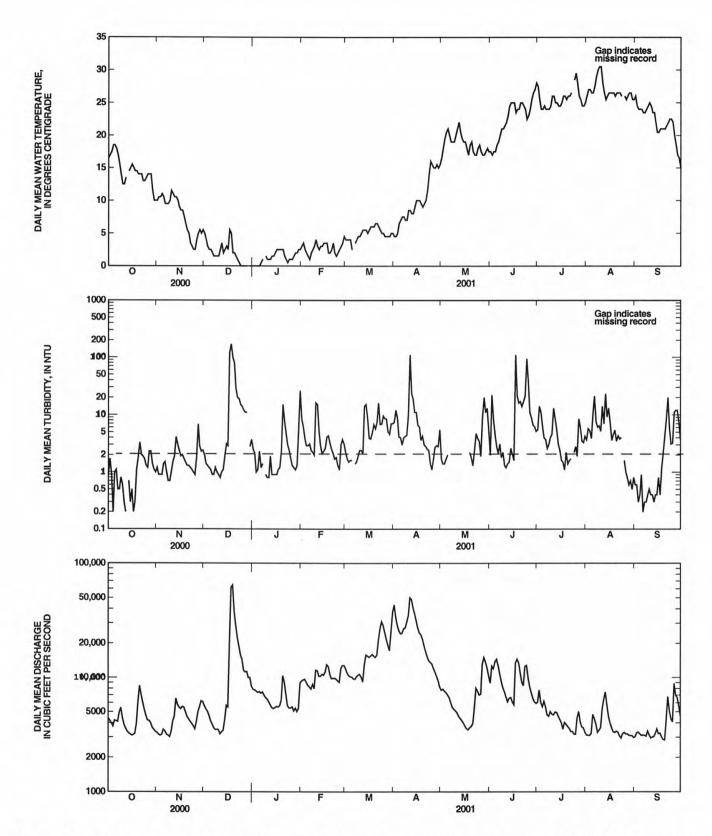


Figure 51. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton--continued. [--- instrument detection level; turbidity values less than 2.0 NTU are approximate]

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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.

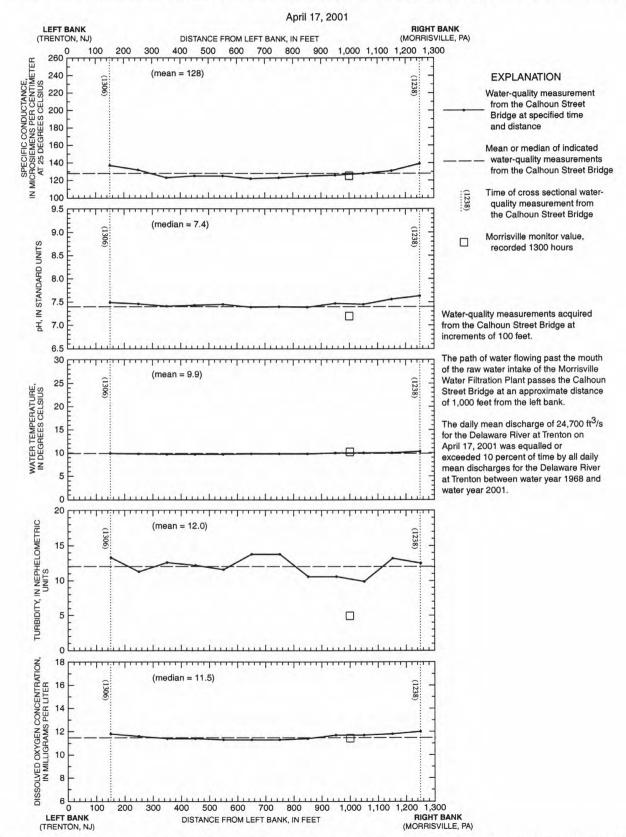


Figure 52. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, April 17, 2001.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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.

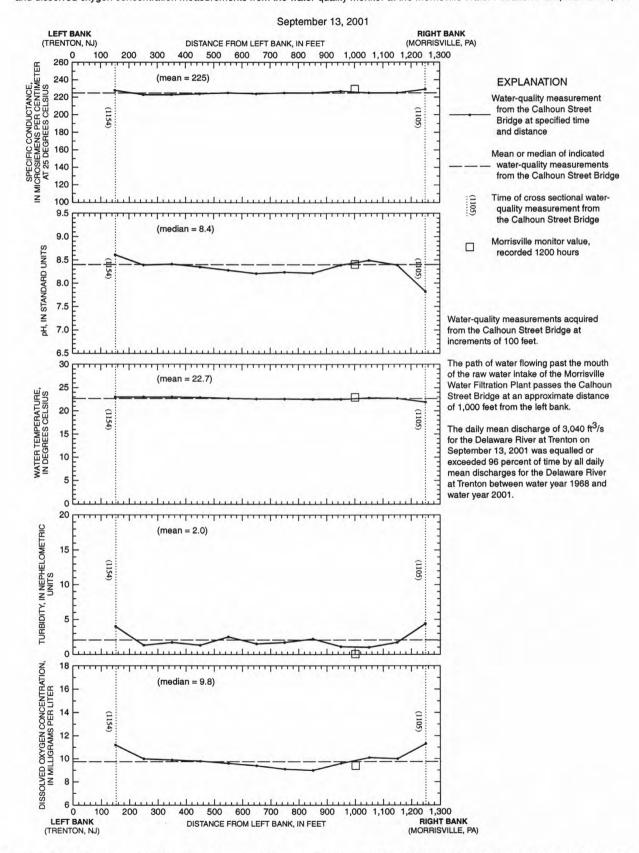


Figure 53. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, September 13, 2001.

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 County Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assumpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA. -- 10.7 mi2.

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

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 11.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
13 FEB	0810	2.3		.154	.120	760	59	6.6	6.7	179	8.5	10.5	45
15 MAY	0840	7.7		.146	.114	757	89	11.1	6.8	269	7.5	5.5	47
16	1130	.78	6.1			762	53	5.5	6.2	194	20.0	14.0	43
13	1410	2.9	7.8	.256	.197	760	60	5.0	6.5	152	27.0	24.5	31
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLIRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
NOV													
13 FEB	10.5	4.58	4.04	12.4	23	21.3	.2	2.8	18.3	101	92	.040	.38
15	11.9	4.22	2.51	29.0	18	50.5	<.2	6.1	18.4	151	139	.060	.30
16	10.3	4.29	2.85	13.8	17	26.9	<.2	7.2	15.1	130	102	.110	.28
13	6.53	3.53	3.06	13.0	15	24.0	E.1	2.6	11.4	90	75	.160	.69
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
13 FEB	.08	.52	1.02	.010	1.4	1.5	.084	.009	.035	.5	<.1	4.6	.5
15 MAY	.07	.38	1.34	.003	1.6	1.7	.112	.010	.038	.8	<.1	3.9	.8
16 AUG	.10	.40	2.49	.026	2.8	2.9	.144	.004	.032	.8	<.1	2.2	.8
13	.20	.75	.514	.013	1.2	1.3	.117	.021	.081	.8	<.1	6.1	.8

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
13	2.6		31	2
FEB				
15	E1.4		16	10
MAY				
16	<1.0	1.00	E12	3
AUG				
13	E1.6	13.9	29	1

E Estimated value.

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

DELAWARE RIVER BASIN

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ--Continued

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

TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
				JUN				
1019	1300	700	2100	05	1002	170	200	650
1025	490	500	550	11	0934	1100	900	410
	1019	FORM, FECAL, EC TIME BROTH (MPN) (31615)	FORM, E COLI, FECAL, MTEC MF EC WATER TIME BROTH (COL/ (MPN) 100 ML) (31615) (31633)	FORM, E COLI, COCCI, FECAL, MTEC MF ME MF, EC WATER WATER TIME BROTH (COL/ (COL/ (MPN) 100 ML) (31615) (31633) (31649)	FORM, E COLI, COCCI, FECAL, MTEC MF ME MF, EC WATER WATER TIME BROTH (COL/ (COL/ DATE (MPN) 100 ML) 100 ML) (31615) (31633) (31649) JUN 1019 1300 700 2100 05	FORM, E COLI, COCCI, MIEC MF ME MF, EC WATER WATER TIME BROTH (COL/ (COL/ DATE TIME (MPN) 100 ML) 100 ML) (31615) (31633) (31649) JUN 1019 1300 700 2100 05 1002	FORM, E COLI, COCCI, FORM, FECAL, MIEC MF ME MF, FECAL, EC WATER WATER TIME BROTH (COL/ (COL/ DATE TIME BROTH (MPN) 100 ML) (31615) (31633) (31649) (31615) JUN 1019 1300 700 2100 05 1002 170	FORM, E COLI, COCCI, FORM, E COLI, FECAL, MITEC MF ME MF, FECAL, MITEC MF EC WATER WATER TIME BROTH (COL/ (COL/ DATE TIME BROTH (COL/ (MPN) 100 ML) (31615) (31633) (31649) (31615) (31633) JUN 1019 1300 700 2100 05 1002 170 200

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

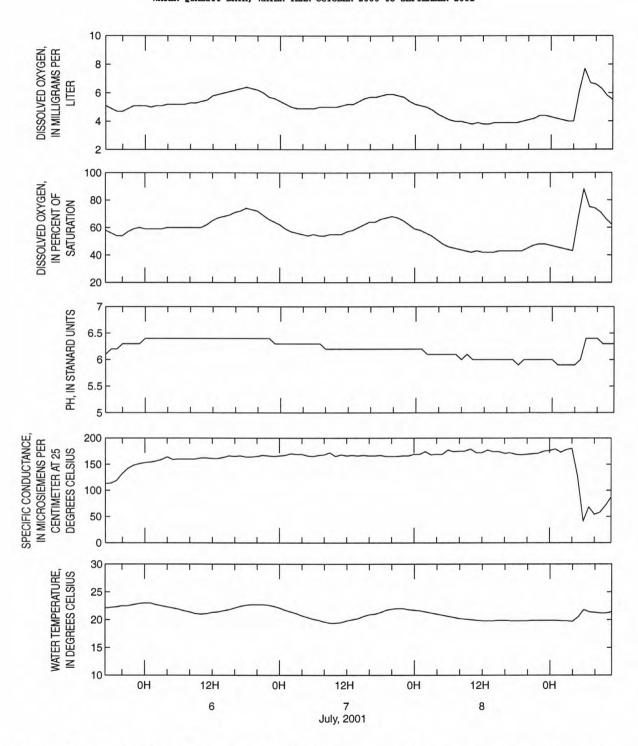


Figure 54. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01463850 Miry Run at Route 533 at Mercerville, water year 2001.

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 mi2.

PERIOD OF RECORD. -- Water years 1963, 1976-78, 1998 to current year.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-	CTLIAUO-	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
13 FEB	1140	74	175	.125	.096	761	89	9.6	7.4	306		12.0	91
15	1150	228		.113	.087	761	95	11.8	7.5	330	9.0	6.0	74
21 AUG	0830	40	15	.171	.127	766	74	7.3	7.3	411	13.0	16.0	110
06	1120	39	33	.132	.099	766	83	7.0	7.0	412	30.5	24.0	100
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L AS CA) (00915)	SOLVED (MG/L AS MG) (00925)	SOLVED (MG/L AS K) (00935)	SOLVED (MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	SOLVED (MG/L AS CL) (00940)	SOLVED (MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	SOLVED (MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
NOV													
13 FEB	19.3	10.5	3.90	20.1	56	32.6	.2	5.5	25.1	175	166	.110	.61
15 MAY	18.2	6.89	2.98	29.6	34	55.1	E.1	9.1	24.7	188	179	.170	.48
21 AUG	26.5	9.94	5.05	32.0	53	50.8	.3	8.4	33.7	238	223	.180	.88
06	25.4	9.38	4.89	36.2	56	56.1	.3	8.2	32.5	222	227	.220	.76
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
NOV													
13	.10	.82	3.29	.010	3.9	4.1	.148	.421	.532	1.0	<.1	4.5	1.0
15	.14	.58	2.61	.009	3.1	3.2	.178	.139	.221	1.2	<.1	3.4	1.2
21 AUG	.22	1.1	5.60	.068	6.5	6.7	.228	.747	.814	1.9	<.1	6.2	1.9
06	.21	.88	4.64	.039	5.4	5.5	.144	.855	.892	1.1	<.1	4.2	1.0

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
13	2.7		77	3
FEB				
15	2.1		36	13
MAY				
21	3.4	2.90	104	5
AUG				
06	E1.8	6.80	100	15

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 2000 TO SEPTEMBER 2001

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)	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)
AUG 10	0920	19	<.7	<.06	135	.12	<1	11.2	<10	1	<3	<.01	3
				D/ AUG	ATE	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)					
				1	10	<.4	.16	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 UNFLITRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
15	1150	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB	. 10		1 00		20						. 10	. 10	2
15	<.10	<.2	1.02	<.10	.39	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.5
	D.A	TE	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)		
	FEE 1	5	<.2	<.20	<.10	<.10	.3	<.10	<.10	<.20	<.2		
			1000	15355	0.00	80 = 2	0.7	27.7	3555	9553	4.64		

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

DATE	TIME	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
MAY 21	0830	<.002	<.004	<.002	<.005	.068	<.010	E.019	<.020	<.005	<.003	<.005	<.005

< 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 2000 TO SEPTEMBER 2001

DATE	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	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)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 0.7 U GF, REC (UG/L) (82684)
MAY 21	<.021	<.002	<.009	<.005	<.004	<.035	<.027	<.050	<.006	.046	<.006	<.002	<.007
DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	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- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
MAY 21	<.003	<.007	<.002	<.010	<.006	<.011	<.004	<.011	<.023	<.016	<.034	<.017	<.005

TRIAL-TRI-LATE WATER FLUR-ALIN FLTRD 0.7 U GF, REC (UG/L) (82678) WAT FLT 0.7 U GF, REC (UG/L) (82661) DATE

MAY 21...

<.002 <.009

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1143	>24000	8200	2300	05	1115	16	4200	4000
30	0950	>24000	17000	3500	11	1113	16000	17000	5600

<sup>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.</sup>

01464380 NORTH RUN AT COOKSTOWN, NJ

LOCATION.--Lat 40°02'58", long 74°33'47", Burlington County, Hydrologic Unit 02040201, at bridge on Main Street (County Route 528) in New Egypt, 0.1 mi south of intersection of Main Street, Cookstown-New Egypt Road, and Meany Road, and 1.0 mi upstream from Oakford Lake.

DRAINAGE AREA. -- 7.28 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

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 Frotection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

		SAME	OT.E	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-
DATE	TIME	TYE		UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)
NOV 30	1030	ENVIRON	MENTAL		.106	.084	759	97	11.7	7.1	199	5.0	7.0
FEB						11457							
22 MAY	0930	ENVIRONM	ENTAL		.075	.063	775	86	12.1	7.2	247	-1.0	2.0
22 AUG	0930	ENVIRON	MENTAL	48	.208	.166	757	76	7.7	7.1	233	16.8	14.5
28	0900	ENVIRON	MENTAL	13	.125	.102	759	67	6.1	7.1	255	24.0	20.0
						ANC					SOLIDS,	SOLIDS,	NITRO-
	HARD-		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF	GEN,
	NESS	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-	AMMONIA
	TOTAL	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-
22000	(MG/L	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED
DATE	AS	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L
	(00900)	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)
NOV	- 21	520.2											100
30 FEB	61	17.8	3.88	3.61	9.7	26	17.6	E.1	10.3	30.1	111	111	.100
22 MAY	74	22.1	4.66	3.08	11.7	28	23.5	E.1	11.7	40.6	148	136	.100
22 AUG	69	20.8	4.20	3.90	13.3	36	24.1	.2	9.9	27.9	146	127	.210
28	83	26.1	4.31	4.82	12.9	48	25.0	.3	13.3	32.1	163	148	<.030
	NITRO-		NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,	
	GEN, AM-	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,
	MONIA +	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC
	ORGANIC	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-
DATE	DIS. (MG/L	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED
DATE	AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	(00623)	(00610)	(00625)	(00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)
NOV		44											0.2
30	.33	.11	.34	.364	.006	. 69	.70	.072	.006	.056	1.0	<.1	2.9
FEB 22	.19	.10	.26	.437	<.003	.63	.69	.030	.005	.037	.6	<.1	1.6
22 AUG	.54	.22	.98	.319	.027	.85	1.3	.426	.007	.241	4.2	<.1	4.8
28	.23	.03	.24	E.195	.003			.052	.012	.057	.5	<.1	2.8

E Estimated value.

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

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

	CARBON, ORGANIC	OXYGEN DEMAND,	CHLORO- PHYLL A		RESIDUE TOTAL
	PARTIC- ULATE	BIO- CHEM-	FLUORO- METRIC	BORON, DIS-	AT 105 DEG. C,
DATE	(MG/L AS C)	ICAL, 5 DAY (MG/L)	METHOD CORR. (UG/L)	SOLVED (UG/L AS B)	SUS- PENDED (MG/L)
	(00689)	(00310)	(32209)	(01020)	(00530)
NOV					
30 FEB	1.0	E2.1		24	4
22 MAY	.6	2.0		31	8
22 AUG	4.1	3.0	33.1	35	43
28	.5	<1.0	.800	44	27

DATE	TIME	SAME		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 28	0815	ETELD D											
28	0900	FIELD BI						77		<2	46.1	.11	42
28	0900	BED MATE		6.90	60	.6	460	1.3	<.2				
DATE	CADMIUM WATER UNFLIRD 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)	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)
AUG													
28			<.2			<.08			<.01		<.06		
28	.05	<1		E.5	1760		<1	41		<.01		3	<.4
28													
DATE	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)	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, SEDIMT, BED MA- TERIAL 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)
AUG													
28		<1				42							
28	<.05		12										
28				<1	.2	30	.8	<3	12000	4.2	9.5	<.01	3.2
DATE	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)	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													
28													
28	<1	30	 <50	 <50	 <50	<50	<50	 <50	 <50	м	<50	м	<50

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

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

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)	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)
AUG													
28					4-								
28	M	м	<50	м	<50	<50	<50	<50	<50	<50	<50	<50	E4
20	<i>M</i>		P- CRESOL SED, BM	PHENAN THRENE 1METHYL SED, BM	PHENAN THRENE SED, BM	PHENAN- THRI- DINE SED, BM	PYRENE, 1- METHYL, SED, BM	PYRENE, SED, BM	BED MAT. FALL DIAM.	BED MAT. SIEVE DIAM.	130	130	24
	DATE		WS, <2MM DW, REC (UG/KG) (49451)	WS, <2MM DW, REC (UG/KG) (49410)	WS, <2MM DW, REC (UG/KG) (49409)	WS, <2MM DW, REC (UG/KG) (49393)	WS, <2MM DW, REC (UG/KG) (49388)	WS,<2MM DW, REC (UG/KG) (49387)	% FINER THAN .004 MM (80157)	% FINER THAN .062 MM (80164)			
	AUG												
	28 28 28				==								
			<50	<50	<50	<50	<50	M	<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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
22	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	.23	<.20	<.20
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB													
22	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	1.1
	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)		
	FEB 22		<.2	<.20	<.10	<.10	<.1	.43	<.10	<.20	<.2		
	44												

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

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

	1		WATER-QUALITY DATA, WATER TEAR OCTOBER 2000 TO SEPTEMBER 2001										
DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 22	0930	<.004	<.002	<.005	.033	<.010	E.033	<.020	<.005	<.018	E.002	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY 22	<.005	<.002	<.004	<.035	<.027	<.050	.041	<.006	<.002	.013	<.003	<.010	E.005
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 22		<.011	<.016	E.039	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	1015	700	440	100	06	1050	110	400	110
30	1115	110	200	150	13	1105	460	<100	410
					19	1110	630	900	330

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 mi2.

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

REMARKS. -- Site is at head of tide, infrequently affected, but sampled at low tide.

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 20.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLIRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV													
28 MAR	1120	245		.281	.226	760	80	9.6	6.7	132	12.0	7.5	39
08 MAY	1220	194		.133	.104	761	89	11.5	7.1	240	9.0	4.5	49
21 AUG	1130	52	9.5	.200	.161	766	85	8.6	7.3	209	13.0	15.0	66
30	1030	51	17	.218	.175	764	86	7.6	7.2	174	26.0	21.5	53
DATE	CALCIUM DIS- SOLVED (MG/L	MAGNE- SIUM, DIS- SOLVED (MG/L	POTAS- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	ANC UNFLTRD TIT 4.5 LAB (MG/L AS	CHLO- RIDE, DIS- SOLVED (MG/L	FLUO- RIDE, DIS- SOLVED (MG/L	SILICA, DIS- SOLVED (MG/L AS	SULFATE DIS- SOLVED (MG/L	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
28 MAR	11.6	2.45	3.92	5.6	14	12.3	E.1	8.6	18.4	90			.28
08 MAY	14.2	3.36	2.45	21.0	16	38.6	E.1	8.3	24.6	136	126	.050	.22
21 AUG	19.8	3.93	3.10	10.2	31	20.7	.2	9.7	25.8	141	117	.060	.32
30	15.8	3.27	3.73	8.5	26	18.2	.2	9.9	20.9	104	96	.080	E.31
	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L AS N) (00610)	TOTAL (MG/L AS N) (00625)	SOLVED (MG/L AS N) (00631)	SOLVED (MG/L AS N) (00613)	(MG/L AS N) (00602)	TOTAL (MG/L AS N) (00600)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
		12,500			,		,/			,,,,,,,,,		,,,,,,,,,,	*******
NOV 28 MAR	.04	.50	.481	<.003	.76	.98	.199	.029	.193	2.5	<.1	6.6	2.5
08	.07	.26	.801	<.003	1.0	1.1	.154	.013	.084	1.2	<.1	3.4	1.2
21 AUG	.08	.47	.960	.022	1.3	1.4	.066	.024	.105	.6	<.1	3.7	.6
30	.06	.33	E.612	.016	-22		.071	.039	.133	.7	<.1	3.9	.7

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
28	3.7		22	15
MAR				
08	2.3		26	5
MAY				
21	E1.8	2.10	29	3
AUG				
30	E1.8	2.30	25	6

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 2000 TO SEPTEMBER 2001

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
AUG 30 30	1030 1030	7.00	330	.8	 820	1.6	1.4	E1	27.4	<.06	30	E.03	<1
DATE	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)	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)
30 30	1.6	2030	<1	41	<.01	2	<.4	<.05	14	2	2	36	6.0
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
30	6	33000	20	220	.02	10	<1	80	E40	м	E30	E20	E30
DATE	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)	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)
AUG 30													
30	E20	90	230	220	280	140	240	310	E50	670	170	<50	<50
DATE	NAPTHAL ENE, 16 DIMETHIL 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- 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, EM 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG 30	22												-22
30	м	<50	E20	М	М	E11	50	E20	360	<50	E20	490	10

BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164) DATE

AUG 30... 18

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 2000 TO SEPTEMBER 2001

DATE MAR 08	TIME 1220	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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR 08	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	ATE	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	8	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITRD 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)
MAY 21	1130	<.004	<.002	<.005	.012	<.010	E.080	<.020	<.005	<.018	<.003	E.007	E.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
MAY 21	<.005	<.002	<.004	<.035	<.027	<.050	.314	<.006	<.002	<.007	<.003	<.010	E.004
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	1	.026	<.016	<.034	<.005	<.009				

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

DELAWARE RIVER BASIN

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
MAY					JUN				
23	0945	490	1300	600	05	0928	330	100	190
30	1150	230	200	240	11	0841	490	200	130

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION.--Lat 40°10'37", long 74°35'57", Mommouth County, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Millpond dam.

DRAINAGE AREA. -- 17.4 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Agricultural Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPT	EPTEMBER	2001
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		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
21 FEB	1400	11		.096	.075	758	93	11.6	7.3	191	4.5	5.6	56
15 MAY	1200	27		.056	.044	760	94	12.1	6.8	201	10.0	4.5	47
14	1110	7.3	6.4	.103	.080	765	78	7.5	7.3	219	27.5	17.5	61
13	1200	15	10	.198	.158	760	65	5.4	6.7	162	28.0	24.5	46
		MAGNE-	POTAS-		ANC UNFL/TRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN, AM-
	CALCIUM DIS-	SIUM, DIS-	DIS-	SODIUM, DIS-	LAB	RIDE, DIS-	DIS-	DIS- SOLVED	DIS-	AT 180 DEG. C	TUENTS,	DIS-	MONIA + ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
-57075	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
21 FEB	14.0	5.03	4.41	9.4	24	22.6	.2	9.6	20.1	110	103	.660	.83
15	11.6	4.42	2.80	12.2	13	27.2	E.1	8.7	22.9	116	105	.530	. 64
AUG	15.0	5.84	3.28	12.5	25	26.4	.2	7.0	21.2	128	112	.890	1.5
13	11.4	4.22	4.02	7.7	21	18.1	.2	7.6	18.4	98	87	.380	.70
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-	Visitor	NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN,	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	TOTAL (MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
21 FEB	.66	1.0	.411	<.003	1.2	1.4	.105	.005	.046	.9	<.1	2.9	.9
15 MAY	.49	.62	1.57	.020	2.2	2.2	.155	.004	.045	.8	<.1	1.9	. 8
14 AUG	1.05	1.5	.834	.048	2.3	2.3	.144	.020	.084	1.0	<.1	3.4	1.0
13	.36	.85	.486	.023	1.2	1.3	.102	.015	.069	.8	<.1	4.5	.8

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
21	E1.8		34	5
FEB				
15	E1.2		14	7
MAY				
14	E1.1	2.80	33	<1
AUG				
13	<1.0	23.1	29	3

E Estimated value

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

DELAWARE RIVER BASIN

01464515 DOCTORS CREEK AT ALLENTOWN, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
AUG					AUG				
02	1101	9200	4200	990	23	0930	50	200	190
09	1000	80	200	220	30	1010	790	<100	220

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

01464527 BLACKS CREEK AT CHESTERFIELD, NJ

LOCATION.--Lat 40°06'34", long 74°38'31", Burlington County, Hydrologic Unit 02040201, at bridge on Chesterfield-Georgetown Road in Chesterfield, 346 ft north of intersection of Stelle Road and Chesterfield-Georgetown Road, and 2.4 mi upstream of Bacons Run.

DRAINAGE AREA. -- 8.91 mi2.

PERIOD OF RECORD. -- December 2000 to August 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Agricultural Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 20.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
				,/	(/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(00000)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10.77
DEC 21	0940	12		.245	.200	768	92	13.2	7.5	162	1.0	1.0	49
FEB	0340			.245	.200	700	34	13.2	7.5	102	1.0	1.0	•
22	1030	9.7		.130	.107	769	96	13.4	6.6	180	-1.5	2.0	53
MAY 14	0900	5.0	19	.221	.179	764	70		7 1	204	16.5	16.0	71
AUG	0900	5.0	19	. 221	.179	764	70	6.9	7.1	204	10.5	10.0	11
16	1120	4.9	28	.263	.211	763	78	6.7	6.8	157	29.0	23.0	52
	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.
DATE	(MG/L	(MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	SOLVED	(MG/L	(MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
DEC													
21 FEB	13.2	3.99	5.01	5.3	24	14.2	.3	10.4	16.2	101	90	.200	.47
22 MAY	14.1	4.29	3.60	7.6	21	19.3	.2	10.6	19.9	109	100	.140	.29
AUG	19.8	5.27	4.10	7.7	43	19.4	.3	10.1	18.1	129	112	.130	.53
16	14.7	3.62	4.88	6.1	36	15.0	.3	9.3	11.2	100	88	.050	.47
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
DEC													
21 FEB	.18	.81	1.54	.014	2.0	2.4	.372	.011	.322	3.1	<.1	4.1	3.1
22 MAY	.15	.49	1.59	.012	1.9	2.1	.140	.010	.100	1.1	<.1	2.3	1.1
14 AUG	.12	.64	.351	.024	.89	.99	.152	.025	.137	1.1	<.1	4.6	1.1
16	.000	.69	.323	.018	.79	1.0	.224	.028	.182	1.6	<.1	5.7	1.6

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

01464527 BLACKS CREEK AT CHESTERFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
DEC				
21	2.4		23	45
FEB				
22	2.0		24	14
MAY				
14	<1.2	21.1	35	7
AUG				
16	E1.0	38.9	33	9

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	0955	16000	4800	9400	JUL 09 30	0925 0938	130 330	<100 100	280 670

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

DELAWARE RIVER BASIN 01464527 BLACKS CREEK AT CHESTERFIELD, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

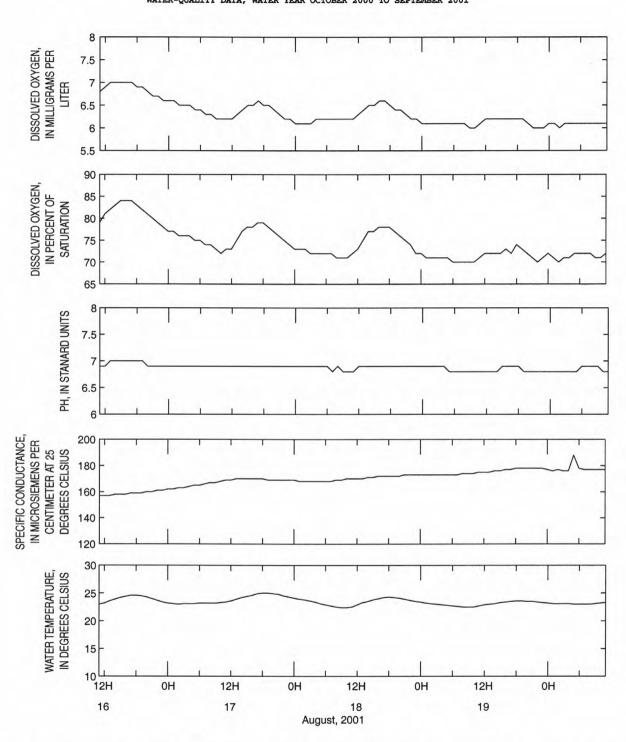


Figure 55. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01464527 Blacks Creek at Chesterfield, water year 2001.

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA

LOCATION. -- Lat 40°13'45", long 75°07'12", Bucks County, Hydrologic Unit 02040201, at 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

DRAINAGE AREA. -- 26.8 mi2.

PERIOD OF RECORD. -- November 1998 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: February 1999 to June 1999, November 2000 to September 2001.

INSTRUMENTATION. -- Water-temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at gage.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).

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 and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

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.

SAMPLE FEET (MM CENT DIS- (STAND- DUCT- ATD	MPER- TEMPER- TURE ATURE AIR WATER EG C) (DEG C) 0020) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT			
12 1240 ENVIRONMENTAL 10 767 132 14.3 8.2 487 18	8.5 11.9	160	41.0
02 1009 FIELD BLANK		2.5	E. 01
02 1010 ENVIRONMENTAL 14 759 104 12.4 8.0 571 13	1.5 7.7	190	48.8
26 1520 ENVIRONMENTAL 18 766 111 16.3 7.9 569 -1	1.5 .1	170	43.6
JAN 30 1730 ENVIRONMENTAL 1030 747 97 13.3 7.2 450 7	7.0 1.6	84	21.3
30 1730 ENVIRONMENTAL 1030 747 97 13.3 7.2 450 7	7.0 1.6	84	21.3
15 1330 ENVIRONMENTAL 43 754 125 15.1 8.3 591 12	2.5 6.6	140	35.0
	1.0 8.3	120	30.7
30 1250 ENVIRONMENTAL 15 759 139 13.5 8.2 522 22 JUN	2.5 16.6	160	41.7
	2.0 18.0	140	37.1
	0.0 23.0	140	35.8
	0.5 25.4	130	33.3
SEP 11 1310 ENVIRONMENTAL 1.8 759 109 9.3 8.3 769 25	5.5 22.9	180	46.0
DIS- DIS- DIS- TOT IT DIS IT DIS- DIS- SOLVED DIS- SOLVED SOLVED SOLVED FIELD FIELD FIELD SOLVED SOLVED (MG/L SOLVED DATE (MG/L (MG/L MG/L AS MG/L AS MG/L AS (MG/L (MG/L AS MG/L AS M	NITRO- GEN, AM- LFATE MONIA + ORGANIC OLVED DIS. MG/L (MG/L SO4) AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
(00925) (00935) (00930) (39086) (00453) (00452) (00940) (00950) (00955) (00	0945) (00623)	(00625)	(00608)
OCT		40	. 041
NOV	4.7 .25	.46	<.041
	<.1 <.10	<.08	<.041
DEC	5.8 .33	.42	<.041
26 15.4 3.25 42.9 93 114 81.1 E.1 11.9 48	8.1 .32	.36	<.041
	7.2 .53	1.1	.117
	2.2 .33	.49	<.041
APR			
	1.9 .22	.42	<.041
30 14.1 2.99 38.7 105 119 4 69.6 <.2 4.1 40	0.9 .39	.50	<.041
	7.4 .36	.45	<.040
AUG	7.6 .41	.40	<.040
07 11.5 3.72 31.2 85 104 42.1 E.1 3.9 48	8.2 .34	.43	E.038
	2.0 .98	1.1	E.031

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 2000 TO SEPTEMBER 2001

	NITRO- GEN, TOTAL	NITRO- GEN DIS- SOLVED	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN, ORGANIC TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO, DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00600)	(MG/L AS N) (00602)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00605)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
OCT													
12 NOV	2.1	1.9	1.61	.006			.056	.048	.097			3.8	. 4
02			<.047	<.006			<.006	<.018	<.004				
02 DEC	1.6	1.6	1.22	.008			.063	.046	.087			3.8	.4
26 JAN	1.1	1.1	.782	E.005			.043	.033	.067		777	3.1	.3
30 MAR	1.8	1.3	.751	.010	.97	.866	.063	.054	.347	8.6	.22	6.4	
15 APR	1.8	1.6	1.28	.015		.102	.028	.021	.072	.7	<.1	3.7	.7
02	1.7	1.5	1.29	.010		.172	.036	.025	.070	.7	<.1	3.1	.7
30 JUN	1.3	1.2	.841	.028		.060	.052	.019	.076	.6	<.1	3.6	.6
06	1.4	1.3	.949			.101	.073	<.020	.099	.7	<.1	3.8	.7
28	1.8	1.8	1.40	.040		.163	.050	.023	.085	.7	<.1	3.5	.7
AUG 07 SEP	1.3	1.2	.885	.017	1-7	.032	.091	.071	.100	.3	<.1	3.7	.3
11	3.1	3.0	2.00	.028		.105	.151	.112	.163	. 4	<.1	5.0	.4
	DA	TE	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)			
		2	280	266	7.7	75	20	14.2	.12	4			
	NOV									~			
	0	2	<10 337	322	26	<13 120	<10 20	<3.2 11.8	.47	7 12			
		6	333	306	9.8	61	20	63.1	.22	5			
		0	240	222	280	15	70	85.1	1010	364			
		5	331	301	20	34	60	79.2	1.2	11			
	APR		220	222	6 5	30	FO	67 4	1.0				
		0	238 313	222 279	6.5 5.0	39 62	50 70	67.4 32.0	1.0	8 4			
		6	255		10	44	70	42.5	.49	7			
		8	248	241	7.5	49	20	23.4	.38	8			
		7	239	229	5.0	75	10	44.1	.04	3			
		1	435	410	<2.0	205	М	24.4	.01	1			

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 12	1240	E.02	<.04	E.01	698	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

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-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L (32104	SUI WI WI TO	OLE BI	HLORO- ENZENE DTAL JG/L) 34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	-D CHL ETH WA TO (UG	TER N TAL /L)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLOIDI- FLUOI METHA TOTAL (UG/I	RO- W ANE UN L RE L) (U	THER THYL ATER FLTRD COVER G(L) 1576)	ETH TER PENT METH UNFI RECO (UG/ (500	RT- FYL HYL LTRD OVER /L)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
ОСТ 12	<.04	<.06	<.	07	<.03	<.2	E.02		12	<.05	<.3	3	<.2	٠.	.1	<.03	<.06
DATE	TET	TRA- II DRO- E TER E TRD WA DVER L) (U	THYL ERT- SUTYL THER T UNF REC IG/L)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418	CHLA RIDI TOTAL (UG/)	E XYLE 0- WAT E UNFI L RE L) (UG	RA- CHI ENE TOL TER WA LTRD WH EC TO E/L) (UG	ORO- JUENE ATER IOLE OTAL IJ/L)	O- XYLENE WATEF WHOLE TOTAL (UG/L) (77135	WATE WHO REC	PYL- TIENE (TER II) DLE (L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLU TOT (UG/	ENE AL L)	TRI- CHLOR ETHYL ENE TOTA (UG/ (3918	CHLA FLUG METI L TO: (L) (UG.	DRO- DRO- HANE FAL
OCT 12	<2		.2	<.2	<:	2 <.0	06 <.	03	<.04	<.0	7	м	E.0	3	.21	<	09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 FLITRD REC (UG/L)	ALA- CHLOR, WATER, DISS, REC, (UG/L)	ALPHA BHC DIS- SOLVED (UG/L)	ATRA- ZINE, WATER, DISS, REC (UG/L)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L)	CYANA- ZINE, WATER, DISS, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L)
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(82674)	(38933)	(04041)	(82682)	(04040)	(39572)
OCT													
12 JAN	1240	<.004	<.002	<.005	.020	<.010	<.041	<.020	<.005	<.018	<.003	E.026	.007
30 APR	1730	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
02	1320	<.004	<.002	<.005	.010	<.010	<.041	<.020	<.005	<.018	<.003	E.010	.008
30	1250	<.004	<.002	<.005	.017	<.010	<.041	<.020	<.005	<.018	<.003	E.020	<.005
06	0750	<.004	<.002	<.005	.181	<.010	E.005	<.020	<.005	<.018	<.003	E.029	.042
28 AUG	0930	.014	<.002	<.005	.193	<.010	E.002	<.020	E.004	<.018	<.003	E.011	.032
07 SEP	0940	<.004	<.002	<.005	.033	<.010	E.011	<.020	<.005	<.018	<.003	E.013	.087
11	1310	<.004	<.002	<.005	.026	<.010	E.012	<.020	<.005	<.018	<.003	E.021	.006
DATE	DI- ELDRIN DIS- SOLVED (UG/L)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L)	LINDANE DIS- SOLVED (UG/L)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L)	MALA- THION, DIS- SOLVED (UG/L)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L)	METO- LACHLOR WATER DISSOLV (UG/L)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)
	(39381)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82671)	(82684)	(34653)	(82683)	(04037)
OCT											200.25	272.6	1,3,53
JAN	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.082
30 APR	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015
02	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.002	<.007	<.003	.010	.015
JUN	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.017
06	<.005	<.002	E.001	<.035	<.027	<.050	.099	<.006	<.002	<.007	<.003	E.006	.057
AUG	<.005	<.002	<.004	<.035	<.027	<.050	.086	<.006	<.002	<.007	<.003	<.010	<.030
07 SEP	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	.029
11	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003	<.010	.017

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

DELAWARE RIVER BASIN

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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)	WATER FLTRD 0.7 U GF, REC (UG/L)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
12	E.008	<.016	<.034	E.022	<.005	<.009
JAN	21101	13.4		50.000		
30	<.011	<.080	<.034		<.005	<.009
APR						
02	.034	<.016	<.034		<.005	<.009
30	<.011	<.016	<.034		<.005	<.009
JUN						
06	.091	<.016	<.034		<.005	E.003
28	.016	<.016	<.034	E.009	<.005	<.009
AUG						
07 SEP	E.002	<.016	<.034		<.005	<.009
11	- 011	- 016	× 034		- 005	- 000

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	t .	N	OVEMBER		Di	ECEMBER			JANUARY	
1	122						6.0	4.0	5.0	.5	.0	.5
2							4.5	1.5	3.0	.5	.0	.0
3				11.0	7.0	9.0	3.0	.5	1.5	.0	.0	.0
4				11.5	8.5	10.5	3.0	.0	1.0	.0	.0	.0
5				10.5	8.0	9.0	3.5	.0	2.0	.0	.0	.0
6				9.0	6.0	8.0	2.5	.0	1.5	.0	.0	.0
7				9.0	6.0	8.0	2.5	.5	1.5	.0	.0	.0
8				10.0	6.5	8.5	3.0	.5	1.5	.0	.0	.0
9				11.5	9.0	10.0	3.0	.0	1.5	.5	.0	.5
10				12.5	11.0	12.0	3.0	. 5	1.5	.5	.0	.5
11				12.0	10.5	11.5	4.0	2.5	3.0	.5	.0	.5
12				11.5	9.5	10.5	5.0	2.0	4.0	1.0	.0	. 5
13				11.0	9.5	10.5	2.5	.5	1.5	1.0	.5	.5
14				10.5	9.0	10.0	2.5	1.5	1.5	1.0	.0	.5
15				9.0	7.0	8.0	3.0	2.0	2.5	1.5	1.0	1.0
16				8.0	6.5	7.5	4.5	2.0	3.0	2.0	1.5	1.5
17				8.5	6.5	7.5	11.0	4.0	8.5	1.5	1.0	1.5
18				7.5	5.5	6.0	9.0	4.5	6.5	1.5	1.0	1.0
19				6.0	4.5	5.0	4.5	3.5	4.0	1.5	1.0	1.5
20				5.5	2.5	4.0	4.0	2.0	3.0	1.5	1.0	1.5
21				4.5	2.0	3.5	2.0	1.0	1.5	1.5	.5	1.0
22				3.0	1.5	2.0	2.5	1.0	2.0	1.0	.0	.5
23				2.0	.5	1.5	1.0	.0	.5	1.0	.0	.5
24				2.5	.5	1.5	.5	.0	.5	1.5	.0	.5
25				3.0	.5	2.0	.5	.5	.5	1.5	.5	1.0
26	222			7.0	3.0	5.0	.5	.5	.5	1.5	.5	1.0
27				7.5	6.5	7.0	.5	.5	.5	2.0	1.0	1.5
28				8.5	6.5	7.5	.5	.5	.5	2.0	1.0	1.5
29				7.5	5.5	6.5	.5	.5	.5	2.0	1.0	1.5
30				7.0	6.0	6.5	.5	.0	.5	2.0	1.5	2.0
31							. 5	.0	.0	2.5	1.5	2.0
MONTH				12.5	.5	7.1	11.0	.0	2.1	2.5	.0	.8

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

DELAWARE RIVER BASIN

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
				2-2		16.5	4.4			22 E	15.5	17.5
1	3.5	2.5	3.0	5.5 5.5	5.0	5.0	8.0	7.0	7.5 8.0	22.5	17.5	19.5
3	4.0	3.0	2.5	6.0	5.5	5.5	10.5	7.0	8.5	23.5	19.0	20.5
4	2.5	1.5	2.0	6.0	5.0	6.0	11.5	8.5	10.0	23.5	20.0	21.0
5	2.5	.5	1.5	5.0	4.0	4.5	12.0	9.0	10.5	23.5	19.5	22.0
6	2.5	1.0	1.5	4.0	3.5	4.0	12.0	10.5	11.0	21.5	17.0	18.5
7	3.5	2.5	3.0	5.5	4.0	4.5	11.0	10.0	10.5	20.5	14.5	17.0
8	3.0	2.5	3.0	5.5	5.0	5.0	10.0	9.5	10.0	19.5	15.0	16.5
9	4.0	2.5	3.5	6.0	5.5	5.5	14.5 14.5	9.5 13.5	11.5 14.0	20.5	16.0 16.5	18.5
10	4.5	4.0	4.5	6.0	5.0	5.5	14.5	13.3	14.0	22.0		
11	4.0	2.5		6.5	5.5	6.0	13.5	12.0	12.5	21.5	17.5	19.0
12	3.0		2.5	7.0	5.5	6.0	12.0	11.5	12.0	22.5	18.5 17.0	20.0
13 14	5.0	4.0	3.5 4.5	7.0	5.5 6.5	6.0 7.0	14.0 15.0	12.0 12.5	13.0 14.0	19.5	15.5	17.0
15	5.5	5.0	5.0	7.0	6.5	7.0	15.0	13.0	14.0	20.0	15.0	17.0
								12 5	14.0	20.0	15.0	17.0
16	5.5	5.0 4.0	5.0	8.0	7.0	7.5	14.5	13.5	13.0	18.5	16.0	16.5
17 18	5.5 4.0	2.5	3.0	8.0	7.0	7.5	13.0	11.0	12.0	16.0	15.5	16.0
19	4.0	2.0	3.0	8.0	6.5	7.5	13.0	10.5	12.0 12.0 12.0	19.5	16.0	17.0
20	5.0	3.5	4.0	8.5	7.0	7.5	12.5	11.0	12.0	19.5	17.0	18.0
21	6.0	4.5	5.0	8.5	6.5	7.5	14.0	12.5	13.0	17.5	15.0	16.0
22	5.0		3.5	7.5	6.5	7.0	17.0		15.0	17.0	15.5	16.0
23	3.5	2.0	2.5	8.5	6.5	7.5	19.5	16.5	17.5	18.0	16.0	17.0
24	3.5	2.5	3.0	8.5	7.5	8.0	20.0 19.0	18.0 16.0	19.0 17.5	21.0 19.0	17.0	18.5
25	4.0	3.5	4.0	7.5	6.0	7.0	19.0	10.0	17.5	13.0	1	
26	5.0	4.0	4.5	7.5	6.5	7.0	16.5	14.0	15.5	17.0	16.0	16.5
27	6.0	4.5	5.0	7.0	6.0	6.5	16.5	14.5	15.5	17.5	16.0	16.5
28	6.0	5.5	5.5	7.5	6.0	6.5 7.0	17.0 16.5	15.5 14.5	16.0 15.5	19.5	17.0 16.5	18.0
29 30				7.5	6.5 5.5	6.0	19.5	14.5	16.5	20.5	17.0	18.0
31				7.5	6.0	6.5				21.0	15.0	17.5
MONTH	6.0	.5	3.6	8.5	3.5	6.3	20.0	7.0	13.0	23.5	14.5	17.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN		MIN AUGUST	MEAN		MIN SEPTEMBE	
		JUNE			JULY			AUGUST	22.0	26.0		
1	17.0		16.0 16.0	26.0 25.5	JULY	MEAN 25.0 23.5	23.0 24.5	AUGUST 20.5 22.0	22.0	26.0	24.5 21.5	25.0 22.5
1 2 3	17.0 17.0 19.5	JUNE 15.0 15.0 17.0	16.0 16.0	26.0 25.5 23.0	JULY 24.0 21.0 19.5	25.0 23.5 21.0	23.0 24.5 25.0	AUGUST 20.5 22.0 23.0	22.0 23.0 24.0	26.0 24.5 23.0	24.5 21.5 20.5	25.0 22.5 21.5
1 2 3 4	17.0 17.0 19.5 20.0	JUNE 15.0 15.0 17.0 16.0	16.0 16.0 17.5 18.0	26.0 25.5 23.0 23.0	JULY 24.0 21.0 19.5 21.0	25.0 23.5 21.0 22.0	23.0 24.5 25.0 24.5	20.5 22.0 23.0 23.0	22.0 23.0 24.0 24.0	26.0 24.5 23.0 23.5	24.5 21.5 20.5 21.5	25.0 22.5 21.5 22.5
1 2 3	17.0 17.0 19.5	JUNE 15.0 15.0 17.0	16.0 16.0	26.0 25.5 23.0	JULY 24.0 21.0 19.5	25.0 23.5 21.0 22.0	23.0 24.5 25.0	AUGUST 20.5 22.0 23.0	22.0 23.0 24.0	26.0 24.5 23.0 23.5 23.0	24.5 21.5 20.5 21.5 22.0	25.0 22.5 21.5 22.5 22.5
1 2 3 4	17.0 17.0 19.5 20.0	JUNE 15.0 15.0 17.0 16.0	16.0 16.0 17.5 18.0 19.0	26.0 25.5 23.0 23.0 23.0	JULY 24.0 21.0 19.5 21.0 21.5	25.0 23.5 21.0 22.0 22.0	23.0 24.5 25.0 24.5 24.5	20.5 22.0 23.0 23.0 22.5	22.0 23.0 24.0 24.0 23.5	26.0 24.5 23.0 23.5 23.0	24.5 21.5 20.5 21.5 22.0 20.5	25.0 22.5 21.5 22.5 22.5 22.5
1 2 3 4 5	17.0 17.0 19.5 20.0 21.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0	16.0 16.0 17.5 18.0 19.0	26.0 25.5 23.0 23.0 23.0	JULY 24.0 21.0 19.5 21.0 21.5 20.5 19.5	25.0 23.5 21.0 22.0 22.0	23.0 24.5 25.0 24.5 24.5 26.5 28.0	20.5 22.0 23.0 23.0 22.5 23.5 25.0	22.0 23.0 24.0 24.0 23.5 24.5 26.0	26.0 24.5 23.0 23.5 23.0	24.5 21.5 20.5 21.5 22.0 20.5 22.0	25.0 22.5 21.5 22.5 22.5 21.5 21.5
1 2 3 4 5	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0	16.0 16.0 17.5 18.0 19.0 20.0 20.5	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5	JULY 24.0 21.0 19.5 21.0 21.5 20.5 19.5 21.5	25.0 23.5 21.0 22.0 22.0 21.5 21.0 21.5	23.0 24.5 25.0 24.5 24.5 24.5 26.5 28.0 28.5	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0	26.0 24.5 23.0 23.5 23.0	24.5 21.5 20.5 21.5 22.0 20.5 20.5 21.5	25.0 22.5 21.5 22.5 22.5 21.5 21.5 22.5
1 2 3 4 5 6 7 8 9	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0 17.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 22.0 24.0	JULY 24.0 21.0 19.5 21.0 21.5 20.5 19.5 21.5 21.0	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0	23.0 24.5 25.0 24.5 24.5 26.5 28.0 28.5	20.5 22.0 23.0 23.0 22.5 23.5 25.0	22.0 23.0 24.0 24.0 23.5 24.5 26.0	26.0 24.5 23.0 23.5 23.0	24.5 21.5 20.5 21.5 22.0 20.5 20.5 20.5 21.5 23.0	25.0 22.5 21.5 22.5 22.5 21.5 21.5
1 2 3 4 5 6 7 8 9	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.0 24.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 21.5 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.0 21.5 22.0	23.0 24.5 25.0 24.5 24.5 26.5 28.0 28.5 29.0	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 27.0 28.0	26.0 24.5 23.0 23.5 23.0 22.5 22.5 23.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 22.0 20.5 21.5 23.0 23.5	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 22.5
1 2 3 4 5 6 7 8 9 10	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 18.0 17.5 17.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5	JULY 24.0 21.0 19.5 21.0 21.5 20.5 19.5 21.0 22.5 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5	23.0 24.5 25.0 24.5 24.5 28.5 28.0 29.0 29.0	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 27.0 28.0	26.0 24.5 23.0 23.5 23.0 22.5 22.5 24.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5	25.0 22.5 21.5 22.5 22.5 21.5 22.5 21.5 22.5 23.5 24.0
1 2 3 4 5 6 7 8 9 10	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0 17.5 17.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.5 21.5 23.5	23.0 24.5 25.0 24.5 24.5 26.5 28.0 28.5 29.0 27.0 25.0	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 28.0 26.0 24.5	26.0 24.5 23.0 23.5 23.0 22.5 22.5 23.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 22.0 20.5 21.5 23.0 23.5	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 22.5
1 2 3 4 5 6 7 8 9 10	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 25.0 26.5 27.0	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 18.0 17.5 17.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 29.0 27.0 26.0 26.0	20.5 22.0 23.0 23.0 22.5 25.0 26.0 25.5 26.5 24.5 24.5 24.5 23.5	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 23.0 22.0 22.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 22.5 23.0 23.5 22.5 21.5 23.0 23.5	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5
1 2 3 4 5 6 7 8 9 10	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0 17.5 18.5 20.0 21.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 21.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.0 24.5	JULY 24.0 21.0 21.5 21.5 21.5 22.5 21.5 21.0 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5 23.5 23.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 25.0 26.0	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5 24.5 24.5 24.0 23.5	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5	26.0 24.5 23.0 23.5 23.0 22.5 22.5 24.5 24.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 23.0 23.5 23.0 23.5 21.0 20.5	25.0 22.5 21.5 22.5 22.5 22.5 22.5 22.5 22.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 25.0 26.5 27.0 26.0 25.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 12.5 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0 21.0 23.0 24.0 23.5 23.5	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.5 25.0 23.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 21.0 22.5 22.5 21.0 20.0 20.0	25.0 23.5 21.0 22.0 22.0 21.5 21.0 23.5 23.5 22.0 21.5 21.0 21.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 26.0 26.0 25.5	20.5 22.0 23.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5 24.5 24.0 23.5 23.0 23.0	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.0 24.0	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 23.0 22.0 22.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 22.5 23.0 23.5 22.5 21.5 23.0 23.5	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 25.0 26.5 27.0 25.5	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 23.5 22.5	JULY 24.0 21.0 19.5 21.0 21.5 20.5 19.5 21.0 22.5 21.0 22.5 21.0 20.0	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5 23.5 22.0 21.5 22.0	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 29.0 27.0 26.0 26.0	20.5 22.0 23.0 22.5 23.5 25.0 26.0 25.5 24.5 24.0 23.5 23.0 23.0 23.0	22.0 23.0 24.0 24.0 23.5 26.0 27.0 28.0 26.0 24.5 24.5 24.5 24.0 24.0	26.0 24.5 23.0 23.5 23.0 22.5 24.5 24.5 24.5 24.5 23.0 22.0 22.5 19.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5 21.0 20.5 21.7 23.5	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 21.0 21.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 25.0 26.5 27.0 25.5 24.0 23.0 22.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0 12.5 12.5 22.5 22.5 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0 21.0 23.0 24.0 23.5 23.5 23.5	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.5 25.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 21.5 21.0 22.5 22.5 21.0 20.0 20.0 21.0 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.0 23.5 23.5 22.0 21.5 21.0 21.0 21.0 21.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 26.0 26.0 25.5 25.5 25.5	20.5 22.0 23.0 22.5 23.5 25.0 26.0 25.5 24.5 24.0 23.5 23.0 23.0 23.0	22.0 23.0 24.0 24.0 23.5 24.5 26.0 27.0 28.0 26.0 24.5 24.5 24.0 23.5	26.0 24.5 23.0 23.5 23.0 22.5 22.5 24.5 24.5 24.5 21.0 22.0 22.5 19.5 19.0	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.0 20.5 21.5 23.0 23.5 21.0 20.5 18.5 17.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 27.0 26.0 25.5 24.0 23.0 22.5 24.0	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5 23.5 22.5 22.0 23.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.0 22.5 21.0 20.0 20.0 20.0 21.0 22.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.0 23.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 23.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 25.0 26.0 25.5 25.5 25.5	20.5 22.0 23.0 23.0 22.5 25.5 25.0 26.0 25.5 26.5 24.5 24.0 23.5 23.0 23.0 23.0	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 29.0 22.5 19.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 21.5 23.0 23.5 22.5 21.5 21.5 23.0 23.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 25.0 26.5 27.0 25.5 24.0 23.0 22.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 18.0 12.5 12.5 22.5 22.5 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 20.0 21.0 23.0 24.0 23.5 23.5 23.5	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.5 25.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 21.5 21.0 22.5 22.5 21.0 20.0 20.0 21.0 22.5	25.0 23.5 21.0 22.0 22.0 21.5 21.0 23.5 23.5 22.0 21.5 21.0 21.0 21.0 21.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 26.0 26.0 25.5 25.5 25.5	20.5 22.0 23.0 22.5 23.5 25.0 26.0 25.5 24.5 24.0 23.5 23.0 23.0 23.0	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.0 22.5 22.5 24.5 24.5 24.5 22.0 22.0 22.5 19.5 19.0 19.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.5 22.5 23.0 23.5 21.0 20.5 18.5 17.0 16.5 17.0 17.5 19.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 27.0 26.0 25.5 24.0 22.5 24.0 22.0 24.0	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.5 22.0 21.5 22.0	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 22.5 22.5 22.5 22.5 22.5 22.5 22	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.0 22.5 21.0 20.0 20.0 20.0 21.0 22.5 22.5 21.0 20.0	25.0 23.5 21.0 22.0 22.0 21.5 21.0 23.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 25.0 26.0 26.0 25.5 25.5 25.5 25.5	20.5 22.0 23.0 22.5 25.5 25.0 26.0 25.5 26.5 24.5 24.0 23.5 23.0 23.0 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 29.0 22.5 19.5 19.0 18.5 19.0 19.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.0 20.5 21.5 23.0 23.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 27.0 26.5 27.0 26.0 25.5 24.0 22.5 24.0 22.5 24.0 22.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 22.0 21.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5 22.5 22.5 22.0 24.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.0 21.5 20.5 19.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5 21.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0	23.0 24.5 25.0 24.5 24.5 28.5 28.0 29.0 27.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 25.5	20.5 22.0 23.0 22.5 25.0 26.0 25.5 26.5 24.5 24.0 23.5 23.0 23.5 23.0 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 23.5 24.5	26.0 24.5 23.0 23.5 23.0 22.5 24.5 24.5 24.5 24.5 19.0 18.5 19.0 18.5 19.0	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5 21.0 20.5 21.7 23.0 20.5 21.0 20.5 21.0 20.5 21.0 21.0 20.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.5 27.0 25.5 24.0 22.5 24.0 22.5 24.0 25.5 24.0	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 22.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.5 20.0 21.0 23.0 24.0 23.5 23.5 22.5 22.5 22.0 23.0 24.0 23.0	26.0 25.5 23.0 23.0 23.0 22.5	JULY 24.0 21.0 21.5 21.5 20.5 19.5 21.5 22.5 21.0 20.0 20.0 20.0 21.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 21.5 21.5 22.0 23.5 23.5 21.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 26.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 24.5	20.5 22.0 23.0 22.5 23.5 25.0 26.0 25.5 26.5 24.0 23.5 23.0 23.5 23.0 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 29.0 22.5 19.5 19.0 18.5 19.0 19.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.0 20.5 21.5 23.0 23.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 23.5 27.0 26.5 27.0 26.0 25.5 24.0 22.5 24.0 22.5 24.0 22.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.5 22.5 22.0 21.5 22.0 21.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5 22.5 22.5 22.0 24.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.0 23.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.0 21.5 20.5 19.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22	25.0 23.5 21.0 22.0 22.0 21.5 21.5 22.0 23.5 21.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0	23.0 24.5 25.0 24.5 24.5 28.5 28.0 29.0 27.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 25.5	20.5 22.0 23.0 22.5 25.0 26.0 25.5 26.5 24.5 24.0 23.5 23.0 23.5 23.0 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 23.5 23.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 22.5 24.5 24.5 24.5 22.0 22.0 22.5 19.5 19.0 19.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.0 20.5 21.5 23.0 23.5 21.0 20.5 18.5 17.0 16.5 17.0 17.5 19.0 20.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 20.5 17.5 18.0 19.0 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.5 27.0 26.5 24.0 22.5 24.0 22.5 24.0 25.5 24.5 24.5 24.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 22.0 21.5 22.5 22.5 22.5 22.5 22.0 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5 22.5 22.5 22.0 23.0 24.0 23.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.5 25.0 23.5 22.5 22.0 24.0 23.5 22.5 22.5 22.0 24.5 23.5 22.5 22.5 22.7 23.5 24.0 24.0 25.0 24.0 25.0 26.0 27.0	JULY 24.0 21.0 21.0 21.5 20.5 19.5 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22	25.0 23.5 21.0 22.0 21.5 21.5 22.0 23.5 21.0 21.5 22.0 23.5 21.0 21.5 22.0 23.5 21.0 21.5 22.0 23.5 21.0 23.5 21.0 21.5 22.0 23.5 21.0 23.5 21.0 23.5 23.5 23.0 23.5 23.0 23.5 23.0 23.5 23.0 23.0 23.5 23.0	23.0 24.5 25.0 24.5 24.5 28.0 28.5 29.0 27.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 23.5 25.0 26.5 24.5 24.0 23.5 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 23.5 23.5 24.5 23.5 23.5 23.5 23.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 29.5 19.5 19.0 19.5 21.5 22.0 22.0 21.0 21.0	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.0 20.5 21.0 23.5 21.0 20.5 18.5 17.0 17.5 19.0 20.5 19.5 20.5 21.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 22.0 21.0 20.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.0 25.5 24.0 22.5 24.0 22.5 24.0 26.0 24.0 25.5 24.5 24.5	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0 21.5 22.0 22.5 22.0 22.0 22.0 22.0 22.0	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.5 22.5 23.0 24.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 22.5 22.5 22.5 22.5 22.5 22.5 22	JULY 24.0 21.0 21.5 21.5 21.5 21.5 21.0 22.5 21.0 20.0 20.0 20.0 21.5 22.5 21.5 22.5 22.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 21.5 21.0 23.5 22.0 23.5 22.0 21.0 22.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5	23.0 24.5 24.5 24.5 24.5 28.0 29.0 27.0 25.0 26.0 26.0 25.5 25.5 25.5 25.5 25.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 25.5 25.0 26.0 25.5 26.5 24.5 24.5 23.0 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 19.0 18.5 18.5 19.0 19.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.5 21.5 23.0 23.5 22.5 21.5 21.5 21.5 23.0 20.5 18.5 17.0 16.5 17.0 19.0 19.0 20.0 20.0 20.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 21.0 21.0 21.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.5 27.0 26.5 24.0 22.5 24.0 22.5 24.0 25.5 24.5 24.5 24.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 22.0 21.5 22.5 22.5 22.5 22.5 22.0 22.5 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 23.5 22.5 22.5 22.0 23.0 24.0 23.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.0 24.5 25.0 23.5 22.5 22.0 24.0 23.5 22.5 22.5 22.0 24.5 23.5 22.5 22.5 22.7 23.5 24.0 24.0 25.0 24.0 25.0 26.0 27.0	JULY 24.0 21.0 21.0 21.5 20.5 19.5 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22	25.0 23.5 21.0 22.0 21.5 21.5 23.5 23.5 21.0 21.5 21.0 21.5 22.0 23.5 21.0 21.5 21.0 21.5 22.0 23.5 21.0 21.5 22.0 23.5 21.0 21.5 22.0 23.5 21.0 21.5 21.5	23.0 24.5 25.0 24.5 24.5 28.0 28.0 28.0 29.0 27.0 26.0 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 23.5 25.0 26.5 24.5 24.0 23.5 23.0 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 23.5 24.5 23.5 23.5 24.5 23.5 23.5 24.5	26.0 24.5 23.0 23.5 23.5 24.5 24.5 24.5 24.5 24.5 29.0 21.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5 21.0 20.5 18.5 17.0 16.5 17.0 17.5 19.0 20.0 20.5 18.5	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.0 25.5 24.0 22.5 24.0 22.5 24.0 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.5 22.0 23.0 24.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 24.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.5 22.5 22.5 21.5 22.5 21.5 22.5 21.5 21	25.0 23.5 21.0 22.0 21.5 21.0 23.5 22.0 23.5 21.0 21.0 22.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5 21.0 21.0 23.5 21.0 21.0 23.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.0 21.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23.0 24.5 24.5 24.5 24.5 28.0 29.0 27.0 25.0 26.0 26.0 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 25.5 25.0 26.0 25.5 26.5 24.5 23.0 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 24.5 23.5 24.5 24.5 23.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 19.0 18.5 19.0 19.5 21.5 22.0 22.5 19.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.5 21.5 23.0 23.5 22.5 21.5 21.5 21.5 23.0 20.5 18.5 17.0 16.5 17.0 19.5 20.0 20.0 20.0 19.5 19.0 20.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 19.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 2	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.0 17.0 19.5 20.0 21.5 21.0 23.5 23.5 23.5 27.0 26.5 27.0 22.5 24.0 22.5 24.0 25.5 24.0 25.5 24.0 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0 22.5 22.0 22.0 22	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.5 22.0 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.0 24.0 23.5 23.0 24.0 23.5 23.0 24.0 23.5	26.0 25.5 23.0 23.0 22.5 22.5 22.5 24.0 24.5 22.5	JULY 24.0 21.0 21.5 21.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 21.5 21.5 22.0 23.5 23.5 22.0 21.5 22.0 23.5 22.0 21.5 22.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.0 23.5 23.5 23.0 23.5 23.5 23.5 23.5 23.0 23.5	23.0 24.5 24.5 24.5 24.5 28.0 29.0 27.0 26.0 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 25.0 26.0 25.5 26.5 24.5 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 24.5 24.5 24.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 24.0 23.5	26.0 24.5 23.0 23.5 23.5 24.5 24.5 24.5 24.5 29.0 22.5 19.5 19.0 18.5 18.5 19.0 21.0 21.0 21.0 21.5 21.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5 21.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	25.0 22.5 21.5 22.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.0 17.0 19.5 20.0 21.5 21.0 23.5 24.5 23.5 27.0 26.0 25.5 24.0 22.5 24.0 22.5 24.0 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JUNE 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.0 22.5	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.5 22.0 23.0 24.0 23.0 24.0	26.0 25.5 23.0 23.0 23.0 22.5 22.5 22.5 24.0 24.5 25.0 24.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	JULY 24.0 21.0 21.5 21.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.5 22.5 22.5 21.5 22.5 21.5 22.5 21.5 21	25.0 23.5 21.0 22.0 21.5 21.0 23.5 22.0 23.5 21.0 21.0 22.0 23.5 22.0 23.5 22.0 23.5 22.0 23.5 21.0 21.0 23.5 21.0 21.0 23.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.0 21.5 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23.0 24.5 24.5 24.5 24.5 28.0 29.0 27.0 25.0 26.0 26.0 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 25.5 25.0 26.0 25.5 26.5 24.5 23.0 23.0 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 26.0 24.5 24.5 24.5 24.5 24.5 23.5 23.5 24.5 23.5 23.5 24.5 24.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24	26.0 24.5 23.0 23.5 23.5 22.5 24.5 24.5 24.5 24.5 19.0 18.5 18.5 19.0 21.0 21.0 21.0 21.0 21.5	24.5 21.5 20.5 21.5 22.0 20.5 21.5 22.5 21.5 23.0 23.5 22.5 21.5 21.5 21.5 23.0 20.5 18.5 17.0 16.5 16.5 17.0 19.5 20.0 20.0 20.0 19.5 20.0 20.5 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	17.0 17.0 19.5 20.0 21.5 21.0 23.5 23.5 23.5 27.0 26.5 27.0 22.5 24.0 22.5 24.0 25.5 24.0 25.5 24.0 25.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JUNE 15.0 15.0 17.0 16.0 17.0 18.0 18.0 17.5 17.5 20.0 21.5 22.5 22.5 22.5 22.0 22.5 22.0 22.0 22	16.0 16.0 17.5 18.0 19.0 20.0 20.0 20.0 21.0 23.0 24.0 23.5 22.5 22.5 22.5 22.0 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.0 24.0 23.5 23.0 24.0 23.5 23.0 24.0 23.5	26.0 25.5 23.0 23.0 22.5 22.5 22.5 24.0 24.5 22.5	JULY 24.0 21.0 21.5 21.5 21.5 22.5 21.0 22.5 22.5 21.0 20.0 20.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5	25.0 23.5 21.0 22.0 21.5 21.5 22.0 23.5 23.5 22.0 21.5 22.0 23.5 22.0 21.5 22.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.0 23.5 23.5 23.0 23.5 23.5 23.5 23.5 23.0 23.5	23.0 24.5 24.5 24.5 24.5 28.0 29.0 27.0 26.0 25.5 25.5 25.5 25.5 24.5 24.5 24.5 24.5	20.5 22.0 23.0 22.5 25.0 26.0 25.5 26.5 24.5 23.5 23.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	22.0 23.0 24.0 24.0 23.5 26.0 27.0 27.0 28.0 24.5 24.5 24.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 23.5 24.5 24.0 23.5	26.0 24.5 23.0 23.5 23.5 24.5 24.5 24.5 24.5 29.0 22.5 19.5 19.0 18.5 18.5 19.0 21.0 21.0 21.0 21.5 21.5 24.5	24.5 21.5 20.5 21.5 22.0 20.5 22.5 23.0 23.5 22.5 21.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	25.0 22.5 21.5 22.5 22.5 22.5 21.5 22.5 23.5 24.0 23.5 22.0 21.0 20.5 18.0 17.5 18.0 19.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20

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 mi2.

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

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. --Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFL/TRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
NOV													
20 FEB	1040	4.7		.644	.497	759	83	11.0	3.8	69	6.5	3.5	8
07 MAY	1215	28		.645	.493	766	86	11.7	4.1	74	6.0	3.0	7
15 AUG	0930	2.8	2.6	.712	.571	759	85	8.5	5.2	100	20.0	15.0	9
15	1220	1.4	4.3	.275	.220	761	84	7.1	6.6	95	27.0	23.5	10
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L
	AS CA) (00915)	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)
NOV													
20 FEB	1.57	.893	.80	6.6		10.4	<.2	7.4	5.8	57		<.030	.37
07 MAY	1.43	.723	.62	4.0		6.6	<.2	5.1	7.9	54		<.030	.29
15	1.73	1.11	1.17	11.5	3	18.2	<.2	2.9	5.1	78	44	.070	.56
15	1.82	1.28	1.31	13.4	4	20.5	<.2	2.8	6.2	56	50	<.030	.28
	NITRO- GEN,	NITRO- GEN, AM- MONIA +	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE	NITRO- GEN	NITRO-	NITRO- GEN, PAR TICULTE	PHOS-	PHOS-	CARBON, INORG + ORGANIC	CARBON, INOR- GANIC,	CARBON, ORGANIC	CARBON, ORGANIC PARTIC-
	AMMONIA TOTAL	ORGANIC	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	GEN, TOTAL	WAT FLT SUSP	DIS- SOLVED	PHORUS	PARTIC. TOTAL	PARTIC. TOTAL	DIS- SOLVED	ULATE
DATE	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS N)	(MG/L AS P)	(MG/L AS P)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)	(MG/L AS C)
	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)
NOV													
20 FEB	.03	.88	.093	<.003	.46	.97	<.022	.008	.013	.3	<.1	13	.3
07 MAY	<.03	.41	.047	<.003	.33	.46	.039	.009	.012	.6	<.1	13	.6
15 AUG	.13	.62	.065	<.003	. 63	.68	.144	.018	.041	1.4	<.1	12	1.4
15	<.03	.40	.090	<.003	.37	.49	.080	.011	.041	.9	<.1	5.2	.9

	OXYGEN	CHLORO-		RESIDUE	
	DEMAND,	PHYLL A		TOTAL	
	BIO-	FLUORO-	BORON,	AT 105	
	CHEM-	METRIC	DIS-	DEG. C,	
	ICAL,	METHOD	SOLVED	SUS-	
DATE	5 DAY	CORR.	(UG/L	PENDED	
	(MG/L)	(UG/L)	AS B)	(MG/L)	
	(00310)	(32209)	(01020)	(00530)	
NOV					
20	<1.0		E12	<1	
FEB					
07	2.2		19	2	
MAY					
15	E2.0	1.40	20	5	
AUG					
15	<1.0	7.40	25	5	

E Estimated value.

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

DELAWARE RIVER BASIN

01465893 LITTLE CREEK AT CHAIRVILLE, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	1040	700	400	2600	JUL 09 30	1244 1035	20 <20	<100 100	540 390

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

01466100 MOUNT MISERY BROOK AT UPTON, NJ

LOCATION.--Lat 39°55'44", long 74°31'53", Burlington County, Hydrologic Unit 02040202, at bridge on State Route 70, 0.5 mi southwest of Upton, 1.1 mi downstream of confluence of North Branch, Middle Branch, and South Branch Mount Misery Brook, and 4.0 mi northeast of Four Mile Circle.

DRAINAGE AREA. -- 28.4 mi2.

PERIOD OF RECORD .-- December 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
		(02020)	(00011)	(02/20/	(00023)	(00301)	(00500)	(00200)	(00055)	(00020)	(000-0)	(00000)	(00000)
DEC 12	1000		.135	.104	755	87	11.0	4.7	40	4.5	5.0	3	.60
FEB	1000	,55	.135	.104	755	67	11.0	4.7	***	4.5	5.0	,	.00
27	1000		.308	.234	766	85	10.8	4.2	47	6.0	5.5	3	.55
MAY	****		205										40
AUG	1045	1.4	.325	.255	760	84	8.7	4.4	37	14.1	13.5	3	.49
16	1100	1.4	.277	.219	763	78	7.2	4.4	43	27.0	19.5	4	.69
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA	NITRO- GEN,AM- MONIA + ORGANIC
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL	TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	(MG/L	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	(90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	AS N) (00608)	AS N) (00623)	AS N) (00610)	AS N) (00625)
DEC													
12 FEB	.450	.45	1.9	<1	3.4	<.2	5.0	5.8	20	.120	E.08	.04	.13
27	.409	.41	1.8		3.0	<.2	4.3	6.2	24	<.030	.14	.03	.19
MAY 17	.378	.37	1.9	22	3.4	<.2	4.4	4.5	22	<.030	.16	<.03	.19
AUG	.570	.57	1.5		3.4		*.*	4.5			.10		.13
16	.548	.50	2.0		3.1	<.2	6.4	6.2	27	<.030	.17	<.03	.26
	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,	CHLORO- PHYLL A FLUORO- METRIC METHOD
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY	CORR.
	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)	(UG/L) (32209)
	,		17.7.7.7.7		,		,,						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DEC 12	E 020	4 002	- 22		025	T 003	004	-		2 2	-	-1 n	
FEB	E.028	<.003			.025	E.003	.004	.5	<.1	3.3	.5	<1.0	
27 MAY	.048	<.003	.18	.24	.022	E.002	.004	.4	<.1	6.8	.4	E1.6	
AUG	<.037	<.003			.053	.005	.011	.8	<.1	5.4	.8	E1.9	1.30
16	.043	.014	.21	.30	.117	E.002	.011	1.6	<.1	5.2	1.6	<1.0	1.60

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	DEG. C, SUS-
DEC		
12	E10	<1
FEB		-
27	E11	2
17	E10	3
AUG		
16	E11	4

E Estimated value.

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

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

			NITRO- GEN, NH4	NITRO- GEN, NH4	PHOS- PHORUS	CARBON, INORG +	CARBON, INOR-		BARIUM,	BERYL- LIUM,	BORON,	CADMIUM	CHRO-
DATE	TIME	PH SED BED MAT (STD UNITS)	+ ORG. TOT IN BOT MAT (MG/KG AS N)	IN BOT. MAT. (MG/KG AS N)	IN BOT. MAT. (MG/KG AS P)	ORGANIC TOT. IN BOT MAT (GM/KG AS C)	GANIC, TOT IN BOT MAT (G/KG AS C)	ARSENIC TOTAL (UG/L AS AS)	TOTAL RECOV- ERABLE (UG/L AS BA)	TOTAL RECOV- ERABLE (UG/L AS BE)	TOTAL RECOV- ERABLE (UG/L AS B)	WATER UNFLTRD TOTAL (UG/L AS CD)	TOTAL RECOV- ERABLE (UG/L AS CR)
		(70310)	(00626)	(00611)	(00668)	(00693)	(00686)	(01002)	(01007)	(01012)	(01022)	(01027)	(01034)
AUG 16	1100							-0	01.0	0.0	10	0.5	<1
16	1100 1100	4.20	50	<.2	80	2.8	<.2	<2	21.9	.06	10	.06	
DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)
	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)	(01147)	(01077)	(01092)	(01003)	(01028)	(01029)	(01038)
16 16	E.4	780 	1	18	<.01 	<1 	<.4	<.05 	9	<1	<.03	.9	.1
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG													
16	3	1500	3.3	2 5	<.01								
16		1500	3.3	3.5	1.01	.7	<1	<3	<50	<50	<50	<50	<50
DATE	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)	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)
AUG													
16	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG)	NAPTHAL ENE, 236 TRIMETH SED, BM WS, <2MM DW, REC (UG/KG)	NAPTHAL ENE, 26 DIMETHL SED, BM WS, <2MM DW, REC (UG/KG)	NAPTHAL ENE, 2- ETHYL- SED EM WS <2MM DW REC (UG/KG)	NAPHTH- ALENE, SED, BM WS,<2MM DW, REC (UG/KG)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	P- CRESOL SED, BM WS,<2MM DW, REC (UG/KG)	PHENAN THRENE 1METHYL, SED, BM WS,<2MM DW, REC (UG/KG)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG)	PHENAN- THRI- DINE SED, BM WS,<2MM DW, REC (UG/KG)	PYRENE, 1- METHYL, SED, BM WS,<2MM DW, REC (UG/KG)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG)	BED MAT. SIEVE DIAM. % FINER THAN
	(49404)		(49406)		(49402)	(39519)		(49410)	(49409)	(49393)	(49388)	(49387)	(80164)
AUG													
16 16	<50	<50	<50	<50	<50	< 5	< 50	<50	<50	<50	<50	<50	<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- ETHLE- 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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB	3885	121111								A. W.	1		
27	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20

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

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	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, UNFL/TRD 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)
FEB 27	<.10	<.2	.11	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA	ATE	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)		
	FEE 2	3 27	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITRD 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)
MAY 17	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 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)
MAY 17	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 1	7	<.011	<.016	<.034	<.005	<.009				

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

DELAWARE RIVER BASIN

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	1015	1700	1700	290	JUL 09 30	1150 1010	20 <20	<100 <100	20 40

< 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, 25 ft upstream from Butterworth Road Bridge in Lebanon State Forest, 3.4 mi upstream from confluence with Cooper Branch, and 7.0 mi southeast of Browns Mills.

DRAINAGE AREA. -- 2.35 mi2.

PERIOD OF RECORD. -- Water years 1963-96, 1998 to current year.

PERTOD OF DATLY 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 ft³/s less than published in Water-Data Report NJ-01-1. 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

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

DAT	E	TIME	SAME		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)
NOV														
30 MAR	•••	1045	ENVIRON	ENTAL	1.3		.167	.124	758	38	4.5	4.2	52	8.0
		1045	ENVIRON	MENTAL	2.2		.402	.298	758	61	8.0	4.1	63	2.0
24		1045	ENVIRON	MENTAL	1.9	.3	.390	.296	758	30	3.1	4.1	49	22.0
AUG 07	·	0945	FIELD BI	ANK										
	• • •	1045	ENVIRON		.92	.3	.126	.099	757	29	2.8	4.5	30	32.0
DAT	E	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)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV		8.0	4	.55	.603	.25	2.1		3.4	<.2	4.6	6.5	15	<.030
MAR							2.1		3.4	1.2				3 10 2 2 3
01 MAY	•••	3.5	3	.59	.472	.22	1.8		3.1	<.2	3.6	7.2	25	<.030
AUG		13.0	3	.45	.381	.11	1.8		3.3	<.2	3.8	3.9	36	<.030
07				<.01	<.008		<.1				<.1			
07	•••	15.5	2	.28	.302	.23	1.8	<1	3.4	<.2	4.8	3.2	11	.030
DAT	E	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS P)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
		(00623)	(00610)	(00625)	(00631)	(00613)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV				- 1	3-225	200	1. 220	1000	5 226			1		
MAR		.11	<.03	.14	<.037	<.003	<.022	<.004	<.004	.2	<.1	4.7	. 2	<1.0
01 MAY	•••	.15	<.03	.17	<.037	<.003	<.022	<.004	E.002	.2	<.1	9.4	. 2	<1.0
AUG	•••	.18	<.03	.14	E.019	<.003	.025	<.004	<.004	.2	<.1	8.7	.2	<1.0
		<.10		<.08	<.037			<.004	<.004					77
07	• • •	E.06	.06	.09	<.037	<.003	<.022	E.002	<.004	.2	<.1	2.5	.2	E1.6

E Estimated value

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

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

DATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV					
30		E13			<1
MAR					
01		<13			8
MAY					
24	.300	E10			1
AUG					
07		<7	<10	<.1	
07	.100	<13			1

DATE	TIME	S A MP TYP		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)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)
AUG													
07	0945 1045	FIELD BI								<1	<.05	<.2	<2
07	1045	BED MATE		5.48	140	.6	60	5.5	<.2				
DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLITED TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	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)
AUG	100		7.52			4.55				100	1.0		7.0
07	<1.0	7.6	<.06	<.06	8	<.04	E.03	<.8	<1	<.02	<.2	<.6	<10
07		7.0					E.03						
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)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	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)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
AUG					- 4		7.45			0.25			
07 07	120	<.08	<1	<.3	<.1	5	<.01	<.01	<.2	<.06	<1	<.3	<.4
07													
DATE	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	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)	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, SEDIMT, BED MA- TERIAL AS FE) (01170)
AUG													
07	<1.0		<.08	<.04	<.2	<1							
07		<.05					4						
07								<1	<.03	2.3	.1	<.334	580

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

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G	NICKEL, RECOV. FM BOT- TOM MA- TERIAL (UG/G	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC	9H-FLU- ORENE, 1METHYL SED, BM WS,<2MM DW, REC	9H-FLU- ORENE SED, BM WS,<2MM DW, REC	ACENAPH THENE SED, BM WS,<2MM DW, REC	ACENAPH THYLENE SED, BM WS,<2MM DW, REC	ANTHRA- CENE, 2- METHYL- SED, BM WS, <2MM DW, REC	ANTHRA- CENE SED, BM WS,<2MM DW, REC
	AS PB) (01052)	(UG/G) (01053)	AS HG) (71921)	AS NI) (01068)	(UG/G) (01148)	AS ZN) (01093)	(UG/KG) (49411)	(UG/KG) (49398)	(UG/KG) (49399)	(UG/KG) (49429)	(UG/KG) (49428)	(UG/KG) (49435)	(UG/KG) (49434)
AUG													
07	==			22	22			===	22				
07	3.1	6.3	.08	.5	<1	<3	<50	<50	<50	<50	<50	<50	<50
DATE	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)	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, EM 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)
AUG 07													
07	- 55												
07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
DATE	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	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)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	
AUG											- 00		
07					25						<.02		
07	<50	<50	<50	<5	<50	<50	E30	<50	<50	<50		52	
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 UNFILTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFILTED REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
MAR 01	1045	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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, UNFLITED 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	. 10					6.2	1602		44	1.12			
01	<.10	<.2	.20	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
	DA		METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLITED 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 0	1	<.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 with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

						00.00		2422					
DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITD 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)
MAY 24	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY 24	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	.006	<.007	<.003	<.010	<.015
			D.	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY	4	<.011	<.016	<.034	E.002	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	1000	140	100	20	JUL 09 30	1132 0955	<20 <20	<100 <100	10 <10

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

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ

LOCATION.--Lat 39°57'22", long 74°37'41", Burlington County, Hydrologic Unit 02040202, at bridge on Four Mile Road (County Route 646) 0.1 mi south of New Lisbon, 0.5 mi upstream from mouth, and 3.1 mi east of Pemberton.

DRAINAGE AREA . -- 77.9 mi2.

PERIOD OF RECORD. -- December 2000 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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-OUALI	ATTA VT	WATED	VEND	CONCEPT	2000	TO	CEDMEMBED	2001
MATER-CONTT	II DATA,	WATER	ILAK	OCTOBER	2000	10	SEPTEMBER	2001

		DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH				
		CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-			HARD-
		INST.	ITY	ANCE	ANCE	PRES-	SOLVED		WHOLE	CIFIC			NESS
		CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-	TEMPER-	TEMPER-	TOTAL
		FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-	ATURE	ATURE	(MG/L
DATE	TIME	PER	UNFLIRD	(UNITS	(UNITS	OF	SATUR-	SOLVED	ARD	ANCE	AIR	WATER	AS
		SECOND	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)	(DEG C)	(DEG C)	CACO3)
		(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)	(00020)	(00010)	(00900)
		32.22.00	177777	,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	,	772171	
DEC	64:4	24		1.750					4.4	24	42.3	4.5	4.5
14	0800	68		.226	.176	760	80	10.4	4.6	48	4.5	4.0	5
MAR													
07	0800	121		.361	.278	750	78	10.4	4.2	58	3.5	3.0	4
MAY													
31	0800	73	4.1	.517	.412	759	75	7.5	4.4	45	12.0	15.1	4
AUG					2.22		2.3	-	100				
15	0800	75	7.8	.376	.299	759	82	7.1	4.7	55	19.0	22.0	6
					ANC					SOLIDS,	NITRO-	NITRO-	
		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	GEN,	GEN, AM-	NITRO-
	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	AMMONIA	MONIA +	GEN,
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	DIS-	ORGANIC	AMMONIA
	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED	(MG/L	(MG/L	(MG/L
D11.12	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	AS N)	AS N)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(00608)	(00623)	(00610)
		20010.000		1120.231			707			2013000	1577237	dentification of	411
DEC	3-12	2.2.2.	124	10.00					1.5	300		5.5	
14	1.02	.590	. 84	3.4	<1	5.3	<.2	5.5	7.3	31	.050	.15	.04
MAR													
07	.93	.520	.58	3.4		5.1	<.2	3.7	6.8	27	<.030	.17	.05
MAY													
31	.93	.521	.77	3.9		6.2	<.2	4.5	5.1	37	.030	.18	.03
AUG							11.2						
15	1.17	.638	.79	4.3		6.5	<.2	5.1	8.6	31	<.030	.17	.09
	NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,		CARBON,	OXYGEN
	GEN, AM-	GEN,	GEN,	NITRO-		GEN, PAR	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	MONIA +	NO2+NO3	NITRITE	GEN	NITRO-	TICULTE	PHORUS	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	ORGANIC	DIS-	DIS-	DIS-	GEN,	WAT FLT	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
DALL	AS N)	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)	(00666)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
14	.17	.076	<.003	.22	.25	.054	.007	.015	.5	<.1	4.5	.5	E2.0
MAR	/	.070	1.003	.22	.25	.054	.007	.015	.5		4.5		52.0
07	.22	.048	<.003	.22	. 27	. 000	.011	.023	.5	<.1	7.5	.5	E2.2
MAY	.44	.048	<.003	.44	.21	<.022	.011	.023	.5	<.1	7.5	.5	E4.4
31	20	040	<.003	22	42	105	011	051	2 6		7.2	26	E1.6
AUG	.38	.049	<.003	.23	.43	.125	.011	.051	2.6	<.1	1.2	2.6	EI.0
15	.42	.050	<.003	.22	.47	.224	.004	.071	4.5	<.1	5.3	4.5	E1.4
1777		2.77			2.50	7.5		NEW T	515	12.0		100	477

CHLORO-		RESIDUE
PHYLL A		TOTAL
FLUORO-	BORON,	AT 105
METRIC	DIS-	DEG. C,
METHOD	SOLVED	SUS-
CORR.	(UG/L	PENDED
(UG/L)	AS B)	(MG/L)
(32209)	(01020)	(00530)
	E12	2
	<13	<1
1.60	E7	2
11.0	E12	11
	PHYLL A FILIORO- METRIC METHOD CORR. (UG/L) (32209)	PHYLL A FLUORO- METRIC METHOD SOLVED CORR. (UG/L (UG/L) AS B) (32209) (01020) E12 <13 1.60 E7

E Estimated value.

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

DELAWARE RIVER BASIN

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	0925	2400	1300	250	JUL 09 30	1210 0930	20 <20	<100 <100	<10 10

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

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 mi2.

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, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 19.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS
		SECOND (00061)	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)
DEC													
11 MAR	1230	121				764	95	12.6	6.6	153	6.5	3.5	32
08 MAY	1200	280	2-7	.284	.220	762	99	12.8	6.2	110	8.0	4.5	21
22 AUG	1240	153	20	.393	.314	755	89	8.7	6.6	145	21.0	16.0	29
15	0950	124	13	.299	.238	761	91	7.7	6.8	102	27.0	23.5	22
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN, AM- MONIA +
	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	DIS- SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	DIS- SOLVED	ORGANIC DIS.
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)
DEC													
11 MAR	10.1	1.59	2.48	11.0	6	13.6	<.2	8.0	29.9	92	82	.430	. 67
08 MAY	6.06	1.45	1.32	9.6	5	14.1	<.2	5.3	16.3	72	59	.210	.36
22 AUG	8.96	1.55	1.80	12.2	6	14.3	E.1	5.4	28.2	102	78	.420	.68
15	6.64	1.35	1.91	8.3	7	12.4	<.2	5.4	15.1	66	56	.130	.45
	NITRO-	NITRO- GEN, AM-	NITRO- GEN,	NITRO- GEN,	NITRO-		NITRO- GEN, PAR	PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC
	GEN, AMMONIA TOTAL	MONIA + ORGANIC TOTAL	NO2+NO3 DIS- SOLVED	NITRITE DIS- SOLVED	GEN DIS- SOLVED	NITRO- GEN, TOTAL	TICULTE WAT FLT SUSP	PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	ORGANIC PARTIC. TOTAL	GANIC, PARTIC. TOTAL	ORGANIC DIS- SOLVED	PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
DEC													
11 MAR	.49	.69	.226	.004	.90	.92	.050	.076	.192	.7	<.1	4.5	.7
08 MAY	.22	.40	.346	<.003	.71	.75	.097	.027	.070	.7	<.1	6.1	.7
22 AUG	.46	.98	. 257	.011	.93	1.2	.359	.016	.243	4.7	<.1	6.5	4.7
15	.16	.60	.233	.010	.68	.83	.202	.020	.149	2.7	<.1	5.2	2.7

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
DEC				
11	3.4		24	<1
MAR				
08	E1.7		18	4
MAY				
22	3.1	3.70	23	20
AUG				
15	E1.5	7.00	29	10

E Estimated value.

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

DELAWARE RIVER BASIN

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL 02	1105	700	600	400	JUL 09 30	1303 1100	700 340	200 500	280 190

443

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 mi2.

PERIOD OF RECORD .-- Water years 1968-79, 1991 to current year.

PERIOD OF DAILY RECORD . --

SUSPENDED-SEDIMENT DISCHARGE: March 1968 to September 1969.

WATER TEMPERATURE: March 1968 to August 1969, recorded once daily; October 1998 to September 2001, recorded hourly.

INSTRUMENTATION . --

WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 or 30 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". Fish community data for this and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

COOPERATION.--Field data and samples for laboratory analyses on 11/16, 02/08, 05/09, and 08/02 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. Coli, and enterococcus bacteria on those dates was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory. Other field data and samples for laboratory analyses 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.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum, 34.0°C, July 6, 1999; minimum, 0.0°C, on several days during January 2000.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURE: Maximum, 31.0°C, Aug. 9, 10; minimum, 0.5°C, on several days in December and January.

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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												
02	1419	FIELD BLANK				22						
02	1420	ENVIRONMENTAL	14	31			764	125	11.9	7.0	209	22.5
NOV												
06	1210	ENVIRONMENTAL	9.3	28			764	97	11.0	7.2	225	12.0
16	1000	ENVIRONMENTAL	16		.178	.142	762	83	10.1	6.7	191	
DEC												
19	1330	ENVIRONMENTAL	32	51			760	99	12.9	7.0	152	5.5
FEB												
01	1200	ENVIRONMENTAL	21	30			763	114	14.7	7.0	389	10.5
05	1220	ENVIRONMENTAL	240	110			755	106	14.0	7.0	287	.5
08	1000	ENVIRONMENTAL	27		.235	.189	778	87	11.9	6.5	586	
MAR										202		
08	1430	ENVIRONMENTAL	19	24			760	108	13.5	7.2	565	8.0
21	1920	ENVIRONMENTAL	491	200			753	92	11.0	6.9	177	8.5
APR	2.75		12.2				Cas.	22				100
03	1020	ENVIRONMENTAL	21	31			766	88	10.5	7.0	240	9.5
MAY	2222		0.0				1000	350	100	2.2		
01	1200	ENVIRONMENTAL	12		77.		768	103	10.0	6.9	263	27.5
09	1000	ENVIRONMENTAL	10	32	.121	.095	768	79	7.9	6.9	267	16.0
JUN											225	25.0
05	1310	ENVIRONMENTAL	16	24			760	99	8.9	7.0	225	25.0
JUL	1200								- 1		129	29.5
05	1320	ENVIRONMENTAL	52	46			756	90	7.4	6.9	129	29.5
AUG	1000	ENVIRONMENTAL	6 -	43	007	077	770	60	6.0	6.9	246	21.0
02	1120	ENVIRONMENTAL	6.5 6.5	43 29	.097	.077	770	69 94	7.4	7.0	236	33.5
09	1120	ENVIRONMENTAL	0.5	29			764	94	7.4	7.0	230	33.3

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

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)	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)
OCT													
02 02 NOV	17.6	57	<.02 15.9	<.014 4.18	<.24 3.26	<.1 11.7		28	34	<.3 23.0	<.1 .1	<.1 10.9	<.3 23.8
06	9.8	63	17.3	4.86	4.19	13.9		31	38	28.2	.3	13.2	23.8
16	7.0	56	15.5	4.16	4.32	12.1	33			22.5	.2	11.5	20.4
DEC19	4.4	43	12.1	3.07	2.83	8.6			-	15.7	E.1	7.0	18.8
FEB 01	4.6	57	16.3	3.91	3.36	43.3		26	31	77.2	E.1	8.1	23.7
05	3.4	37	10.5	2.52	2.35	35.3		17	20	58.3	E.1	4.7	15.3
08	3.0	65	18.8	4.34	3.72	85.1	25			150	E.1	8.3	23.7
MAR 08	5.8	68	19.5	4.74	3.42	76.4		24	30	136	E.2	9.2	27.3
21 APR	7.3	26	7.37	1.82	1.92	21.5		16	20	34.6	E.1	2.8	10.6
03 MAY	7.8	56	15.4	4.20	2.92	21.7		28	34	39.2	E.1	8.7	25.2
01	17.3	64	17.5	4.93	3.43	20.4		32	39	39.1	.2	8.8	26.5
09 JUN	16.0	68	18.6	5.17	4.26	22.1	32			40.4	. 2	10.9	26.9
05	20.4	60	16.8	4.48	3.83	16.0		32	39	28.9	.2	11.2	20.5
05 AUG	24.9	35	9.89	2.42	3.03	8.5		19	24	14.0	E.1	5.2	12.6
02	22.5	63	16.9	5.11	4.57	15.6	29		. 77	33.1	.2	14.3	26.5
09	28.1	65	17.5	5.24	4.76	14.6		32	39	30.1	.2	13.7	26.1
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT													
02 02 NOV	<10 129	112	<.020 .214	<.10 .45		<.10 .63	<.050 .347	<.010 <.010	.80	.97		<.006 .023	<.010 .018
06	125	125	.076	<.10		.36	.143	E.004		.51		E.005	<.018
16	124	111	<.030	.34	<.03	.44	.122	.003	.46	.56	.166	.037	
DEC 19	99	84	.097	.39		.55	.339	E.005	.73	.89		.038	.027
FEB 01	209	194	.178	.67		.59	.374	.007	1.0	.97	.150	.015	E.011
05	162	141	.181	.38		.72	.422	.014	.81	1.1		.014	<.018
08 MAR	335	311	.130	.32	.16	.47	.425	.004	.75	.89	.149	.027	
08	304	294	.114	.27		.42	.342	E.004	.61	.76	.133	.006	<.018
21 APR	102	95	.190	.55		1.5	.917	.009	1.5	2.4	1.0	.029	.021
03 MAY	148	137	.174	.41	-	.53	.413	.007	.82	.95	<.022	.023	.019
01	159 170	141 149	E.021	.30	.09	.54	.135	E.005	.58	.68	.312	.020	<.018
JUN 05	134	124	.267	.52		.71	.334	.009	.85	1.0	.222	.027	.019
JUL 05	88	69	.094	.48		.86	.403	.016	.88	1.3	.614	.030	<.020
AUG	-												
02	154	135	.220	.45	.23	.76	.290	.013	.74	1.0	.284	.019	

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

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT													
02	<.008				22		44	<16	<10	<2.2		122	1
02	.256			3.4	.9			40	470	66.6		.53	14
NOV					2.5			2.5					
06	.137			2.4	.8			48	60	106		.22	9
16	.194	1.5	<.1	4.6	1.5	3.4		31			14		
DEC													
19	.170			5.7	1.3			28	900	67.5		1.8	21
FEB													
01	.150	2.0		3.7				21	660	89.2		.77	14
05	.324			3.4				16	160	57.6		35	53
08	.123	1.8	<.1	4.6	1.8	E1.8		25			3		
MAR													
08	.139	1.5	<.1	3.0	1.5			26	610	94.8		.56	11
21	.883	13	.1	4.0	13			20	230	39.0		211	160
APR													
03	.175	.2	<.1	4.2	.1			32	740	87.3		.98	17
MAY													
01	.164	2.5	<.1	3.3	2.5			44	350	83.7		. 57	18
09	.234	2.3	<.1	3.5	2.3	2.3	24.0	44			13		
JUN													
05	.240	2.5	<.1	4.3	2.5			36	680	87.3		.61	14
JUL													
05	.281	E3.2	<.1	5.0	E3.4			29	320	51.8		8.6	61
AUG													
02	.287	2.4	<.1	2.9	2.4	E1.3	30.6	47			26		
09	.212	2.2	<.1	3.3	2.1			51	90	104		.23	13

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 analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI		BENZENE 1,3-DI- CHLORO- WATER UNFL/TRD 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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 02	1420	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	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- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT 02	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
DATE	TET	TRD WAT OVER RE	RT- FYL METE HER CHI UNF RII EC TOT (L) (UG/	O- CHI DE RII CAL TOTA (L) (UG/	E XYLE O- WAT DE UNFI L RE (L) (UC	EA CHLC ENE TOLK TER WAS LTRD WHO EC TO	DRO- CO JENE XYL TER WA DLE WH TAL TO /L) (UG	ENE TOLI TER WA OLE WH TAL RE	PYL- TETMUENE CHIA TER ETHMOLE ENM C TOM /L) (UG.	ORO- YL- E TOLU FAL TO: /L) (UG/	TAL TOT	ORO- CHLO TL- FLUC NE METE TAL TOT G/L) (UG/	DRO- DRO- HANE TAL (L)
ОСТ 02	<2		٠.	2 <.	2 <.0	06 <.0	03 <.	04 <.	07 <	.1 <.0	05 <.0	04 <.0	09

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
OCT													
02 FEB	1420	<.004	<.002	<.005	E.002	<.010	E.066	<.020	E.004	<.018	<.003	<.006	.061
01	1200	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
05	1220	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
MAR					1000	100000	100						
21 APR	1920	<.004	<.002	<.005	E.003	E.007	E.054	<.020	<.005	<.018	<.003	<.006	.067
03	1020	<.004	<.002	<.005	E.002	<.010	E.008	<.020	<.005	<.018	<.003	<.006	.005
MAY			23.53	10.522			7		100,000		2.5		0.4.4.4.
01	1200	<.004	<.002	<.005	E.004	<.010	E.036	<.020	<.005	<.018	<.003	<.006	.011
JUN													
05 JUL	1310	<.004	<.002	<.005	.010	<.010	E.042	<.020	E.003	<.018	<.003	E.004	.095
05	1320	<.004	.011	<.005	.041	<.010	E.528	<.020	E.004	<.018	<.003	<.006	.470
AUG													
09	1120	<.004	<.002	<.005	E.006	<.010	E.148	<.020	<.005	<.018	<.003	<.006	.053

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

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLIRD 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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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													
02	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.012
FEB							20122						
01	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
05	<.005	<.002	<.004	<.035	E.026	<.050	<.013	<.006	<.002	<.007	<.003	<.010	.019
MAR													
21	<.005	<.010	<.004	<.035	<.027	<.050	<.013	<.006	<.010	<.007	<.003	.084	.041
APR													
03 MAY	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	.017	E.007
01	<.005	<.002	<.004	<.035	E.013	<.050	E.005	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
05	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	.010	.016
JUL													
05	<.005	<.002	<.004	<.035	E.015	<.050	.050	<.006	<.002	<.007	<.003	.020	.049
AUG													
09	<.005	<.002	<.004	<.035	<.027	<.050	E.001	<.006	<.002	<.007	<.003	<.010	.028

DATE	WATER, DISS, REC (UG/L)	WATER FLTRD	0.7 U GF, REC (UG/L)	WATER FLTRD 0.7 U GF, REC (UG/L)	ALIN WAT FLT 0.7 U GF, REC (UG/L)
OCT					
02	<.011	E.007	<.034	<.005	<.009
FEB					
01	<.011	<.016	<.034	<.005	<.009
05	<.011	<.016	<.034	<.005	<.009
MAR					
21	.015	<.016	<.034	<.005	.009
APR	-202		10.00		
03 MAY	.018	<.016	<.034	<.005	<.009
01	<.011	<.016	<.034	<.005	<.009
JUN					
05	E.005	E.005	<.034	<.005	E.003
JUL	200				
05	.299	<.016	<.034	<.005	<.009
09	.021	<.016	<.034	<.005	<.009

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

DATE	TIME	FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	
JUN					JUL					
06	1010	790	300	250	05	1010	16000	5500	4900	
20	1035	490	1100	250						
27	1000	2400	900	400						

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

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

		TEMPER	ATURE,	WATER (DEG.	C), W	VATER YEAR	OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER	2		DECEMBER			JANUARY	
14	17.0	14.0	15.5	11.0	9.0	10.0	7.0	5.5	6.0	1.0	.5	1.0
1 2	18.0	15.5	16.5	11.5	9.5	10.5	6.0		4.5	1.0	1.0	1.0
3	19.5	16.0	18.0	11.5	9.5	10.5	4.0	2.5	3.0	1.0	.5	1.0
4	20.5	17.5	19.0	12.0	10.5	11.5	3.5	2.5	3.0	1.0	.5	1.0
5	19.5	18.0	18.5	12.0	10.0	11.0	3.5	2.5	3.0	1.0	1.0	1.0
.6	20.5	18.0	19.0	10.5	8.5	9.5	3.5		3.0	1.5	1.0	1.0
7	19.0	15.5	17.5	10.0	8.0	9.0	3.5		3.0	2.0	1.5	1.5
8	15.5	13.0	14.0	10.5	8.5	9.5	3.5		3.0	2.5	2.0	2.5
9	13.5	11.0	12.0	12.0	10.0	11.0	3.5		3.0	2.5	1.0	1.5
10	11.5	10.0	11.0	14.5	12.0	13.5	3.5	3.0	3.0	2.0		
11	13.5	10.0	12.0	13.0	12.0	12.5	5.0		4.0	3.0	1.5	2.0
12	14.5	11.5	13.0	12.5	11.0	11.5	6.5		5.5	3.0	2.5	3.0
13	15.0	12.0	13.5	12.0	11.0	11.5	4.5		3.5	3.0	2.0	2.5
14	16.0	12.5	14.5	11.5	10.0	11.0	4.5		4.0	3.0	2.0	
15	16.5	14.0	15.0	10.0	8.5	9.0	4.5	3.5	4.0	3.5		
16	16.0	15.0	16.0	8.5	7.0	8.0	5.5		4.0	4.0	3.5	3.5
17	16.0	15.0	15.5	9.0	7.5		12.5		10.0		3.0	3.5
18	16.0	15.0	15.5	8.0	6.5		9.0		6.5	3.5	3.0	3.0
19	16.5	14.0	15.0	7.5	6.0		4.5		4.0	3.5	3.5	3.5
20	15.0	13.0	14.5	6.0	4.5	5.5	4.5	2.5	3.5	3.5	2.5	
21	16.0	13.0	14.5	5.5	4.5	5.0	3.0	1.5	2.5	3.0	1.0	2.0
22	15.5	14.0	14.5	4.5	2.5	3.5	2.5	1.5	2.5	2.5	. 5	1.5
23	14.0	12.0	13.0	3.5	1.5	2.5	1.5			2.0	1.0	1.5
24	13.5	11.5	12.5	3.5	3.0		1.5			3.5	1.5	2.0
25	14.5	12.0	13.0	3.5	3.0	3.5	1.5	.5	1.0	3.5	2.0	3.0
26	15.5	13.5	14.5	9.5	3.5	7.5	1.5	.5	1.0	3.0	1.5	2.0
27	15.5	14.0	14.5	9.0	7.5	8.0	1.0	.5		3.0	2.0	2.5
28	15.5	12.5	14.5	9.5	7.5	8.5	1.5		1.0	4.0	2.0	3.0
29	12.5	10.5	11.5	8.5	6.5		1.5		1.0	3.5	2.5	3.0
30	10.5	8.5	9.5	7.5	7.0		1.0		1.0	4.5	3.0	3.5
31	10.5	8.0	9.5				1.0	.5	.5	5.0	3.5	4.0
MONTH	20.5	8.0	14.4	14.5	1.5	8.4	12.5	.5	3.1	5.0	.5	2.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
		PEDRUARI										
1	6.0	3.5	4.5	7.0	5.0							
2	6.0	4.5	5.0	7.5	5.0							
3	4.5	2.5	3.5	8.0	7.0							
4	4.0	2.5	3.0	8.0 4.0	3.0							
5	3.5	1.5	3.0	4.0								
6	4.0	2.0	3.0	4.0	2.5							
7	5.5	3.0	4.0	7.0	3.0							
8	4.5	3.0	4.0									
9	7.5	3.5	5.0									
10	9.5	7.5	8.5									
11	7.5	3.5	5.0									
12	4.5	2.5	3.5									
13	7.0	3.5	5.0									
14 15	6.5 7.5	6.5	7.0									
											2.50	
16	7.5	6.5	7.0						222			
17	7.0 5.0	2.0	6.0 3.5									
18 19	5.0	2.5	3.5									
20	7.0	3.5	5.0									
21	8.0	6.0	7.0									
22	6.5	2.0	4.0									
23	3.5	1.0	2.0									
24	4.5	3.0	3.5									
25	6.0	3.5	4.5									
26	8.5	5.5	6.5									
27	8.5	5.0	7.0									
28	8.0	6.0	7.0									
29												
30												
31												
MONTH	9.5	1.0	4.9									

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1				28.0	23.0	26.0	26.0	21.5	23.5	25.5	23.5	24.5
2				25.5	21.0	23.0	27.0	22.5	24.5	24.0	21.0	22.5
3				24.0	20.5	22.5	27.0	23.0	25.0	24.0	20.5	22.0
4				24.0	21.5	22.5	26.0	23.0	25.0	24.5	21.0	22.5
5				25.5	21.5	23.5	26.5	22.5	24.0	23.5	21.0	22.5
6	21.5	19.5	20.5	25.5	21.5	23.5	28.0	25.0	26.5	24.5	20.5	22.0
7	22.0	19.0	20.5	25.0	21.0	23.0	29.0	26.0	27.0	25.0	20.5	22.5
8	23.0	19.0	21.0	24.0	22.0	22.5	28.5	26.5	27.5	25.0	21.0	23.0
9	23.0	18.5	21.0	26.5	21.5	24.0	31.0	26.5	28.5	25.5	21.5	23.0
10	22.5	19.0	21.0	27.0	24.0	25.5	31.0	26.0	28.0	25.5	22.5	24.0
11	24.0	19.5	22.0	25.5	23.0	24.5	26.0	25.5	25.5	24.0	21.5	23.0
12	26.0	20.5	23.0	25.0	22.0	23.5	25.5	24.0	24.5	24.0	21.0	22.5
13	27.0	22.5	24.5	24.0	22.0	23.0	27.0	24.0	25.5	25.0	20.5	22.5
14	26.5	23.0	25.0	23.5	20.5	22.0	28.0	23.0	25.5	22.0	16.5	19.5
15	25.5	23.5	24.5	24.5	21.0	22.5	27.5	23.0	25.0	18.5	15.5	17.0
16	24.0	22.5	23.5	25.0	22.0	23.5	27.0	23.5	25.5	19.5	16.5	17.5
17	23.5	21.0	22.5	26.5	23.0	25.0	26.5	24.0	25.0	20.0	16.5	18.0
18	26.5	21.5	23.5	25.5	23.5	24.0	26.5	23.5	25.0	19.5	17.0	18.0
19	27.0	21.0	24.0	25.0	22.0	23.5	25.5	24.0	24.5	21.0	17.0	19.0
20	28.0	22.0	25.0	25.5	22.5	24.0	26.0	22.5	24.5	20.0	18.5	19.0
21	26.0	23.0	24.0	26.5	22.0	24.0	25.5	23.5	24.5	21.5	18.5	20.0
22	26.0	22.0	24.0	27.0	22.5	24.5	25.5	22.5	24.0	23.5	20.5	21.5
23	25.0	22.0	23.5	28.5	24.0	25.5	24.5	22.5	23.5	22.5	21.0	22.0
24	25.5	21.5	23.5	29.5	25.0	27.0	25.0	21.5	23.5	23.0	21.0	22.0
25	26.5	21.0	23.5	30.5	26.0	28.0	25.5	23.0	24.5	22.0	19.5	20.5
26	27.0	22.0	24.5	28.5	24.5	26.5	26.5	22.0	24.0	19.5	17.0	18.5
27	27.5	23.0	25.5	25.0	22.0	23.5	26.5	23.0	25.0	17.5	16.0	17.0
28	28.0	24.5	26.0	25.0	22.0	23.5	27.0	24.0	25.5	16.5	15.5	16.0
29	28.0	25.0	26.5	23.0	21.0	22.0	26.0	23.5	25.0	16.0	14.5	15.0
30	29.0	25.5	27.0	22.5	20.5	21.5	25.5	23.0	24.0	15.0	13.0	13.5
31				25.0	20.5	22.0	26.0	22.0	24.0			
MONTH	29.0	18.5	23.6	30.5	20.5	23.9	31.0	21.5	25.1	25.5	13.0	20.4
YEAR	31.0	.5										

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ

LOCATION.--Lat 39°51'33", long 74°55'46", Camden County, Hydrologic Unit 02040202, at bridge on Kresson Road, 0.5 mi northwest of Kresson Road, 0.5 mi northwest of Kresson Lake, 2.3 mi south of Marlton.

DRAINAGE AREA. -- 1.04 mi2.

PERIOD OF RECORD .-- Water year 1998 and November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY	DATA.	WATER	YEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	ABSORB- ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV													
29 FEB	1000		.642	.499	764	67	8.7	6.7	119	10.0	4.5	42	14.1
22 MAY	1000		.318	.245	773	73	10.7	7.0	157	-5.0	.5	43	14.2
24 AUG	1000	4.0	.521	.404	760	66	6.7	6.7	143	20.0	14.5	47	15.8
30	1000	11	.227	.171	763	3	.3	7.2	244	22.0	20.0	97	34.1
	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	ANC UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL
DATE	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
NOV	2.24	50.25											
29 FEB	1.56	1.19	6.0	29	9.8	E.1	9.4	8.1	101	68	<.030	.51	<.03
22 MAY	1.83	1.21	11.1	26	18.5	<.2	6.8	12.6	105	82	.050	.26	.03
24 AUG	1.87	1.47	8.4	32	13.3	<.2	8.4	11.8	106	81	.060	.52	.06
30	2.87	2.59	8.4	81	15.1	<.2	12.1	10.1	160	135	.590	1.2	.71
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)	5 DAY (MG/L) (00310)
NOV		1.2550	4.156								0.0		make i
29 FEB	.52	<.037	<.003			.047	.031	.040	.6	<.1	14	.6	E1.2
22 MAY	.34	.125	<.003	.38	.47	.050	.016	.032	.7	<.1	6.9	.7	<1.0
24 AUG	.55	.099	.004	.62	.65	.088	.033	.047	1.0	<.1	11	1.0	<1.0
30	1.5	E.068	.015			.444	.046	.192	3.6	<.1	5.5	3.6	E2.4

	CHLORO-		RESIDUE
	PHYLL A		TOTAL
	FLUORO-	BORON,	AT 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
29		17	<1
FEB			
22		15	6
MAY			
24	.700	18	7
AUG			
30	.300	16	13

E Estimated value.

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

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		WALLER	-OUNTILL I	MIA, WAIL	A IEAR OC	TOBER 200	O TO SEP	EDDER 200	/1			
TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM WATER UNFLITED TOTAL (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)
	(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01031)	(01033)	(71300)	(01007)
1000	3	62.9	<.06	17	E.03	<1	.9	2830	<1	232	<.01	1
			Σ	ATE	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	,								
			3	30	<.4	<.05	5					
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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
<.10	<.2	.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	<.2
DA	ATE	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)		
	1000 TIME 1000 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10	TIME (UG/L) AS AS) (01002) 1000 3 1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) 1000 <.10 CHLORO- BENZENE TOTAL CHLORO- BENZENE TOTAL (UG/L) (UG/L) (34301) (32105)	BARIUM, TOTAL RECOV-TOTAL RECOV-TOTAL RECOV-TOTAL REABLE (UG/L AS AS BA) (01002) (01007)	BARIUM, LIUM, TOTAL RECOV- RECOV- TOTAL ERABLE ERABLE ERABLE (UG/L AS AS) AS BA) AS BE) (01002) (01007) (01012)	BARIUM, LIUM, TOTAL ERBEE ERABLE ERBLE ERBLE (UG/L (BARIUM, LIUM, TOTAL TOTAL TOTAL CUG/L CU	ARSENIC RECOV- RECOV- RECOV- RECOV- TOTAL RECOV- R	BARIUM, LIUM, BORON, CAIMIUM MIUM, COPPER, TOTAL TOTAL	BARIUM, LUM, DORON, CAIMIUM MIUM, COPPER, TRON, TOTAL TOTAL	BARIUM	ARSENIC CANADA CAMMIUM MIUM, COPPER, TOTAL TOTAL	BANTIM, COUNTY, COUN

<.1

<.10

<.10

<.20

<.10

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
MAY 24	1000	<.004	<.002	<.005	E.003	<.010	<.050	<.020	<.005	<.018	<.003	<.006	.007

FEB 22...

<.2

<.20

<.10

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

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITRD 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)
MAY												. 010	
24	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.002	<.007	<.003	<.010	E.003
			DA	TE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FITRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FITRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	4	E.004	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
06	1050	80	300	140	05	1045	3500	2500	4200
20	1005	3500	1500	200					
27	1025	110	100	290					

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

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 (County 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 mi2.

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

REMARKS.--Site is tide-affected; all samples collected at low tide. Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION. --Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Urban Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

		DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	ABSORB- ANCE 254 NM, WTR FLT	ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L
DATE	TIME	PER SECOND (00061)	UNFLITED (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)
DEC													
11 MAR	0910	18		.102	.084	764	85	11.2	6.8	173	5.0	4.0	50
13 MAY	1300	156		.157	.123	747	84	9.7	6.7	266	15.0	8.0	37
22 AUG	1020	E70	32	.231	.183	755	68	6.7	6.8	126	18.5	15.5	34
16	0900	E22	15	.200	.162	766	47	4.2	6.9	164	23.5	21.0	46
	CALCIUM DIS-	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLITED TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC
DATE	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS K) (00935)	(MG/L AS NA) (00930)	(MG/L AS CACO3) (90410)	(MG/L AS CL) (00940)	(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	SOLVED (MG/L AS SO4) (00945)	DIS- SOLVED (MG/L) (70300)	DIS- SOLVED (MG/L) (70301)	(MG/L AS N) (00608)	DIS. (MG/L AS N) (00623)
DEC													
11 MAR	15.3	2.89	2.75	10.0	28	15.0	E.1	11.3	20.7	102	98	.130	.26
13	11.7	1.99	2.16	33.3	19	53.1	E.1	4.8	14.9	145	136	.080	.36
AUG	10.1	2.09	2.60	9.0	21	12.3	E.1	5.2	13.5	89	70	.150	.46
16	13.7	2.89	3.09	8.9	27	14.9	E.1	9.0	18.9	100	90	.110	.34
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL
DATE	(MG/L AS N) (00610)	(MG/L AS N) (00625)	(MG/L AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(MG/L AS N) (00600)	(MG/L AS N) (49570)	(MG/L AS P) (00666)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688)	(MG/L AS C) (00681)	(MG/L AS C) (00689)
DEC													
11 MAR	.13	.36	.754	<.003	1.0	1.1	.157	.014	.199	2.0	<.1	1.9	2.0
13 MAY	.08	.58	.598	.007	.96	1.2	.273	.024	.246	2.6	<.1	3.6	2.6
22 AUG	.19	.69	.411	.015	.87	1.1	.340	.032	.267	3.3	<.1	5.1	3.2
16	.11	.55	.407	.019	.75	.96	.116	.038	.226	1.0	<.1	3.6	1.0

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C,
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
DEC				
11	E1.6		235	10
MAR				
13	2.5		55	23
MAY				
22	3.6	4.60	153	23
AUG				
16	<1.0	3.80	200	14

E Estimated value.

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

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DELAWARE RIVER BASIN

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
06	0935	3500	600	460	05	0940	9200	4000	7500
20	1110	3500	800	360					
27	0925	330	100	200					

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ--Continued

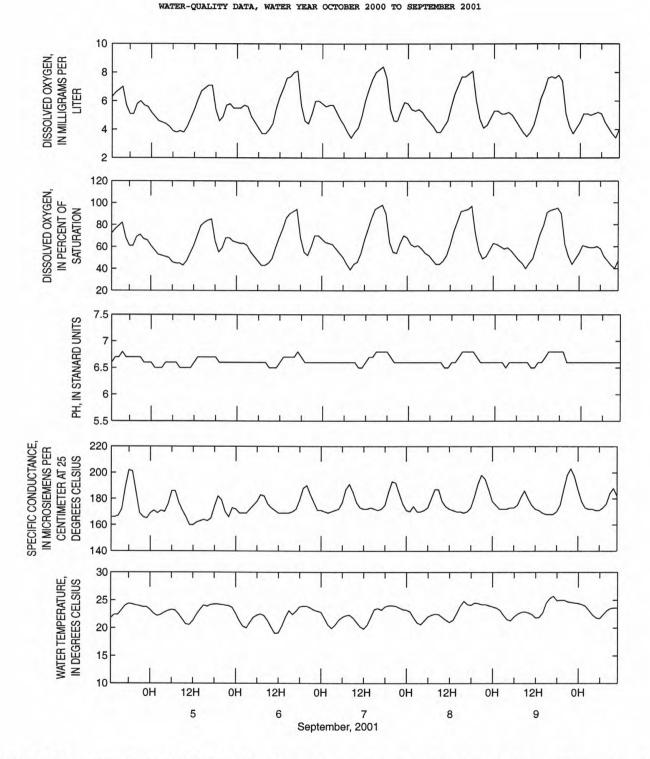


Figure 56. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01467359 North Branch Big Timber Creek at Glendora, water year 2001.

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA

LOCATION.--Lat 40°24'48", long 76°10'19", Berks County, PA, Hydrologic Unit 02040203, at bridge at Kricks Mill, 0.4 mi upstream from Mill Creek, and 3.5 mi west of Bernville.

DRAINAGE AREA. -- 66.5 mi2.

PERIOD OF RECORD. -- October 1998, revised, to August 2001 (discontinued).

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).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 and other sites are presented in "Water-Quality at Miscellaneous Surface-Water

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAME TYP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT													
03	0900	ENVIRONM	ENTAL	59	749	92	9.2	8.2	584	14.5	14.6	270	75.7
NOV	1010	WANTED CAN			750					16.0	0.1	270	70.7
02 DEC	1010	ENVIRONM	ENTAL	50	760	116	13.3	8.2	575	16.0	9.1	270	72.7
27	1140	ENVIRONM	ENTAL	66	759	108	15.3	8.2	592	-0.5	.8	280	80.5
FEB									37.5	10,50	, .		
06	1209	FIELD BI											.04
06	1210	ENVIRONM		86	758	98	12.4	8.4	581	7.0	5.0	270	78.7
06 MAR	1211	SPLIT RE	EPLICATE										
14	0950	ENVIRONM	TENTE T.	131	759	105	12.8	8.2	545	8.5	6.7	250	73.2
APR	0330	THE THOU	THE PARTY OF THE P	131	733	103	12.0	0.2	343	0.5	0.7	250	75.2
04	1000	ENVIRONM	ENTAL	214	762	106	12.3	8.2	573	8.5	8.7	270	77.9
MAY													
03	1330	ENVIRONM	TENTAL	84	761	120	11.2	8.2	593	34.0	18.7	270	76.1
JUN	0930									20.5		270	76.0
06	0931	ENVIRONM SPLIT RE		57				8.3	589	20.5		270	76.0
27	0930	ENVIRONM		49	761	91	8.0	8.3	602	28.5	21.3	280	77.0
AUG	0500	2111 211012		•	701	-	0.0	0.5	002	20.5		200	,,,,
08	1040	ENVIRONM	ENTAL	36	756	100	8.2	8.0	586	32.5	24.6	260	69.6
				ALKA-	BICAR- BONATE	CHLO-				NITRO-	NITRO-	NITRO-	
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)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3 (00453)	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)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
DATE	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	WAT DIS TOT IT FIELD MG/L AS CACO3	WATER DIS IT FIELD MG/L AS HCO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	DIS- SOLVED (MG/L AS SO4)	MONIA + ORGANIC DIS. (MG/L AS N)	MONIA + ORGANIC TOTAL (MG/L AS N)	AMMONIA DIS- SOLVED (MG/L AS N)	GEN, TOTAL (MG/L AS N)
OCT 03 NOV	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2)	DIS- SOLVED (MG/L AS SO4)	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)
OCT 03 NOV 02	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3 (00453)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)
OCT 03 NOV 02 DEC	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930) 10.3	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945) 32.5	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600) 8.7
OCT 03 NOV 02 DEC 27	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3 (00453)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600)
OCT 03 NOV 02 DEC	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930) 10.3	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, TOTAL (MG/L AS N) (00600) 8.7
OCT 03 NOV 02 DEC 27	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945) 32.5	MONIA + ORGANIC DIS. (MG/L AS N) (00623)	MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8
OCT 03 NOV 02 DEC 27 FEB 06 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8
OCT 03 NOV 02 DEC 27 FEB 06 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .19	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .40	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .19	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .40	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199 	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243 243 215	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1 5.7	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0 	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .1942	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .4062	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065 	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8 9.4
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14 APR	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .19	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .40	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199 	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243 243 215	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9 	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1 5.7	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0 	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .1942	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .4062	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065 	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8 9.4
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14 APR 04 MAY 03 JUN 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5 	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4 13.3 11.8	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199 176 200	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243 215 244	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9 26.3 23.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1 <.2	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1 5.7 	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0 30.8 31.3	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .1942 .26	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .4062 .33	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065 .074	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8 9.4 9.1
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14 APR 04 MAY 03 JUN 06	SIUM, DIS- SOLUVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <008 17.5 16.0 17.3 18.3 20.0	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14 3.35 3.01 3.11	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4 13.3 11.8 11.1	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 176 200 206 203	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243 244 252 244	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9 26.3 23.3 26.2 26.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 <.2 E.1 <.2 E.1 <.2 E.1 <.2	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1 5.7 6.2 5.3 4.9	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 <.1 32.0 30.8 31.3 30.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .1942 .26 .24	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .4062 .33 .42 .44	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065 .074 .045 E.021	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8 9.1 9.4 9.4
OCT 03 NOV 02 DEC 27 FEB 06 06 MAR 14 APR 04 MAY 03 JUN 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 19.8 20.5 18.8 <.008 17.5 16.0 17.3 18.3 20.0	SIUM, DIS- SOLVED (MG/L AS K) (00935) 3.22 3.28 3.25 <.24 3.14 3.35 3.01 3.11	DIS- SOLVED (MG/L AS NA) (00930) 10.3 12.2 11.8 <.1 12.4 13.3 11.8 11.1	WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 206 216 207 199 176 200 206 206	WATER DIS IT FIELD MG/L AS HCO3 (00453) 252 263 252 243 215 244 252 247	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 20.9 22.8 24.7 <.1 25.9 26.3 23.3 26.2 26.1	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 .2 E.1 .2 E.1 .2 E.1 <.2 E.1 <.2	DIS- SOLVED (MG/L AS SIO2) (00955) 5.2 4.3 8.0 <.1 5.7 6.2 5.3 4.9 6.9	DIS- SOLVED (MG/L AS SO4) (00945) 32.5 32.5 34.0 30.8 31.3 30.0	MONIA + ORGANIC DIS. (MG/L AS N) (00623) .28 .27 .42 <.10 .1942 .26 .24	MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .30 .31 .49 .08 .4062 .33 .42 .44	AMMONIA DIS- SOLVED (MG/L AS N) (00608) .048 E.029 .224 <.041 .065 .074 .045 E.021 <.040	GEN, TOTAL (MG/L AS N) (00600) 8.7 8.8 9.8 9.4 9.1 9.4 9.4

E Estimated value.
< Value shown is know to be less than the value shown.</pre>

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
NOV	8.7	8.41	.065	.26		.059	.047	.079			1.5	.2	343
02	8.8	8.49	.083			.035	.025	.051			1.5	.2	334
DEC	0.0	0.45	.005			.033	.025	.031			1.5		554
27	9.7	9.31	.039	.26		.044	.039	.055			1.1	.3	344
FEB													
06		<.047	<.006			<.006	<.018	<.004					<10
06	9.2	9.00	.041	.33	.045	.024	.019	.043	.4		1.1		334
06													
MAR													
14	8.9	8.45	.049	.54	.088	.031	.022	.069	.7	<.1	2.0	.7	328
APR	15-15	100 2.7											
04	9.4	9.10	.041	.28	<.022	.026	.023	.044	<.1	<.1	1.5	<.1	327
MAY	2.2	21.00	1.2122			2000	-7 L-1 A	0.00	70	7.5			
03	9.3	9.03	.068		.175	.033	E.012	.076	E1.1	<.1	1.4	E1.1	351
JUN								24.0		15.4	2.2		
06	8.8	8.51	.049		.075	.058	.033	.099	.5	<.1	1.6	.5	343
06						- 55							
27	8.2	7.94	.055		.140	.072	.044	.112	1.1	<.1	4.6	1.1	332
AUG 08	7.7	7.39	.034		126	060	OFT	000	0	<.1	1.9	.9	286
vo	1.1	7.39	.034		.126	.069	.057	.092	.9	<.1	1.9	. 9	280

	SUM OF	BID-					MANGA-	MENT,	
	CONSTI- TUENTS,	FIELD	ARSENIC DIS-	ARSENIC	BORON, DIS-	IRON, DIS-	NESE, DIS-	DIS- CHARGE,	SEDI- MENT,
DATE	DIS- SOLVED (MG/L) (70301)	WATER UNFLTRD (NTU) (61028)	SOLVED (UG/L AS AS) (01000)	(UG/L AS AS) (01002)	(UG/L AS B) (01020)	(UG/L AS FE) (01046)	(UG/L AS MN) (01056)	SUS- PENDED (T/DAY) (80155)	SUS- PENDED (MG/L) (80154)
OCT									
03 NOV	329	8.0	4.0	4	23	М	8.1	7.9	50
02 DEC	336	3.1	2.9	3	26	м	6.7	9.3	69
27 FEB	347	7.3	3.9		20	<10	14.8	1.1	6
06			<2.0	<2	<13	<10	<3.2		
06	335	6.6	4.0	4	21	M	18.5	21	92
06 MAR			4.3	4					
14 APR	312	19	2.6	3	13	М	22.8	11	32
04 MAY	330	9.9	3.8	5	18	М	25.4	48	83
03 JUN	334	15	4.0	4	22	20	21.5	14	62
06	335			4	20	M	7.8	9.2	60
06									
27	338	21	5.1	4	20	<10	8.2	12	89
AUG									
08	329	18	5.1	5	22	M	10.3	6.8	70

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLITED REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 03	0900	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

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

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BENZENE TOTAL (UG/L) (34030)	BROMO FORM TOTA (UG/	SUL SUL O- WA M WH AL TO 'L) (UG	OLE BEI	LORO-	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	-D CHL ETH WA TO (UG	ORO- ENE C TER M TAL	BROMO- DI- HLORO- ETHANE TOTAL (UG/L) 32101)	DI- FLUG METI TOTA (UG.	ORO- HANE	ETHI ETHI WATI UNFL! RECO' (UG/)	ER TI YL PEI ER ME' TRD UNI VER RE(L) (U	THER ERT- NTYL THYL FLTRD COVER G/L) 0005)	ETHYI BENZI TOTZ (UG/I	ENE AL L)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT																		
03	<.04	<.06	· ·	07 <	.03	<.2	<.02	۷.	04	<.05	<	. 3	<.:	2	<.1	<.0:	3	<.06
DATE	TET	TRA- DRO- TER TRD V VER	TERT- BUTYL ETHER VAT UNF REC (UG/L) (78032)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHY ENE CHLO RIDE TOTAL (UG/L (3442	WATE UNFI	CA- CHL CNE TOLI CER WA TRD WH CC TO C/L) (UG	ORO- UENE TER OLE TAL	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135	WATE WHO REC	PYL- JENE JER OLE CL)	TETRA CHLOR ETHYI ENE TOTA (UG/I	r. r. 	TOLUENE TOTAL (UG/L) (34010)	TRI CHLO ETHY EN TOT (UG (391	RO- (L- I E I AL	TRI- CHLOR FLUOR METHA TOTA (UG/L	ro- Lo- LL L
OCT			0.5	-										- 14			57.23	
03	<2		<.2	<.2	<.2	<.0	6 <.	03	<.04	<.0	7	M		<.05	<.0	4	<.09	

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

DATE	TIME	SAMP TYP		ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
OCT													
03 FEB	0900	ENVIRONM	ENTAL	<.004	<.002	<.005	.226	<.010	<.041	<.020	<.005	<.018	<.003
06 APR	1210	ENVIRONM	ENTAL	<.004	<.002	<.005	.213	<.010	<.041	<.020	<.005	<.018	<.003
04 MAY	1000	ENVIRONM	ENTAL	<.004	<.002	<.005	.142	<.010	<.041	<.030	<.005	<.018	<.003
03 JUN	1330	ENVIRONM	ENTAL	<.004	<.002	<.005	.119	<.010	<.041	<.020	<.005	<.018	<.003
06	0930	ENVIRONM	TENETAT.	<.004	<.002	<.005	.215	<.010	<.041	<.020	<.005	<.018	<.003
06	0931	SPLIT RE		<.004	<.002	<.005	.209	<.010	<.041	<.020	<.005	<.018	<.003
27	0930	ENVIRONM		<.004	<.002	<.005	.231	<.010	E.008	<.020	<.005	<.018	<.003
AUG	0550	THE THOU		1.004	1.002	1.005	.231	1.010	2.000	1.020	1.005	1.010	1.005
08	1040	ENVIRONM	ENTAL	<.004	<.002	<.005	.194	<.010	<.041	<.020	<.005	<.018	<.003
DATE	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)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)
OCT													
03 FEB	E.245	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.002	<.007	<.003
06 APR	E.204	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	E.001
04 MAY	E.145	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.007	<.007	<.003
03 JUN	E.118	<.005	<.005	.005	<.004	<.035	<.027	<.050	E.009	<.006	<.002	<.007	<.003
06	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006	<.002	<.007	<.003
06	<.006	E.002	<.005	<.002	<.004	<.035	<.027	<.050	.015	<.006	<.004	<.007	<.003
27 AUG	E.066	<.005	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003
08	<.006	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.002	<.007	<.003

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

SCHUYLKILL RIVER BASIN

01470779 TULPEHOCKEN CREEK NEAR BERNVILLE, PA--Continued

	PENDI- METH- ALIN	PRO- METON,	SI- MAZINE,	TEBU- THIURON WATER	TER- BACIL WATER	TER- BUTHYL- AZINE,	THIO- BENCARB WATER	TRI- FLUR- ALIN
	WAT FLT	WATER,	WATER,	FLTRD	FLTRD	WATER,	FLTRD	WAT FLT
	0.7 U	DISS,	DISS,	0.7 U	0.7 U	DISS,	0.7 U	0.7 U
DATE	GF, REC	REC	REC	GF, REC	GF, REC	REC	GF, REC	GF, REC
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(82683)	(04037)	(04035)	(82670)	(82665)	(04022)	(82681)	(82661)
OCT								
03	<.010	.016	.019	E.013	<.034	<.005	<.005	<.009
FEB								
06	<.010	E.012	.028	E.011	<.034		<.005	E.002
APR								
04	<.010	E.012	.019	E.007	<.034		<.005	<.009
MAY								
03	<.010	E.013	.091	E.007	<.034		<.005	<.009
JUN								
06	<.010	E.010	.023	E.009	<.034		<.005	<.009
06	<.010	E.010	.024	E.010	<.034		<.005	<.009
27	<.010	<.015	.015	E.004	<.034		<.005	<.009
AUG								
08	<.010	E.013	.017	E. 013	< .034		< .005	< .009

 $[\]ensuremath{\mathtt{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, at 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 mi2.

PERIOD OF RECORD. -- October 1950, revised, to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: November 1998 to September 2001.

INSTRUMENTATION. -- Water-temperature data logger (in situ system; measurements recorded every 15 minutes) located at gage.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).

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 and other sites are presented in "Water-Quality at Miscellaneous Surface-Water Sites."

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.

DATE	TIME	SAMP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT 02	1130	ENVIRONM	ENTAL	38	756	108	11.3	7.7	173	20.5	13.0	62	16.4
NOV 02	1320	ENVIRONM	ENTAL	25	762			7.8	173	17.5	9.0	62	16.5
27	1600	ENVIRONM	ENTAL	59	760	105	15.3	7.5	166	-2.5	.00	58	15.1
FEB 07	1020	ENVIRONM	ENTAL	112	764	108	14.8	7.4	239	11.0	2.5	56	14.6
MAR 14 APR	1250	ENVIRONM	ENTAL	139	755	109	13.3	7.7	152	8.0	6.5	47	12.0
04	1409	FIELD BL	ANK		22							125	
04	1410	ENVIRONM		122	765	110	12.2	7.8	143	14.0	10.5	47	12.1
04	1411	SPLIT RE			705	110	12.2	7.0	143			47	12.1
MAY		22-3-2-2-2										37	
03	1120	ENVIRONM	ENTAL	67	766	97	9.1	7.7	151	28.0	18.5	51	13.2
22	1220	ENVIRONM	ENTAL	340	756	97	9.9	7.3	147	17.0	14.0	46	12.2
JUN	2000												
06	1200	ENVIRONM		62	758			7.8	157	19.0	16.0	56	14.6
27 AUG	1400	ENVIRONM	ENTAL	35	762	112	9.3	8.0	165	29.5	24.5	58	15.2
08 SEP	1330	ENVIRONM	ENTAL	16	758	127	10.0	8.4	168	33.0	27.0	58	15.6
11	0930	ENVIRONM	TENETAT.	17	761	101	9.5	7.8	174	20.0	18.5	63	17.1
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	POTAS- SIUM, DIS- SOLVED (MG/L	SODIUM, DIS- SOLVED (MG/L	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS	BICAR- BONATE WATER DIS IT FIELD MG/L AS	CAR- BONATE WATER DIS IT FIELD MG/L AS	CHLO- RIDE, DIS- SOLVED (MG/L	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L
		AS K)	AS NA)	CACO3	HCO3	CO3	AS CL)	AS F)		AD DOWN	AS N)	AS N)	AS N)
	(00925)	AS K) (00935)	AS NA) (00930)	(39086)	HCO3 (00453)	CO3 (00452)	AS CL) (00940)	(00950)	(00955)	(00945)	AS N) (00623)	(00625)	AS N) (00608)
OCT		(00935)	(00930)	(39086)	(00453)	(00452)	(00940)	(00950)	(00955)	(00945)	(00623)	(00625)	(00608)
02	(00925) 5.19												
02 NOV	5.19	1.93	(00930) 8.1	(39086)	(00453)	(00452)	10.9	(00950)	(00955)	(00945)	.15	.18	(00608) <.0 4 1
02 NOV 02		(00935)	(00930)	(39086)	(00453)	(00452)	(00940)	(00950)	(00955)	(00945)	(00623)	(00625)	(00608)
02 NOV	5.19	1.93	(00930) 8.1	(39086)	(00453)	(00452)	10.9	(00950)	(00955)	(00945)	.15	.18	(00608) <.0 4 1
02 NOV 02 DEC 27	5.19 5.16	(00935) 1.93 1.62	(00930) 8.1 7.7	(39086) 45	(00 4 53) 5 4	(00452)	10.9	(00950) <.1 E.1	(00955) 17.1 15.9	(00945) 12.8 12.2	.15	.18	(00608) <.041 <.041
02 NOV 02 DEC 27 FEB 07	5.19 5.16 4.87	1.93 1.62 1.50	(00930) 8.1 7.7 7.6	(39086) 45 34	(00453) 54 42	(00 4 52)	10.9 11.3 12.7	(00950) <.1 E.1 <.2	(00955) 17.1 15.9 17.0	(00945) 12.8 12.2 14.7	.15 .16 .15	.18 .19 .17	<.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04	5.19 5.16 4.87 4.81 4.08	(00935) 1.93 1.62 1.50 1.72 1.54	(00930) 8.1 7.7 7.6 20.8 10.3	(39086) 45 34 28 23	(00453) 54 42 34 28	(00452) 	(00940) 10.9 11.3 12.7 40.6 18.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6	(00945) 12.8 12.2 14.7 13.3 12.7	(00623) .15 .16 .15 .18 .27 <.10	.18 .19 .17 .36 .73	(00608) <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04	5.19 5.16 4.87 4.81 4.08	(00935) 1.93 1.62 1.50 1.72 1.54 1.23	(00930) 8.1 7.7 7.6 20.8 10.3	(39086) 45 34 28 23	(00453) 54 42 34 28	 	(00940) 10.9 11.3 12.7 40.6 18.0	(00950) <.1 E.1 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6	(00945) 12.8 12.2 14.7 13.3 12.7	(00623) .15 .16 .15 .18 .27 <.10 .13	(00625) .18 .19 .17 .36 .73 <.08 .15	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04	5.19 5.16 4.87 4.81 4.08	(00935) 1.93 1.62 1.50 1.72 1.54	(00930) 8.1 7.7 7.6 20.8 10.3	(39086) 45 34 28 23	(00453) 54 42 34 28	 	(00940) 10.9 11.3 12.7 40.6 18.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6	(00945) 12.8 12.2 14.7 13.3 12.7	(00623) .15 .16 .15 .18 .27 <.10	.18 .19 .17 .36 .73	(00608) <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04	5.19 5.16 4.87 4.81 4.08 4.15 4.15	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26	(00930) 8.1 7.7 7.6 20.8 10.3	(39086) 45 34 28 23 28	(00453) 54 42 34 28 34	 	(00940) 10.9 11.3 12.7 40.6 18.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4	(00623) .15 .16 .15 .18 .27 <.10 .13 .13	(00625) .18 .19 .17 .36 .73 <.08 .15 .15	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04	5.19 5.16 4.87 4.81 4.08 4.15 4.15	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20	(00930) 8.1 7.7 7.6 20.8 10.3 7.7 7.2	(39086) 45 34 28 23 28 30	(00453) 54 42 34 28 34 37	 	(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16	(00625) .18 .19 .17 .36 .73 <.08 .15 .15	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04 MAY 03 03	5.19 5.16 4.87 4.81 4.08 4.15 4.15	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26	(00930) 8.1 7.7 7.6 20.8 10.3	(39086) 45 34 28 23 28	(00453) 54 42 34 28 34	 	(00940) 10.9 11.3 12.7 40.6 18.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4	(00623) .15 .16 .15 .18 .27 <.10 .13 .13	(00625) .18 .19 .17 .36 .73 <.08 .15 .15	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04 MAY 03 22 JUN	5.19 5.16 4.87 4.81 4.08 4.15 4.27 3.79	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20 1.94	(00930) 8.1 7.7 7.6 20.8 10.3 7 7.7 7.2 8.7	(39086) 45 34 28 23 28 30 28	(00453) 54 42 34 28 34 37 34		(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7 13.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5 9.1 11.7	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8 11.9	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16 .45	(00625) .18 .19 .17 .36 .73 <.08 .15 .15 .20 1.1	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04 03 22 JUN 06	5.19 5.16 4.87 4.81 4.08 4.15 4.27 3.79 4.80	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20 1.94 1.29	(00930) 8.1 7.7 7.6 20.8 10.3 7.7 7.2 8.7 7.8	(39086) 45 34 28 23 28 30 28 38	(00453) 54 42 34 28 34 37 34 46	 	(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7 11.7 13.0 11.7	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 9.1 11.7 16.2	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8 11.9 12.2	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16 .45	(00625) .18 .19 .17 .36 .73 <.08 .15 .15 .20 1.1 .20	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04 MAY 03 22 JUN	5.19 5.16 4.87 4.81 4.08 4.15 4.27 3.79	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20 1.94	(00930) 8.1 7.7 7.6 20.8 10.3 7 7.7 7.2 8.7	(39086) 45 34 28 23 28 30 28	(00453) 54 42 34 28 34 37 34		(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7 13.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5 9.1 11.7	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8 11.9	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16 .45	(00625) .18 .19 .17 .36 .73 <.08 .15 .15 .20 1.1	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 MAY 03 22 JUN 06 27 AUG 08	5.19 5.16 4.87 4.81 4.08 4.15 4.27 3.79 4.80	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20 1.94 1.29	(00930) 8.1 7.7 7.6 20.8 10.3 7.7 7.2 8.7 7.8	(39086) 45 34 28 23 28 30 28 38	(00453) 54 42 34 28 34 37 34 46		(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7 11.7 13.0 11.7	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 9.1 11.7 16.2	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8 11.9 12.2	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16 .45	(00625) .18 .19 .17 .36 .73 <.08 .15 .15 .20 1.1 .20	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041
02 NOV 02 DEC 27 FEB 07 MAR 14 APR 04 04 04 MAY 03 22 JUN 06 27 AUG	5.19 5.16 4.87 4.81 4.08 4.15 4.27 3.79 4.80 4.80	(00935) 1.93 1.62 1.50 1.72 1.54 1.23 1.26 1.20 1.94 1.29 1.38	(00930) 8.1 7.7 7.6 20.8 10.3 7.7 7.2 8.7 7.8 7.4	(39086) 45 34 28 23 28 30 28 38 40	(00453) 54 42 34 28 34 37 34 46 48	(00452)	(00940) 10.9 11.3 12.7 40.6 18.0 11.8 11.7 11.7 13.0	(00950) <.1 E.1 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	(00955) 17.1 15.9 17.0 13.2 11.6 12.5 12.5 9.1 11.7 16.2 17.5	(00945) 12.8 12.2 14.7 13.3 12.7 13.5 13.4 11.8 11.9 12.2 11.7	(00623) .15 .16 .15 .18 .27 <.10 .13 .13 .16 .45 .15	(00625) .18 .19 .17 .36 .73 <.08 .15 .15 .20 1.1 .20 .21	(00608) <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.041 <.040 E.024

E Estimated value.

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

DATE	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)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT													
NOV	1.7	1.7	1.53	E.003		.024	.021	.039		75	2.3	<.2	113
DEC	1.3	1.3	1.10	E.003		.008	<.018	.016			2.1	.3	113
27 FEB	2.4	2.4	2.26	.006		.016	E.012	.027			1.6	.2	108
07 MAR	1.9	1.7	1.51	.008	<.022	.018	E.015	.033	.3		2.4		155
14 APR	2.0	1.6	1.29	E.003	.094	.014	<.018	.038	.5	<.1	3.4	.5	99
04			<.047	<.006		<.006	<.018	<.004			44		
04	1.7	1.6	1.51	E.004	.068	.013	E.010	.025	.3	<.1	1.8	.3	96
04 MAY	1.7	1.6	1.50	E.004		.014	E.011	.022					92
03	1.3	1.2	1.07	.018	.106	.010	<.018	.024	E.6	<.1	2.1	E.6	95
22	2.0	1.4	.950	.011	.887	.046	.024	.293	7.9	<.1	5.4	7.9	107
JUN	4 4	4.4	4 44	222		0.00		1000			2.2		
06	1.5	1.4	1.29	.007	.095	.018	E.010	.034	.9	<.1	2.1	.9	103
27 AUG	1.4	1.3	1.18	.023	.047	.029	<.020	.045	. 5	<.1	4.6	.5	102
08 SEP	.69	. 67	.516	E.005	.039	.024	.020	.023	.3	<.1	2.0	.3	97
11	1.1	1.0	.917	<.006	<.022	.016	<.020	.023	.3	<.1	1.7	.3	109

DATE	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)
OCT							
02 NOV	107	2.4	E15	60	9.0	.23	2
02 DEC	102	<2.0	E9	50	4.4	.13	2
27	104	4.9	E12	50	13.8	.51	3
FEB							
07	132	8.6	E6	80	26.4	1.3	4
MAR							
14	90	13	E7	80	15.0	1.7	4
APR							
04							
04	87	4.7	E11	60	11.8	1.3	3
04			E11	60	11.3		3
MAY							
03 22	82 85	4.9	<13	90	11.8	.60	3
JUN	65	160	E11	160	51.1	83	91
06	97		E11	80	10.3	1.1	7
27	99	7.4	E9	110	6.9	.38	4
AUG			23	110	0.3	.50	
08 SEP	96	3.0	<13	40	7.6		<1
11	102	<2.0	E9	20	5.1	.11	2

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

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-DI- CHLORO- WATER UNFL/TRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO- PROPYL- BENZEME WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 02	1130	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT 02	<.04	<.06	E.01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
DATE		TRA- TER DRO- BUT TER ETR TRD WAT OVER RE	TT- TYL METH UER CHL UNF RIE C TOT (L) (UG/	O- CHI E RIII CAL TOTA L) (UG/	E XYLE O- WAT E UNFI L RE L) (UG	CA- CHLC CNE TOLK CER WAT TRD WHO CC TOT C/L) (UG/	DRO- ODENE XYLITER WAS DLE WHO PAL TO (UG.	ENE TOLU	PYL- TETF JENE CHLC TER ETHY LE ENE TOT (L) (UG/	ORO- TL- TOLK TAL TOT (L) (UG/	ral TOT	ORO- CHLO CL- FLUC VE METE CAL TOTA G/L) (UG/	DRO- DRO- HANE CAL (L)
OCT 02	<2	E.	1 <.	2 <.	2 <.0	06 <.0	03 <	04 <.0)7 <.	1 E.C	03 E.()2 <.(09

WATER-COLUMN PESTICIDE ANALYSES

Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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)
OCT													
02	1130	<.004	E.002	<.005	.012	<.010	<.041	<.020	<.005	<.018	<.003	E.030	<.005
FEB				100	3.5	11000			91272	100000			77
07	1020	<.004	.005	<.005	.007	<.010	E.060	<.100	<.005	<.018	<.003	E.021	<.005
APR													
04	1410	<.004	<.002	<.005	.008	<.010	<.041	<.020	<.005	<.018	<.003	E.022	<.005
MAY													
03	1120	<.004	<.002	<.005	.009	<.010	<.041	E.016	<.005	<.018	<.003	E.022	<.005
22	1220	<.004	<.002	<.005	.270	<.010	E.007	<.020	<.005	<.018	<.003	E.023	.006
JUN													
06	1200	E.004	<.002	<.005	.110	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
27	1400	<.004	<.002	<.005	.103	<.010	<.041	<.020	<.005	<.018	<.003	E.014	<.005
AUG													
08	1330	<.004	<.002	<.005	.017	<.010	<.041	<.020	<.005	<.018	<.003	<.006	<.005
SEP													
11	0930	<.004	<.002	<.005	.011	<.010	<.041	<.020	<.005	<.018	<.003	E.023	<.005

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

DELAWARE RIVER BASIN

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLITD 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)	MOL- INATE WATER FLITD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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													
02	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
FEB	10.73												
07	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	E.002
APR													
04	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.003	<.007	<.003	<.010	<.015
MAY													
03	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.002	<.007	<.003	<.010	<.015
22	<.005	<.002	<.004	<.035	<.027	<.050	.147	<.006	<.002	<.007	<.003	<.010	<.015
JUN													
06	<.005	<.002	<.004	<.035	<.027	<.050	.030	<.006	<.002	<.007	<.003	<.010	<.015
27	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.002	<.007	<.003	<.010	<.015
AUG													
08	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002	<.007	<.003	<.010	.022
SEP													
11	<.005	<.030	<.004	<.035	<.027	<.050	E.007	<.006	<.002	<.007	<.003	<.010	<.015

DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	FLTRD 0.7 U GF, REC (UG/L)	(UG/L)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT					
02	.017	<.016	<.034	<.005	E.001
FEB					
07	.012	<.016	<.034	<.005	<.009
APR					
04	E.008	<.016	<.034	<.005	<.009
MAY					
03	E.007	<.016	<.034	<.005	<.009
22	.054	<.016	<.034	<.005	<.009
JUN					
06	.394	<.016	<.034	<.005	<.009
27	.665	<.016	<.034	<.005	<.009
AUG					
08	.026	<.016	<.030	<.005	<.009
SEP					
11	E.010	<.016	<.034	<.005	<.009

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

DELAWARE RIVER BASIN

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPE	RATURE,	WATER (DEG	. C), WA	TER YEAR	OCTOBER 2	2000 TO S	EPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		1	DECEMBER			JANUARY	
1	14.0	11.0	12.5	9.5	6.5	8.0	5.5	3.5	4.5	.0	.0	.0
2				9.5	6.5	8.0	3.5	1.5	2.5	.0	.0	.0
3	16.5	12.5	14.5	9.5	6.5	8.0	1.5	.0	.5	.0	.0	.0
4	17.0	14.0	15.5	11.0	8.5	9.5	.5	.0	.0	.0	.0	.0
5	17.0	16.0	16.0	10.0	7.5	9.0	1.5	.0	.5	.0	.0	.0
6	17.0	15.5	16.0	8.5	6.0	7.5	.5	.0	.0	.0	.0	.0
7	15.5	12.5	14.5	8.0	5.5	6.5	1.0	.0	.5	.0	.0	.0
8	12.5	10.0	11.0	9.5	6.5	8.0	2.0	.0	1.0	.0	.0	.0
9	10.0	8.5	9.0	11.0	9.0	10.0	2.0	.0	.5	.0	.0	.0
10	9.5	7.5	8.5	12.5	11.0	11.5	1.5	.0	.5	.0	.0	.0
11	11.0	8.0	9.5	12.0	10.0	11.0	3.5	1.5	2.5	.5	.0	.0
12	12.0	8.5	10.0	11.0	9.0	10.0	4.0	1.5	3.5	.0	.0	.0
13	12.5	9.0	11.0	10.5	9.0	10.0	1.5	.0	1.0	.0	.0	.0
14	13.5	10.0	11.5	10.0	7.5	9.0	2.5	1.0	2.0	.0	.0	.0
15	14.0	11.0	12.5	7.5	6.5	7.0	2.5	2.0	2.0	.0	.0	.0
16	13.5	12.5	13.0	7.0	5.0	6.0	3.5	2.0	2.5	.5	.0	.0
17	13.5	13.0	13.0	8.0	5.5	6.5	10.0	3.5	8.0	1.0	.0	. 5
18	14.0	13.0	13.0	6.5	4.5	5.0	7.5	2.5	4.0	.5	.0	. 5
19	14.0	11.5	12.5	5.0	3.0	4.0	2.5	1.5	2.0	1.0	.5	1.0
20	13.0	10.0	11.5	4.0	1.5	3.0	2.0	.0	1.0	1.5	.5	1.0
21	13.5	10.0	12.0	3.0	1.5	2.0	.5	.0	.0	.5	.0	.0
22	13.5	10.5	12.0	2.0	.0	1.0	1.0	.0	. 5	.0	.0	.0
23	12.0	9.0	10.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
24	12.0	9.0	10.5	2.0	.0	.5	.0	.0	.0	.0	.0	.0
25	13.5	10.0	11.5	2.0	.0	.5	.0	.0	.0	.0	.0	.0
26	13.5	11.0	12.0	6.0	2.0	4.0	.0	.0	.0	.0	.0	.0
27	14.0	11.0	12.5	6.5	5.5	6.0	.0	.0	.0	.5	.0	.0
28	13.0	9.5	12.0	7.5	6.0	7.0	.0	.0	.0	1.0	.0	.5
29	10.0	8.0	9.0	6.5	5.0	5.5	.0	.0	.0	.5	.0	.0
30	9.0	7.0	8.0	6.5	5.5	5.5	.0	.0	.0	1.0	.0	1.0
31	9.5	6.5	7.5				.0	.0	.0	2.0	. 5	1.0
MONTH	17.0	6.5	11.7	12.5	.0	6.3	10.0	.0	1.3	2.0	.0	.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
	2 5	1 5	2.5	4.0	2.0	3.0				19.5	13.5	16.0
1 2	3.5	1.5	3.0	4.0 5.5	3.0	4.0				21.0	15.5	18.0
3	2.5	.5	1.5	6.5	5.0	5.5				22.0	17.0	19.0
4	2.0	.0	1.0	5.5	2.5	4.0				22.5	18.0	20.0
5	2.0	.0	. 5	2.5	1.0	1.5	12.0	7.5	9.5	21.0	17.5	19.5
6	2.5	.0	1.0	3.5	1.0	2.0	10.0	9.0	9.5	19.5	15.0	17.0
7	4.0	2.0	2.5		2.0	4.0	9.5	9.0	9.0	18.0	13.0	15.0
8	3.0	1.5	2.0	5.5	3.0	4.5	9.0	8.0	8.5	18.0	13.0	15.0
9	4.5	2.5	3.0	5.5	4.0	4.5	14.5	8.5	11.0	18.5	14.0	16.0
10	4.5	2.5	3.5		3.0	4.0	14.5	12.5	13.5	19.5	14.5	16.5
11	2.5	.5	1.5	5.5	3.0	4.0	13.5	11.0	12.0	20.5	15.5	18.0
12	2.0	.0	1.0		3.0	5.0	11.5	10.0	11.0	20.5	17.0	18.5
13	4.5	2.0	3.0		4.5	5.5	15.5	11.5	13.0	19.5	15.5	17.0
14	4.5	3.5	4.0		5.0	6.0	15.5	11.5	13.5	18.0	13.5	15.5
15	5.5	4.5	5.0	5.5	4.0	5.0	14.5	11.5	13.0	18.0	13.0	15.0
16	5.0	4.5	4.5				13.0	11.0	12.0	17.5	13.0	15.0
17	4.5	2.5	4.0				11.0	9.5	10.0	15.0	14.0	14.5
18	2.5	.5	1.5				10.5	7.5	9.0	14.0	13.5	14.0
19	3.0	.0	1.5				11.5	7.0	9.5	17.5	14.0	15.5
20	4.5	2.0	3.0				11.0	8.5	10.0	16.5	15.0	15.5
21	6.0	3.0	4.5				13.0	10.5	12.0	15.0	13.5	14.0
22	3.0	.0	1.0				17.5	12.5	15.0	15.0	13.5	14.0
23	2.0	.0	.5				20.5	15.5	18.0	17.0	14.5	15.5
24	3.0	.0	1.5				21.0	17.0	19.0	18.5	15.5	16.5
25	3.5	2.0	3.0				17.0	12.5	14.5	17.0	15.5	16.5
26	5.5	3.0	4.0				16.0	10.5	13.0	15.5	14.5	15.0
27	5.5	3.0	4.0				16.5	11.5	14.0	15.5	14.0	14.5
28	5.5	3.0	4.5				17.5	13.5	15.0	17.5	14.5	16.0
29							16.5	11.5	13.5	17.0 16.5	14.5	15.5 15.5
30							17.0	11.5	14.0	16.0	12.5	14.0
31												
MONTH	6.0	.0	2.6				21.0	7.0	12.4	22.5	12.5	16.0

DELAWARE RIVER BASIN

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LEMPE	MAIONE,	WATER (DEG	. 0// 112		00102					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
				25.0	22.5	24.0	23.0	18.5	21.0	24.0	20.0	22.0
1	14.0	12.0	13.0	26.0	22.5		24.5	19.0	21.5	21.5	17.5	19.5
2	14.5	12.0	13.0	23.5	19.0	21.0		20.5	22.0	21.5	17.0	19.0
3	15.5	14.0	14.5	21.5	17.0	19.5	24.5		22.0	22.0	18.5	20.0
4	17.0	13.0	14.5	22.5	19.0	20.5	23.0	21.5		22.0	18.5	20.0
5	18.5	14.5	16.0	22.0	19.5	21.0	25.5	21.0	23.0	22.0	10.5	20.0
6	17.0	15.5	16.0	22.5	18.5	20.5	26.5	22.0	24.0	21.0	16.5	18.5
7	19.0	15.0	16.5	22.5	17.0	20.0	27.5	23.0	25.0	21.5	16.5	19.0
8	19.0	14.5	16.5	20.5	19.5	20.0	28.0	23.0	25.5	22.0	17.5	19.5
9	19.0	14.0	16.5	25.0	19.5	21.5	28.5	22.5	25.5	22.5	18.5	20.5
10	19.0	14.5	16.5	25.0	20.0	22.5	27.5	24.5	25.5	22.5	20.0	21.0
	20.5	16.0	18.0	24.5	20.5	22.0	24.5	21.5	23.0	22.5	18.5	20.5
11		17.0	19.5	23.0	19.0	21.0	22.5	21.0	21.5	21.5	17.0	19.0
12	21.5	18.5	20.5	21.5	18.0	20.0	22.5	21.0	22.0	21.5	16.5	19.0
13				22.0	17.5	19.5	24.5	21.0	22.5	19.5	15.5	17.5
14	22.0	19.5	20.5		17.5	20.0	24.5	20.5	22.5	17.5	13.5	15.5
15	21.0	19.5	20.0	23.0	17.5	20.0	24.5	20.5	22.5			
16	20.0	19.5	19.5	23.0	19.0	21.0	24.5	20.5	22.5	17.5	13.0	15.5
17	22.0	18.5	20.0	24.5	20.0	22.0	24.0	21.5	22.5	18.0	13.0	15.5
18	23.5	18.5	20.5	22.5	20.5	21.5	23.5	20.0	22.0	17.0	14.0	15.5
19	24.0	18.5	21.0	23.5	20.0	21.5	22.0	20.0	21.0	18.0	14.0	16.5
20	24.5	19.5	22.0	24.5	19.0	21.5	24.0	20.5	22.0	17.5	16.5	17.0
		20.0	21.5	24.0	18.0	21.0	23.0	20.0	21.5	19.5	17.0	18.0
21	23.5	20.5	21.5	24.5	19.0	21.5	24.0	19.5	21.5	21.0	17.5	19.0
22	23.5		21.5	25.5	20.0	22.5	21.5	20.0	21.0	20.5	17.5	19.0
23	23.0	20.5	20.5	27.0	22.0	24.0	23.5	19.5	21.5	20.5	18.0	19.0
24	21.5				23.5	25.0	23.5	20.0	22.0	20.0	17.0	18.5
25	24.0	18.0	20.5	27.0	23.5	25.0	23.5	20.0	22.0	20.0		
26	24.5	19.0	21.5	25.0	21.5	23.5	23.5	19.0	21.0	17.0	14.0	15.5
27	26.0	20.0	23.0	23.5	19.0	21.0	24.0	20.5	22.0	15.5	13.0	14.5
28	26.5	21.5	23.5	22.0	18.0	20.0	24.5	20.5	22.5	14.5	12.5	13.5
29	25.5	22.0	24.0	20.5	18.5	19.5	24.5	20.5	22.0	14.5	13.0	13.5
30	26.0	22.5	24.0	22.0	18.5	20.0	23.0	20.0	21.5	13.5	12.0	12.5
31				23.0	18.0	20.5	24.5	21.0	22.5			
MONTH	26.5	12.0	19.2	27.0	17.0	21.3	28.5	18.5	22.4	24.0	12.0	17.8

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA

LOCATION.--Lat 39°58'04", long 75°11'20", Philadelphia County, PA, Hydrologic Unit 02040203, 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 mi2.

PERIOD OF RECORD. --October 1998, revised, 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.

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 September 2001.

INSTRUMENTATION. -- Water-quality monitor (in situ system; measurements recorded every 15 minutes) located inside raw-water water intake of Belmont Pumping Station, Philadelphia, PA.

REMARKS.--These samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA).

For the definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction."

DATE	TIME	SAMP TYP		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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
				(00001)	(00023)	(00301)	(00300)	(00400)	(00033)	(00020)	(00010)	(00300)	(00313)
OCT			20209		445	1000		2				450	
NOV	1050	ENVIRONM	ENTAL	1400	766	103	10.8	7.9	430	16.0	13.4	150	37.8
07	1340	ENVIRONM	ENTAL	757	762	98	10.7	8.0	562	12.5	11.4	200	44.6
JAN	15/201				1000				200	1 2		2.22	
17 17	1050 1051	ENVIRONM SPLIT RE		1550	762	110	14.7	7.9	545	8.5	3.2	160	39.7
FEB	1031	SPD11 KE	SPLICALE										
08	1050	ENVIRONM	ENTAL	4290	774	111	14.9	7.7	541	4.0	3.5	120	31.5
MAR				2									
15	0950	ENVIRONM	ENTAL	5610	761	107	13.2	7.6	342	11.5	6.1	96	25.3
05	1140	ENVIRONM	ENTAL	4350	770	106	12.0	8.0	304	18.0	10.4	100	26.6
MAY													
02	1109	FIELD BL								20 5	10.1	100	.02
02 JUN	1110	ENVIRONM	ENTAL	2160	766	86	8.2	7.9	382	29.5	18.1	120	31.7
06	1230	ENVIRONM	ENTAL	1930	758	111	10.0	7.9	369	20.5	20.2	130	32.7
28	1340	ENVIRONM	ENTAL	2160	762	143	11.5	8.3	351	35.0	26.4	120	30.7
AUG 06	1220	ENVIRONM	CONTRACT.	993	763	122	9.6	7.6	490	35.0	27.5	170	36.0
SEP	1220	ENVIRON	EMIND	333	703	122	9.0	7.0	430	33.0	27.5	1/0	50.0
19	1120	ENVIRONM	ENTAL	500	759	86	7.6	7.8	605	27.5	21.2	190	43.4
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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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 DIS- SOLVED (MG/L AS N) (00608)
	SIUM, DIS- SOLVED (MG/L AS MG)	SIUM, DIS- SOLVED (MG/L AS K)	DIS- SOLVED (MG/L AS NA)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	WATER DIS IT FIELD MG/L AS HCO3	WATER DIS IT FIELD MG/L AS CO3	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	DIS- SOLVED (MG/L AS SO4)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DATE OCT 11	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	WATER DIS IT FIELD MG/L AS CO3	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 11	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 11 NOV 07	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 11 NOV 07 JAN	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3	DIS- SOLVED (MG/L AS SO4) (00945)	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 11 NOV 07	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	DIS- SOLVED (MG/L AS NA) (00930)	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	DIS- SOLVED (MG/L AS SO4) (00945) 61.7	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 11 NOV 07 JAN 17 FEB	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718
OCT 11 NOV 07 JAN 17 17 FEB 08	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7	GEN, AM- MONIA + ORGANIC DISI. (MG/L AS N) (00623) .43 .50 1.1	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129
OCT 11 NOV 07 JAN 17 FEB	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9 39.0	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9 39.0	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.1	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304
OCT 11 NOV 07 JAN 17 17 FEB 08 MAR 15 APR 05	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50	DIS- SOLVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05 MAY 02 JUN	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55 <.008 11.1	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46 <.09 2.61	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8 <.1	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67 90	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7 29.4 <.1 33.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3 29.9	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51 .37 <.10 .40	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57 <.08 .64	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218 .157 <.041 .045
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05 MAY 02 02 JUN 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55 <.008 11.1	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46 <.09 2.61 3.17	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8 <.1 19.5	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55 74	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67 90 94	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7 29.4 <.1 33.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1 E.1 E.1 E.2 E.2	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0 <.1 4.1	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3 29.9 <.1 41.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51 .37 <.10 .40 .39	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57 <.08 .64	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218 .157 <.041 .045 <.040
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05 MAY 02 UN 06 JUN 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55 <.008 11.1	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46 <.09 2.61	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8 <.1	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55	BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67 90	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7 29.4 <.1 33.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1 E.1	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3 29.9	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51 .37 <.10 .40	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57 <.08 .64	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218 .157 <.041 .045
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05 MAY 02 02 JUN 06	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55 <.008 11.1	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46 <.09 2.61 3.17	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8 <.1 19.5	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55 74	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67 90 94	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7 29.4 <.1 33.9	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1 E.1 E.1 E.2 E.2	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0 <.1 4.1	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3 29.9 <.1 41.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51 .37 <.10 .40 .39	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57 <.08 .64	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218 .157 <.041 .045 <.040
OCT 11 NOV 07 JAN 17 FEB 08 MAR 15 APR 05 MAY 02 JUN 06 28 AUG	SIUM, DIS- SOLVED (MG/L AS MG) (00925) 14.3 20.6 14.8 10.3 8.09 8.55 <.008 11.1 12.0 11.7	SIUM, DIS- SOLVED (MG/L AS K) (00935) 4.04 4.72 4.06 2.81 2.50 2.46 <.09 2.61 3.17 3.33	DIS- SOLIVED (MG/L AS NA) (00930) 23.6 33.9 39.0 51.9 22.7 16.8 <.1 19.5	LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) 95 98 82 60 53 55 74 77 69	BONATE WATER WATER DIS IT FIELD MG/L AS HCO3 (00453) 116 120 101 73 65 67 90 94 81	BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	RIDE, DIS- SOLVED (MG/L AS CL) (00940) 33.2 47.5 62.3 95.5 43.7 29.4 <.1 33.9 33.2 28.6	RIDE, DIS- SOLVED (MG/L AS F) (00950) .2 .2 E.1 E.1 E.1 E.1 E.2 E.2	DIS- SOLVED (MG/L AS SIO2) (00955) 8.3 3.8 9.8 8.2 6.8 7.0 <.1 4.1 8.6 8.2	DIS- SOLVED (MG/L AS SO4) (00945) 61.7 90.4 68.7 33.7 28.3 29.9 <.1 41.6	GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623) .43 .50 1.167 .51 .37 <.10 .40 .39 .31	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .60 .57 1.271 .71 .57 <.08 .64 .51 .68	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) .109 .129 .718304 .218 .157 <.041 .045 <.040 <.040

E Estimated value.

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

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	NITRO- GEN,	NITRO- GEN DIS-	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN, ORGANIC	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS ORTHO, DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE
DATE	TOTAL (MG/L AS N) (00600)	SOLVED (MG/L AS N) (00602)	SOLVED (MG/L AS N) (00631)	SOLVED (MG/L AS N) (00613)	TOTAL (MG/L AS N) (00605)	SUSP (MG/L AS N) (49570)	SOLVED (MG/L AS P) (00666)	SOLVED (MG/L AS P) (00671)	TOTAL (MG/L AS P) (00665)	TOTAL (MG/L AS C) (00694)	TOTAL (MG/L AS C) (00688)	SOLVED (MG/L AS C) (00681)	TOTAL (MG/L AS C) (00689)
OCT													
NOV	3.5	3.4	2.93	.031	.49		.230	.216	.237			3.1	.3
07 JAN	3.8	3.7	3.23	.041	.44		.356	.305	.390			3.3	.3
17 17	5.0	4.9	3.77	.081	.50	.038	.263	.255	.324	.6 .5		2.6	
FEB 08	3.8	3.8	3.09	.052	.40	E.028	.123	.115	.156	E.6		2.7	
MAR 15	3.1	2.9						.063		1.0	.1	3.1	.9
APR			2.43	.032	.49	.175	.073		.129				
05 MAY	3.4	3.2	2.79	.036	.42	.114	.078	.065	.106	.7	<.1	1.9	.7
02	3.3	3.1	<.047 2.69	<.006 .065	.60	.171	<.006 .133	<.018	<.004	1.1	<.1	2.4	1.1
JUN													
28	3.1	3.0 2.8	2.57	.058		.236	.176	.114	.202	1.2	<.1 <.1	3.2	1.2
06 SEP	3.7	3.6	3.12	.036	.56	.230	.332	.315	.390	1.1	<.1	2.7	1.1
19	4.6	4.5	4.03	.038	.43	<.022	.474	.453	.491	.3	<.1	3.4	.3
			SOLIDS, RESIDUE AT 180 DEG. C DIS-	SOLIDS, SUM OF CONSTI- TUENTS, DIS-	TUR- BID- ITY FIELD WATER	BORON, DIS- SOLVED	IRON, DIS- SOLVED	MANGA- NESE, DIS- SOLVED	SEDI- MENT, DIS- CHARGE, SUS-	SEDI- MENT, SUS-			
	DA	ATE	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	UNFL/TRD (NTU) (61028)	(UG/L AS B) (01020)	(UG/L AS FE) (01046)	(UG/L AS MN) (01056)	PENDED (T/DAY) (80155)	PENDED (MG/L) (80154)			
	OCT		SOLVED (MG/L)	SOLVED (MG/L)	UNFLIRD (NTU)	(UG/L AS B)	(UG/L AS FE)	(UG/L AS MN)	PENDED (T/DAY)	PENDED (MG/L)			
	OCT 1 NOV		SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	UNFLITED (NTU) (61028)	(UG/L AS B) (01020)	(UG/L AS FE) (01046)	(UG/L AS MN) (01056)	PENDED (T/DAY) (80155)	PENDED (MG/L) (80154)			
	OCT 1 NOW 0	11 7	SOLVED (MG/L) (70300) 257 335	SOLVED (MG/L) (70301) 254 320	UNFL/TRD (NTU) (61028) <2.0	(UG/L AS B) (01020) 75	(UG/L AS FE) (01046) 30 50	(UG/L AS MN) (01056) 50.4 48.0	PENDED (T/DAY) (80155) 18 4.7	PENDED (MG/L) (80154) 5			
	OCT 1 NOV 0 JAN 1	11 7 107 1	SOLVED (MG/L) (70300)	SOLVED (MG/L) (70301)	UNFLITED (NTU) (61028) <2.0	(UG/L AS B) (01020)	(UG/L AS FE) (01046)	(UG/L AS MN) (01056) 50.4	PENDED (T/DAY) (80155)	PENDED (MG/L) (80154)			
	OCT 1 NOV 0 JAN 1	7 7 7 17 1.7 18	SOLVED (MG/L) (70300) 257 335	SOLVED (MG/L) (70301) 254 320 307	UNFLTRD (NTU) (61028) <2.0 2.0 5.5	(UG/L AS B) (01020) 75 99	(UG/L AS FE) (01046) 30 50	(UG/L AS MN) (01056) 50.4 48.0	PENDED (T/DAY) (80155) 18 4.7	PENDED (MG/L) (80154) 5 2			
	OCT 1 NOV C JAN 1 FEE C MAR	7 77 17 17 18	SOLVED (MG/L) (70300) 257 335 319	SOLVED (MG/L) (70301) 254 320 307	UNFL/TRD (NTU) (61028) <2.0 2.0 5.5	(UG/L AS B) (01020) 75 99 75	(UG/L AS FE) (01046) 30 50 40	(UG/L AS MN) (01056) 50.4 48.0	PENDED (T/DAY) (80155) 18 4.7	PENDED (MG/L) (80154) 5 2 3			
	OCT 1 NOV 0 JAN 1 FEE 0 MAR 1 APF	7 7 7 7 7 7 7 7 7 8 8 8 8 8 8	SOLVED (MG/L) (70300) 257 335 319 295	SOLVED (MG/L) (70301) 254 320 307 284	UNFLTRD (NTU) (61028) <2.0 2.0 5.5 10	(UG/L AS B) (01020) 75 99 75 29	(UG/L AS FE) (01046) 30 50 40 	(UG/L AS MN) (01056) 50.4 48.0 132 71.8	PENDED (T/DAY) (80155) 18 4.7 12 92	PENDED (MG/L) (80154) 5 2 3 8			
	OCT 1 NOV C JAN 1 1 FEE C MAR 1 APR C MAY	7	SOLVED (MG/L) (70300) 257 335 319 295	SOLVED (MG/L) (70301) 254 320 307 284 181	UNFI/TRD (NTU) (61028) <2.0 2.0 5.5 10 25	(UG/L AS B) (01020) 75 99 75 29	(UG/L AS FE) (01046) 30 50 40 30	(UG/L AS MN) (01056) 50.4 48.0 132 71.8 72.4	PENDED (T/DAY) (80155) 18 4.7 12 92 206	PENDED (MG/L) (80154) 5 2 3 8 14			
	OCT NOO JAN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	SOLVED (MG/L) (70300) 257 335 319 295 195 175 <10	SOLVED (MG/L) (70301) 254 320 307 284 181 167	UNFI/TRD (NTU) (61028) <2.0 2.0 5.5 10 25 7.0	(UG/L AS B) (01020) 75 99 75 29 33 39 <13	(UG/L AS FE) (01046) 30 50 40 30 40 30 <10	(UG/L AS MN) (01056) 50.4 48.0 132 71.8 72.4 69.5	PENDED (T/DAY) (80155) 18 4.7 12 92 206 51	PENDED (MG/L) (80154) 5 2 3 8 14 4			
	OCTI NOV JAN 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77 17 17 18 18 19	SOLVED (MG/L) (70300) 257 335 319 295 195 175 <10 228 218	SOLVED (MG/L) (70301) 254 320 307 284 181 167 201 207	UNFI/TRD (NTU) (61028) <2.0 2.0 5.5 10 25 7.0 6.0 11	(UG/L AS B) (01020) 75 99 75 29 33 39 <13 49	(UG/L AS FE) (01046) 30 50 40 30 40 30 <10 40	(UG/L AS MN) (01056) 50.4 48.0 132 71.8 72.4 69.5 <3.2 29.5 36.9	PENDED (T/DAY) (80155) 18 4.7 12 92 206 51 33 30	PENDED (MG/L) (80154) 5 2 3 8 14 4 <1 6			

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

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- 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-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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 11	1050	<.03	<.04	<.04	<7	<.3	<.2	E.04	E.03	<.03	<.05	<.03	<.03
DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT 11	E.03	<.06	<.07	<.03	<.2	.14	<.04	E.05	<.3	<.2	<.1	E.01	<.06
DATE	TET	VER RE	RT- TYL METH HER CHI UNF RII EC TOT (L) (UG/	CO- CHI DE RID PAL TOTA 'L) (UG/	E XYLE O- WAT E UNFL L RE L) (UG	CA- CHLC CNE TOLK CER WAT TRD WHO CC TOT C/L) (UG/	DRO- O- DENE XYLE TER WAS DLE WHO TAL TOS ('L) (UG/	ENE TOLU	PYL- TETE JENE CHLO TER ETHY OLE ENE C TOT (L) (UG/	ORO- TL- ZAL TOLU ZAL TOT 'L) (UG/	L) (UC	ORO- CHLO CL- FLUC VE METE CAL TOT G/L) (UG/	DRO- DRO- LANE L'AL
ОСТ 11	<2		5 <.	.2 <.	2 E.1	.0 <.0)3 E.(05 <.0)7 M	f E.1	.0 E.C)2 <.0	19

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 FLIRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITD 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)
OCT													
11	1050	<.004	<.002	<.005	.094	<.010	E.010	<.020	<.005	<.018	<.003	E.071	.013
FEB				1.005			2.010			******		2.0.2	
08	1050	<.004	<.002	<.005	E.004	<.010	E.040	<.020	<.005	<.018	<.003	E.002	<.005
APR													
05	1140	<.004	<.002	<.005	.025	<.010	<.041	<.020	<.005	<.018	<.003	E.028	<.005
MAY													
02	1110	<.004	<.002	<.005	.032	<.010	<.041	<.050	<.005	<.018	<.003	E.040	<.005
JUN													
06	1230	.018	.004	<.005	.440	<.010	<.041	<.020	<.005	E.004	<.003	E.088	.009
28	1340	.012	.006	<.005	.330	<.010	<.041	<.020	E.001	<.018	<.003	E.027	.008
AUG													
06	1220	<.004	<.002	<.005	.122	<.010	E.003	<.020	<.005	<.018	<.003	E.046	.012
SEP													
19	1120	<.004	<.002	<.005	.062	<.010	<.041	<.020	<.005	<.018	<.003	E.029	.007

E Estimated value.

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

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLIRD 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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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													
11	<.005	<.002	< . 004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003	<.010	<.019
FEB					11.0-1								4.5
08	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015
APR						100		1000000					
05	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006	<.002	<.007	<.003	<.010	<.015
MAY													
02	<.005	<.008	<.004	<.035	<.027	<.050	.015	<.006	<.002	<.007	<.003	<.010	E.014
JUN													
06	<.005	<.002	<.004	<.035	<.027	<.050	.166	<.006	<.002	<.007	<.003	<.010	.019
28	<.005	<.002	<.004	<.035	<.027	<.050	.163	<.006	<.002	<.007	<.003	<.010	<.020
AUG													
06	<.005	<.002	<.004	<.035	<.027	<.050	.036	<.006	<.002	<.007	<.003	<.010	.052
SEP													
19	<.005	<.002	<.004	<.035	<.027	<.050	.017	<.006	<.002	<.007	<.003	<.010	.054

DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLITD 0.7 U GF, REC (UG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (UG/L) (04022)	THIO- BENCARB WATER FLITRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT						
11	.028	E.010	<.034		<.005	<.009
FEB						
08	E.010	E.005	<.034		<.005	<.009
APR						
05	<.011	<.016	<.034		<.005	<.009
MAY						
02	.025	<.016	<.034		<.005	<.009
JUN						
06	.056	E.013	<.034		<.005	<.009
28	.055	E.008	<.034	E.003	<.005	<.009
AUG						
06	.066	E.013	<.034	E.031	<.005	<.009
SEP						
19	.020	<.016	<.034		<.005	<.009

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

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LEME	mi one,	WATER (DEG.	. C), WA	TER TEAR	OCTOBER	2000 10 1				
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NC	OVEMBER			DECEMBER			JANUARY	
1	17.5	16.5	17.0	13.0	12.0	12.0	7.5	7.0	7.5 6.5	.5	.5	.5
2	18.5	16.5	17.5	12.5	11.5	12.0	7.0 6.0	6.0 5.5	5.5	.5	.5	.5
3	19.0 19.5	17.0	18.0	13.0 12.5	11.0	12.0 12.0	5.5	4.5	5.0	.5	.5	.5
5	20.0	18.0 19.0	19.5	12.0	11.5	12.0	5.0	4.0	4.5	.5	.5	.5
•									4. 2			
6	20.0	19.0	19.5	12.0	11.0	11.5	4.5	3.5	4.0	1.0	1.0	1.0
7	19.5	18.0	19.0	12.0	11.0	11.5	3.5	3.0	3.5	1.5	1.0	1.5
8	18.0	17.0	17.5	12.0	11.0	11.5 12.0	3.0	3.0 2.5	3.0	2.0	1.0	1.5
9 10	17.0 15.5	15.5 13.5	16.0 14.5	12.0 12.5	11.5	12.5	3.0	2.5	3.0	1.5	1.0	1.0
10	15.5	13.5	14.5	12.5	14.0	14.5		2-1-2				
11				13.0	12.5	13.0	4.5	3.0	3.5	1.5	1.0	1.0
12	16.5	13.0	13.5	12.5	12.0	12.5	5.5	4.5	5.0	2.0	1.5	2.0
13	14.5	13.5	14.0	13.0	12.5	12.5	4.5	4.0	4.5	3.0	2.0	2.5 3.0
14	15.5	13.5	14.5	12.5	12.0	12.5 11.0	5.0 5.5	4.0	4.5	4.0	3.5	3.5
15	16.5	14.5	15.5	12.0	10.5	11.0	3.3		•			
16	16.0	15.5	16.0	10.5	10.0	10.0	4.5	4.0	4.0	4.0	3.0	3.5
17	16.0	15.5	16.0	10.5	10.0	10.0	10.0	4.5	7.5	4.0	3.0	3.5
18	16.0	15.5	16.0	10.0	9.0	9.5	9.5	5.5	7.5	3.5	3.0	3.0
19	16.0	15.5	15.5	9.5	8.5	9.0	5.5	4.0	4.5	3.5	3.0	3.5 2.5
20	15.5	14.5	15.0	8.5	8.0	8.0	4.0	3.0	3.5	3.5	1.5	2.5
	16.0	15.0	15.5	8.0	7.0	7.5	3.0	3.0	3.0	2.0	1.5	2.0
21 22	16.5	15.5	16.0	7.0	5.5	6.0	3.0		3.0	2.0	1.0	1.5
23	16.0	14.5	15.5	5.5	4.5	5.0	2.0	1.0	1.5	2.0	1.0	1.5
24	15.5	15.0	15.0	5.0	4.5	4.5	1.5	1.0	1.0	2.0	1.0	1.5
25	16.5	14.5	15.5	4.5	3.5	4.0	1.0	.5	.5	3.0	1.5	2.0
100							-	•	.5	2.5	1.5	2.0
26	16.5	15.0	15.5	6.0	4.0 5.5	5.0 6.0	.5	.0	.5	3.0	2.0	2.5
27 28	16.5 16.0	15.0 15.0	15.5	7.0	6.0	6.5	.5	.5	.5	3.5	2.5	3.0
29	15.0	13.5	14.0	7.5	6.0	7.0	.5	.0	.5	3.5	2.5	3.0
30	13.5	12.5	13.0	7.5	7.0	7.5	.5	.5	.5	3.5	2.5	3.0
31	13.0	12.0	12.5				.5	.5	.5	4.0	2.5	3.5
MONTH	20.0	12.0	15.9	13.0	3.5	9.5	10.0	.0	3.4	4.0	.5	2.0
				202.75	20727	MERNY	MAY	MTN	MEAN	MAX	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX			MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN			MARCH			APRIL			MAY	
1	3.5	FEBRUARY	3.0	6.5	MARCH 5.5	6.0	6.5	APRIL 6.0	6.5		MAY	
1 2	3.5 4.5	2.5 3.5	3.0 4.0	6.5 7.0	MARCH 5.5 6.0	6.0 6.5	6.5 7.0	APRIL 6.0 6.5	6.5 7.0		MAY	===
1 2 3	3.5 4.5 4.0	2.5 3.5 3.5	3.0 4.0 4.0	6.5 7.0 7.0	MARCH 5.5 6.0 6.0	6.0 6.5 6.5	6.5 7.0 8.5	APRIL 6.0 6.5 7.0	6.5 7.0 7.5		MAY	
1 2 3 4	3.5 4.5 4.0 3.5	2.5 3.5 3.5 3.0	3.0 4.0 4.0 3.5	6.5 7.0 7.0 7.0	5.5 6.0 6.0 6.0	6.0 6.5 6.5	6.5 7.0	APRIL 6.0 6.5 7.0	6.5 7.0		MAY	
1 2 3	3.5 4.5 4.0	2.5 3.5 3.5	3.0 4.0 4.0	6.5 7.0 7.0	MARCH 5.5 6.0 6.0	6.0 6.5 6.5 6.5 5.5	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0	===	MAY	=======================================
1 2 3 4 5	3.5 4.5 4.0 3.5 3.5	2.5 3.5 3.5 3.0 2.0	3.0 4.0 4.0 3.5 3.0	6.5 7.0 7.0 7.0 6.0	5.5 6.0 6.0 6.0 4.5	6.0 6.5 6.5 6.5 5.5	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0	=======================================	MAY	=======================================
1 2 3 4 5	3.5 4.5 4.0 3.5 3.5 3.0	2.5 3.5 3.5 3.0 2.0 2.0	3.0 4.0 4.0 3.5 3.0 2.5 2.5	6.5 7.0 7.0 7.0 6.0	5.5 6.0 6.0 6.0 4.5 3.5 3.5	6.0 6.5 6.5 6.5 5.5	6.5 7.0 8.5 10.0	6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0	===	MAY	=======================================
1 2 3 4 5	3.5 4.5 4.0 3.5 3.5 3.0 3.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0	3.0 4.0 4.0 3.5 3.0 2.5 2.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5	5.5 6.0 6.0 6.0 4.5 3.5 3.5	6.0 6.5 6.5 6.5 5.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0	=======================================	MAY	=======================================
1 2 3 4 5 6 7 8 9	3.5 4.5 4.0 3.5 3.5 3.0 3.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5	6.5 7.0 7.0 6.0 4.5 5.5 6.0	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.5	6.5 7.0 8.5 10.0	6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0		MAY	
1 2 3 4 5	3.5 4.5 4.0 3.5 3.5 3.0 3.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0	3.0 4.0 4.0 3.5 3.0 2.5 2.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5	5.5 6.0 6.0 6.0 4.5 3.5 3.5	6.0 6.5 6.5 6.5 5.5	6.5 7.0 8.5 10.0 	6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0		MAY	
1 2 3 4 5 6 7 8 9	3.5 4.5 4.0 3.5 3.5 3.0 3.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5	6.5 7.0 7.0 6.0 4.5 5.5 6.0	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.5	6.5 7.0 8.5 10.0 	6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10	3.5 4.5 4.0 3.5 3.5 3.0 3.5 4.0 6.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5	MARCH 5.5 6.0 6.0 6.0 4.5 3.5 3.5 3.5 5.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.0	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10	3.5 4.5 4.5 3.5 3.5 4.0 5.0 6.0	2.5 3.5 3.5 3.0 2.0 2.0 3.0 4.0 5.0	3.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 3.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.6	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10	3.5 4.5 4.0 3.5 3.5 3.5 4.0 6.0 5.0 4.0 4.5 5.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.0	3.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 3.5 4.0	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.5 6.0 5.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10	3.5 4.5 4.5 3.5 3.5 4.0 5.0 6.0	2.5 3.5 3.5 3.0 2.0 2.0 3.0 4.0 5.0	3.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 3.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.6	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10	3.5 4.5 4.0 3.5 3.5 3.5 4.0 6.0 5.0 4.0 4.5 5.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.0	3.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 3.5 4.0	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.5 6.0 5.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3.5 4.5 4.5 3.5 3.5 4.0 5.0 5.0 5.0 5.5	2.5 3.5 3.5 3.0 2.0 2.0 3.0 4.0 5.0 3.5 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 4.5 5.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.5 6.0 5.5	6.0 6.5 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3.5 4.5 4.5 3.5 3.5 4.0 5.0 5.0 5.5 5.5 5.5 5.5	2.5 3.5 3.5 3.0 2.0 2.0 3.0 4.0 5.0 3.5 4.0 5.0 5.5 5.5 6.5	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 4.5 5.5 5.5 5.5 5.5	6.5 7.0 7.0 7.0 6.0 4.5 5.5 6.0 7.5 7.5 7.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 5.5 6.0 5.5 6.0 6.5 6.0	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 6.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	3.5 4.5 3.5 3.5 3.5 4.0 5.0 6.0 5.0 4.5 5.5 5.5 6.0 5.5	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 3.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.0 4.5 5.5 5.5 4.5 4.5	6.5 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5 7.5 7.5 7.0 6.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 6.0 6.0 6.5 6.0	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 7.0	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	3.5 4.5 4.5 3.5 3.5 4.0 5.0 6.0 5.0 4.5 5.5 5.5 6.0 4.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 3.0 4.0 5.0 3.5 4.0 5.0 5.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 4.5 5.5 5.5 5.5 5.5 4.0 4.0 4.5	6.5 7.0 7.0 6.0 4.5 5.5 6.0 7.5 7.5 7.5 7.5 7.5 8.0	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 6.0 6.5 6.0 6.5 6.5 6.0	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 7.0 7.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	3.5 4.5 3.5 3.5 3.5 4.0 5.0 6.0 5.0 4.5 5.5 5.5 6.0 5.5 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 5.5 5.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.0 4.5 5.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	6.5 7.0 7.0 6.0 4.5 5.5 6.5 7.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 6.0 6.0 6.5 6.0 6.5 6.7 7.5	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 7.0 7.5	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	3.5 4.5 3.5 3.5 3.5 4.0 6.0 5.0 4.0 4.5 5.5 5.5 6.0 5.0 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 4.0 5.0	3.0 4.0 4.0 4.0 3.5 3.0 2.5 5.5 4.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	6.5 7.0 7.0 6.0 4.5 5.5 6.0 7.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 5.5 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	6.0 6.5 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 7.0 7.5	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	3.5 4.5 4.5 3.5 3.5 3.5 4.0 5.0 6.0 4.5 5.5 5.5 5.5 4.0 4.5 5.5 4.0 4.5 5.0 4.0 4.5 5.0 4.0 5.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 4.0 5.0 4.0 3.5 3.5	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.6 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	6.5 7.0 7.0 6.0 4.5 5.5 6.0 6.5 7.5 7.5 7.5 7.5 8.0 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 6.0 5.5 6.0 6.5 6.0 6.5 6.5 6.0 6.5 6.5 6.0	6.0 6.5 6.5 5.5 4.0 5.5 6.0 6.5 6.5 7.0 7.5 7.5 7.5 7.5 7.5	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	3.5 4.5 3.5 3.5 3.5 4.0 6.0 5.0 4.0 4.5 5.5 5.5 6.0 5.0 4.0	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 4.0 5.0	3.0 4.0 4.0 4.0 3.5 3.0 2.5 5.5 4.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	6.5 7.0 7.0 6.0 4.5 5.5 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 5.5 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	6.0 6.5 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 6.5 7.0 7.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	3.5 4.5 4.5 3.5 3.5 3.5 4.0 5.0 6.0 4.5 5.5 5.5 4.0 4.5 5.5 4.0 4.5 5.0 4.5 4.0 4.5 5.0 4.5 5.0 4.0 4.5 6.0 4.5 6.0 4.5 6.0 4.5 6.0 6.0 4.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 4.0 3.5 3.5 4.0 3.5 3.5	3.0 4.0 4.0 3.5 3.0 2.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.5 5.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	6.5 7.0 7.0 6.0 4.5 5.5 6.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 6.0 6.5 6.0 6.5 6.5 6.0 6.5 6.5 6.0 6.5	6.0 6.5 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 7.0 7.5 7.0 7.0	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	3.5 4.0 3.5 3.5 3.0 3.5 4.0 5.0 6.0 5.0 4.5 5.5 5.5 6.0 5.5 4.0 4.5 5.5 4.0 4.0 4.0 5.0 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 5.5 5.0 4.0 3.5 3.5	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 4.5 5.5 4.5 5.5 4.5 5.5 5	6.5 7.0 7.0 6.0 4.5 5.5 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 6.0 6.5 6.5 6.0 6.5 6.5 7.5 6.0 7.0	6.0 6.5 6.5 5.5 4.0 4.5 5.5 6.0 6.5 6.5 7.0 7.5 7.0 7.5	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	3.5 4.0 3.5 3.5 3.0 3.5 4.0 5.0 6.0 5.0 4.5 5.5 5.5 4.0 4.0 4.5 5.5 6.0 5.0 6.0 5.0 6.0 5.0 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 4.0 5.0 4.0 5.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.5 5.5 4.5 4.5 4.5 4.5 4.5 4	6.5 7.0 7.0 6.0 4.5 5.5 6.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 6.5 6.0 6.5 6.0 6.5 6.5 6.5 6.5 6.6 6.5 6.6 6.5 6.6 6.6	6.55 6.55 6.55 6.55 6.65 6.55 6.65 6.65	6.5 7.0 8.5 10.0 	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3.5 4.0 3.5 3.5 3.0 3.5 4.0 5.0 6.0 5.0 5.5 5.5 5.5 4.0 4.5 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 5.5 5.0 4.0 3.5 3.5 4.0 3.5 5.0 4.0 3.5 5.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 4.5 4.5 5.5 4.5 4	6.5 7.0 7.0 6.0 4.5 5.6 7.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.5 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	6.5556.0 05.556.0 6.5577.5 5.05.00 6.555.5 6.55 6.55 6.55 6.55 6	6.5 7.00	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28 29 30	3.5 4.0 3.5 3.5 3.5 4.0 5.0 6.0 5.5 5.5 5.5 6.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 6.0 6.0 6.0	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 4.0 5.0 4.0 5.0 5.5 5.0 4.0 3.5 3.5 4.0 3.0 3.5 4.0 3.0 3.5	3.0 4.0 4.0 3.5 3.5 4.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	6.5 7.0 7.0 4.5 5.5 6.0 7.5 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 5.5 6.0 6.0 4.5 3.5 4.5 5.5 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	6.5555 6.5550 055550 5.5050 5.5550 6.	6.5 7.0 8.5 10.0	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	3.5 4.0 3.5 3.5 3.0 3.5 4.0 5.0 6.0 5.0 5.5 5.5 5.5 4.0 4.5 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	2.5 3.5 3.0 2.0 2.0 2.0 3.0 4.0 5.0 3.5 3.5 4.0 5.0 5.5 5.0 4.0 3.5 3.5 4.0 3.5 5.0 4.0 3.5 5.0 4.0 5.0	3.0 4.0 4.0 3.5 3.0 2.5 4.5 5.5 4.5 5.5 4.5 5.5 4.5 4.5 4.5 5.5 4.5 4	6.5 7.0 7.0 6.0 4.5 5.6 7.0 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MARCH 5.5 6.0 6.0 4.5 3.5 3.5 4.5 6.0 5.5 5.5 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	6.5556.0 05.556.0 6.5577.5 5.05.00 6.555.5 6.55 6.55 6.55 6.55 6	6.5 7.00	APRIL 6.0 6.5 7.0 8.0	6.5 7.0 7.5 9.0 		MAY	

DELAWARE RIVER BASIN

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	iR .
1				28.0	27.5	28.0	25.0	23.0	24.0	26.5	25.5	26.0
2				28.0	25.5	26.5	25.5	23.0	24.0	25.5	24.0	25.0
3				25.5	23.5	24.0	25.5	23.5	24.5	25.5	23.5	24.5
4				24.5	23.5	24.0	25.5	24.5	25.0	25.0	24.5	24.5
5				24.0	23.5	24.0	27.0	24.5	25.5	25.0	24.0	24.5
6				24.0	23.0	23.5	28.0	25.0	26.5	25.0	23.5	24.0
7	22.0	20.5	21.5	24.5	23.0	23.5	29.0	27.0	28.0	25.0	23.5	24.0
8	23.0	21.0	22.0	24.5	23.0	23.5	29.5	27.5	28.5	24.5	23.5	24.0
9	23.0	22.0	22.5	25.5	24.0	24.5	30.0	28.0	29.0	25.0	24.0	24.5
10	23.5	22.5	23.0	25.5	24.5	25.0	29.5	28.5	29.0	25.0	24.0	24.5
11	24.0	22.5	23.5	25.5	25.0	25.5	29.0	28.0	28.5	25.0	24.0	24.5
12	25.5	23.0	24.0	25.5	25.0	25.5	28.0	27.0	27.5	24.5	23.5	24.0
13	26.5	24.0	25.0	25.5	24.5	25.0	27.0	23.5	24.5	24.5	23.5	24.0
14	26.5	25.0	25.5	25.5	24.0	24.5	25.5	23.5	24.5	24.0	22.0	22.5
15	27.0	25.5	26.5	25.5	23.5	24.5	27.0	24.5	25.0	22.0	21.0	21.0
16	26.5	24.5	26.0	26.0	24.0	25.0	26.0	24.5	25.5	22.5	20.5	21.0
17	25.5	23.0	23.5	26.5	24.0	25.0	26.0	25.0	25.5	22.5	20.5	21.0
18	24.5	22.5	23.5	25.5	24.0	25.0	27.0	25.0	26.0	21.5	20.5	21.0
19	25.5	23.5	24.5	25.5	24.0	24.5	26.5	25.5	26.0	21.5	20.5	21.0
20	27.0	24.5	25.5	26.0	24.0	25.0	27.0	25.5	26.0	21.0	20.5	20.5
21	26.5	25.5	26.0	26.5	24.0	25.5	27.0	25.5	26.0	21.0	20.0	20.5
22	26.5	25.5	26.0	26.5	24.5	25.5	27.0	25.5	26.0	22.5	21.0	21.5
23	26.5	22.0	25.0	27.0	25.0	26.0	26.0	25.5	25.5	22.5	21.5	22.0
24	23.0	21.5	22.5	27.5	25.5	26.5	26.0	25.0	25.5	22.5	22.0	22.0
25	24.0	22.5	23.0	28.5	26.5	27.5	26.5	25.0	25.5	22.5	21.5	22.0
26	24.5	23.0	23.5	28.0	26.5	27.5	26.0	25.0	25.5	21.5	19.5	21.0
27	26.0	24.0	25.0	27.0	25.0	26.5	26.0	25.0	25.5	19.5	18.0	18.5
28	27.0	25.5	26.0	25.0	23.5	24.0	27.0	25.5	26.0	18.0	17.0	17.5
29	28.0	26.0	27.0	23.5	22.5	23.0	27.5	25.5	26.5	17.0	16.5	16.5
30	28.5	27.0	27.5	23.5	22.5	22.5	26.0	25.5	26.0	16.5	15.0	15.5
31				24.5	22.0	23.0	26.5	25.5	26.0			
MONTH	28.5	20.5	24.5	28.5	22.0	25.0	30.0	23.0	26.0	26.5	15.0	22.1
YEAR	30.0	.0	13.6									

01475090 EDWARDS RUN AT JEFFERSON, NJ

LOCATION.--Lat 39°44'48", long 75°11'43", Gloucester County, Hydrologic Unit 02040206, at bridge on Pitman-Jefferson Road, 1.0 mi southeast of Jefferson, 1.6 mi northeast of Mullica Hill, and 1.3 mi upstream of confluence with Myers Creek.

DRAINAGE AREA. -- 2.92 mi2.

PERIOD OF RECORD. -- November 2000 to August 2001.

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-QUALITY	DATA.	WATER	VEAR	OCTOBER	2000	TO	SEPTEMBER	2001

DATE	TIME	TUR- BID- ITY FIELD WATER UNFL/TRD	UV ABSORB- ANCE 254 NM, WTR FLT (UNITS	UV ABSORB- ANCE 280 NM, WTR FLT (UNITS	BARO- METRIC PRES- SURE (MM OF	OXYGEN, DIS- SOLVED (PER- CENT SATUR-	OXYGEN, DIS- SOLVED	PH WATER WHOLE FIELD (STAND- ARD	SPE- CIFIC CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	HARD- NESS TOTAL (MG/L AS	CALCIUM DIS- SOLVED (MG/L
ZALIS .	11111	(NTU) (61028)	/CM) (50624)	/CM) (61726)	HG) (00025)	ATION) (00301)	(MG/L) (00300)	UNITS) (00400)	(US/CM) (00095)	(DEG C) (00020)	(DEG C) (00010)	CACO3) (00900)	AS CA) (00915)
NOV													
28 FEB	1000		.191	.151	760	68	8.1	6.9	193		7.5	61	16.4
22 MAY	1000		.112	.087	770	88	12.7	7.4	201	-2.0	1.0	64	17.2
23 AUG	1000	22	.275	.216	754	87	8.7	7.1	187	17.0	15.0	57	15.3
23	1100	4.4	.148	.116	760	84	7.5	7.5	192	23.0	20.5	66	17.8
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN,
	SOLVED	SOLVED	SOLVED	LAB (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG. C	TUENTS, DIS-	SOLVED	DIS.	AMMONIA TOTAL
DATE	(MG/L	(MG/L	(MG/L	AS.	(MG/L	(MG/L	AS	(MG/L	SOLVED	SOLVED	(MG/L	(MG/L	(MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
28 FEB	4.88	8.01	6.8	22	17.3	.2	11.3	28.6	126	112	.170	.63	.21
22 MAY	5.19	5.90	6.4	15	16.2	.2	9.5	34.1	129	116	.150	.34	.14
AUG	4.67	8.15	7.7	24	15.2	. 2	8.2	28.5	130	108	.420	1.1	.46
23	5.32	6.65	7.9	36	21.4	.2	10.0	22.2	137	121	<.030	.31	.05
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
28 FEB	.80	1.20	.007	1.8	2.0	.124	.060	.152	1.0	<.1	5.6	1.0	2.0
22 MAY	.54	2.89	.006	3.2	3.4	.139	.025	.104	1.2	<.1	3.0	1.2	E1.5
23 AUG	1.4	1.15	.017	2.3	2.5	.266	.182	.382	2.0	<.1	7.4	2.0	3.1
23	.37	1.88	.011	2.2	2.3	.050	.056	.119	.3	<.1	3.2	.3	<1.0

	CHLORO-		RESIDUE	
	PHYLL A		TOTAL	
	FLUORO-	BORON,	AT 105	
	METRIC	DIS-	DEG. C,	
	METHOD	SOLVED	SUS-	
DATE	CORR.	(UG/L	PENDED	
	(UG/L)	AS B)	(MG/L)	
	(32209)	(01020)	(00530)	
NOV				
28		30	<1	
FEB				
22		16	9	
MAY				
23	15.8	35	17	
AUG				
23	15.5	40	2	

E Estimated value.

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

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

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)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
AUG	1100												
23 23	1100	6.60	120	.3	450	4.1	<.2	E1 	50.0	<.06	34	.12	<1
DATE	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)	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)
AUG													
23	.9	710	<1	16	<.01	2	<.4	<.05	6	<1	1.8	11	.8
DATE	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, SEDIMT, BED MA- TERIAL 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)	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)
AUG 23					22				.22				
23	5	5200	4.7	9.5	.01	.4	<1	10	<50	<50	<50	<50	<50
DATE	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)	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, EM 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)
AUG													
23	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
DATE	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- 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. FALL DIAM. % FINER THAN .004 MM (80157)
AUG													
23	<50	<50	<50	<50	<50	<5	<50	<50	<50	<50	<50	<50	<1
23	130	130	130	130	130	13	130	130	130	130	130	130	**

	BED
	MAT.
	SIEVE
	DIAM.
	% FINER
DATE	THAN
	.062 MM
	(80164)

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

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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 UNFL/TRD 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)
FEB 22	1000	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.20
DATE	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)	FREON- 113 WATER UNFL/TRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 22	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	E.1
	Ω	ATE	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)		
	FEE	3 22	<.2	<.20	<.10	<.10	<.1	<.10	<.10	<.20	<.2		

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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 FL/TRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
MAY 23	1000	<.004	<.002	.005	.086	<.010	E.026	<.020	E.002	<.018	<.003	E.013	.117
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)
MAY 23	<.005	<.002	<.004	<.035	<.027	E.551	.200	<.006	.029	<.007	<.003	.108	E.004
			D.	ATE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			MAY 2	r 13	<.011	<.016	E.056	<.005	<.009				

E Estimated value.

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

475

DELAWARE RIVER BASIN

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10	0940	940	300	230	07	0930	24000	1200	320
17	0940	1100	1300	900					
24	0940	16000	1300	210					
31	0950	940	600	870					

476

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORD, 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 mi2.

PERIOD OF RECORD .-- Water years 1965 to current year.

PERIOD OF DAILY RECORD . --

SUSPENDED-SEDIMENT DISCHARGE: June 1966 to September 1969.

WATER TEMPERATURE: May 1966 to September 1973, daily maximum-minimum; October 1998 to October 2001, recorded hourly.

INSTRUMENTATION . --

WATER TEMPERATURE: Water temperature data logger (in-situ system; measurements recorded every 15 or 30 minutes) located at

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 and other sites are presented in "Water-Quality at Miscellaneous Surface-Water

COOPERATION. --Field data and samples for laboratory analyses on 11/16, 02/07, 05/17, and 08/23 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total Suspended solids, fecal coliform, E. coli, and enterococcus bacteria on those dates was performed by the New Jersey
Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory
Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of
Freshwater and Biological Monitoring Laboratory. Other field data and samples for laboratory analyses 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.

EXTREMES FOR PERIOD OF DAILY RECORD.-WATER TEMPERATURE: Maximum, 27.5°C, July 6, 1999; minimum, 0.0°C, on many days during winter months.

EXTREMES FOR CURRENT YEAR . --

WATER TEMPERATURE: Maximum, 26.5°C, Aug. 9, 10; minimum, 0.0°C, on several days during December and January.

		SAMPLE	DIS- CHARGE, INST. CUBIC FEET	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-
DATE	TIME	TYPE	PER SECOND (00061)	UNFL/TRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	(MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)
OCT												
NOV	1110	ENVIRONMENTAL	17	3.2			765	101	10.1	6.9	226	20.5
06	0920	ENVIRONMENTAL	16	8.0			764	87	10.2	7.4	248	8.0
16 DEC	1000	ENVIRONMENTAL	19		.126	.102	766	87	10.8	7.3	227	
19	1100	ENVIRONMENTAL	48	58			764	99	13.2	7.0	192	2.0
19 FEB	1101	SPLIT REPLICATE										
01	0950	ENVIRONMENTAL	35	21			764			7.0	205	9.0
07	0930	ENVIRONMENTAL	82		.220	.174	771	84	11.5	7.2	199	9.5
MAR												
08	1040	ENVIRONMENTAL	32	8.8			763	109	14.0	7.2	230	8.5
21	1720	ENVIRONMENTAL	118	180			753	92	11.0	7.1	158	9.5
30	1100	ENVIRONMENTAL	661	210			744	90	10.7	6.8	95	10.0
MAY												
01	1010	ENVIRONMENTAL	27				769	98	9.9	7.2	220	23.5
01	1011	SPLIT REPLICATE										
17	1000	ENVIRONMENTAL	18	6.8	.121	.096	765	77	7.9	7.0	232	14.1
JUN												
05	0920	ENVIRONMENTAL	32	12			762	95	9.1	7.0	193	21.0
JUL												
05	1040	ENVIRONMENTAL	34	16			757	84	7.4	7.2	194	27.5
AUG	2220	and the second of the second o	21.8				and the	33.5	40.00	100	1000	200
09	0930	ENVIRONMENTAL	9.3	6.0			764	86	7.3	7.2	263	30.5
23	1000	ENVIRONMENTAL	12	4.7	.125	.100	766	83	7.4	7.2	239	

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

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)	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)
OCT 02 NOV	15.5	69	21.2	3.99	4.00	11.5		38	46	19.9	.2	10.1	25.3
06	8.4	76	23.8	4.16	4.50	13.9		49	60	23.4	.2	11.2	24.1
16 DEC	6.5	71	22.5	3.71	4.23	10.3	43			18.6	.2	12.1	24.1
19	3.2	55	16.1	3.51	4.11	9.0		22	27	19.4	E.1	8.4	26.5
19 FEB		54	15.8	3.45	4.09	9.0				16.8	E.1	8.3	26.2
01	3.5	56	16.7	3.46	3.64	11.0		25	31	19.5	. 2	8.5	27.4
07 MAR	3.0	48	14.3	3.05	3.89	13.9	18	7-7		24.3	E.1	7.2	23.3
08	4.8	64	19.3	3.91	3.74	13.4		24	30	25.4	.2	8.4	28.8
30	7.3 7.1	42 25	12.5 7.50	2.48 1.62	2.80	10.3		11	13	16.6 8.1	.2 E.2	5.6 3.4	18.7 12.6
MAY												6.2	
01	15.2	65	19.5	4.03	3.31	11.8		34	41	21.7	.2	6.2	26.5
17 JUN	14.5	73	23.0	3.86	3.47	12.6	39			22.2	.2	9.3	25.2
05 JUL	17.2	60	17.5	3.94	3.96	10.2		28	34	18.1	.2	9.5	22.5
05 AUG	21.3	62	18.6	3.69	4.07	9.7		36	43	19.0	.2	8.0	21.0
09	24.1	74	22.6	4.23	4.64	17.7		49	60	28.2	. 2	10.7	22.9
23	21.0	69	20.8	4.05	3.84	16.1	45			25.4	.2	9.8	22.4
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,,,,,,,,	(00025)	(00020)	(00023)	(00032)	(00013)	(00002)	(00000)	(1337.07	(00000)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
02 NOV	140	126	.127	.31		.40	1.44	.022	1.7	1.8		.069	.059
06	138	136	.079	.21		.38	.140	E.004	.35	.52		E.004	<.018
16 DEC	135	126	.040	.35	.04	. 37	.953	.009	1.3	1.3	.080	.030	
19	117	107	.282	.61		.80	1.31	.009	1.9	2.1		.037	.024
19 FEB	116		. 286			.80	1.31	.009		2.1		.036	.024
01	123	113	.272	.47		.62	1.45	.011	1.9	2.1	.098	.016	E.013
07 MAR	117	107	.160	.49	.17	.76	1.28	.006	1.8	2.0	.163	.053	
08	142	126	.279	.48		.50	1.72	.013	2.2	2.2	.052	.017	E.012
21	95	20	.147	.55		1.4	.234	.010	.79	1.6	1.1	.026	.019
30 MAY	74	51	.197	. 67		1.7	. 658	.010	1.3	2.3	1.1	.039	.025
01 <i>01</i>	139	120	.185	.53		. 67	1.27	.038	1.8	1.9	.140 .213	.057	.037
17	130	130	.360	.69	.35	.77	1.29	.108	2.0	2.1	.076	.050	
05													025
	120	109	.083	.36		.45	1.30	.056	1.7	1.8	.125	.045	.035
JUL 05	120 130	109	.083 E.033	.36		.45	.992	.056	1.7	1.5	.089	.045	<.020
JUL													

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

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	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)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	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)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT													
02 NOV	.152			3.1	.3			57	280	40.3		.26	6
06	.260			2.4	1.0			67	250	69.0		.49	11
16 DEC	.096	.8	<.1	3.0	.8	E1.9		35			5		
19	.161			4.7	1.1			41	460	72.7		2.6	20
19	.166							44	450	72.3			24
FEB													
01	.095	.9		3.6				33	340	59.9		1.5	16
07	.137	1.4	<.1	5.5	1.3	2.1		30			16		
MAR													
08	.074	.5	<.1	2.9	.5			38	340	49.2		.48	6
21	.682	9.1	.1	4.7	9.0			25	220	37.9		46	146
30	.746	10	<.1	6.2	10			26	290	53.0		310	174
MAY	100												
01	.164	1.2	<.1	3.4	1.2			50	350	37.8		.50	7
01	77.	1.6	<.1	3.3	1.6								
17 JUN	.108	.6	<.1	2.2	.6	3.1	1.50	56			<1		
05	.135	1.0	<.1	4.8	1.0			41	470	37.2		.74	9
JUL													
05	.174	E1.3	<.1	4.6	E1.3			46	410	36.1		1.7	18
AUG													
09	.318	.4	<.1	2.7	.4			88	120	26.0		.11	4
23	.148	.6	<.1	2.9	.6	<1.0	1.40	77			5		

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES
Selected samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020/2021 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs identified by the analyses in one or more samples are listed in the following table.

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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	WATER UNFLTRD	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 O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
OCT 02	1110	<.03	<.04	<.04	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
DATE	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON DI- SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
OCT													
02	<.04	<.06	<.07	<.03	<.2	E.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
DATE	TET	TRD WAT OVER RE	RT- TYL MET HER CH UNF RI EC TO (L) (UG	LO- CHI DE RII TAL TOTA	NE XYLE LO- WAT DE UNFI AL RE ('L) (UG	EA- CHLC ENE TOLU TER WAT TTRD WHO EC TOT E/L) (UG/	DRO- O JENE XYL TER WA' DLE WHO TAL TO' (L) (UG	ENE TOLI TER WA OLE WH TAL RE /L) (UG	PYL- TETE UENE CHLO TER ETH OLE ENE C TOT	ORO- /L- E TOLI (TAL TO: /L) (UG/	TAL TOT	ORO- CHLO CL- FLUC NE METE CAL TOT G/L) (UG/	ORO- ORO- HANE CAL (L)
OCT 02	<2	:	2 <	.2 <	.2 <.0	06 <.0)3 <.	04 <.	07 <	.1 <.0	05 <.0	04 <.0)9

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

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DATE	TIME	SAMP		ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	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 FLITRD 0.7 U GF, REC (UG/L) (82682)
				(49200)	(40342)	(34255)	(39032)	(020/3)	(82000)	(820/4)	(30333)	(04041)	(02002)
OCT													
02	1110	ENVIRONM	ENTAL	<.004	<.002	<.005	E.007	<.010	<.041	<.020	<.005	<.018	<.003
FEB													
01	0950	ENVIRONM	ENTAL	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.018	<.003
MAR													
21	1720	ENVIRONM		<.004	<.002	<.005	E.003	E.071	<.041	<.020	<.005	<.018	<.003
30	1100	ENVIRONM	ENTAL	<.004	<.002	<.005	.104	E.005	<.041	<.020	<.005	<.018	<.003
MAY	020.2												10.000
01	1010	ENVIRONM		<.004	<.002	<.005	E.007	<.010	E.573	<.020	<.005	<.018	<.003
01	1011	SPLIT RE	EPLICATE	<.004	<.002	<.005	E.006	<.010	E.520	<.040	<.005	<.018	<.003
JUN					10 2.4			1					
05	0920	ENVIRONM	ENTAL	<.004	<.002	<.005	.078	<.010	E.005	E.008	E.004	<.018	<.003
JUL	1040								- 005				
05	1040	ENVIRONM	ENTAL	<.004	<.002	<.005	.154	<.010	E.035	<.020	<.005	<.018	<.003
09	0930	ENVIRONM	TEASTER T	<.004	<.002	<.005	.009	<.010	E.043	<.020	<.005	<.018	<.003
03	0330	ENV INOIN	LINIAL		1.002	1.005	.003	1.010	2.045	1.020	1.003	1.010	1.003
	DEETHYL					LIN-		METHYL			MOL-	NAPROP-	
	ATRA-			EPTC		URON		AZIN-		METRI-	INATE	AMIDE	
	ZINE,	DI-	DI-	WATER		WATER	MALA-	PHOS	METO-	BUZIN	WATER	WATER	
	WATER,	AZINON,	ELDRIN	FLTRD	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	FLTRD	P,P'
2000	DISS,	DIS-	DIS-	0.7 U	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DDE
DATE	REC	SOLVED	SOLVED	GF, REC	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	DISSOLV
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(04040)	(39572)	(39381)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82671)	(82684)	(34653)
OCT													
02	E.005												
P.K.H		E.003	<.005	<.002	<.004	<.035	<.027	<.050	.016	<.006	<.002	<.007	<.003
FEB 01	E.006												
01	E.006	<.005	<.005 <.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027 <.027	<.050 <.050	.016	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003
01 MAR		<.005	<.005	<.002	<.004	<.035	<.027	<.050	.022	<.006	<.002	<.007	<.003
01 MAR 21	<.006	<.005 E.003	<.005 <.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027 <.027	<.050 <.050	.022	<.006	<.002 <.020	<.007	<.003 <.003
01 MAR 21 30		<.005	<.005	<.002	<.004	<.035	<.027	<.050	.022	<.006	<.002	<.007	<.003
01 MAR 21 30	<.006 E.004	<.005 E.003 .010	<.005 <.005 <.005	<.002 <.002 <.002	<.004 <.004 <.004	<.035 <.035 <.035	<.027 <.027 <.027	<.050 <.050 <.050	.022 .026 .258	<.006 <.006 <.006	<.002 <.020 <.002	<.007 <.007 <.007	<.003 <.003 <.005
01 MAR 21 30 MAY 01	<.006 E.004	<.005 E.003 .010	<.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002	<.004 <.004 <.004 <.004	<.035 <.035 <.035 <.035	<.027 <.027 <.027 <.027	<.050 <.050 <.050 <.050	.022 .026 .258	<.006 <.006 <.006	<.002 <.020 <.002 <.002	<.007 <.007 <.007 <.007	<.003 <.003 <.005 <.003
01 MAR 21 30 MAY 01	<.006 E.004	<.005 E.003 .010	<.005 <.005 <.005	<.002 <.002 <.002	<.004 <.004 <.004	<.035 <.035 <.035	<.027 <.027 <.027	<.050 <.050 <.050	.022 .026 .258	<.006 <.006 <.006	<.002 <.020 <.002	<.007 <.007 <.007	<.003 <.003 <.005
01 MAR 21 30 MAY 01 01 JUN	<.006 E.004 E.006 E.004	<.005 E.003 .010 .005 E.004	<.005 <.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002 <.002	<.004 <.004 <.004 <.004 <.004	<.035 <.035 <.035 <.035 <.035 <.035	<.027 <.027 <.027 <.027 <.027	<.050 <.050 <.050 <.050 <.050	.022 .026 .258 .025 .021	<.006 <.006 <.006 <.006 <.006	<.002 <.020 <.002 <.002 <.002	<.007 <.007 <.007 <.007 <.007	<.003 <.003 <.005 <.003 <.003
01 MAR 21 30 MAY 01 01 JUN 05	<.006 E.004	<.005 E.003 .010	<.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002	<.004 <.004 <.004 <.004	<.035 <.035 <.035 <.035	<.027 <.027 <.027 <.027	<.050 <.050 <.050 <.050	.022 .026 .258	<.006 <.006 <.006	<.002 <.020 <.002 <.002	<.007 <.007 <.007 <.007	<.003 <.003 <.005 <.003
01 MAR 21 30 MAY 01 JUN 05 JUL	<.006 E.004 E.006 E.004 E.017	<.005 E.003 .010 .005 E.004 .011	<.005 <.005 <.005 <.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002 <.002 <.002 <.002	<.004 <.004 <.004 <.004 <.004 <.004	<.035 <.035 <.035 <.035 <.035 <.035 <.035	<.027 <.027 <.027 <.027 <.027 <.027 <.027	<.050 <.050 <.050 <.050 <.050 <.050	.022 .026 .258 .025 .021	<.006 <.006 <.006 <.006 <.006 <.006	<.002 <.020 <.002 <.002 <.002 <.002	<.007 <.007 <.007 <.007 <.007 E.005	<.003 <.003 <.005 <.003 <.003 <.003
01 MAR 21 30 MAY 01 01 JUN 05	<.006 E.004 E.006 E.004	<.005 E.003 .010 .005 E.004	<.005 <.005 <.005 <.005 <.005	<.002 <.002 <.002 <.002 <.002	<.004 <.004 <.004 <.004 <.004	<.035 <.035 <.035 <.035 <.035 <.035	<.027 <.027 <.027 <.027 <.027	<.050 <.050 <.050 <.050 <.050	.022 .026 .258 .025 .021	<.006 <.006 <.006 <.006 <.006	<.002 <.020 <.002 <.002 <.002	<.007 <.007 <.007 <.007 <.007	<.003 <.003 <.005 <.003 <.003

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

480

DELAWARE RIVER BASIN

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	PENDI- METH- ALIN WAT FLT 0.7 U	PRO- METON, WATER, DISS,	SI- MAZINE, WATER, DISS,	TEBU- THIURON WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U
DATE	GF, REC (UG/L) (82683)	REC (UG/L) (04037)	REC (UG/L) (04035)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)
OCT							
02 FEB	<.010	E.004	E.004	<.016	E.068	<.005	<.009
01	<.010	<.015	<.011	<.016	<.034	<.005	<.009
MAR							
21	.027	E.004	<.011	<.016	E.039	<.005	<.009
30	.015	<.015	<.011	<.016	<.034	<.005	E.005
01	<.010	E.004	E.007	<.016	E.087	<.005	<.009
01 JUN	<.010	E.004	E.006	<.016	E.065	<.005	<.009
05 JUL	<.010	E.011	E.005	<.016	E.061	<.005	<.009
05 AUG	.033	<.015	E.005	<.016	E.047	<.005	<.009
09	<.010	E.003	E.002	<.016	E.056	<.005	<.009

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUL					AUG				
10	1000	20	200	190	07	0945	80	<100	390
17	1000	130	100	320					
24	1000	170	100	470					
31	1005	110	100	330					

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

> 01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPER	RATURE,	WATER (DEG.	C), WA	TER YEAR	OCTOBER	2000 TO S	EPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		NO	VEMBER			DECEMBER			JANUARY	
1	15.5	13.0	14.5	10.5	8.5	9.5	6.5	5.5	6.0	1.5	.0	.5
2	16.5	15.0	15.5	10.5	8.5	9.5	5.5	3.5	4.5	1.5	.0	1.0
3	18.0	15.5	17.0	10.5	8.5	10.0	3.5	2.0	3.0	. 5	.0	.0
4	18.5	16.5	17.5	12.0	10.5	11.0	3.5	1.5	2.5	1.5	.0	.5
5	18.5	17.5	18.0	11.5	10.0	10.5	4.0	2.0	3.0	1.0	.0	. 5
6	18.5	17.5	18.0	10.0	8.5	9.0	3.5	2.0	2.5	2.0	.5	1.0
7	18.0	15.0	16.5	10.0	7.5	8.5	3.5	2.5	3.0	2.5	.5	1.5
8	15.0	12.5	13.5	10.5	8.5	9.5	4.0	2.5	3.0	2.5	1.5	2.0
9	12.5	10.5	11.0	12.5 13.5	10.5	11.0	3.5 4.0	2.0	3.0	2.5	1.0	1.5
10	10.5	10.0	10.5	13.5	12.5	13.0						
11	12.0	10.5	11.0	12.5	11.5	12.0	5.0	4.0	4.5	3.5	1.0	2.0
12	12.5	10.5	12.0	11.5	10.5	11.0	4.0	4.0 2.5	5.0 3.0	22.00	1.0	2.0
13 14	13.0	11.0	12.5	12.0 11.5	9.5	11.5	4.0	3.5	3.5	3.5	1.0	2.5
15	15.0	13.0	14.0	9.5	8.5	9.0	4.0	3.0	3.5	3.5	3.0	3.5
									4.5	4.5	3.0	3.5
16	15.5	14.5 15.0	15.0 15.5	8.5 9.0	7.5	8.0	6.0 10.5	6.0	8.5	4.0	2.5	3.0
17 18	15.5	15.0	15.5	8.0	7.0	7.5	8.0	4.0	5.5	3.5	2.5	3.0
19	15.0	13.5	14.5	7.0	6.0	6.5	4 0	3.0		3.5	2.5	3.0
20	14.0	12.0	13.5	6.5	4.5	5.5	4.0	2.0	3.0	3.0	2.5	2.5
21	15.0	12.5	13.5	5.5	4.0	5.0	2.5	1.0	2.0	2.5	1.0	1.5
21 22	15.0 14.5	12.5	13.5	4.0	3.5	3.5	3.0		2.0	1.5	.5	1.0
23	13.0	11.0	12.0	4.0	3.0	3.0	1.0	.0	.5	1.5	.5	1.0
24	13.0	11.0	12.0	4.0	3.0	3.5	1.5	.5	1.0	2.5	.5	1.5
25	14.0	11.5	13.0	5.0	2.5	3.5	.5	.0	.5	3.0	1.5	2.0
26	14.5	13.0	13.5	8.0	5.0	6.5	.5	.0	.5	2.5	1.0	2.0
27	15.0	13.0	14.0	8.5	7.5	8.0	1.5	.5	1.0	3.0	2.0	2.5
28	14.5	11.5	13.5	8.5	7.5	8.0	1.0	.5	1.0	3.0	2.5	3.0
29	11.5	10.0	10.5	8.0	6.5	7.5	1.0	.0	1.0	3.0	3.0	3.0
30	10.0	8.5	9.5	7.5	6.5	7.0	1.0	.0	.5	4.0	3.5	3.5
31	10.0	8.5	9.5	0.10			1.0					
MONTH	18.5	8.5	13.7	13.5	2.5	8.2	10.5	.0	2.9	4.5	.0	2.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
	4 -	4.0	4.0	6.5	5.5	6.0	8.5	8.0	8.0	19.0	14.5	17.0
1 2	4.5 5.0	4.0	4.5	7.0	5.5	6.0	8.5	8.5	8.5	20.0	16.5	18.5
3	5.0	4.0	4.0	8.5	6 5	7.5	9.5	8.0	8.5	21.0	18.0	19.5
4	4.0	3.5	3.5	8.0	5.5	7.0	10.5	9.5	10.0	21.5	19.0	20.5
5	4.0	2.5	3.0	5.5	4.0	4.5	11.0	10.0	10.5	21.0	18.5	20.0
6	4.0	2.5	3.0	4.5	3.5	4.0	11.5	10.5	11.0	18.5	16.0	17.5
7				6.0	4.0	4.5	11.5	10.5	11.0	16.5	14.0	15.5
8				6.5	5.0	6.0	11.0	10.5	10.5	17.0	14.0	15.5
9				7.5		6.5	15.0 15.0	10.5 13.5	12.5 14.0	17.0 18.5	15.0 15.5	16.0 17.5
10				7.5	4.5	6.0	13.0	13.3				
11		122		7.5	5.0	6.5	13.5	12.0	12.5	20.0		18.5
12				8.5	5.5	7.0	13.5	11.5	12.5	20.5	18.5 17.0	19.5
13				8.5 9.0	7.0	7.5 8.0	15.0 15.5	13.0 12.5	14.0	19.5 17.5	15.5	16.5
14 15			222	8.0	6.5	7.5	15.5	13.0	14.5	17.0	15.0	16.0
					12.4	12.2		40.5		16.5	15.0	16.0
16					7.0	8.5	14.5 13.0	12.5 11.0	13.5 12.0	16.0	15.0	15.5
17 18	6.0	4.5	5.0		7.5	8.0	13.0	10.0	11.5	15.0	15.0	15.0
19	4.5	3.5	4.0		6.5	8.0	13.0	9.5	11.5	17.5	15.0	16.0
20	6.0	4.5	5.0		6.5	8.0	13.0	10.5	12.0	17.5	16.0	16.5
21	6.5	6.0	6.0	8.5	7.5	8.0	15.5	12.5	14.0	16.0	14.5	15.0
22	6.0	3.0	5.0		7.5	8.0	20.0	15.0	17.5	17.0	15.0	16.0
23	3.5	2.5	3.0	9.5	7.0	8.0	22.0	17.5	20.0	18.0	16.0	17.0
24	4.0	3.5	3.5		8.0	8.5	22.0	19.0	20.5	18.5	16.5 17.0	17.5 17.5
25	5.0	4.0	4.5	8.0	7.0	7.5	19.0	14.0	16.0	18.5		
26	6.5	5.0	5.5		7.5	7.5	15.5	12.0	14.0	18.0	16.0	17.0
27	6.5	5.5	6.0		6.0	7.0	16.5	12.5	14.5	18.0 17.5	16.0	17.0 16.5
28 29	6.5	6.0	6.5		5.0 6.5	7.0	17.0 16.0	14.5	14.5	18.0	15.0	16.0
30					7.0	7.5	17.0	13.0	15.0	18.0	16.5	17.0
31					7.0	7.5				17.0	14.5	16.0
				0.5	2 =	7 1	22.0	8.0	13.1	21.5	14.0	17.0
MONTH				9.5	3.5	7.1	22.0	8.0	13.1	21.3	14.0	27.0

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAI	PILL		Paramet.				1				SEPTEMBE	ъ
		JUNE			JULY			AUGUST			SELIENDE	
1	16.5	14.5	15.5	25.0	24.0	24.5	22.0	19.0	20.5	23.5	21.0	22.5
2	17.5	15.0	16.0	24.0	20.5	21.5	22.5	20.0	21.0	21.0	19.0	20.0
3	18.0	16.5	17.0	21.0	19.0	20.0	23.0	20.5	21.5	20.5	18.0	19.5
4	18.5	16.5	17.0	22.0	20.5	21.0	23.0	21.5	22.0	22.0	19.5	20.5
5	20.0	17.0	18.5	23.5	21.0	22.0	23.5	21.5	22.5	21.5	20.0	21.0
6	19.5	18.5	19.0	22.5	20.5	21.5	24.5	22.5	23.5	20.5	18.5	19.5
7	19.5	18.0	19.0	22.0	19.5	20.5	25.5	23.5	24.5	21.0	18.5	20.0
8	20.0	18.0	19.0	21.5	20.5	21.0	26.0	24.0	25.0	21.5	19.5	20.5
9	19.5	17.5	18.5	23.5	21.0	22.5	26.5	24.0	25.5	22.0	20.0	21.0
10	20.5	17.5	19.0	23.5	22.5	23.0	26.5	24.5	25.0	22.5	21.5	22.0
11	21.5	18.5	20.0	23.0	22.0	22.5	25.0	24.0	24.5	22.0	20.0	21.0
		20.0	21.5	22.0	20.5	21.5	24.0	23.5	23.5	20.5	18.5	20.0
12	23.0	21.0	22.5	21.5	19.5	20.5	24.5	23.0	24.0	21.0	18.0	20.0
13	24.0			21.0	19.5	20.5	24.0	23.0	23.5	20.5	16.0	18.0
14	24.0	22.0	23.0				23.5	22.5	23.0	16.5	15.0	16.0
15	23.5	22.5	23.0	21.5	19.0	20.5	23.5	22.5	23.0			
16	23.0	22.5	22.5	22.5	20.5	21.5	23.0	21.5	22.5	17.0	14.5	16.0
17	22.5	21.0	21.5	23.5	21.5	22.5	23.5	22.5	23.0	17.5	14.5	
18	23.5	21.0	22.0	23.0	21.5	22.5	23.5	21.5	22.5	18.0	15.5	16.5
19	24.0	20.5	22.0	22.0	21.0	21.5	23.0	22.5	22.5	18.0	16.0	17.0
20	24.5	21.0	22.5	22.0	20.5	21.0	24.5	22.5	23.5	19.0	18.0	18.5
21	23.5	21.5	22.5	22.0	19.5	21.0	24.0	22.0	23.0	20.0	18.5	19.5
22	24.0	21.5	22.5	22.0	20.0	21.0	23.0	21.0	22.0	20.5	19.0	20.0
23	23.0	22.0	22.5	23.5	21.0	22.0	22.5	21.5	22.0	20.5	19.0	20.0
24	23.0	21.0	22.0	24.5	22.5	23.5	23.0	21.5	22.5	21.0	20.0	20.5
25	23.5	20.0	21.5	26.0	24.0	25.0	23.0	21.0	22.0	21.0	18.0	20.0
26	24.0	21.0	22.5	25.0	22.0	24.0	22.0	19.5	21.0	18.0	16.0	16.5
27	24.5	22.0	23.0	22.0	21.0	21.5	23.5	21.5	22.5	16.0	15.0	15.5
28	25.0	23.0	24.0	21.5	19.5	20.5	24.5	22.0	23.0	15.0	14.0	14.5
29	25.5	23.0	24.5	20.5	19.5	19.5	23.5	22.0	23.0	15.0	14.0	14.5
	26.0	24.0	25.0	20.5	19.0	20.0	22.5	21.5	22.0	14.5	13.0	13.5
30			25.0	21.0	18.5	20.0	23.5	21.5	22.5			
31				21.0	10.5	20.0	23.5					
MONTH	26.0	14.5	21.0	26.0	18.5	21.6	26.5	19.0	22.9	23.5	13.0	18.7
YEAR	26.5	.0	13.0									

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 mi2.

PERIOD OF RECORD .-- Water years 1973 to current year.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

COOPERATION. --Field data and samples for laboratory analyses on 11/16 and 02/15 were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, total suspended solids, fecal coliform, E. coli, and entercoccus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Agricultural Land Use Indicator and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER	TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER- ATURE AIR	TEMPER-	HARD- NESS TOTAL (MG/L AS
DATE	TIME	SECOND (00061)	UNFL/TRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	(DEG C) (00020)	WATER (DEG C) (00010)	CACO3) (00900)
NOV													
16 FEB	1000	E6.9		.164	.130	766	85	10.5	7.4	282		6.5	96
15	1000	E12		.171	.133	760	78	9.5	7.6	266	4.0	6.5	84
22 AUG	0950	34	8.9	.246	.195	755	89	8.5	7.6	256	19.0	17.0	88
16	1200	4.4	5.9	.215	.161	766	86	6.8	7.6	269	27.5	27.5	96
	CALCIUM	MAGNE- SIUM,	POTAS- SIUM,	SODIUM,	ANC UNFL/TRD TIT 4.5	CHLO- RIDE,	FLUO- RIDE,	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	SOLIDS, SUM OF CONSTI-	NITRO- GEN, AMMONIA	NITRO- GEN,AM- MONIA +
	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	TUENTS,	DIS-	ORGANIC
0.000	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	DIS-	SOLVED	DIS.
DATE	(MG/L AS CA)	(MG/L AS MG)	(MG/L AS K)	(MG/L AS NA)	CACO3)	(MG/L AS CL)	(MG/L AS F)	AS SIO2)	(MG/L AS SO4)	SOLVED (MG/L)	SOLVED (MG/L)	(MG/L AS N)	(MG/L AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)
NOV													
16 FEB	21.5	10.2	7.14	9.3	45	24.8	E.1	5.9	36.6	166	149	.250	.90
15	19.2	8.70	6.29	9.6	24	23.4	E.1	9.1	40.0	171	146	.370	.95
AUG	19.8	9.47	5.10	8.6	48	25.4	E.1	6.3	28.9	171	137	.450	1.1
16	21.4	10.3	7.76	8.8	69	26.4	E.1	3.7	17.4	156	137	<.030	. 57
	NTTTO	NITRO-	NITRO-	NITRO-			NITRO-			CARBON,	CARBON,	CIPPON	CARBON, ORGANIC
	NITRO- GEN, AMMONIA	GEN, AM- MONIA + ORGANIC	GEN, NO2+NO3 DIS-	GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,	GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS	INORG + ORGANIC PARTIC.	INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	PARTIC- ULATE
	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	TOTAL	SUSP	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS N) (00610)	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)
NOV													
16	.32	1.1	1.47	. 057	2.4	2.6	.174	.042	.179	1.4	<.1	5.2	1.4
FEB			4						2.22	2.2		3.1	100
MAY	.34	1.4	3.43	.053	4.4	4.8	.202	.029	.140	1.1	<.1	5.9	1.1
AUG	.47	1.2	.889	.119	2.0	2.1	.133	.108	.238	.9	<.1	6.6	.9
16	<.03	1.1	.038	.005	.61	1.1	.400	.094	.236	2.1	<.1	6.9	2.1

E Estimated value.

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

01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	OXYGEN	CHLORO-		RESIDUE
	DEMAND,	PHYLL A		TOTAL
	BIO-	FLUORO-	BORON,	AT 105
	CHEM-	METRIC	DIS-	DEG. C.
	ICAL,	METHOD	SOLVED	SUS-
DATE	5 DAY	CORR.	(UG/L	PENDED
	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00310)	(32209)	(01020)	(00530)
NOV				
16	3.4		19	40
FEB				
15	3.6		E10	16
MAY			407	
22	2.3	3.30	19	10
AUG		4 19 2		
16	3.0	75.1	21	10

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
14	1000	16000	7200	2900	05	1000	80	200	100
21	0930	230	600	100	12	0945	220	800	50
28	0930	170	300	60					

E Estimated value.

DELAWARE RIVER BASIN 01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DISSOLVED OXYGEN, IN MILLIGRAMS PER 8 6 120 DISSOLVED OXYGEN, IN PERCENT OF SATURATION 100 80 60 40 8.0 PH, IN STANARD UNITS 7.5 7 6.5 6.0 IN MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS SPECIFIC CONDUCTANCE, 265 260 255 250 245 32 WATER TEMPERATURE, IN DEGREES CELSIUS 30 28 26 24 18H OH 6H 18H OH 12H 18H OH 6H 12H 6H

Figure 57. Reconnaissance Study--Physical characteristics and concentration of constituents measured at 01482500 Salem River at Woodstown, water year 2001.

July, 2001

26

25

01482530 MAJOR RUN AT SHARPTOWN, NJ

LOCATION.--Lat 39°38'55", long 75°22'29", Salem County, Hydrologic Unit 02040206, at bridge on Pointers-Swedesboro Road (County Route 620), 0.7 mi southwest of Sharptown, 0.4 mi upstream from mouth, and 2.6 mi west of Woodstown.

DRAINAGE AREA . -- 3.04 mi2.

PERIOD OF RECORD .-- November 2000 to August 2001.

REMARKS.--Physical properties measured hourly over 3 to 6 days at this and other stations, as part of the 2001 water-year watershed-reconnaissance study, are presented in "Summary of Hydrologic Conditions" in the "Introduction." Measurements made to verify calibration of continuous-record water-quality sensors met the recalibration criteria; therefore, the data were not adjusted. Recalibration criteria are listed in the "Introduction" (see section "Explanation of the Records, On-Site Measurements and Sample Collection").

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, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Determination of Chlorophyll A was performed by the New Jersey Department of Environmental Protection, Bureau of Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR. -- Statewide Status and Watershed Reconnaissance, New Jersey Department of Environmental Protection Watershed Management Area 18.

		TUR- BID- ITY FIELD WATER	UV ABSORB- ANCE 254 NM, WTR FLT	UV ABSORB- ANCE 280 NM, WTR FLT	BARO- METRIC PRES- SURE (MM	OXYGEN, DIS- SOLVED (PER- CENT	OXYGEN, DIS-	PH WATER WHOLE FIELD (STAND-	SPE- CIFIC CON- DUCT-	TEMPER-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCIUM DIS- SOLVED
DATE	TIME	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	ARD UNITS) (00400)	ANCE (US/CM) (00095)	AIR (DEG C) (00020)	WATER (DEG C) (00010)	AS CACO3) (00900)	(MG/L AS CA) (00915)
NOV													
30 FEB	0800		.111	.085	758	61	7.6	7.5	558		6.0	140	49.2
28 JUN	0930	77	.143	.111	767	86	11.1	7.5	415	3.0	5.0	110	36.5
07 AUG	0800	26	.297	.225	758	58	5.2	7.4	374	17.0	20.5	98	31.1
16	0800	32	.115	.088	763	62	5.1	7.8	574	19.5	25.0	130	43.9
	MAGNE- SIUM, DIS-	POTAS- SIUM, DIS-	SODIUM, DIS-	ANC UNFLTRD TIT 4.5 LAB	CHLO- RIDE, DIS-	FLUO- RIDE, DIS-	SILICA, DIS- SOLVED	SULFATE DIS-	SOLIDS, RESIDUE AT 180 DEG. C	SOLIDS, SUM OF CONSTI- TUENTS,	NITRO- GEN, AMMONIA DIS-	NITRO- GEN, AM- MONIA + ORGANIC	NITRO- GEN, AMMONIA
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	SOLVED (MG/L	(MG/L AS	SOLVED (MG/L	DIS- SOLVED	DIS- SOLVED	SOLVED (MG/L	DIS. (MG/L	TOTAL (MG/L
	AS MG) (00925)	AS K) (00935)	AS NA) (00930)	CACO3) (90410)	AS CL) (00940)	AS F) (00950)	SIO2) (00955)	AS SO4) (00945)	(MG/L) (70300)	(MG/L) (70301)	AS N) (00608)	AS N) (00623)	AS N) (00610)
NOV													
30 FEB	4.11	5.85	41.7	102	73.6	.3	13.6	30.8	294	284	1.13	1.6	1.17
28 JUN	5.19	6.71	27.4	55	51.2	.2	13.8	28.9	235	221	2.05	2.7	2.03
07 AUG	5.03	9.86	23.9	63	42.5	.3	12.0	24.6	229	197	1.82	2.8	2.02
16	4.78	6.52	54.7	86	99.5	.4	4.5	26.8	311	293	.040	.59	.09
	NITRO- GEN, AM- MONIA + ORGANIC TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN, TOTAL	NITRO- GEN, PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS TOTAL	CARBON, INORG + ORGANIC PARTIC. TOTAL	CARBON, INOR- GANIC, PARTIC. TOTAL	CARBON, ORGANIC DIS- SOLVED	CARBON, ORGANIC PARTIC- ULATE TOTAL	OXYGEN DEMAND, BIO- CHEM- ICAL,
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY
	AS N) (00625)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (00600)	AS N) (49570)	AS P) (00666)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV							Asiana and						
30	1.8	.650	.093	2.3	2.4	.195	.009	.159	.9	<.1	4.4	.9	3.8
28 JUN	2.9	3.51	.181	6.2	6.4	.455	.045	.231	2.5	<.1	4.8	2.5	2.3
07 AUG	3.5	1.83	.294	4.7	5.3	.317	.059	.358	1.7	<.1	8.9	1.7	4.5
16	1.9	.111	.004	.70	2.0	.592	.034	.358	3.8	<.1	6.2	3.7	3.2

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

DELAWARE RIVER BASIN

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

	D <i>l</i>	ATE	CHLO- RIDE TOTAL (UG/L) (34423)	UNFLTRD REC (UG/L) (85795)	WHOLE TOTAL (UG/L) (77135)	TOTAL (UG/L) (77128)	ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	ENE TOTAL (UG/L) (39180)	METHANE TOTAL (UG/L) (34488)	RIDE TOTAL (UG/L) (39175)		
			METHYL ENE	META/ PARA- XYLENE WATER	O- XYLENE WATER		TETRA- CHLORO- ETHYL-		TRI- CHLORO- ETHYL-	TRI- CHLORO- FLUORO-	VINYL CHLO-		
28	<.10	<.2	<.10	<.10	<.10	<.2	<.2	<.2	<.10	<.2	<.10	<.10	.2
DATE	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)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 28	0930	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10	<.10	<.10	<.20	<.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)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
					.6	E.3	<.05	10					
				D.F.	ATE	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 16	0800	4	38.9	.07	28	.09	1	1.4	2980	1	120	<.01	3
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)	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)
				AUG	6	194	32	42					
				JUE	7	89.3	34	27					
				FEE	30	24	16 17	24 13					
				DĮ	ATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)					

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

DELAWARE RIVER BASTN

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

DATE	TIME	ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FITRD 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)
JUN 07	0800	<.004	<.010	<.005	9.61	<.010	<.041	<.020	<.010	<.018	<.003	E2.1	.083
DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	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)
JUN 07	<.005	<.002	<.004	<.035	E.007	<.050	4.02	<.006	<.002	<.007	<.003	.024	E.003
			DA	TE	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)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			JUN	7	.034	<.016	<.034	<.005	<.009				

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31649)
JUN					JUL				
14	0930	2200	3000	390	05	0920	330	100	400
21	1015	490	600	200	12	0945	3800	700	400
28	1030	790	400	360					

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

DELAWARE RIVER BASIN

01482530 MAJOR RUN AT SHARPTOWN, NJ

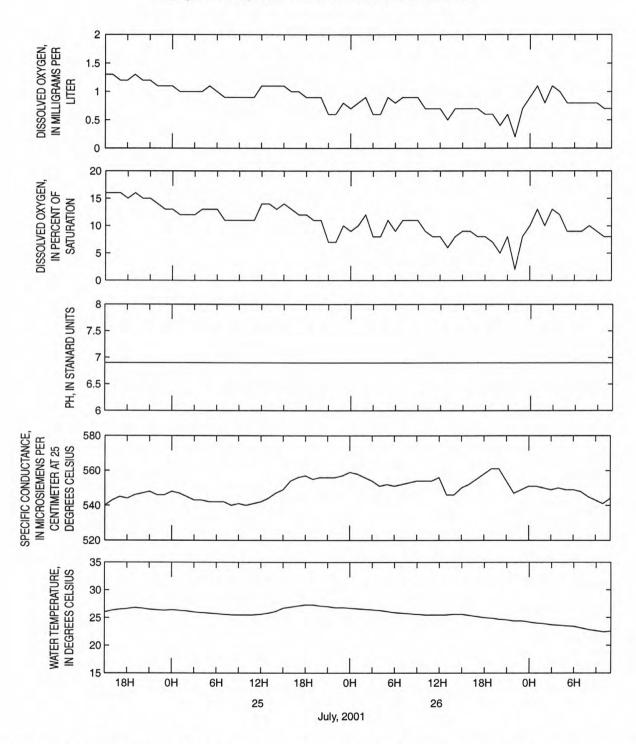


Figure 58. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01482530 Major Run at Shaprton, water year 2001.

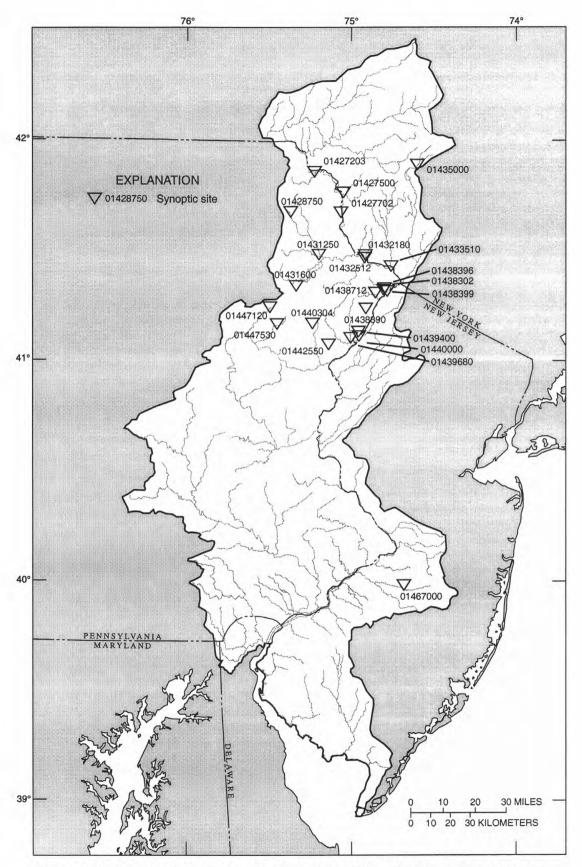


Figure 59. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, surface-water synoptic study, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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 intermittently 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 (DELR NAWQA) as part of two basin-wide surveys of nutrients, pesticides, major ions, and organic carbon, during periods of base flow; the first survey was May 7 through May 16, 2001, and the second was August 20 through August 29, 2001. Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" in the Introduction). Only pesticides identified by the analyses in one or more samples are listed in the following table. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality Control Data" in the "Introduction."

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
AND BASE				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
MAY 2001 09 09 AUG	1519 1520	FIELD BLANK ENVIRONMENTAL	24	740	122	11.1	7.6	69	23.5	18.6	22	7.38
23 23	1009 1010	FIELD BLANK ENVIRONMENTAL	4.4	739	105	9.6	7.2	84	19.0	18.0	29	9.60
		01427500	CALLICOON	CREEK AT	CALLTCOON	NV (LAT	41 45 30	N LONG 07	5 02 55W)			
		02427500	CILLILICOON	Cidalit Mi	CAMBICOOL	(2352		it bollo o	5 02 55117			
MAY 2001 10	1250	ENVIRONMENTAL	E46	717	146	13.1	9.4	134	27.5	17.6	31	9.80
23	1310	ENVIRONMENTAL	E16	739	120	10.9	8.6	155	21.0	18.2	38	11.7
		01427702 CALKINS	CR 1200 F	T AB MOUT	H AT MILE	NVILLE, P	A (LAT 4	1 40 21N	LONG 075	03 53W)		
MAY 2001												
10	1430	ENVIRONMENTAL	12	742	114	10.4	8.8	82	25.5	18.4	26	8.21
AUG 22	1000	ENVIRONMENTAL	1.3	748	105	9.5	7.3	100	22.5	19.6	33	10.3
	0.	1428750 WEST BRA	NCH TACKAN	AVEN DIVE		DENRITTE	DA /T.ATT	41 40 288	TONG 075	22 35W)		
70000000	0.	1420750 WEST DAG	Well Include	MARIN KIVE	IN NEAR AL	DEMVILLE	FA (LAI	41 40 200	LONG 075	22 334)		
MAY 2001 09 AUG	1200	ENVIRONMENTAL	18	731	130	12.9	8.1	86	20.5	13.7	28	9.48
22 22	1659 1700	FIELD BLANK ENVIRONMENTAL	6.9	728	105	8.9	8.1	88	26.5	21.3	32	E.01 10.6
		01431250	MIDDLE C	REEK AT H	LAWLEY, PA	(LAT 41	28 48N L	ONG 075 1	.2 03W)			
MAY 2001												
09 AUG	0830	ENVIRONMENTAL	33	741	108	10.4	7.4	94	15.5	16.0	30	10.0
22	1120	ENVIRONMENTAL	4.3	738	122	10.3	8.2	116	27.0	22.2	39	12.9
		01431600 WALLE	NPAUPACK C	REEK AT E	AST STERI	ING, PA.	(LAT 41	20 10N LC	NG 075 20	25W)		
MAY 2001 08	1500	ENVIRONMENTAL	E92	732	123	11.9	7.6	81	E17.0	15.2	22	7.12
22	0910	ENVIRONMENTAL	E15	729	102	9.2	7.7	103	19.5	18.4	31	10.1
		01432180	HALFWAY BE	ROOK AT BA	RRYVILLE	NY (LAT	41 28 38N	LONG 074	54 39W)			
MAY 2001												
AUG	1520	ENVIRONMENTAL	18	751	77	777	7.2	123	27.0	15.6	18	5.11
22	1449 1450	FIELD BLANK ENVIRONMENTAL	1.5	752	102	9.2	7.4	185	E25.0	19.9	26	7.37
		01432512	SHOHOLA C	REEK AT S	SHOHOLA, P	A (LAT 4	1 27 53N	LONG 074	55 02W)			
MAY 2001												
09	1210	ENVIRONMENTAL	46	754	77	7.6	7.0	77	21.5	15.9	14	3.46
AUG 22	1710	ENVIRONMENTAL	15	749	99	8.3	7.2	86	E22.5	23.1	16	3.89

E Estimated value.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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 DIS- SOLVED (MG/L AS N) (00608)
		01	427203	EQUINUNK C	REEK AT E	QUINUNK,	PA (LAT	41 51 21N	LONG 075	13 31W)			
MAY 2001													
09 09 AUG	.915	.79	2.9	16	20		4.8	<.2	1.6	6.4	.12	.13	<.040
23 23	1.24	.75	4.1	22	27		7.3	<.2	2.0	5.9	E.07	.08	<.040
		01	427500	CALLICOON	CREEK AT	CALLICOON	NY (LAT	41 45 39	N LONG 07	5 02 55W)			
MAY 2001					A15000 1575		, , , , , , , , , , , , , , , , , , , ,		707777				
10	1.68	1.65	9.8	19	13	5	19.3	<.2	1.0	8.0	.21	.47	<.041
23	2.19	1.85	13.4	27	28	2	26.7	<.2	1.4	8.3	.16	.20	<.040
		01427702	CALKINS	CR 1200 F	T AB MOUT	H AT MILA	NVILLE, P	A (LAT 4	1 40 21N	LONG 075	03 53W)		
MAY 2001													
10	1.28	1.39	4.0	18	22		6.3	<.2	2.2	7.6	.17	.21	<.041
22	1.75	1.36	4.9	26	32		8.6	<.2	3.1	7.0	.10	.13	<.040
	0	1428750	WEST BRA	NCH LACKAW	AXEN RIVE	R NEAR AL	DENVILLE	PA (LAT	41 40 28N	LONG 075	22 35W)		
MAY 2001													
09 AUG	1.14	1.01	3.7	20	24		6.2	<.2	1.9	7.1	.17	.15	<.041
22 22	<.008 1.30	<.09	<.1 4.1	24	30	==	M 8.1	<.2	E. 1 1.7	<.1 6.2	<.10	<.08	<.040 <.040
			01431250			LAWLEY, PA							
			01431250	MIDDIE C	KEEK AT H	LAWLEY, PA	(LAT 41	. 28 48N L	ONG U/5 I	2 U3W)			
MAY 2001 09	1.22	.98	4.6	22	26		6.7	<.2	1.5	8.6	.16	.33	<.040
22	1.73	1.15	5.6	34	37	2	8.9	<.2	1.1	6.8	.20	.26	<.040
		0143160	0 WALLE	NPAUPACK C	REEK AT E	AST STERL	ING, PA.	(LAT 41	20 10N LO	NG 075 20	25W)		
MAY 2001													
NUG	.997	.51	5.0	10	12		10	<.2	1.8	7.3	.10	.15	<.041
22	1.44	.59	6.3	19	24		12.9	<.2	2.2	6.7	E.07	.14	<.040
		01	432180	HALFWAY BR	OOK AT BA	RRYVILLE	NY (LAT	41 28 38N	LONG 074	54 39W)			
MAY 2001													
09	1.30	.66	14.7	6	8		24.1	<.2	3.0	8.1	.10	.12	<.040
22	<.008	<.09	<.1 23.3	19	24		<.1 38.1	<.2 E.1	.1 3.5	<.1 7.8	<.10 E.08	<.08	<.040
											2.00		
		0	1432512	SHUHOLA C	REEK AT S	HOHOLA, P	A (LAT 4	1 27 53N	LONG 074	55 U2W)			
MAY 2001 09 AUG	1.38	.51	7.9	4	6		12.5	<.2	1.5	7.1	.16	.19	<.041
22	1.55	.48	8.6	7	9		15.6	<.2	1.0	4.6	.24	.27	<.040

E Estimated value.
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M Presence of material verified but not quantified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	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, NITRITI DIS- SOLVEI (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	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)	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)
		014	427203 1	EQUINUNK	CREEK AT	EQUINUNK,	PA (LAT	41 51 21N	LONG 075	13 31W)			
MAY 2001													
09								<.30	7.7				
09	.20	.19	.072	E.003	.006	<.020	.006	1.7	47	35		<13	М
23								<.30					
23	.14		.055	<.006	E.004	<.020	.006	.93	52	45	<2.0	13	М
		014	427500	CALLICOON	CREEK AT	CALLICOON	NY (LA	T 41 45 39	N LONG 07	5 02 55W)			
MAY 2001													
AUG	.85	.59	.382	.007	.015	<.018	.034	2.4	84	64		<13	20
23	.55	.51	.353	<.006	.030	E.017	.034	1.7	96	84	<2.0	14	20
		01427702	CALKINS	CR 1200	FT AB MOU	TH AT MILA	NVTLLE 1	DA (T.AT 4	1 40 21N	LONG 075	03 53W)		
								,		20110 070			
MAY 2001 10	.33	.29	.120	E.003	.016	E.010	.023	2.2	56	42		<13	30
AUG											10.0		
22	.27	.23	.133	.014	.032	<.020	.035	3.4	61	54	<2.0	E7	М
	0	1428750 W	WEST BRAN	NCH LACKA	WAXEN RIVE	ER NEAR AL	DENVILLE	PA (LAT	41 40 28N	LONG 075	22 35W)		
MAY 2001													
AUG	.44	.45	.283	E.003	.010	<.018	.015	1.8	58	44		<13	20
22 22	.37	.32	<.050 .171	<.006	<.006 .028	<.020 E.011	<.004 .034	1.7	<10 56	49	<2.0	<13 E8	<10 20
			01431250	MIDDLE	CREEK AT I	HAWLEY, PA	(LAT 4)	1 28 48N L	ONG 075 1	2 03W)			
MAY 2001								2.2		1.4			100
AUG			<.050	.018	.025	<.020	.033	3.7	63	47		E7	100
22			E.028	<.006	.026	.019	.033	3.3	69	59	<2.0	E8	20
		01431600	WALLEN	IPAUPACK	CREEK AT I	EAST STERL	ING, PA.	(LAT 41	20 10N LO	NG 075 20	25W)		
MAY 2001													
08	.36	.31	.201	<.006	E.005	<.018	.009	2.1	56	40		E6	40
AUG 22	.30		.164	<.006	<.006	<.020	.009	1.7	59	52	<2.0	<13	30
		014	132180 F	AT.FWAY P	ROOK AT BA	PRVVTLLE	NV (T.AT	41 28 38N	LONG 074	54 39W)			
Sec. 1919		01.	.54100 1	MILL I	MOOK AL DE	MAI VIIIIE	MI (IMI	41 20 JON	LONG U/4	34 3311)			
MAY 2001 09	.18	.15	.055	.021	.009	<.020	.015	2.2	78	61	<2.0	E7	30
AUG										01			
22	.31	15	<.050 .135	<.006	<.006 .016	<.020 E.011	<.004 .027	1.5	<10 102	95	<2.0	<13 E10	<10 40
77.1.1													
		01	1432512	SHOHOLA	CREEK AT S	SHOHOLA, P.	A (LAT 4	11 27 53N	LONG 074	55 U2W)			
MAY 2001 09			7 040	000						200	.0.0		60
AUG		7	E.040	.008	.011	<.018	.020	3.2	54	37	<2.0	<13	60
22			E.028	<.006	.008	<.020	.012	1.3	52	36	<2.0	E9	70

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	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)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
		01	427203	EQUINUNK	CREEK AT	EQUINUNK,	PA (LAT	41 51 21N	LONG 075	13 31W)			
MAY 2001													
09 09	4.8	.27	4	<.004 <.004	<.002 <.002	<.005 <.005	<.007 E.002	<.010 <.010	<.041 <.041	<.020 <.020	<.005 <.005	<.003 <.003	<.005 <.005
23 23	12.8	.02	1	<.004	<.002 <.002	<.005	<.007	<.010 <.010	<.041 <.041	<.020 <.020	<.005	<.003	<.005 <.005
23	12.0											1.003	1.005
		01	427500	CALLICOON	CREEK AT	CALLICOON	INY (LA	r 41 45 39	N LONG 07	5 02 55W)			
MAY 2001													
AUG	4.8		4	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
23	8.3		1	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
		01427702	CALKINS	CR 1200	FT AB MOU	TH AT MILA	NVILLE, 1	PA (LAT 4	1 40 21N	LONG 075	03 53W)		
MAY 2001													
10	4.8		<1	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.003	<.005
AUG 22	8.2	.00	1	<.004	<.002	<.005	.009	<.010	<.041	<.020	<.005	<.003	<.005
		1428750	WEST DON	NOU TACEN	MAYEN BIT	ER NEAR AL	DENTITIO	DA /TAM	41 40 28N	TONG 075	: 22 3EW)		
	,	1420/30	WEST DAM	WCH LIACKA	MAAEN KIV.	EK NEAK AL	TENATITE	PA (LAI	41 40 20N	LONG 075) 22 33W)		
MAY 2001 09 AUG	7.8	.13	3	<.004	<.002	<.005	E.004	<.010	<.041	<.020	<.005	<.003	<.005
22	<3.0 5.7		1 <1	<.004	<.002	<.005	E.006	<.010	<.041	<.020	<.005	<.003	<.005
22	3.7										1.005	1.003	1.005
			01431250	MIDDLE	CREEK AT	HAWLEY, PA	(LAT 4:	1 28 48N L	ONG 075 1	.2 03W)			
MAY 2001 09	19.3	.11	1	<.004	<.002	<.005	E.005	<.010	<.041	<.020	<.005	<.003	<.005
22	4.9	.02	2	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.003	<.005
		0143160	0 WALLE	NPAUPACK	CREEK AT	EAST STERI	ING, PA.	(LAT 41	20 10N LC	NG 075 20	25W)		
MAY 2001 08 AUG	20.4		12	<.004	<.002	<.005	E.003	<.010	<.041	<.020	<.005	<.003	<.005
22	24.2		<1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
		01	432180	HALFWAY B	ROOK AT B	ARRYVILLE	NY (LAT	41 28 38N	LONG 074	54 39W)			
MAY 2001													
09	13.3	.05	1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
22 22	<3.0 23.5	.01	<1 3	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
70.32	100										9.333	0.2580	100.000
		0	1432512	SHOHOLA	CREEK AT	SHOHOLA, P	A (LAT	41 27 53N	LONG 074	55 U2W)			
MAY 2001 09	10.1	.15	1	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005
22	8.5	.07	2	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005	<.003	<.005

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

01427203 EQUINUNK CREEK AT EQUINUNK, PA (LAT 41 51 21N LONG 075 13 31W)	<.016 <.016 <.016 <.016
	<.016
MAY 2001	<.016
09 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	
23 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010 <23 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	
01427500 CALLICOON CREEK AT CALLICOON NY (LAT 41 45 39N LONG 075 02 55W)	
MAY 2001	
10 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
23 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
01427702 CALKINS CR 1200 FT AB MOUTH AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)	
MAY 2001	
10 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
AUG 22 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)	
MAY 2001	
09 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010 AUG	<.016
22	<.016
01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 48N LONG 075 12 03W)	
MAY 2001 09 <.005 <.002 <.004 <.035 <.027 <.050 E.004 <.006 <.002 <.007 <.003 <.010 AUG	<.016
22 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
01431600 WALLENPAUPACK CREEK AT EAST STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)	
MAY 2001 08 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
AUG 22 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
01432180 HALFWAY BROOK AT BARRYVILLE NY (LAT 41 28 38N LONG 074 54 39W)	
MAY 2001	
09 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
22	
	<.016
01432512 SHOHOLA CREEK AT SHOHOLA, PA (LAT 41 27 53N LONG 074 55 02W)	
MAY 2001 09 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016
AUG 22 <.005 <.002 <.004 <.035 <.027 <.050 <.013 <.006 <.002 <.007 <.003 <.010	<.016

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

	TER- BACIL	THIO- BENCARB	TRI- FLUR-	
	WATER FL/TRD	WATER FL/TRD	ALIN WAT FLT	
	0.7 U	0.7 U	0.7 U	
DATE			GF, REC	
	(UG/L)	(UG/L)	(UG/L)	
	(82665)	(82681)	(82661)	
	100000	CREEK AT	EQUINUNK,	PA (LAT 41 51 21N LONG 075 13 31W)
MAY 2001		005	222	
09	<.034	<.005	<.009	
AUG		<.005	<.009	
23	<.034	<.005	<.009	
23	<.034	<.005	<.009	
	CALLICOON	CREEK AT	CALLICOO	N NY (LAT 41 45 39N LONG 075 02 55W)
MAY 2001	15.000	17.15		
AUG	<.034	<.005	<.009	
23	<.034	<.005	<.009	
01427702	CALKINS (CR 1200 FT	AB MOUTH	AT MILANVILLE, PA (LAT 41 40 21N LONG 075 03 53W)
MAY 2001				
10	<.034	<.005	<.009	
22	<.034	<.005	<.009	
01428750	WEST BRAN	CH LACKAV	VAXEN RIVE	R NEAR ALDENVILLE PA (LAT 41 40 28N LONG 075 22 35W)
MAY 2001	0.022			
09	<.034	<.005	<.009	
AUG				
22 22	<.034	<.005	<.009	
01431250	MIDDLE CE	REEK AT HA	WLEY, PA	(LAT 41 28 48N LONG 075 12 03W)
MAY 2001				
09	<.034	<.005	<.009	
AUG	<.034	4 005		
22	<.034	<.005	<.009	
01431600	WALLENPAU	JPACK CREE	EK AT EAST	STERLING, PA. (LAT 41 20 10N LONG 075 20 25W)
MAY 2001				
08	<.034	<.005	<.009	
AUG 22	<.034	<.005	<.009	
01432180	HALFWAY I	BROOK AT E	BARRYVILLE	NY (LAT 41 28 38N LONG 074 54 39W)
MAY 2001				
09	<.034	<.005	<.009	
AUG				
22				
22	<.034	<.005	<.009	
01432512	SHOHOLA (CREEK AT S	SHOHOLA, P	A (LAT 41 27 53N LONG 074 55 02W)
MAY 2001				
MAY 2001 09	<.034	<.005	<.009	
AUG		1.005		
22	<.034	<.005	<.009	
750	10000	12.522	120125	

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
		01433510	MONGAUP	RIVER AT	MONGAUP N	Y (LAT 4	1 25 36N	LONG 074	45 22W)			
MAY 2001												
09 AUG	0920	ENVIRONMENTAL		757	107	12.0	6.9	106	14.0	9.9	18	5.56
23 23	1239 1240	FIELD BLANK ENVIRONMENTAL		752	100	9.1	7.3	107	22.3	19.1	20	5.98
		01435000 NEV	ERSINK RI	VER NEAR	CLARYVILL	E NY (LA	T 41 53 2	4N LONG	74 35 25W	1)		
OCT 2000												
16 MAY 2001	1040	ENVIRONMENTAL	60	729	93	10.0	6.4	27	9.5	10.2	9	2.52
10	0929	FIELD BLANK										.01
AUG	0930	ENVIRONMENTAL	104	723	109	11.9	7.0	35	21.0	9.1	9	2.60
23	1600	ENVIRONMENTAL	26	719	106	9.8	7.5	34	19.5	16.3	9	2.65
		01438302 VANDER	MARK CREE	K AT MOUT	H AT MILF	ORD, PA	(LAT 41 1	9 20N LON	G 074 47	44W)		
MAY 2001												
08 AUG	1340	ENVIRONMENTAL	5.7	762	110	11.9	7.2	120	21.0	11.9	30	7.68
21	1420	ENVIRONMENTAL	<1.0	753	122	12.1	7.6	195	20.4	15.4	48	13.2
		01438396 SAWKILL	CREEK 200	O FT AB M	OUTH AT M	ILFORD, P.	A (LAT 4	1 19 08N	LONG 074	48 10W)		
MAY 2001												
08 AUG	0840	ENVIRONMENTAL	20	762	103	11.7	6.9	144	7.5	9.6	28	7.76
21	0840	ENVIRONMENTAL	3.2	752	101	9.6	7.0	182	22.0	17.5	38	10.5
	0	1438399 SHIMERS BE	OOK AT MI	LLVILLE R	OAD NEAR	MONTAGUE	NJ (LAT	41 18 47N	LONG 074	46 44W)		
MAY 2001												
08 AUG	1110	ENVIRONMENTAL	4.4	763	99	10.2	8.2	322	16.0	13.8	130	37.2
21	1230	ENVIRONMENTAL	1.6	752	97	8.5	8.3	459	22.5	21.0	190	51.8
	01	438712 RAYMONDSKII	L CR BL S	WALE BROO	K NR SILV	ER SPRING	PA (LAT	41 18 19	N LONG 07	4 51 05W)		
MAY 2001												
07 AUG	1750	ENVIRONMENTAL	17	755	100	9.5	6.9	118	17.0	17.3	21	5.56
21	1710	ENVIRONMENTAL	5.2	743	97	8.0	7.3	110	21.3	23.5	24	6.27
	0:	1438890 DINGMANS	R BL FULM	ER FALLS	NR DINGMA	NS FERRY,	PA (LAT	41 13 52	N LONG 07	4 54 37W)		
MAY 2001												
07 AUG	1430	ENVIRONMENTAL	7.4	757	99	10.0	7.3	82	19.5	14.6	17	4.44
20	1730	ENVIRONMENTAL	.63	742	93	8.2	7.0	98	24.0	20.1	24	6.20
		01439400	TOMS CREE	K AT EGYP	T MILLS,	PA (LAT	41 07 33N	LONG 074	57 20W)			
MAY 2001												
07 AUG	1110	ENVIRONMENTAL	8.4	769	105	11.7	6.6	90	15.0	11.1	24	6.21
20	1410	ENVIRONMENTAL	1.2	752	103	9.6	7.1	86	29.0	18.0	26	6.58

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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 DIS- SOLVED (MG/L AS N) (00608)
			01433510	MONGAUP	RIVER AT	MONGAUP N	Y (LAT 4	1 25 36N	LONG 074	45 22W)			
MAY 2001													
09	1.11	.97	11.4	5	7		19.4	<.2	2.8	7.1	.16	.19	<.040
23		1-5											
23	1.25	.95	10.6	9	11		18.7	<.2	1.7	6.8	.15	.19	<.040
		0143	5000 NEV	ERSINK RI	VER NEAR	CLARYVILL	E NY (LA	T 41 53 2	4N LONG 0	74 35 25W	1)		
OCT 2000													
16	.638	.30	1.1	4	4		1.5	E.1	2.5	4.9	E.07	.09	<.041
MAY 2001	<.008	<.09	<.1				<.1	<.2	<.1	<.1	<.10	<.08	<.041
10	.631	.30	1.5	3	4		2.9	<.2	2.0	4.7	<.10	E.07	<.041
AUG 23	.674	.40	1.8	4	5		3.6	<.2	2.4	4.8	<.10	E.06	<.040
23	.074	.40	1.0	•								E.00	1.040
		0143830	2 VANDER	MARK CREE	K AT MOUT	TH AT MILF	ORD, PA	(LAT 41 1	9 20N LON	G 074 47	44W)		
MAY 2001													
08 AUG	2.52	.61	8.8	10	12		18.3	<.2	5.6	9.2	E.09	.09	<.041
21	3.70	.81	14.3	16	20		33.9	<.2	6.8	11.4	<.10	E.08	<.040
		01438396	CAMPTIT	ODDER 200	0		TI BODD D	. /Tam /	1 19 08N	TONG 074	49 1000		
		01436330	DAWKTUL	CREEK 200	O FI AB F	MOUTH AT M	ILIFORD, P	w (mar a	1 19 00M	LONG U/4	40 TOW)		
MAY 2001 08	2.08	.58	14.9	12	14		27.6	<.2	3.9	8.9	E.09	E.08	<.041
AUG	2.00		14.5	12	14		27.0	1.2	3.9	0.9	E.09	2.00	1.041
21	2.93	.79	17.3	16	20		35.8	<.2	5.6	9.7	E.07	.10	<.040
	01	438399 8	HIMERS BE	OOK AT MI	LLVILLE F	ROAD NEAR	MONTAGUE	NJ (LAT	41 18 47N	LONG 074	46 44W)		
MAY 2001													
08	8.32	.56	14.6	107	130		26.8	<.2	2.1	13.9	.19	.34	<.040
AUG	13.6	06	19.0	160	105		40.3		2 5	12.6	.16	22	<.040
21	13.6	.86	19.0	162	185	6	40.3	<.2	3.5	12.6	.10	.22	<.040
	014	38712 R	YMONDSKII	L CR BL S	WALE BROO	OK NR SILV	ER SPRING	PA (LAT	41 18 19	N LONG 07	4 51 05W)		
MAY 2001													
07 AUG	1.76	.39	13.0	8	10		23.8	<.2	2.3	6.5	.16	.22	<.041
21	2.12	.49	10.1	15	18		19.7	<.2	3.5	4.5	.17	.22	<.040
	01		THOMAN O	n nr				D3 /730	41 12 50	N TONG 07	A EA 37W		
	01	430090 1	INGPIANS C	K BL FULD	ER FALLS	NR DINGMA	NS FERRY,	PA (LAI	41 13 52	N LONG U	4 54 3/W)		
MAY 2001	1 20	42		-			12.2			7.0		26	< 041
O7	1.39	.42	8.0	7	9		13.3	<.2	1.4	7.2	.14	.26	<.041
20	2.00	.40	8.6	15	19		14.9	<.2	3.5	5.8	.10	.18	<.040
			1439400	TOMS CREE	K AT EGYI	PT MILLS,	PA (LAT	41 07 33N	LONG 074	57 20W)			
MAY 2001													
07	2.15	.32	6.2	11	13		10.9	<.2	5.3	9.5	<.10	E.06	<.041
AUG 20	2.43	20	E 3	15	10		0.4		6.0	9.2	<.10	E.04	<.040
20	2.43	.38	5.3	15	18		9.4	<.2	6.8	9.2	<.10	E.04	1.040

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	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)	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	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, INORG + ORGANIC PARTIC: TOTAL (MG/L AS C) (00694)	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
			01433510	MONGAUP	RIVER AT	MONGAUP N	Y (LAT 4	1 25 36N	LONG 074	45 22W)			
MAY 2001													220
09 AUG	.50	.47	.311	.009		.006	<.020	.019			3.1		77
23					44						5.0		67
23	.40	. 37	.213	<.006		E.005	<.020	.008		-	2.8		67
		0143	5000 NEV	ERSINK RI	VER NEAR	CLARYVILL	E NY (LA	T 41 53 2	24N LONG 0	74 35 25W	7)		
OCT 2000	- 24			11122				17417899					120
16 MAY 2001	.14		.052	<.006		<.006	<.018	E.002			1.0	<.2	20
10			<.047	<.006		<.006	<.018	<.004					<10
AUG			.206	<.006	<.022	<.006	<.018	E.002	. 2	<.1	.99	.2	26
23	75		.119	<.006	<.022	<.006	<.020	.006	.2	<.1	.65	.2	23
		0143830	2 VANDER	MARK CREE	K AT MOUT	H AT MILF	ORD, PA	(LAT 41 1	9 20N LON	G 074 47	44W)		
MAY 2001													
08	.86		.762	.017	-22	.016	<.018	.018			1.3		72
AUG 21		22	2.35	<.006		.012	E.010	.020	-11	.22	.73		119
		01438396	GAWKTI.I.	CBBBK 200	O EVE ARE M	OUTH AT M	TIEOPN D	a (T.am /	1 19 08N	TONG 074	48 10W)		
		01430330	DAMICIDI	CREEK 200	O PI AD E	OUIN AI M	III OND, P	w (mar a	11 19 0014	DONG 074	40 1007		
MAY 2001 08	20		.253	.006		.007	<.018	.009			1.8		85
AUG													
21	.72		.619	<.006		.013	E.010	.018			1.2		101
	01	438399 8	HIMERS BE	OOK AT MI	LLVILLE R	OAD NEAR	MONTAGUE	NJ (LAT	41 18 47N	LONG 074	46 44W)		
MAY 2001	400		4620	1. 116		Caxa	1000	0.00					
08 AUG	.48	.33	.137	<.006	25	.010	<.020	.026	7.5		3.5		188
21	.34	. 27	.116	<.006		.013	E.012	.019			3.5		260
	014	38712 R	YMONDSKIL	L CR BL S	WALE BROO	K NR SILV	ER SPRING	PA (LAT	41 18 19	N LONG 07	4 51 05W)		
MAY 2001													
07			E.031	<.006		.007	<.018	.016			3.3		72
AUG 21			E.038	<.006		E.006	<.020	.017			3.0		66
	01	438890 I	TREMAND C	D DT. ETITM	PD PALLS	ND DINGWA	NG PPDDY	DA /T.M	41 13 52	N LONG 07	4 54 37W)		
		130030 1	THOUSE C	A DE POL	III FAILS	M DINGUA	MS PERMI,	ra (Lat.	41 13 32	in Long of	- 3- 3/11/		
MAY 2001 07	.34	.23	.084	.006		.008	<.018	.025			3.0		49
AUG 20	.36	.29	104	. 006							2.6		59
20	.30	. 29	.184	<.006		.011	<.020	.019			2.0		33
		C	1439400	TOMS CREE	K AT EGYP	T MILLS,	PA (LAT	41 07 33N	LONG 074	57 20W)			
MAY 2001						2.2	100202	222					
AUG			.136	E.004		.006	<.018	.008			1.3		50
20			.306	<.006		.011	<.020	.013			.76	44	51

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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLITED (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)	ACETO- CHLOR, WATER FITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FITRD 0.7 U GF, REC (UG/L) (82680)
			01433510	MONGAUP	RIVER AT	MONGAUP N	Y (LAT 4	1 25 36N	LONG 074	45 22W)			
MAY 2001													
AUG	53	<2.0	E8	30	14.0		3	<.004	<.002	<.005	<.007	<.010	<.041
23 23	52	<2.0	<13	M	<3.0		2	<.004 <.004	<.002 <.002	<.005 <.005	<.007 .011	<.010 <.010	<.041 <.041
		0143	5000 NEV	ERSINK RI	VER NEAR	CLARYVILL	E NY (LA	т 41 53 2	4N LONG O	74 35 25W)		
											•		
OCT 2000 16 MAY 2001	16	2.0	<13	<10	E2.3	.16	1	<.004	<.002	<.005	<.007	<.010	<.041
10			<13	<10	<3.2		<1						
AUG	17		<13	<10	E1.8		<1	<.004	<.002	<.005	<.007	<.010	<.041
23	19	<2.0	<13	<10	E1.9	.11	2	<.004	<.002	<.005	<.007	<.010	<.041
		0143830	2 VANDER	MARK CREE	K AT MOUT	H AT MILF	ORD, PA	(LAT 41 1	9 20N LON	G 074 47	44W)		
MAY 2001													
08	62	<2.0	<13	м	<3.2	.02	1	<.004	<.002	<.005	<.007	<.010	<.041
21	104	<2.0	20	<10	<3.0		<1	<.004	<.002	<.005	<.007	<.010	<.041
		01438396	SAWKILL	CREEK 200	O FT AB M	OUTH AT M	ILFORD, P.	A (LAT 4	1 19 08N	LONG 074	48 10W)		
MAY 2001													
08	74	<2.0	<13	20	E1.9		<1	<.004	<.002	<.005	<.007	<.010	<.041
AUG 21	95	<2.0	E12	<10	3.3		<1	<.004	<.002	<.005	<.007	<.010	<.041
	01	438399 S	HIMERS BR	OOK AT MI	LLVILLE R	OAD NEAR	MONTAGUE I	NJ (LAT	41 18 47N	LONG 074	46 44W)		
MAY 2001													
08 AUG	168	6.1	<13	20	3.6	.09	8	<.004	<.002	<.005	E.002	<.010	<.041
21	239	<2.0	15	<10	E2.9	.07	16	<.004	<.002	<.005	<.007	<.010	<.041
	014	38712 RA	YMONDSKIL	L CR BL S	WALE BROO	K NR SILV	ER SPRING	PA (LAT	41 18 19	N LONG 07	4 51 05W)		
MAY 2001													
07 AUG	58	2.3	<13	100	27.0	.07	2	<.004	<.002	<.005	E.002	<.010	<.041
21	56	<2.0	E7	90	6.5	.03	2	<.004	<.002	<.005	<.007	<.010	<.041
	01	438890 D	INGMANS C	R BL FULM	ER FALLS	NR DINGMA	NS FERRY,	PA (LAT	41 13 52	N LONG 07	4 54 37W)		
MAY 2001													
07 AUG	37	<2.0	<13	60	16.2	.15	8	.164	.023	<.005	.023	<.010	E.007
20	51	<2.0	E9	M	33.6	.00	3	<.004	<.002	<.005	<.007	<.010	<.041
		0	1439400	TOMS CREE	K AT EGYP	T MILLS,	PA (LAT	41 07 33N	LONG 074	57 20W)			
MAY 2001													
07	48	<2.0	<13	м	E2.4		<1	<.004	<.002	<.005	<.007	<.010	<.041
20	50	<2.0	E7	<10	E2.2		<1	<.004	<.002	<.005	<.007	<.010	<.041

E Estimated value.

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

M Presence of material verified but not quantified.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	CARBO- FURAN WATER FLITD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FL/TRD 0.7 U GF, REC (UG/L) (82668)	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)	MOL- INATE WATER FLITRD 0.7 U GF, REC (UG/L) (82671)
			01433510	MONGAUP	RIVER AT	MONGAUP N	Y (LAT 4	1 25 36N	LONG 074	45 22W)			
MAY 2001													
09 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
23 23	<.020 <.020	<.005	<.003	<.005	<.005 <.005	<.002 <.002	<.004 <.004	<.035 <.035	<.027 <.027	<.050 <.050	<.013 E.004	<.006 <.006	<.002 <.002
		0143	5000 NEV	ERSINK RI	VER NEAR	CLARYVILL	ENY (LA	T 41 53 2	4N LONG 0	74 35 25W)		
OCT 2000													
16 MAY 2001	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
10 10	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
23	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		0143830	2 VANDER	MARK CREE	K AT MOUT	H AT MILF	ORD, PA	(LAT 41 1	9 20N LON	G 074 47	44W)		
MAY 2001													
08 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		01438396	SAWKILL	CREEK 200	O FT AB M	OUTH AT M	ILFORD, P	A (LAT 4	1 19 08N	LONG 074	48 10W)		
MAY 2001													
08 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.025	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
	01	438399 S	HIMERS BE	OOK AT MI	LLVILLE R	OAD NEAR	MONTAGUE	NJ (LAT	41 18 47N	LONG 074	46 44W)		
MAY 2001 08	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG 21	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
												11000	******
	014	38/12 RA	YMONDSKII	L CR BL S	WALE BROO	K NR SILV	ER SPRING	PA (LAT	41 18 19	N LONG U/	4 2T (2M)		
MAY 2001 07 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
	01	438890 D	INGMANS C	R BL FULM	ER FALLS	NR DINGMA	NS FERRY,	PA (LAT	41 13 52	N LONG 07	4 54 37W)		
MAY 2001													
07 AUG	E.045	<.005	<.003	E.002	<.005	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.002
20	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		0	1439400	TOMS CREE	K AT EGYP	T MILLS,	PA (LAT	41 07 33N	LONG 074	57 20W)			
MAY 2001		10.00	1000	200				1.5	3.534		20.000		
07	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
20	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002

E Estimated value.
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DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	P,P' DDE DISSOLV	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLITED 0.7 U GF, REC (UG/L)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L)	ALIN WAT FLT 0.7 U	
	(82684)	(34653)	(82683)	(82670)	(82665)	(82681)	(82661)	
0143	3510 MONG	AUP RIVER	AT MONGA	UP NY (L)	AT 41 25	36N LONG	074 45 2	2W)
MAY 2001	<.007	<.003	- 010	. 016	<.034	<.005	- 000	
09	1.007	1.003	<.010	<.016	1.034	1.005	<.009	
23	<.007	<.003	<.010		<.034	<.005	<.009	
23	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
0143500	0 NEVERSI	NK RIVER	NEAR CLAR	YVILLE NY	(LAT 41	53 24N I	ONG 074	35 25W)
OCT 2000								
16 MAY 2001 10	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
10	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG 23	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
								St. 20.703
01438302	VANDERMAR	K CREEK A	T MOUTH A	T MILFORD,	, PA (LA	T 41 19 2	ON LONG	074 47 44W)
MAY 2001								
08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
	SAWKILL C	REEK 2000	FT AB MC	OUTH AT MII	LFORD. PA	(LAT 41	19 08N	LONG 074 48 10W)
	720000000000000000000000000000000000000						100000000000000000000000000000000000000	
MAY 2001 08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG								
21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01438399	SHIMERS B	ROOK AT M	HILLVILLE	ROAD NEAR	MONTAGUE	NJ (LAT	41 18 4	7N LONG 074 46 44W)
MAY 2001								
08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01438712	RAYMONDSK	ILL CR BL	SWALE BE	OOK NR SI	LVER SPRI	NG PA (I	AT 41 18	19N LONG 074 51 05W)
MAY 2001								
07	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG 21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01438890								52N LONG 074 54 37W)
MAY 2001								
07	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG 20	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01439	400 TOMS	CREEK AT	EGYPT MII	LS, PA (1	LAT 41 07	33N LONG	074 57	20W)
MAY 2001 07	<.007	<.003	<.010	<.016	<.034	<.005	<.009	

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
		01439680 L	ITTLE BUSHKI	LL CREEK	AT BUSHKI	LL, PA	LAT 41 05	52N LONG	075 00 1	.5W)		
MAY 2001												
08	1640	ENVIRONMENTAL	22	762	115	11.9	6.9	51	21.0	13.7	14	3.48
AUG 20	1050	ENVIRONMENTAL	3.9	752	105	9.5	6.9	61	31.0	19.7	18	4.31
		01440000	FLAT BROOK	NEAR FLAT	BROOKVILL	ENJ (LA	T 41 06 2	4N LONG	74 57 09W	7)		
MAY 2001												
10	1618	FIELD BLANK							44			
10	1619	FIELD BLANK								10.4		E. 01
AUG	1620	ENVIRONMENTAL	55	757	100	9.3	8.0	235	30.5	18.4	87	25.6
23	1550	ENVIRONMENTAL	13	755	104	9.4	8.1	285	20.0	19.6	110	32.3
		01440304 B	RODHEAD CREE	K NEAR MO	UNTAINHOM	E, PA (I	AT 41 09	49N LONG	075 14 24	W)		
MAY 2001												
15	0950	ENVIRONMENTAL	28	737	101	11.0	6.9	73	17.0	10.3	19	5.22
AUG 21	1110	ENVIRONMENTAL	11	737	104	9.7	7.3	87	24.0	17.4	21	5.78
		01442550 MARS	SHALLS CREEK	NEAD MAD	GHATTE CO	PPK DA	(LAT 41 0	4 09N TON	G 075 08	24W)		
		V2.1.000 1.00	January Causas				(1111 -11 0	- 0511 201				
MAY 2001 15	1150	ENVIRONMENTAL	6.2	740	100	10.6	7.2	82	18.0	11.2	25	7.59
AUG		ENVIRONMENTAL	0.2	740	100	10.6	1.2	57	10.0			
21	0910	ENVIRONMENTAL	1.6	743	96	8.9	7.2	92	21.0	17.8	29	8.48
		01447120	LEHIGH RIVE	R NEAR GO	ULDSBORO,	PA (LAT	41 14 13	N LONG 07	5 30 04W)			
MAY 2001												
08	1050	ENVIRONMENTAL	22	720	106	10.0	6.9	74	20.0	15.4	16	4.91
21	1600	ENVIRONMENTAL	6.9	714	102	8.6	7.3	75	21.0	20.2	19	5.96
		01447530	TOBYHANNA C	REEK AT W	ARNERTOWN	PA (LA	T 41 09 4	2N LONG 0	75 27 21W	1)		
										•		
MAY 2001 08	0850	ENVIRONMENTAL	26	722	108	10.8	7.1	135	12.0	12.7	19	5.88
AUG											42	
21	1740	ENVIRONMENTAL	9.1	713	101	8.6	7.3	127	22.5	20.0	22	6.78
		01467000 NORTE	H BRANCH RAN	COCAS CRE	EK AT PEM	BERTON NJ	(LAT 39	58 12N L	ONG 074 4	1 05W)		
OCT 2000												
03	1220	ENVIRONMENTAL	169	761	105	10.3	4.4	48	22.5	16.2	7	1.63
MAY 2001 16	0920	ENVIRONMENTAL	80	757	90	8.7	5.9	57	14.5	16.6	9	2.23
AUG					15.7							
29	0940	ENVIRONMENTAL	52	761	83	7.1	6.3	53	29.5	23.2	9	2.07

E Estimated value.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

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)	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 DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
		01439	680 LITT	LE BUSHKI	LL CREEK	AT BUSHKI	LL, PA (LAT 41 05	52N LONG	075 00 1	.5W)		
MAY 2001													
08	1.25	.27	3.5			6.0	<.2	2.1	6.6	.16	.18	<.041	.24
20	1.65	.42	4.1	9	11	7.1	<.2	3.9	5.8	.12	.23	<.040	.36
		014	40000 FI	AT BROOK	NEAR FLAT	BROOKVILL	ENJ (LA	T 41 06 2	4N LONG 0	74 57 09W	1)		
MAY 2001													
10				22	4-1			44				22	
10	<.008	<.09	<.1			<.1	<.2	<.1	<.1	<.10	<.08	<.041	
AUG	5.52	.50	10.5	73	89	18.3	<.2	4.0	13.3	.10	.17	<.041	.29
23	8.16	.62	11.2	92	112	20.9	<.2	3.4	19.3	.10	.10	<.040	
		01440	304 BROI	HEAD CREE	K NEAR MO	UNTAINHOM	E, PA (L	AT 41 09	49N LONG	075 14 24	W)		
MAY 2001													
15 AUG	1.42	.43	5.7	9	11	10	<.2	3.5	6.4	E.05	.09	<.041	.35
21	1.69	.47	7.0	12	14	12.3	<.2	3.4	6.4	E.08	E.08	<.040	
		0144255	0 MARSH	LLS CREEK	NEAR MAR	SHALLS CR	EEK, PA	(LAT 41 0	4 09N LON	G 075 08	24W)		
MAY 2001													
15	1.57	.38	5.1	11	13	8.2	<.2	6.1	10.3	<.10	.23	<.040	.49
21	1.84	.38	5.4	16	20	9.9	<.2	7.9	9.1	E.07	.15	<.040	.31
		014	47120 LE	HIGH RIVE	R NEAR GO	ULDSBORO,	PA (LAT	41 14 13	N LONG 07	5 30 04W)			
MAY 2001													
08	.840	.47	6.0	5	7	11.2	<.2	.7	6.2	E.10	.21	<.041	.31
21	1.06	.31	6.0	9	10	11.8	<.2	1.8	4.7	.17	.23	<.040	.31
		014	47530 TO	BYHANNA C	REEK AT W	ARNERTOWN	, PA (LA	T 41 09 4	2N LONG 0	75 27 21W	"		
MAY 2001													
08	1.06	. 67	15.7	5	6	26.9	<.2	.6	9.4	E.10	.20	<.041	.44
21	1.32	.88	14.3	12	15	24.0	<.2	1.2	8.0	.21	.26	<.040	.44
		01467000	NORTH E	RANCH RAN	COCAS CRE	EK AT PEM	BERTON NJ	(LAT 39	58 12N L	ONG 074 4	1 05W)		
OCT 2000 03 MAY 2001	.661	.73	3.3	<1	12	5.8	<.1	4.0	6.4	.27	.35	.026	.40
16	.918	1.20	5.0	0	м	7.7	<.2	3.5	8.3	.23	.44	<.041	.50
AUG 29	.898	1.05	4.7			7.4	<.2	4.0	6.5	.19	.28	<.040	

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

	NITRO- GEN DIS-	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN, ORGANIC	NITRO- GEN, PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	PHOS- PHORUS ORTHO, DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE	SOLIDS, RESIDUE AT 180 DEG. C
DATE	SOLVED (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	SUSP (MG/L	SOLVED (MG/L	SOLVED (MG/L	TOTAL (MG/L	TOTAL (MG/L	TOTAL (MG/L	SOLVED (MG/L	TOTAL (MG/L	DIS- SOLVED
DATE	AS N)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
	(00602)	(00631)	(00613)	(00605)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(70300)
		01439	680 LITT	LE BUSHKI	LL CREEK	AT BUSHKI	LL, PA	(LAT 41 05	52N LONG	075 00 1	15W)		
MAY 2001													
08	.21	.057	E.003			.010	<.018	.015		"	3.9		42
20	.25	.127	<.006			.011	<.020	.015			3.0		41
		014	40000 FL	AT BROOK	NEAR FLAT	TBROOKVILL	ENJ (L	AT 41 06 2	4N LONG 0	7 4 57 09V	4)		
MAY 2001													
10													
10		<.047	.006		77.	<.006	<.018	<.004					<10
AUG	.21	.111	.009		.036	.006	<.018	.014	.3	м	1.8	E.3	140
23		<.050	<.006			E.004	<.020	.006			1.4		165
		01440	304 BROD	HEAD CREE	K NEAR MO	UNTAINHOM	E, PA (LAT 41 09	49N LONG	075 14 24	iw)		
MAY 2001													
15		.254	.007			.012	E.013	.012			1.3		51
21		.257	<.006			.012	E.010	.015			.94		49
		0144255	0 MARSHA	LLS CREEK	NEAR MAR	RSHALLS CR	EEK, PA	(LAT 41 0	4 09N LON	G 075 08	24W)		
MAY 2001													
15 AUG		.267	.007			.021	.022	.028			1.6		60
21		.158	<.006			.027	E.017	.041			2.0		62
		014	47120 LE	HIGH RIVE	R NEAR GO	ULDSBORO,	PA (LA	r 41 14 13	N LONG 07	5 30 04W)			
MAY 2001													
08		.100	<.006			E.004	<.018	.012			3.4		48
21	.25	.084	<.006			<.006	<.020	.008			3.9		50
		014	47530 TO	BYHANNA C	REEK AT W	ARNERTOWN	, PA (L	AT 41 09 4	2N LONG 0	75 27 21W	7)		
MAY 2001													
08		.246	.014			.007	<.018	.014			3.6		76
21	.39	.176	<.006			.007	<.020	.014			4.6		76
		01467000	NORTH B	RANCH RAN	COCAS CRE	EK AT PEM	BERTON N	(LAT 39	58 12N L	ONG 074 4	11 05W)		
OCT 2000													
03 MAY 2001	.33	.051	<.010	.32		.010	<.010	.034			9.5	.9	43
16 AUG	.29	.059	<.006		.106	.009	<.018	.054	1.4	<.1	7.7	1.4	43
29		E.065	<.006		.140	.009	<.020	.043	1.1	<.1	5.0	1.0	34

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING,--Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLIED (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)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)
		01439	680 LITT	LE BUSHKI	LL CREEK	AT BUSHKI	LL, PA ((LAT 41 05	52N LONG	075 00 1	5W)		
MAY 2001													
08	28	2.6	<13	50	8.9	.34	6	<.004	<.002	<.005	E.003	<.010	<.041
20	33	<2.0	E6	30	14.6		<1	<.004	<.002	<.005	<.007	<.010	<.041
		014	40000 FL	AT BROOK	NEAR FLAT	BROOKVILL	ENJ (LA	AT 41 06 2	4N LONG	74 57 09W	")		
MAY 2001													
10		-22			122		1440	<.004	<.002	<.005	<.007	<.010	<.041
10			<13	<10	<3.2	-5.							
AUG	122	<2.0	E10	50	12.6	.21	1	<.004	<.002	<.005	E.003	<.010	<.041
23	151	<2.0	E13	20	<3.0	.05	1	<.004	<.002	<.005	<.007	<.010	<.041
		01440	304 BROD	HEAD CREE	K NEAR MO	UNTAINHOM	E, PA (I	AT 41 09	49N LONG	075 14 24	W)		
MAY 2001													
15 AUG	39	<2.0	E9	10	5.8		<1	<.004	<.002	<.005	E.002	<.010	<.041
21	45	<2.0	E12	м	E2.0		<1	<.004	<.002	<.005	<.007	<.010	<.041
		0144255	0 MARSHA	LLS CREEK	NEAR MAR	SHALLS CR	EEK, PA	(LAT 41 0	4 09N LON	G 075 08	24W)		
MAY 2001 15 AUG	47	2.5	E7	м	4.2	.05	3	<.004	<.002	<.005	<.007	<.010	<.041
21	53	2.4	E11	10	5.9	.01	3	<.004	<.002	<.005	<.007	<.010	<.041
		014	47120 LE	HIGH RIVE	R NEAR GO	ULDSBORO,	PA (LAT	41 14 13	N LONG 07	5 30 04W)			
MAY 2001													
08	34		E10	80	27.5	.12	2	<.004	<.002	<.005	.009	<.010	<.041
21	37	<2.0	E12	110	15.0	.02	1	<.004	<.002	<.005	E.002	<.010	<.041
		014	47530 TO	BYHANNA C	REEK AT W	ARNERTOWN	, PA (LA	AT 41 09 4	2N LONG	75 27 21W	")		
MAY 2001													
08	65		E10	80	16.4	.26	4	<.004	<.002	<.005	E.004	<.010	<.041
21	65	<2.0	16	70	14.1	.02	1	<.004	<.002	<.005	<.007	<.010	<.041
		01467000	NORTH B	RANCH RAN	COCAS CRE	EK AT PEM	BERTON NJ	J (LAT 39	58 12N I	ONG 074 4	1 05W)		
OCT 2000		2.3	1253	(2)4				10.22	A 8.3.	3.5	50.00		
03 MAY 2001		2.6	E12	780	16.5	1.7	4	<.004	<.002	<.005	<.007	<.010	<.041
16	30	4.1	13	480	23.2	.43	2	<.004	<.002	<.005	E.003	<.010	E.007
29		5.0	19	560	18.6	.51	4	<.004	<.002	<.005	<.007	<.010	E.012

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

DATE	CARBO- FURAN WATER FLITED 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DCPA WATER FLITRD 0.7 U GF, REC (UG/L) (82682)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLITD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLITD 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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
		01439	680 LITI	LE BUSHKI	LL CREEK	AT BUSHKI	LL, PA	(LAT 41 05	52N LONG	075 00 1	.5W)		
MAY 2001 08	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
20	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		014	40000 FI	AT BROOK	NEAR FLAT	BROOKVILL	ENJ (L	AT 41 06 2	4N LONG 0	74 57 09W	1)		
MAY 2001 10 10	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
23	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		01440	304 BROD	HEAD CREE	K NEAR MO	UNTAINHOM	E, PA (LAT 41 09	49N LONG	075 14 24	W)		
MAY 2001													
15 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		0144255	0 MARSHA	LLS CREEK	NEAR MAR	RSHALLS CR	EEK, PA	(LAT 41 0	4 09N LON	G 075 08	24W)		
MAY 2001													
15 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.004	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		014	47120 LE	HIGH RIVE	R NEAR GO	ULDSBORO,	PA (LA	r 41 14 13	N LONG 07	5 30 04W)			
MAY 2001 08 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.004	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		014	47530 TO	BYHANNA C	REEK AT W	ARNERTOWN	, PA (L	AT 41 09 4	2N LONG 0	75 27 21W	1)		
MAY 2001													
08 AUG	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
21	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
		01467000	NORTH B	RANCH RAN	COCAS CRE	EK AT PEM	BERTON N	J (LAT 39	58 12N L	ONG 074 4	1 05W)		
OCT 2000													
03 MAY 2001	<.020	E.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002
16	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.002
AUG 29	<.020	<.005	<.003	<.005	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.002

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM SURFACE-WATER SYNOPTIC SAMPLING, --Continued MAY 7 THROUGH MAY 16, AND AUGUST 20 THROUGH AUGUST 29 2001

	NAPROP- AMIDE WATER FLIRD 0.7 U	P,P'	PENDI- METH- ALIN WAT FLT 0.7 U	TEBU- THIURON WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U	
DATE	GF, REC (UG/L) (82684)	DISSOLV (UG/L) (34653)	GF, REC (UG/L)	GF, REC (UG/L)		GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)	
01439680	LITTLE BU	SHKILL CR	REEK AT BU	SHKILL, P	A (LAT	11 05 52N	LONG 075	00 15W)
MAY 2001								
08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
20	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01440000	FLAT BE	OOK NEAR	FLATBROOF	WILLE NJ	(LAT 41	06 24N LC	ONG 074 57	09W)
MAY 2001								
10	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
10 10	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG								
23	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01440304	BRODHEAD	CREEK NE	AR MOUNTA	LINHOME, P	A (LAT 4	11 09 49N	LONG 075	14 24W)
MAY 2001								
15	<.007	E.001	<.010	<.016	<.034	<.005	<.009	
21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01442550	MARSHALLS	CREEK NE	EAR MARSHA	LLS CREEK	, PA (L	AT 41 04 0	9N LONG 0	75 08 24W)
MAY 2001								
15	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
0144712	0 LEHIGH	RIVER NE	EAR GOULDS	BORO, PA	(LAT 41	14 13N L	ONG 075 30	04W)
MAY 2001								
08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG 21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01447530	TOBYHAN	INA CREEK	AT WARNER	TOWN, PA	(LAT 41	09 42N L	ONG 075 27	21W)
MAY 2001								
08	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
AUG 21	<.007	<.003	<.010	<.016	<.034	<.005	<.009	
01467000	NORTH BRA	NCH RANCO	CAS CREEK	AT PEMBE	RTON NJ	(LAT 39 5	8 12N LON	G 074 41 05V
OCT 2000								
03	.007	<.003	<.010	E.006	E.041	<.005	<.009	
MAY 2001 16	<.007	<.003	<.010	E.006	<.034	<.005	<.009	
AUG								
29	<.007	<.003	<.010	<.016	<.034	<.005	<.009	

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

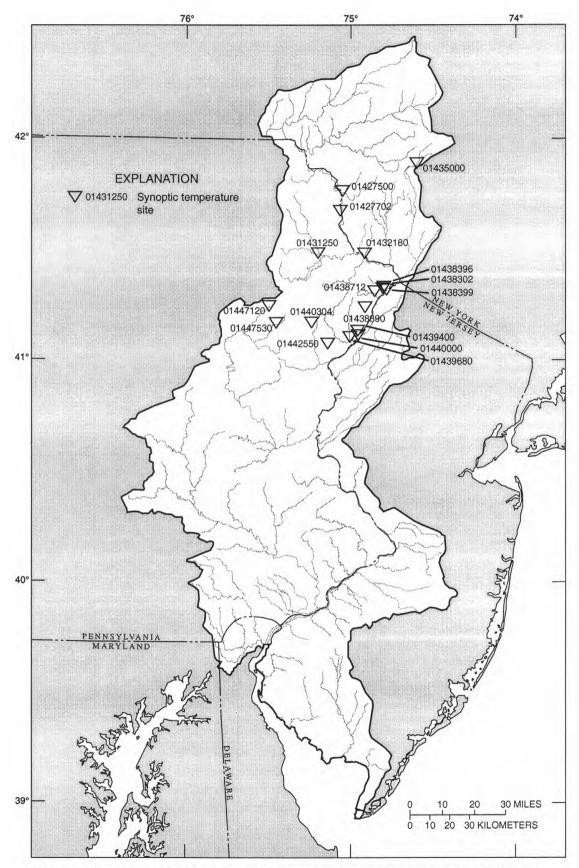


Figure 60. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, water temperature synoptic study, water year 2001.

Continous water-temperature data were collected at the Delaware River Basin National Water-Quality Assessment (DELR NAWQA) synoptic sites from August 1 through September 19, 2001. 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 collected as part of the DELR NAWQA synoptic study are listed in "Water Quality at Miscellaneous Surface-Water Sites."

01427500 CALLICOON CREEK AT CALLICOON, NY (LAT 41 45 39N LONG 07502 55W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1										22.5	18.0	20.5
2							25.5	18.5	21.5	21.0	15.0	17.5
3							23.5	20.0	21.5	21.5	14.0	17.5
4							24.5	20.0	22.0	20.0	16.0	17.5
5							25.5	20.0	22.5	21.0	15.0	17.5
6				4444		444	26.5	19.5	22.5	20.5	13.5	16.5
7							27.0	20.5	23.0	21.0	14.0	17.0
8							26.0	21.0	23.0	21.5	15.0	18.0
9							27.5	20.5	23.0	23.0	17.0	19.0
10							23.5	21.5	22.5	20.5	18.0	19.0
11							22.5	20.0	21.5	21.5	16.5	18.5
12							21.5	20.0	21.0	21.0	14.5	17.0
13							23.0	20.5	21.5	20.5	14.5	17.0
14							23.0	19.0	21.0	18.0	14.0	16.0
15							24.0	18.0	21.0	17.5	11.5	14.0
16				222			23.5	18.5	21.0	18.0	11.5	14.0
17							23.5	20.0	21.5			
18							22.0	18.5	20.0			
19							23.5	18.5	20.5			
20							24.5	20.0	21.5			
21				444			22.0	18.5	20.5			
22							24.0	17.5	20.0			
23							19.5	17.0	18.0			
24							23.0	17.0	19.5			
25							23.5	16.0	19.0			
26							22.5	17.0	19.5			
27							21.5	19.0	20.0			
28							22.0	17.0	19.0			
29							23.5	18.0	20.0			
30							20.5	16.5	18.5			
31							23.5	18.5	20.5			
MONTH				2-2	-222	222	27.5	16.0	20.9			

01427702 CALKINS CREEK 1200 FEET ABOVE MOUTH AT MILANVILLE, PA (LAT 41 40 22N LONG 075 03 53W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1										20.5	19.0	20.0
2							21.5	18.0	20.0	19.0	16.5	17.5
3							22.0	19.5	20.5	18.5	16.0	17.0
4							22.0	20.5	21.0	18.5	16.5	17.5
5							23.0	20.0	21.5			
6							22.5	20.0	21.0			
7							23.0	20.5	21.5			
8							23.5	21.0	22.5			
9							23.5	20.5	22.0			
10							23.0	21.5	22.0			
11							22.0	20.5	21.0			
12							21.5	20.5	21.0			
13							22.0	21.0	21.5			
14							21.5	19.5	20.5			
15							21.5	18.5	20.0			
16							21.5	19.0	20.0			
17							21.5	20.0	20.5			
18							21.0	19.0	20.0			
19							21.0	19.0	20.0			
20							21.5	20.0	20.5			
21							21.0	19.0	20.0			
22							20.5	18.5	19.5			
23							20.0	18.0	18.5			
24							20.5	18.0	19.0			
25							20.0	17.5	19.0			
26							20.0	18.0	19.0			
27							20.0	19.0	19.5			
28							20.0	18.5	19.0			
29							20.0	18.5	19.0			
30							19.5	17.5	18.5			
31							20.5	18.5	19.5			
MONTH							23.5	17.5	20.5			

01431250 MIDDLE CREEK AT HAWLEY, PA (LAT 41 28 49N LONG 075 12 03W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 0,,							
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1										22.5	19.5	21.0
2							26.5	20.5	23.5	22.0	17.5	19.5
3							27.0	22.0	24.5	21.5	16.0	18.5
4							26.0	22.5	24.0	19.5	17.0	18.5
5							27.5	22.5	25.0	20.5	16.5	18.5
5							27.5	22.3	25.0	20.5	20.5	20,0
6							28.0	22.5	25.5	20.5	14.5	18.0
7							28.5	23.5	26.0	21.5	15.0	18.5
8							29.5	23.5	26.5	22.0	16.5	19.5
9							29.5	23.0	26.5	22.5	17.5	20.0
10							27.0	25.0	26.0	22.0	19.5	20.5
11							25.0	22.0	23.5	21.0	17.0	19.0
12							24.0	22.0	23.0	20.5	15.5	18.5
13							26.0	22.5	24.0	21.0	15.5	18.5
14							25.5	21.5	23.5	19.0	15.5	17.5
15							25.0	20.0	22.5	17.5	13.0	15.5
16							25.0	20.0	22.5	18.0	12.5	15.5
17							24.5	22.0	23.0	18.0	12.5	15.5
18							24.0	19.5	22.0			
19							24.0	19.5	22.0			
20							25.0	21.5	23.0			
21							23.5	19.5	22.0			
22							23.5	18.5	21.5			
23							21.0	18.5	20.0			
24							23.0	18.5	21.0			
25							23.0	17.5	20.5			
26							23.0	18.0	21.0			
27							22.0	20.5	21.0			
28							23.5	18.5	21.0			
29							23.5	19.0	21.0			
30							22.0	17.5	19.5			
31							23.5	19.0	21.5			
MONTH							29.5	17.5	22.9			
MONTH							29.5	17.5	22.5			

01432180 HALFWAY BROOK AT BARRYVILLE, NY (LAT 41 28 38N LONG 074 54 39W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
							3.20				SEPTEMBE	
		JUNE			JULY			AUGUST			SEPTEMBE	ik.
1										20.5	17.0	19.0
2							21.5	17.5	19.0	18.0	14.5	16.0
3							22.0	18.5	20.0	18.0	13.5	15.5
4							22.0	19.5	20.5	16.5	14.5	15.5
5							23.0	19.5	20.5	17.5	14.5	15.5
6							23.5	19.5	21.0	17.0	13.0	15.0
7							24.0	20.0	21.5	17.5	13.0	15.5
8							24.0	20.5	22.0	18.5	14.0	16.5
9							24.5	20.5	22.0	19.0	15.5	17.0
10							23.5	21.0	22.0	18.5	17.0	17.5
11							22.0	20.0	20.5	18.5	15.5	17.0
12							20.5	19.5	20.0	17.5	14.0	15.5
13							22.0	19.5	20.5	17.5	14.0	15.5
14							21.5	19.0	20.0	16.5	13.5	15.0
15							21.5	18.0	19.5	14.5	11.5	13.0
16							21.5	17.5	19.5	14.5	11.0	13.0
17							21.0	19.0	19.5	15.0	11.5	13.0
18							20.5	17.5	19.0	14.5	11.5	13.0
19							21.0	17.5	19.0			
20							21.5	18.5	20.0			
21							20.0	17.5	19.0			
22							20.5	16.5	18.5			
23							18.0	16.0	17.0			
24							20.0	16.5	18.0			
25							20.0	16.0	18.0			
26							20.0	16.0	18.0			
27							18.5	17.5	18.0			
28							20.5	17.5	18.5			
29							20.0	17.0	18.0			
30							18.0	15.5	17.0			
31							20.5	17.0	18.5			
MONTH							24.5	15.5	19.5			

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY (LAT 41 53 24N LONG 074 35 25W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LEDIFE	MAI ONE,	WATER (DEG	. C), H2	HER TEAM	OCTODEN 2	.000 10	our runnin	2002		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1										20.5	15.5	17.5
2										19.5	13.0	15.5
3										20.0	12.5	15.5
4										18.0	14.5	16.0
5										20.0	14.0	16.0
6										19.5	12.5	15.5
7							22.0	16.5	19.0	20.5	13.0	16.0
8							23.0	16.5	19.0	20.5	13.5	16.5
9							24.0	16.5	19.5	20.0	14.5	17.0
10							20.5	17.5	19.0	17.5	15.5	16.5
11							20.0	16.0	18.0	19.5	13.5	16.0
12							18.0	16.5	17.0	19.5	13.0	15.5
13							20.0	16.5	18.0	19.0	13.0	15.5
14							20.0	16.0	17.5	16.0	13.5	14.5
15							21.0	14.5	17.0	17.5	11.0	13.5
16							20.0	15.5	17.5	18.0	11.0	14.0
17							20.5	16.5	17.5	18.0	11.5	14.0
18							19.5	15.5	17.0	17.5	12.0	14.5
19							20.5	15.5	17.5	17.0	12.5	14.5
20							20.0	16.5	17.5			
21							19.0	15.0	17.0			
22							21.0	14.5	17.0			
23							16.5	14.5	16.0			
24							21.0	15.0	17.5			
25							21.0	14.0	17.0			
26							20.0	15.0	17.0			
27							19.0	16.0	17.0			
28							20.0	14.5	16.5			
29							20.0	14.5	16.5			
30							17.0	14.0	15.5			
31							21.0	15.5	17.5			
MONTH							24.0	14.0	17.5			

01438302 VANDERMARK CREEK AT MOUTH AT MILFORD, PA (LAT 41 19 20N LONG 074 47 44W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1							18.0	14.5	16.0			
2							19.0	15.5	17.0			
3							19.0	16.5	17.5			
4							18.0	16.5	17.5			
5							19.0	16.5	17.5			
6							20.0	17.0	18.0			
7							21.0	17.5	19.0			
8							21.0	18.0	19.5			
9							21.5	18.0	19.5			
10							20.5	19.0	20.0			
11							19.5	17.5	18.0			
12							18.0	17.0	17.5			
13							19.0	17.5	18.0			
14							19.0	17.5	18.0			
15							18.5	16.5	17.5			
16							18.5	16.0	17.0			
17							18.5	17.0	17.5			
18							18.0	15.5	17.0			
19							18.0	16.0	17.0			
20							19.0	17.0	17.5			
21							17.5	16.0	17.0			
22							18.0	15.5	16.5			
23							16.5	15.0	15.5			
24							17.5	15.0	16.0			
25							17.5	14.0	15.5			
26							17.5	14.0	16.0			
27							17.0	16.0	16.5			
28							18.0	15.5	16.5			
29							17.5	15.0	16.0			
30							16.5	14.5	15.5			
31												
MONTH							21.5	14.0	17.5			

01438396 SAWKILL CREEK 2000 FEET ABOVE MOUTH AT MILFORD, PA (LAT 41 19 08N LONG 074 48 10W) TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY MAX MIN MAX MIN MEAN MAX MIN MEAN MEAN MAX MIN MEAN SEPTEMBER JUNE JULY AUGUST 16.5 20.5 17.5 18.5 19.0 ---19.5 2 ---------------21.5 ---------------------------------21.5 3 5 ___ ___ ___ ___ ---22.0 18.5 20.0 ---------6 22.0 19.0 20.5 ------------------23.0 19.0 21.0 ---------___ ---------8 23.5 10 ------------------22.0 20.5 21.5 ---------21.0 19.5 20.0 12 ------------------20.0 19.0 19.0 19.5 ---------------------13 21.5 20.0 21.5 19.0 20.0 15 ---------21.0 19.5 ---------16 17.5 19.0 20.5 ---------------17 ------20.5 18.5 19.0 ------------17.0 17.5 18 ------20.0 18.5 19 20.0 20 ---------------20.5 19.5 ---------21 19.5 ------17.0 16.5 18.5 17.5 22 ------------19.5 ------------------------------23 18.5 25 ------------------19.0 15.5 17.5 ---------26 19.0 15.5 17.5 27 28 ---17.0 17.0 18.0 18.0 ------------------18.5 ------------------------------19.5 19.0 30 --31 MONTH ------------------23.5 15.5 19.3 ---------

01438399 SHIMERS BROOK AT MILLVILLE ROAD NEAR MONTAGUE, NJ (LAT 41 18 47N LONG 074 46 44W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1							22.0	19.0	20.5			
2							22.5	20.0	21.5			
3							23.0	21.5	22.0			
4							23.0	22.0	22.5			
5							23.5	21.5	22.5			
6							24.5	22.0	23.5			
7							25.0	23.0	24.5			
8							25.0	23.0	24.5			
9							26.0	23.0	24.5			
10							25.0	24.5	25.0			
11							25.0	22.0	23.0			
12							22.5	21.5	22.0			
13							23.5	22.5	23.0			
14							24.5	22.0	23.0			
15							24.5	21.0	23.0			
16							23.5	20.5	22.0			
17							22.0	21.0	21.5			
18							21.5	19.5	20.5			
19							22.0	20.0	21.0			
20							23.0	21.5	22.0			
21		222					22.0	20.5	21.5			
22							21.5	19.5	20.5			
23							20.5	18.5	19.5			
24							20.5	19.0	20.0			
25							20.5	18.0	19.0			
26							20.5	18.0	19.5			
27							21.0	20.0	20.5			
28							21.5	19.5	20.5			
29							21.0	19.0	20.0			
30												
31												
MONTH							26.0	18.0	21.8			

01438712 RAYMONDS CREEK BELOW SWALE BROOK NEAR SILVER SPRING, PA (LAT 41 18 19N LONG 074 51 05W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPE	RATURE, W	ATER (DEG	. C), WA	TER YEAR	OCTOBER 2	1000 10 1	SEP I EMBER	2001		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1							23.5	20.0	22.0	22.5	20.5	22.0
2							24.0	21.0	22.5	20.5	18.0	19.0
3							24.0	22.0	23.0	20.0	17.0	18.5
4							23.5	22.5	23.0	19.0	18.0	18.5
5							24.5	22.0	23.5	19.5	18.0	18.5
6							25.5	23.0	24.5	19.0	16.5	17.5
7							26.0	23.5	25.0	19.5	16.5	18.0
8							26.5	24.0	25.0	20.5	17.0	19.0
9							26.5	23.5	25.0	20.5	18.5	19.5
10							26.0	24.5	25.0	20.5	19.5	19.5
11							25.0	22.5	23.5	20.0	18.0	19.0
12							23.0	22.0	22.5	19.5	17.0	18.5
13							23.5	22.5	23.0	19.5	17.0	18.5
14							24.0	22.0	23.0	18.5	16.5	17.5
15							23.5	21.5	22.5	17.0	15.0	16.0
16							23.0	21.0	22.5	16.5	14.5	15.5
17							23.0	22.0	22.5	17.5	14.5	15.5
18							23.0	20.5	22.0	17.0	15.0	16.0
19							23.0	21.0	22.0			
20							23.5	21.5	22.5			
21							23.5	22.0	23.0			
22							22.5	20.5	21.5			
23							21.0	20.0	20.5			
24							21.5	19.0	20.5			
25							21.5	19.0	20.0			
26							21.5	19.0	20.0			
27							21.0	20.0	20.5			
28							22.0	19.5	20.5			
29							21.5	19.5	20.5			
30							20.5	19.0	20.0			
31							22.5	20.0	21.5			
MONTH			1.444				26.5	19.0	22.5			

01438890 DINGMANS CREEK BELOW FULMER FALLS NEAR DINGMANS FERRY, PA (LAT 41 13 52N LONG 074 54 37W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
		JUNE			DOLL			AUGUSI			J11 1111111	
1							19.5	16.5	18.0			
2							19.5	17.0	18.5			
3							20.5	18.5	19.5			
4							20.5	19.0	20.0			
5							21.5	19.0	20.5			
6							22.0	20.0	21.0			
7							23.0	20.5	21.5			
8							23.0	21.0	22.0			
9							22.5	20.5	21.5			
10							22.0	21.0	21.5			
11							21.0	19.5	20.0			
12							21.0	19.5	20.0			
13							21.5	20.5	21.0			
14							21.5	20.0	21.0			
15							20.5	18.5	19.5			
16							20.0	18.0	19.0			
17							20.0	19.0	19.5			
18							20.0	18.0	19.0			
19							19.5	18.0	18.5			
20							20.5	19.0	19.5			
21							19.5	17.5	18.5	444		
22							19.0	17.0	18.0			
23							18.0	16.5	17.0			
24							18.5	17.0	17.5			
25							18.0	15.5	17.0			
26							18.0	15.5	17.0			
27							18.5	17.5	18.0			
28							19.0	17.0	18.0			
29												
30												
31												
MONTH							23.0	15.5	19.4			

01439400 TOMS CREEK AT EGYPT MILLS, PA (LAT 41 07 33N LONG 074 57 20W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1				222			16.5	15.0	16.0			
2							17.5	15.5	16.5			
3							18.0	16.5	17.0			
4				2.1.2			17.5	16.5	17.0			
5							17.5	16.0	17.0			
6				222			18.0	16.5	17.5			
7							19.0	17.0	18.0			
8							18.5	17.5	18.0			
9							19.0	17.5	18.0			
10							19.0	18.0	18.5			
11							18.0	17.0	17.5			
12							17.0	16.5	17.0			
13							17.5	17.0	17.0			
14							17.5	16.5	17.0			
15							17.5	16.0	17.0			
16							17.5	16.0	16.5			
17							18.0	17.0	17.0			
18							17.0	16.0	16.5			
19							17.0	16.0	16.5			
20							18.0	17.0	17.5			
21							17.5	16.5	17.0			
22							17.0	16.0	16.5			
23							16.5	15.5	16.0			
24							16.5	15.5	16.0			
25							16.5	15.0	16.0			
26							16.5	15.0	16.0			
27							17.0	16.0	16.5			
28							17.5	16.0	17.0			
29												
30												
31												
MONTH							19.0	15.0	16.9			

01439680 LITTLE BUSHKILL CREEK AT BUSHKILL, PA (LAT 41 05 52N LONG 075 00 15W)
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

				WALLER (DEG.			OCTODIA					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1							19.0	16.0	17.5			
2							20.0	17.0	18.5			
3							20.0	18.0	19.0			
4							20.0	18.5	19.5			
5							21.0	18.5	19.5			
6							21.5	19.0	20.5			
7							22.5	19.5	21.0			
8							22.5	20.5	21.5			
9							23.0	20.5	21.5			
10							22.5	21.5	22.0			
11							21.5	19.5	20.5			
12							20.5	19.5	20.0			
13							21.0	20.5	20.5			
14							21.0	19.5	20.0			
15							20.5	18.5	19.5			
16							20.0	17.5	19.0			
17							20.5	19.0	19.5			
18							19.5	17.5	18.5			
19							19.5	18.0	18.5			
20							21.0	19.0	19.5			
21							19.5	18.0	18.5			
22							19.5	17.0	18.0			
23							17.5	16.5	17.0			
24							19.0	17.0	18.0			
25							19.0	16.0	17.5			
26							18.5	15.5	17.0			
27							18.5	17.5	18.0			
28												
29												
30												
31												
MONTH							23.0	15.5	19.3			

01440000 FLAT BROOK AT FLATBROOKVILLE, NJ (Lat 41 06 24N long 74 57 09W)

DAY		MIN	MEAN	MAX.	MIN	MEAN	MAX	MIN	SEPTEMBER MEAN	MAX	MIN	MEAN
	MAX	MIN	MEAN	MAX	MIN	MEAN	DIAL	MIN	DIEMN	Pina	PILIT	PHENT
		JUNE			JULY			AUGUST			SEPTEMBE	IR.
1										23.0	19.0	21.0
2										20.5	16.5	18.0
3										20.0	16.0	17.5
4										19.0	17.0	18.0
5										20.5	17.0	18.0
6										19.5	15.5	17.0
7							26.5	22.0	24.0	20.0	15.5	17.5
8							27.0	23.0	24.5	21.0	16.5	18.0
9							27.5	22.5	24.5	21.0	17.5	19.0
10							25.0	23.5	24.0	20.5	19.0	19.5
11							23.5	21.5	22.5	21.0	17.5	19.0
12							22.0	21.0	21.5	20.0	16.5	18.0
13							23.5	21.0	22.0	20.0	16.0	18.0
14							24.0	21.0	22.0	18.5	15.5	17.0
15							24.0	20.0	21.5	17.0	13.5	15.0
16							23.5	19.5	21.5	16.5	13.0	14.5
17							23.0	21.0	21.5	17.0	13.5	14.5
18							22.5	19.5	21.0	16.5	14.0	15.0
19							22.5	19.5	21.0	17.0	14.0	15.5
20				23.5	18.5	20.5	24.0	20.5	22.0			
21				24.0	18.0	20.5	22.5	20.0	21.0			
22				23.5	18.5	20.5	23.0	19.0	20.5			
23							20.5	18.5	19.5			
24							22.5	18.5	20.0			
25							21.5	18.0	19.5			
26							21.5	17.5	19.0			
27							21.0	19.5	20.0			
28							23.0	19.5	20.5			
29							23.0	19.5	20.5			
30							20.5	18.0				
31							22.5	19.5	20.5			
MONTH							27.5	17.5	21.5			

01440304 BRODHEAD CREEK NEAR MOUNTAINHOME, PA (LAT 41 09 49N LONG 075 14 24W) TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1												
2							20.5	16.0	18.0			
3							20.5	17.5	18.5			
4							19.0	17.5	18.5			
5							20.5	17.5	19.0			
6							21.0	18.0	19.5			
7							22.0	18.0	20.0			
8							22.5	19.0	20.5			
9							22.5	18.5	20.5			
10							20.5	19.5	20.0			
11							19.5	18.0	18.5	222		
12							19.0	17.5	18.0			
13							19.5	18.0	18.5			
14							20.5	17.5	18.5			
15							20.0	16.5	18.5			
16							20.0	16.5	18.5			
17							19.5	18.0	18.5			
18							19.5	16.5	18.0			
19							19.0	17.0	18.0			
20							20.5	17.5	18.5			
21							18.5	16.5	17.5			
22							19.5	16.0	17.5			
23							17.5	16.0	16.5			
24							19.0	16.0	17.5			
25							19.0	15.5	17.5			
26							19.0	15.5	17.0			
27												
28												
29												
30												
31												
MONTH							22.5	15.5	18.5			

01442550 MARSHALLS CREEK NEAR MARSHALLS CREEK, PA (LAT 41 04 09N LONG 075 08 24W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		- 610		MAIER (DEG		IEK IEKK						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		- 3	SEPTEMBE	R
1							19.0	16.5	17.5			
2							19.5	17.0	18.5			
3							20.0	18.5	19.0			
4							19.5	19.0	19.0			
5							20.5	18.0	19.5			
6							21.0	19.0	20.0			
7							22.0	19.5	21.0			
8							22.5	20.5	21.5			
9							22.5	20.5	21.5			
10							22.0	21.0	22.0			
11							21.0	19.5	20.0			
12							20.0	19.5	19.5			
13							20.5	19.5	20.0			
14							20.0	19.0	19.5			
15							20.0	18.0	19.0			
16							19.5	17.5	19.0			
17							20.0	19.0	19.5			
18							19.5	17.5	18.5			
19							19.5	18.0	18.5			
20							20.5	19.0	19.5			
21							19.5	18.0	18.5			
22							19.0	17.0	18.0			
23							18.0	17.0	17.5			
24							18.5	17.0	17.5			
25							18.5	16.5	17.5			
26							18.5	16.0	17.5			
27							18.5	17.5	18.0			
28												
29												
30												
31												
MONTH							22.5	16.0	19.2			

01447120 LEHIGH RIVER NEAR GOULDSBORO, PA (LAT 41 14 13N LONG 075 30 04W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1										21.5	18.0	20.0
2							23.0	18.0	21.0	18.5	14.5	16.5
3							22.5	19.5	21.0	19.0	14.5	17.0
4							25.0	20.0	22.5	19.0	17.0	18.0
5							26.5	22.5	24.0	19.0	16.5	17.5
6							26.5	22.5	24.5	18.0	14.0	16.0
7							27.0	22.5	24.5	19.0	14.0	16.5
8							27.5	23.5	25.5	19.5	15.5	18.0
9							27.5	22.5	25.0	20.5	17.5	19.0
10							25.5	23.5	24.5	19.5	18.0	19.0
11							23.5	21.0	22.0			
12							23.5	21.0	22.5			
13							24.0	22.0	23.0			
14							24.0	21.0	22.5			
15							23.5	19.5	21.5			
16							23.5	19.5	21.5			
17							23.0	21.0	22.0			
18							22.0	18.5	20.5			
19							22.5	18.5	20.5			
20							23.0	20.5	21.5			
21							21.0	18.0	19.5			
22							21.5	17.0	19.5			
23							20.0	17.5	18.5			
24							21.0	18.5	19.5			
25							21.5	17.0	19.0			
26							21.5	17.5	19.5	444		
27							20.5	19.5	20.0			
28							21.5	18.0	19.5			
29							21.0	18.0	19.5			
30							19.5	17.0	18.5			
31							22.5	19.0	20.5			
MONTH							27.5	17.0	21.5			

01447530 TOBYHANNA CREEK AT WARNERTOWN, PA (LAT 41 09 42N LONG 075 27 21W)

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		TEMPE	RATURE,	WATER (D	EG. C),	WATER Y	EAR OCTOBER	2000 TO	SEPTEMBER	2001		
DAY	MAX	MIN	MEAN	MAX	мп	N MEA	N MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	ER
1										21.0	18.5	20.0
2								18.0	20.5	18.5	15.5	17.0
3								20.0		19.0	15.0	17.0
4							7777	19.5		19.0	17.0	18.0
5								20.0		19.0	16.0	17.5
6							- 25.0	21.5	23.5	18.0	14.0	16.5
7							- 26.0	22.0	24.0	19.0	14.5	17.0
8							- 26.5	22.5	24.5	20.0	15.5	18.0
9							- 26.5	22.5	24.5	20.5	17.5	19.0
10							- 25.5	24.0	24.5	20.0	18.0	19.0
11			2-2				- 24.0	20.0	21.5			
12							- 22.5	20.0	21.0			
13							- 23.0	21.5	22.0			
14							- 23.0	20.5	22.0			
15							- 23.0	19.5	21.0			
16							- 22.5	19.5				
17							- 22.5	20.5	21.5			
18							- 21.5	18.5	20.0			
19							- 21.5	19.0	20.5			
20							- 23.0	20.5	21.5			
21								19.0				
22							- 21.0	17.0				
23								18.0				
24							- 20.5	17.5				
25							- 20.5	17.0	19.0			
26												
27							20.0					
28												
29							- 20.5	18.0				
30												
31							- 21.5	19.0	20.0			
MONTH		1222		22.	124		- 26.5	17.0	21.1			

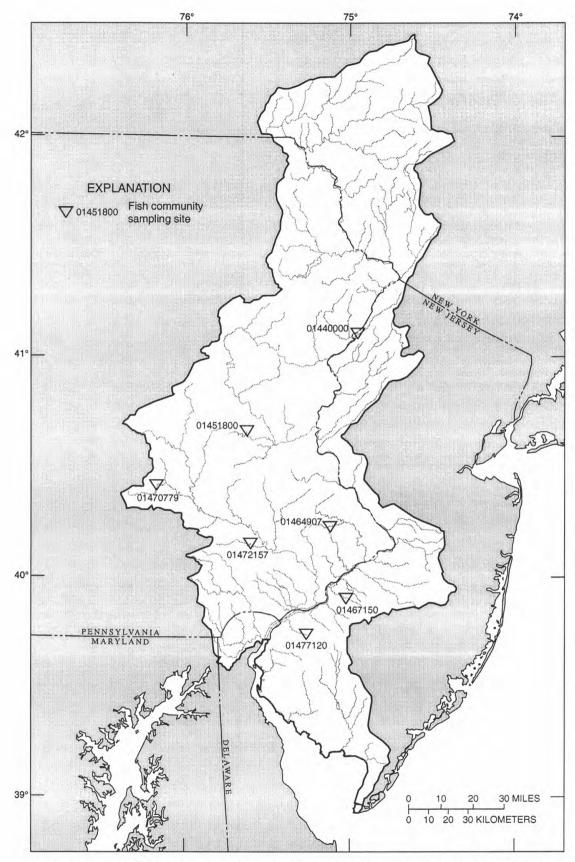


Figure 61. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, fish-community survey, water year 2001.

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 2001. Sites were located in New Jersey and Pennsylvania. Fish were collected from each site by electrofishing with pulsed-DC current in a representative reach 153 to 310 meters long. One electrofishing pass was conducted at each reach except at station 01467150, at which two passes were conducted. 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 name	Collection Date
FLAT BROOK NEAR FLATBROOKVILLE, NJ	07-19-01
JORDAN CREEK NEAR SCHNECKSVILLE, PA	07-18-01
LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA	07-24-01
COOPER RIVER AT HADDONFIELD, NJ	07-11-01
TULPEHOCKEN CREEK NEAR BERNVILLE, PA	07-17-01
FRENCH CREEK NEAR PHOENIXVILLE, PA	07-12-01
RACCOON CREEK NEAR SWEDESBORO, NJ	07-10-01
	FLAT BROOK NEAR FLATBROOKVILLE, NJ JORDAN CREEK NEAR SCHNECKSVILLE, PA LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA COOPER RIVER AT HADDONFIELD, NJ TULPEHOCKEN CREEK NEAR BERNVILLE, PA FRENCH CREEK NEAR PHOENIKVILLE, PA

Fish species, numbers, minimum and maximum total lengths (in mm), collected during 2001

FAMILY scientific name common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
PETROMYZONTIDAE							
Lampetra appendix American brook lamprey	0	0	0	0	0	0	(78-177)
Petromyzon marinus sea lamprey	(85-140)	0	0	0	0	0	16 (142-177
NGUILLIDAE							
Anguilla rostrata American eel	170 (40-475)	(160-586)	40 (130-570)	51 (108-655)	0	(375 ⁻ 860)	(111-540
CLUPEIDAE							
Alosa aestivalis blueback herring	0	0	0	7 (55-66)	0	0	0
Alosa pseudoharengus alewife	0	0	0	(66)	0	0	(47)
YPRINIDAE							
Cyprinella analostana satinfin shiner	0	(51-83)	29 (43-82)	0	0	(30-94)	12 (58-93)
C. spiloptera spotfin shiner	0	0	(48-104)	0	(75 ¹³ 02)	0	0
Cyprinus carpio common carp	0	0	0	(324-366)	(304-638)	0	0
Exoglossum maxillingua cutlips minnow	²²¹ (45-115)	348 (55-128)	0	0	(49 ³⁷	154 (51-129)	0
Hybognathus regius eastern silvery minnow	0	0	0	(47-140)	0	0	(90-137)
Luxilus cornutus common shiner	0	65 (28-121)	(84)	0	(70 - 76)	(54-133)	(70-106)
Notemigonus crysoleucas golden shiner	0	0	0	0	0	0	(82-112)
Notropis amoenus comely shiner	0	0	0	0	0	0	0
N. hudsonius spottail shiner	0	0	(47-56)	153 (31-111)	29 (35-104)	(75-102)	69 (67-127
N. procne swallowtail shiner	0	0	166 (46-75)	0	0	(50 - 66)	(45-68)
Pimephales notatus bluntnose minnow	0	62 (47-73)	0	0	(57-82)	0	0
P. promelas fathead minnow	0	0	0	0	(73)	0	0

WATER QUALITY AT MISCELLANEOUS SURFACE-WATER SITES DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY

AMILY scientific name common name	01440000	01451800	01464907	01467150	01470779	01472157	0147712
Rhinichthys atratulus blacknose dace	889 (29-79)	520 (30-73)	(40-47)	0	(36-86)	85 (50-67)	0
R. cataractae longnose dace	106 (56-115)	331 (40-101)	0	0	74 (55-115)	67 (32-118)	0
Semotilus atromaculatus creek chub	0	(32-32)	0	0	(¹ (78)	(76)	0
Semotilus corporalis fallfish	(41-47)	0	0	(50 ² -50)	(71-72)	89 (37-290)	46 (80-253
ATOSTOMIDAE							
Catostomus commersoni white sucker	97 (29-51)	551 (30-355)	256 (52-300)	(44-314)	245 (40-385)	94 (35-341)	82 (37-363
Erimyzon oblongus creek chubsucker	0	0	0	0	0	0	0
Hypentelium nigricans northern hog sucker	7 (72-92)	0	0	0	0	0	0
CTALURIDAE							
Ameiurus catus white catfish	0	0	0	o	0	0	0
A. natalis yellow bullhead	0	. 0	21 (117-260)	0	0	(149-171)	0
A. nebulosus brown bullhead	0	0	(83)	(39)	0	(134-162)	0
Ictalurus punctatus channel catfish	0	0	0	0	0	0	0
Noturus insignis margined madtom	(65-118)	181 (55-140)	0	0	0	13 (72-135)	0
SOCIDAE							
Esox americanus redfin pickerel	0	(155)	(88)	0	0	0	(77 -121
Esox niger chain pickerel	0	0	0	(1 ¹ / ₂ 0)	0	0	0
MBRIDAE							
Umbra pygmaea eastern mudminnow	0	0	0	0	0	0	8 (45-74)
ALMONIDAE							,
Oncorhynchus mykiss rainbow trout	o	5 (288-373)	0	0	0	7 (227-280)	0
Salmo trutta brown trout	(74)	(181-221)	0	0	(274-335)	51 (212-299)	0
PHREDODERIDAE	,,,,,	1212.2127			,-,	(000,000,0	
Aphredoderus sayanus pirate perch	0	0	0	0	0	0	(71-74
YPRINODONTIDAE							44705
Fundulus diaphanus banded killifish	0	11 (56-82)	48 (55-101)	0	0	0	0
ERCICHTHYIDAE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	122 5150				
Morone americana white perch	0	0	0	12	0	0	(166)

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WATER QUALITY AT MISCELLANEOUS SURFACE-WATER SITES DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, FISH COMMUNITY SURVEY

FAMILY scientific name common name	01440000	01451800	01464907	01467150	01470779	01472157	01477120
Morone saxatilis striped bass	0	0	0	0	0	0	(178-244)
ENTRARCHIDAE							
Ambloplites rupestris rock bass	0	(60-168)	40 (76-195)	0	17 (103-183)	140 (46-192)	0
Lepomis auritus redbreast sunfish	0	(49-160)	186 (19-173)	0	0	(66-125)	(66-141)
L. cyanellus green sunfish	0	(62)	(35-131)	16 (45-126)	(60 -14 5)	(48-164)	0
L. gibbosus pumpkinseed	0	(97-99)	(74-133)	85 (55-165)	(60 -14 5)	(72)	(49-122)
L. macrochirus bluegill	0	(81-178)	(59 ⁷ 87)	166 (46-134)	(85-145)	(55-91)	9 (46-131)
Micropterus dolomieu smallmouth bass	(57)	(210-282)	(30-283)	0	0	(30 -3 00)	0
M. salmoides largemouth bass	0	0	(61-233)	(27-441)	(61 -1 57)	35 (44-69)	5 (42-145)
Pomoxis nigromaculatus black crappie	0	0	(43-173)	0	(1 6 8)	0	0
ERCIDAE							
Etheostoma olmstedi tessellated darter	(43-71)	38 (35-79)	170 (39-76)	(31-73)	50 (31-69)	64 (35-75)	50 (32-78)
Perca flavescens yellow perch	0	0	0	(56 - 71)	0	0	0
Percina peltata shield darter	59 (35-92)	0	0	0	0	31 (66-90)	0

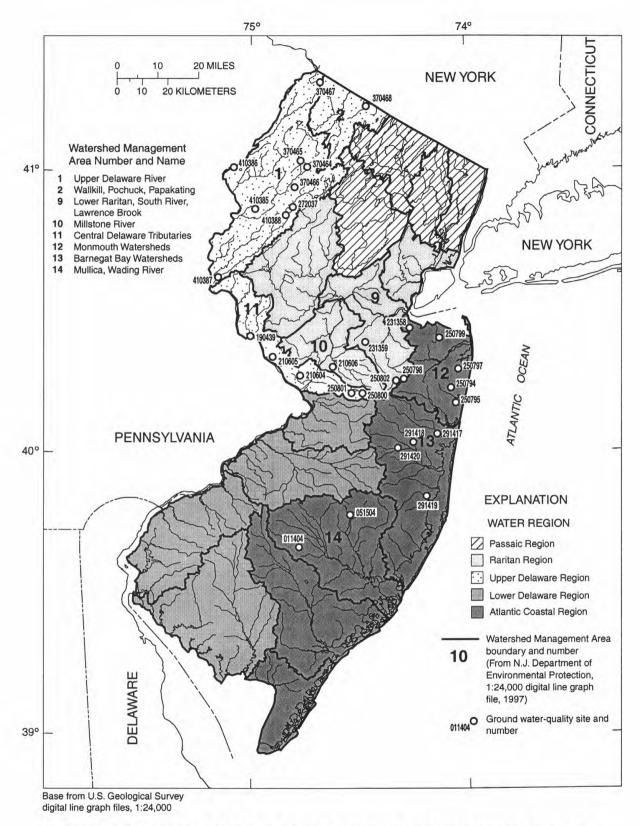


Figure 62. Location of sites in the Ambient Ground-Water-Quality Network, water year 2001.

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 1

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER		LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	IN	CREE FERV	AL	AQUIFER UNIT
403719075091801	410387	NJDEP	POHATCONG MW82	403719	0750918	190	12	7	-	12	112SFDF
405035074502201	410388	NJDEP	COH HATCHERY MW85	405035	0745022	520	12	2	-	12	112SFDF
*405154074585701	410385	NJDEP	JENNY JUMP SP MW88	405154	0745857	420	37	17	-	37	112SFDF
*405220074482201	272037	NJDEP	STEPHENS SP MW84	405220	0744822	615	57.5	43	-	58	112SFDF
405631074475001	370466	NJDEP	ALLAMUCHY SP MW90	405631	0744750	560	13.8	9	-	14	112SFDF
*410049075045801	410386	NJDEP	WORTHINGTON SP MW92	410049	0750458	320	36	31	-	36	112SFDF
*410053074441301	370464	NJDEP	ANDOVER MW86	410053	0744413	600	38	33	-	38	112SFDF
*410213074460901	370465	NJDEP	AUGUSTA MW97	410213	0744609	621	31.5	27	-	32	112SFDF
411853074403601	370467	NJDEP	HIGH POINT SP MW100	411853	0744036	1340	50	40	-	50	350HGFL

^{* -} Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units: 121SFDF - Stratified drift 350HGFL - High Falls Formation

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

	IDE	CAL INT- INT- ER	STATION	NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NJDEP M	W82		403719075	091801	09-24-01	1110	ENVIRONMENTAL		75	9.9	755	53
NJDEP M	W85		405035074	502201	09-27-01	1210	ENVIRONMENTAL	.10	100	180	745	62
NJDEP M	1W88		405154074	585701	09-24-01	1000	ENVIRONMENTAL	.50	60	6.0	752	45
NJDEP M	W84		405220074	482201	09-25-01	1045	ENVIRONMENTAL	3.0	95	19	739	51
NJDEP M	1W90		405631074	475001	09-17-01 09-17-01	1255 1300	AMBIENT BLANK ENVIRONMENTAL	.94	38	.2	758	50
NJDEP M	W92		410049075	045801	09-19-01	1030	ENVIRONMENTAL	.50	45	2.6	760	37
NJDEP M	W86		410053074	441301	09-17-01	1030	ENVIRONMENTAL	.50	45	.5	752	39
NJDEP M	W97		410213074	460901	09-18-01	1015	ENVIRONMENTAL	.50	45	.9	749	47
NJDEP M	W100		411853074	403601	09-26-01	1200	ENVIRONMENTAL	.09	93	12	723	41

		LOCAL IDENT- I- FIER	DATE	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)	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)	
NJDEP	MW82		09-24-01	4.5	6.9	342	23.0	140	39.8	10.5	1.69	15.3	118	
NJDEP	MW85		09-27-01	6.9	7.2	538	9.5	240	49.7	28.2	1.37	12.7	214	
NJDEP	MW88		09-24-01	4.8	7.4	207	12.0	100	22.7	10.5	. 57	2.4	81	
NJDEP	MW84		09-25-01	5.5	7.8	384	11.0	190	40.2	21.3	2.09	6.3	163	
NJDEP	MW90		09-17-01 09-17-01	5.2	7.4	429	13.5	190	48.5	17.9	2.79	6.7	142	
NJDEP	MW92		09-19-01	3.9	7.0	244	13.0	110	32.3	6.94	.94	3.2	77	
NJDEP	MW86		09-17-01	4.2	7.1	819	11.0	450	96.3	50.2	1.22	3.3	431	
NJDEP	MW97		09-18-01	5.1	7.5	414	11.0	200	60.7	12.1	.74	4.2	163	
NJDEP	MW10	0	09-26-01	4.4	5.8	32	10.0	12	1.86	1.79	.77	.6	7	

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

	LOCAL IDENT- I- FIER	DATE	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NJDEP	MW82	09-24-01	144	15.6	<.2	9.7	17.9	194	199	.056	.14	3.86
NJDEP	MW85	09-27-01	264	29.9	E.1	15.6	17.3	272	289	<.040	<.10	.897
NJDEP	MW88	09-24-01	99	1.5	E.1	11.8	14.5	118	113	<.040	<.10	E.027
NJDEP	MW84	09-25-01	199	18.8	<.2	13.2	14.6	242	215	<.040	.17	.111
NJDEP	MW90	09-17-01		11111	22		22		22	22		-
		09-17-01	173	13.2	<.2	6.2	16.0	229	243	<.040	E.07	10.5
NJDEP	MW92	09-19-01	94	15.1	E.1	2.7	10.1	128	119	<.040	<.10	.233
NJDEP	MW86	09-17-01	526	7.9	<.2	10.7	7.1	387		<.040	<.10	.065
NJDEP	MW97	09-18-01	199	8.3	<.2	9.7	18.3	213	228	<.040	<.10	3.67
NJDEP	MW100	09-26-01	8	.9	E.1	6.1	5.6	22	22	<.040	<.10	E.037
	LOCAL IDENT- I- FIER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NJDEP	MW82	09-24-01	.010	4.0	<.020	.70	1	.06	<.2	24.0	<.06	35
NJDEP	MW85	09-27-01	<.006		<.020	.82	1	E.03	<.2	29.1	<.06	13
NJDEP	MW88	09-24-01	<.006		<.020	.52	4	<.05	E.2	4.2	<.06	12
NJDEP	MW84	09-25-01	<.006	.28	<.020	1.5	16	.13	E.1	11.5	<.06	9
NJDEP	MW90	09-17-01 09-17-01	.006		<.020	.55	2	<.05	E.1	6.4	<.06	68
NJDEP	MW92	09-19-01	E.003		E.011	.56	2	.06	.2	59.9	<.06	E6
NJDEP		09-17-01	<.006								<.06	E6
NJDEP					<.020	. 67	<1	E.03	E.1	13.8		
		09-18-01	<.006		<.020	.41	1	E.04	E.1	2.4	<.06	11
NJDEP	MW100	09-26-01	<.006		<.020	1.4	6	.12	<.2	1.1	<.06	<7
	LOCAL IDENT- I- FIER	DATE	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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW82	09-24-01	.04	<.8	1.0	10	E.08	208	<.01	18.7	.4	<1.0
NJDEP	MW85	09-27-01	.05	<.8	.7	м	.15	518	<.01	3.87	E.2	<1.0
NJDEP	MW88	09-24-01	<.04	<.8	.3	<10	<.08	3.8	<.01	<.06	<.3	<1.0
NJDEP	MW84	09-25-01	.59	4.1	2.1	<10	.44	2.7	<.01	.41	<.3	<1.0
NJDEP	MW90	09-17-01 09-17-01	<.04	<.8	.8	 <10	<.08	1.0	<.01	<.06	<.3	<1.0
NJDEP	MW92	09-19-01	E.02	<.8	.5	20	<.08	199	<.01	E.03	<.3	<1.0
NJDEP	MW86	09-17-01	<.04	<.8	3.4	<10	E.04	16.3	<.01	<.20	.3	<1.0
NJDEP	MW97	09-18-01	<.04	<.8	.3	<10	<.08	<.1	<.01	<.06	E.3	<1.0
NJDEP	MW100	09-26-01	3.99	<.8	2.3	<10	2.95	7.9	<.01	3.25	<.3	<1.0

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

	LOCAL IDENT- I- FIER	DATE	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
NJDEP	MW82	09-24-01	<.04	2	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW85	09-27-01	<.04	<1	.24	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW88	09-24-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW84	09-25-01	<.04	23	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW90	09-17-01 09-17-01	<.04	<1	<.10 <.10	<.10 <.10	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.10 <.10	<.10 <.10
NJDEP	MW92	09-19-01	<.04	1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW86	09-17-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW97	09-18-01	<.04	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW100	09-26-01	E.02	27	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
	LOCAL IDENT- I- FIER	DATE	BENZENE O-DI- CHLORO- WATER UNFLITED 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)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP	MW82	09-24-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	HACKETTSTOWN	09-27-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	.24	<.10	<.2
NJDEP	MW88	09-24-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW84	09-25-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW90	09-17-01 09-17-01	<.10 <.10	<.10 <.10	<.20 <.20	<.20 <.20	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.10 <.10	<.2 <.2
NJDEP	MW92	09-19-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW86	09-17-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW97	09-18-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW100	09-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
	LOCAL IDENT- I- FIER	DATE	DI-ISO- PROPYL- ETHER, WATER, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLITED 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 UNFLITED 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)
NJDEP	MW82	09-24-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW85	09-27-01	<.2	<.2	<.10	<.2	<.10	.29	<.2	<.2	<.20	<.10
NJDEP	MW88	09-24-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW84	09-25-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW90	09-17-01 09-17-01	<.2 <.2	<.2 <.2	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.2 .2	<.2 <.2	<.20 <.20	<.10 <.10
NJDEP	MW92	09-19-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW86	09-17-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW97	09-18-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW100	09-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOC IDEN I- FIE	T-	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)	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)
NJDEP	MW82	09-24-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	1.07	2.1	1.42
NJDEP	MW85	09-27-01	<.10	13.8	<.10	1.24	<.20	<.2	1.7	.49	3.0	1.47
NJDEP	MW88	09-24-01	<.10	<.1	<.10	<.10	<.20	<.2	.73	.10	1.3	.96
NJDEP	MW84	09-25-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	.43	1.8	.76
NJDEP	MW90	09-17-01 09-17-01	<.10 <.10	<.1 <.1	<.10 <.10	<.10 <.10	<.20 <.20	<.2 <.2	1.3	.000	2.5	3.94
NJDEP	MW92	09-19-01	<.10	<.1	<.10	<.10	<.20	<.2	.80	.78	1.4	3.20
NJDEP	MW86	09-17-01	<.10	<.1	<.10	<.10	<.20	<.2	2.9	1.97	4.4	<4.15
NJDEP	MW97	09-18-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	2.08	2.4	<4.15
NJDEP	MW100	09-26-01	<.10	<.1	<.10	<.10	<.20	<.2	.53	.98	1.0	2.20

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

LOCAL IDENT- I- FIER	STATION NUMBER	DATE	TIME	ACETO- CHLOR, WATER FLITED REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	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)	CARBO- FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW82	403719075091801	09-24-01	1110	<.004	<.002	<.005	.037	<.010	<.041	<.020
NJDEP MW85	405035074502201	09-27-01	1210	<.004	<.002	<.005	.020	<.010	<.041	<.020
NJDEP MW88	405154074585701	09-24-01	1000	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW84	405220074482201	09-25-01	1045	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW90	405631074475001	09-17-01	1300	<.004	<.002	<.005	.355	<.010	<.041	<.020
NJDEP MW92	410049075045801	09-19-01	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW86	410053074441301	09-17-01	1030	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW97	410213074460901	09-18-01	1015	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW100	411853074403601	09-26-01	1200	<.004	<.002	<.005	<.007	<.010	<.041	<.020

		LOCAL IDENT- I- FIER	DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FL/TRD 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 FL/TRD 0.7 U GF, REC (UG/L) (82668)	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)
NJDEP	MW82		09-24-01	<.005	<.018	<.003	E.077	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW85		09-27-01	<.005	<.018	<.003	E.027	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW88		09-24-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW84		09-25-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW90		09-17-01	<.005	<.018	<.003	E.318	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW92		09-19-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW86		09-17-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW97		09-18-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW100)	09-26-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	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)	MOL- INATE WATER FLITD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NJDEP	MW82		09-24-01	<.050	E.011	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW85		09-27-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	E.014	<.011	<.016
NJDEP	MW88		09-24-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW84		09-25-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW90		09-17-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW92		09-19-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW86		09-17-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW97		09-18-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW100)	09-26-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

		LOCAL IDENT- I-		FL/TRD		ALIN WAT FLT	
		FIER	DATE		GF, REC (UG/L) (82681)	(UG/L)	
NJDEP	MW82		09-24-01	<.034	<.005	<.009	
NJDEP	MW85		09-27-01	<.034	<.005	<.009	
NJDEP	MW88		09-24-01	<.034	<.005	<.009	
NJDEP	MW84		09-25-01	<.034	<.005	E.006	
NJDEP	MW90		09-17-01	<.034	<.005	<.009	
NJDEP	MW92		09-19-01	<.034	<.005	<.009	
NJDEP	MW86		09-17-01	<.130	<.005	<.009	
NJDEP	MW97		09-18-01	<.034	<.005	<.009	
NJDEP	MW10	0	09-26-01	<.034	<.005	<.009	

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

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 2

				V	VATERSHED	MANAGE	EMEN.	r AREA 2								
STATION IDENTIFICATION NUMBER	NJ-WRI WELL NUMBER		LOCA		LA	TITUDE	L	ONGITUDE	OF SUR	TUDE LAND FACE T.)	WE DEP		SCREE INTERV (FT.	AL	,	QUIFER UNIT
411348074273901	370468	B NJD	EP WAWAYA	NDA SP MW	199 41	1348	0	742739	42	0	13.	5	9 -	14	11	2SFDF
Aquifer units: 112SFDF - Stratif	ied dr	ift														
			WATER-QUA	LITY DATA	, WATER	YEAR OC	тов	ER 2000 1	O SEPT	EMBER 2	001					
								1	PUMP	TUR-			YGEN,			PH
LOCA	IL.								FLOW	BID- ITY			DIS-			WATER
IDENI I-	?-						FLO		RIOR SAM-	FIELD WATER			PER- CENT	OXY	GEN, IS-	FIELD (STAND-
FIER	t	STA	TION NUM	BER DA	ATE	TIME	RAT		LING MIN)	UNFLTRI (NTU)			TION)		LVED	ARD UNITS)
									2004)	(61028)			0301)	(003		(00400)
NJDEP MW99		4113	480742739	01 09-2	24-01	1220	:	25 !	50	15	7	49	11	1	.1	7.5
												ALKA-	BICA	D_		
ı	LOCAL DENT- I-		SPE- CIFIC CON- DUCT-	TEMPER-	HARD- NESS TOTAL (MG/L	CALCI DIS- SOLV		MAGNE- SIUM, DIS- SOLVED	POTA SIU DIS SOLV	M, SOI	OIUM, S- VED	LINITY WAT DIS TOT IT FIELD	BONA	TE ER IT	CHLC RIDE DIS- SOLV	,
	FIER	DATE	ANCE (US/CM) (00095)	(DEG C)	CACO3)	AS C	(A	(MG/L AS MG)	AS K) AS	G/L NA)	CACO3	HCO	3	AS C	L)
NJDEP MW99		09-24-01	797	(00010)	(00900)	(0091		(00925)	(0093		930)	(39086)			72.9	
NODEF MW33		09-24-01	797	14.0	350	78.3	•	37.0	1.45	3.	.9	290	35	3	/2.3	
	LOCAL		FLUO- RIDE,	SILICA, DIS-	SULFATE		OUE BO	SOLIDS, SUM OF CONSTI-	NITR GEN AMMON	, GEN	TRO- I, AM- IIA +	NITRO- GEN, NO2+NO3	GE NITR	N, ITE	PHOS PHORU ORTH	IS IO,
	DENT-		DIS- SOLVED	SOLVED (MG/L	DIS- SOLVED	DEG.	3-	DIS-	SOLV	ED DI	ANIC	DIS- SOLVED		VED	DIS-	:D
	FIER	DATE	(MG/L AS F) (00950)	AS SIO2) (00955)	(MG/L AS SO4) (00945)	SOLV (MG/ (7030	L)	SOLVED (MG/L) (70301)	(MG/ AS N (0060) AS	G/L N) (623)	(MG/L AS N) (00631)	(MG AS (006	N)	(MG/I AS P) (0067	
NJDEP MW99		09-24-01	E.1	11.9	25.9	394	3.3		<.04		10	1.85	E.0		<.02	
I	LOCAL DENT- I- FIER	DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSEN DIS SOLV (UG/ AS A	ED L S)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERY LIUM DIS- SOLV (UG/ AS B	ED SC L (UE) AS	RON, DIS- DLVED G/L B)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	DIS SOL (UG AS	M, - VED /L CR)	COPPE DIS- SOLV (UG/ AS C	TED L TU)
NJDEP MW99		09-24-01	.48	2	.06	.3		28.4	<.06	1	.6	E.04	1.	2	.4	
I	LOCAL DENT- I- FIER	DATE	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)	MERCU DIS SOLV (UG/ AS H (7189	ED L IG)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE NIUM DIS SOLV (UG/ AS S	, SII - I ED SC L (U	VER, DIS- DLVED G/L AG)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZIN DI SOL (UG AS	S- VED /L ZN)	1,1,1 TRI- CHLOF ETHAN TOTAL (UG/I (3450	10- IE
NJDEP MW99		09-24-01	10	.09	74.3	<.01		<.06	E.3	<1	.0	<.04	<1		<.10	11
I	LOCAL DENT- I- FIER	DATE	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-D CHLOR PROPA TOTA (UG/L	NE L L	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZE 1,3-D CHLOR WATE UNFLT REC (UG/L (3456	I- 1,4 O- CHI R WA RD UNE F) (UG	ZENE -DI- ORO- TER LTRD EC (/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZ TOT	AL L)	BROMO FORM TOTA (UG/ (3210	L L L)
NJDEP MW99		09-24-01	<.10	<.10	<.2	<.10		<.10	<.10	<.	10	<.10	<.1	0	<.20	
I	LOCAL DENT- I- FIER	DATE	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLOR FORM TOTA (UG/L (3210	T T	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	BROM DI- CHLOR METHA TOTA (UG/ (3210	DI- O- FLU NE MET L TOT L) (UG	ORO- HANE	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETH ETH WAT: UNFL RECO	YL ER TRD VER L)	ETHE TERT BUTY ETHY UNFLI RECOV (UG/I (5000	L RD ER

NJDEP MW99

09-24-01 <.20

<.10 <.2 <.10

<.10

<.10 <.2

<.10

 $[\]ensuremath{\mathtt{E}}$ Estimated value. $\ensuremath{\mathtt{A}}$ Ctual value is known to be less than the value shown.

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT- I- FIER	DATE	ETHER TERT- PENTYL METHYL UNFLITED RECOVER (UG/L) (50005)	ETHYL- BENZEN TOTAL (UG/L) (34371	REC (UG/L	R ETH RD WAT RE) (UG/	T- MET YL E ER CH UNF RI C TOT L) (UG	HYL NE X LO- DE U PAL (/L)	META/ PARA- CYLENE WATER INFLITED 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)
NJDEP MW99		09-24-01	<.2	<.10	<.10	٧.	2 <	.2	<.20	<.10	<.10	<.1	<.10
		IDE	CAL NT- - ER DA	TE C	THYL-	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)		C, RA EMA WA DIS DI A 10 TH- L) (PC	DIO. 2 TER W SS D S 230 CS	SIGMA B ATER, ISS, S AS (P -137 CI/L) CS	ROSS ETA, DIS- OLVED CI/L AS -137) 3515)	

WATER-COLUMN PESTICIDE ANALYSES

2.7

-0.13

.33

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

	LOC IDEI I- FII		STA	TION NUM	BER DA	ATE :	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	DI: RE: (UG	LOR, AI TER, I SS, I C, SOI /L) (UC	LPHA BHC DIS- LVED G/L) (1	ATRA- ZINE, WATER, DISS, REC UG/L) 39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BAI WAI FLI O. GF, (UG,	TER TRD 7 U REC	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW9	9		4113	480742739	01 09-2	4-01	1220	<.004	٧.	002 <	.005	.038	<.010	<.	041	<.020
NJDEP	MW99	LOCAL IDENT- I- FIER	DATE 09-24-01	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLITRD 0.7 U GF, REC (UG/L) (82682)	DEETH: ATRA- ZINE, WATE: DISS, REC (UG/L) (0404)	, DI R, AZIN , DI SOI) (UC	ION, S- VED (/L) (72)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLITRD 0.7 U GF, REG (UG/L) (82668	(UG	UR WA' ANE FI/ - 0.° ED GF, /L) (UG 41) (82	TER TRD 7 U REC	MALL THI DI: SOL (UG (395)	ON, S- VED /L) 32)
NJDEP	MW99	LOCAL IDENT- I- FIER	DATE 09-24-01	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)	MOL- INATE WATEL FLITE 0.7 U GF, RI (UG/L) (8267:	E AMD R WAT D FLT U 0.7 EC GF,) (UG/ 1) (826	TER TRD U REC (L)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI METH- ALIN WAT FL/ 0.7 U GF, RE (UG/L) (82683	PRO MET WAT DIS C REC (UG/	ON, MAZ. ER, WA'S, DI: RE(L) (UG. 37) (04)	INE, TER, SS,	TEB THIU WAT FLT 0.7 GF, 1 (UG/1 (826	RON ER U UREC L)
				NJDEP	IC IDE I FI	CAL ENT- ER D	ATE (TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THE BENN WA'S FL. O. GF, (UG (82)	IO- 'CARB FI TER AI TRD WAN' 7 U O REC GF /L) (UU	FRI- LUR- LIN .7 U , REC G/L) 2661)	1.0				7

Estimated value.

NJDEP MW99

09-24-01

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

OXYGEN,

DIS-SOLVED

BARO-

PRES-SURE

METRIC

TUR-

BID-

ITY

PUMP OR FLOW

PERIOD

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 9

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER		LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCF INTE (F		AL	AQUIFER UNIT
*401508074193501	250802	NJDEP	MANALAPAN MW104	401508	0741935	160	35.1	30	_	35	211RDBK
*401531074172801	250798	NJDEP	FREEHOLD MW69	401531	0741728	150	22	17	-	22	211RDBK
402323074280901	231359	NJDEP	PIGEON SWAMP MW102	402323	0742809	100	14.5	10	-	15	111HPPM

^{* -} Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

LOCAL IDENT-

Aquifer units: 211RDBK - Red Bank Sand 111RPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

	IDEN I- FIE	T-	STA	ATION NUM	mber d	ATE	TIME	SAMPL TYPE	RI (C	LOW TO ATE F	PRIOR F SAM- W PLING UN MIN) (ITY IELD ATER FLTRD NTU) 1028)	PRES- SURE (MM OF HG) (00025)	SOLVED (PER- CENT SATUR- ATION) (00301)
NJDEP MW	1.04		4015	08074193	501 09-	26-01	1030	ENVIRONMENT	AL 3	3.0	75	3.9	760	41
NJDEP MW	59		4015	31074172				AMBIENT BLA		.50	35	.5	763	6
NJDEP MW1	102		4023	323074280	901 09-	26-01	1120	ENVIRONMENT	AL	.60	75	.8	760	
		LOCAL IDENT- I- FIER	DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPE ATUR WATE (DEG	E (MG/L R AS C) CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K)	SODIUM DIS- SOLVEM (MG/M	TOT FIE MG/I	DIS IT ELD AS
NJDE	MW104		09-26-01	4.2	4.9	1050	13.5	73	3.42	15.6	3.69	164	2	1
NJDEE	MW69		08-22-01 08-22-01	.6	4.9	499	15.0	51	5.79	8.85	3.15	61.6		
NJDE	MW102	l	09-26-01	<.2	5.9	325	15.0	41	6.82	5.87	2.21	3.	7 96	i
		LOCAL IDENT- I- FIER	DATE	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)	SILIC DIS- SOLV (MG/ AS SIO2 (0095	SULFATE ED DIS- L SOLVED (MG/L) AS SO4)	DEG. C	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (MG/L AS N)	GEN, AL MONIA ORGANI	4- GE + NO2+ IC DI SOI (MG	S- LVED G/L N)
NJDE	MW104		09-26-01	2	273	<.2	8.9	53.8	550	528	<.040	<.10	.9	48
NJDEE	MW69		08-22-01 08-22-01	6	127	<.2	13.8	3.1	245	250	2.70	2.9	4.4	 i1
NJDE	MW102		09-26-01		4.2	<.2	8.7	58.4	170		1.12	1.3	<.0	50
		LOCAL IDENT- I- FIER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBO ORGAN DIS- SOLVE (MG/ AS C	DIS- D SOLVED L (UG/L AS AL)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	DIS-	BERYI LIUM, DIS- SOLVI (UG/I AS BI (01010	DI SOIL (UG	S- VED S/L B)
NJDER	MW104		09-26-01	<.006	1 44	<.020	<.3	0 87	<.05	<.2	70.4	.10	5 2	12
NJDER	MW69		08-22-01 08-22-01	E.003	7.3	<.020	.3		.05	<.2	35.1	.19		4
NJDER	MW102		09-26-01	E.003		<.020	3.9		E.03	2.2	41.2	<.00		

E Estimated value.

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

	IDE I FI		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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW104	09-26-0	2.46	E.7	.8	<10	E.07	115	<.01	25.2	E.3	<1.0
NJDEP	MW69	08-22-0										
		08-22-0		.9	1.0	<10	<.08	224	<.01	64.6	E.2	<1.0
NJDEP	MW102	09-26-0	E.02	E.5	.7	59100	.18	2570	<.01	1.83	<.3	<1.0
	LOC IDE I FII		THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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)
NJDEP	MW104	09-26-03	E.04	52	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW69	08-22-0			<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
MIDED	MW102	08-22-03		147	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NUDEP	PIWIUZ	09-26-0.	.10	16	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
	LOX IDEI I- FII	-	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)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP	MW104	09-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW69	08-22-01		<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
		08-22-01		<.10	<.20	<.20	<.10	<.2	.21	<.10	<.10	<.2
NJDEP	MW102	09-26-01	. <.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
	LOC IDEN I- FII	T-	DI-ISO- PROPYL- ETHER, WATER, UNFLITED RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLITED 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 UNFLITED 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 UNFLITED REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)
NJDEP	MW104	09-26-01	. <.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW69	08-22-03 08-22-03		<.2	<.10	<.2	<.10	<.10	<.2 3.4	<.2	<.20 <.20	<.10 <.10
NATOEP	MW102	09-26-01		<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
		05 20 03			1.10	7.4	1.10	1.10				1.10
	LOX IDEN I- FII	T-	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)	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)
NJDEP	MW104	09-26-01	<.10	<.1	<.10	<.10	<.20	<.2	2.7	2.42	5.2	7.46
NJDEP	MW69	08-22-01 08-22-01		<.1	<.10	<.10	<.20	<.2	2.1	3.11	2.3	4.87
NJDEP	MW102	09-26-01		<.1	<.10	<.10	<.20	<.2	.85	.74	2.1	4.22

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

CARBO-

BEN-

<.010

<.015

<.011 <.016

CAR-

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

WATER-COLUMN PESTICIDE ANALYSES

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

	LOC IDEN I- FIR	T-	STA	ATION NUM	iber d	ATE	TIME	CHLOR, CONTENT OF THE	ATER, ISS, EC, SO G/L) (T	BHC V DIS- I DLVED I UG/L) (V	ATRA- F ZINE, A VATER, WA DISS, O REC GF JG/L) (U	BEN- LUR- LIN T FLD 0.7 U T, REC IG/L) (2673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW1	04		4015	080741935	01 09-	26-01	1030	<.004 <	.002	<.005	<.007 <	.010	<.041	<.020
NJDEP MW6	9		4015	310741728	01 08-	22-01	0930	<.004 <	.002	<.005	<.007 <	.010	<.041	<.020
NJDEP MW1	02		4023	230742809	01 09-	26-01	1120	<.004 <	.002	<.005	<.007 <	.010	<.041	<.020
NJDEP NJDEP	MW69		DATE 09-26-01 08-22-01 09-26-01	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018	WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYI ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.006	DI- , AZINON, DIS- SOLVED (UG/L)	DI- ELDRIN DIS- SOLVEI (UG/L) (39381) <.005 <.005	0.7 U O GF, REC) (UG/L)	(UG/L)	0.7 GF, 1 (UG/	N ER MAI RD TH: U D: REC SO(): (1) (U) 66) (39) 35 <	LA- ION, IS- LVED S/L) 532) 027
		LOCAL IDENT- I- FIER	DATE	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	WATER DISSOLV (UG/L)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	(UG/L)	P,P'	(UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	DIS: REC (UG/)	THIT NE, WAS ER, FL' S, 0.3 GF, L) (UG	BU- URON FER FRD 7 U REC /L)
NJDEP	MW104	la .	09-26-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.0	11 <.0	016
NJDEP	MW69		08-22-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.0	11 <	016

LOCA IDENI I- FIER	-	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FL/TRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	
NJDEP MW104	09-26-01	<.034	<.005	<.009	
NJDEP MW69	08-22-01	<.034	<.005	<.009	
NJDEP MW102	09-26-01	<.034	<.005	<.009	

<.007

<.003

09-26-01 <.050 <.013 <.006 <.002

NJDEP MW102

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

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 10

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	OF LAND SURFACE (FT.)	WELL	SCREEN INTERVAL (FT.)	AQUIFER UNIT
401809074371701	210606	NJDEP CANOE BK DR MW75	401809	0743717	101	18	13 - 18	111НРРМ

Aquifer units: 111HPPM - Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene

LOCAL IDENT- I- FIER	STATI	ON NUMBI	ER DA	TE 1		PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FI WA UNF	ID- ME TY PF ELD S TER (LTRD TU) F	TRIC TES- S TURE (MM OF S IG) A	CENT SATUR- S STION) (WI WI YGEN, FI DIS- (SI OLVED I MG/L) UN	PH ATER SPE- IOLE CIFIC IELD CON- EAND- DUCT- ANCE IITS) (US/CM) 1400) (00095)
NJDEP MW75	401809	07437170	1 08-0	7-01 0	920	56		3 7	62	56	5.4	5.3 244
LOCAL IDENT- I- FIER	DATE (EMPER- ATURE WATER DEG C) 00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGN SIU DIS SOLV (MG/ AS M	M, S ED SO L (M G) AS	TAS- SIUM, DIS- DLVED IG/L S K)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	DIS IT FIELD MG/L AS HCO3	AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NJDEP MW75	08-07-01	17.5	53	12.0	5.61	3.	75	18.6	9	11	39.9	<.2
LOCAL IDENT- I- FIER	S	SILICA, DIS- S SOLVED (MG/L AS SIO2)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLID SUM CO CONST TUENT DIS SOLV (MG/	S, NI F G I- AMM S, D I- SO ED (M L) AS	ETRO- GEN, IONIA DIS- DLVED IG/L IN) 1608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS-	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
NJDEP MW75	08-07-01	10.1	29.5	124	132	E.	031	E.06	1.65	<.006	<.020	.65
LOCAL IDENT- I- FIER NJDEP MW75	DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL) 01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIU DIS- SOLVE (UG/ AS E (0100	M, LI D SO L (U A) AS 5) (01	RYL- TUM, SS- DLVED IG/L S BE) .010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	DIS- SOLVED (UG/L AS CR)	(UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
LOCAL IDENT- I- FIER	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)	NICKE DIS- SOLV (UG/ AS N	SEL, NI ED SO L (U	LE- UM, DIS- DLVED G/L SE)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)
NJDEP MW75	08-07-01	.37	281	.02	2.18		9	<1.0	.04	5	<.10	<.10
LOCAL IDENT- I- FIER	DATE (THYL- (ENE TOTAL UG/L)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRAN 1,2-I CHLOR ETHEN TOTA (UG/I (3454	IS- 1,3 I- CHL IO- WA IE UNF IL R	ZENE ORO- TER LTRD EC (/L)	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)	TOTAL (UG/L)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
NJDEP MW75	08-07-01	<.10	<.2	<.10	<.10	<.	10	<.10	<.10	<.10	<.20	<.20
LOCAL IDENT- I- FIER	DATE T	HLORO- ENZENE I OTAL UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	CIS-1 -DI- CHLOR ETHEN WATE TOTA (UG/L	ER EC CHL ER MET L TO L) (U	COMO- OI- ORO- HANE OTAL (G/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	DI-ISO- PROPYL- ETHER, WATER, UNFLITE RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L)	(UG/L)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)
NJDEP MW75	08-07-01	<.10	<.2	<.10	<.10	<.	10	<.2	<.2	<.2	<.10	<.2

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOCAL IDENT- I- FIER		ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLITED 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 UNFLITED 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)
NJDEP MW	75	08-07-01	<.10	<.10	<.2	<.2	<.20	<.10	<.10	<.1	<.10	<.10
			LOCAL IDENT- I- FIER	DATE	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	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)		
		NJDEP MW75		08-07-01	<.20	<.2	.85	.96	1.6	5.09		

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

LOCAL IDENT- I- FIER	STAT	TION NUM	BER DA	ATE .	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA CHL WAT DIS REC (UG/ (463	OR, AI TER, E S, I C, SOI L) (UG	PHA BHC DIS- VED	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)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW75	40180	90743717	01 08-0	7-01	0920	<.004	<.0	02 <.	005	.007	<.010	<.041	<.020
LOCAL IDENT- I- FIER	DATE	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)	DEETHY ATRA- ZINE, WATER DISS, REC (UG/L) (04040	DI R, AZIN DI SOI (UG	ON, S- VED (/L)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	EPTC WATER FLTRD 0.7 U GF, RE (UG/L) (82668	(UG.	URC WAT ANE FLI - 0.7 ED GF, /L) (UG/	TER MAI	LA- ION, IS- IS- IS- IS- IS- IS- IS- IS- IS- IS-
NJDEP MW75 LOCAL IDENT- I- FIER		<.005 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)	MOL- INATE WATER FLITRI 0.7 U GF, RE (UG/L) (82671	NAPE AMI WAT 0 FLI 0 0.7 EC GF, (UG/	OP- DE ER RD U REC L)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI METH- ALIN WAT FL' 0.7 U GF, REG (UG/L) (82683	PROMETO METO WATE DISS REC (UG/1	- SI- ON, MAZI ER, WAT S, DIS REC L) (UG/	TEI THIC NE, WAY ER, FL' S, 0.' GF, L) (UG	BU- IRON FER FRD 7 U REC (L)
NJDEP MW75	08-07-01	<.050	IDE	<.006 CAL	ATE G	TER-BACIL WATER FLTRD 0.7 U EF, REC UG/L) 82665)	THI BENC WAT FLIT 0.7 GF, (UG/	ER AL TO WAT U 0. REC GF, L) (UG	<.010 TRI- UR- UN- IN FILT 7 U REC I/L) 6661)	<.0:	15 <.0	11 <.0	016

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

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 11

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	INT	REE ERV. FT.	AL	AQUIFER UNIT
*401229074290001	250800	NJDEP U.FREEHOLD MW72	401229	0742900	152	18.5	14	_	19	211MLRW
401233074320401	250801	NJDEP ASSUNPINK WMA MW73	401233	0743204	105	26	21	-	26	211EGLS
*401619074462401	210604	NJDEP COLLEGE OF NJ MW74	401619	0744624	100	19.5	15	-	20	231SCKN
402018074540301	210605	NJDEP HOWEL FARM MW77	402018	0745403	80	13.5	9	-	14	227PSSC
402431075020801	190439	NJDEP BULLS ISLAND SP MW7	8 402431	0750208	103	39	34	-	39	111ALVM

^{* -} Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units:

211MLRW - Wenonah-Mount Laurel aquifer system 211EGLS - Englishtown aquifer system

231SCKN - Stockton Formation 227PSSC - Passaic Formation 111ALVM - Holocene Alluvium

LOCAL

IDENT-

I-

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

SAMPLE

PUMP

OR FLOW PERIOD

PRIOR

TO SAM-

FLOW

TUR-

BID-

FIELD

WATER

BARO-

METRIC

SURE

(MM)

PRES-

OXYGEN,

DIS-

SOLVED

(PER-

CENT

	FI		ST	ATION NU	MBER	DA!	TE	TIME		TYPE	RI (C	ATE G/M)	PLING (MIN) (72004)	UNF (N	LTRD TU) 028)	OF HG) (0002	S	ATUR- FION) 0301)
NJDEP MW7	2		4012	29074290	001	08-0	8-01	0915	ENVI	RONMENTAL		.50	30		.5	759		19
NJDEP MW7	3		4012	33074320	401	09-0	6-01	1110	ENVI	RONMENTAL		.80	56	5	.1	765		84
NJDEP MW7	4		4016	19074462	401	09-2		0914		ENT BLANK								
						09-20	0-01	0915	ENVI	RONMENTAL	•	.50	60	7	.6	761		35
NJDEP MW7	7		4020	18074540	301	09-0	6-01	1210	ENVI	RONMENTAL			85	7	.0	763		39
NJDEP MW7	8		4024	131075020	801	09-19 09-1 9		0940 1040		D BLANK RONMENTAL		.43	40	1	.8	763		19
		LOCAL IDENT- I- FIER	DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WAT WHO FIE (STA AR UNI (004	TER OLE OLE OLD AND- OTS)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPI ATUI WATI (DEG (000)	RE ER C)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE SIUN DIS- SOLVE (MG/I AS MC	I, S D SO (M I) AS	TAS- IUM, DIS- DLVED IG/L K)	SODIC DIS- SOLVE (MG/ AS N	IM, WI IM, WI ID II IL MO	ALKA- INITY AT DIS OT IT FIELD G/L AS CACO3 39086)	
NJDEP	MW72		08-08-01	5.2	4.	3	173	12.	5	53	9.16	7.43	2	.59	1.5	5		
NJDEP	MW73		09-06-01	9.0	5.	2	165	12.5	5	55	16.7	3.20	4	.81	1.7		1	
NJDEP	MW74		09-20-01 09-20-01	3.6	6.	2	373	14.5	5	130	36.1	10.5		.61	20.2		130	
NJDEP	MW77		09-06-01	3.8	6.	8	315	17.0	0	110	30.4	8.79	1	.97	13.8	3	95	
NJDEP	MW7 8		09-19-01 09-19-01	5.3	6.	2	202	12.0		73	.06 17.6	E.005		.81	<.1 8.7		56	
		LOCAL IDENT- I- FIER	DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHI RID DIS SOL (MG AS (009	E, VED (/L CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	AS SIO	VED /L 2)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS SUM OF CONSTITUENTS DIS- SOLVE (MG/I	G AMM	TRO- EN, ONIA IS- LVED IG/L N) 608)	MONIA ORGAN DIS. (MG/ AS N	M- IIC L L	NITRO- GEN, D2+NO3 DIS- SOLVED (MG/L AS N) D0631)	
NJDEP	MW72		08-08-01		7.	6	E.2	7.3	3	46.2	87		E.	034	<.1	.0 :	3.86	
NJDEP	MW73		09-06-01	6	6.	1	<.2	6.3	3	26.0	113	68	E.	011	E.0	5 E	3.78	
NJDEP	MW74		09-20-01 09-20-01	159	26.	0	<.2	24.9	9	9.3	208	211		040	<.1		E.033	
NJDEP	MW77		09-06-01	116	18.	3	<.2	16.6	6	21.2	188	168	E.	020	E.0	7 E	3.02	
NJDEP	MW78		09-19-01 09-19-01	68	11.	2	<.2	< 11.5		15.6	117	117		 145	.1		1.98	

E Estimated value.

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NJDEP	MW72		08-08-01	E.003		E.009	.44	1140	<.05	<.2	50.8	.29	20
NJDEP	MW73		09-06-01	E.001		E.006	.43	32	<.05	<.2	111	<.06	19
NJDEP	MW74		09-20-01										
			09-20-01	E.004		<.020	1.0	5	<.05	.3	965	.08	26
NJDEP			09-06-01	<.006		E.021	. 67	1	<.05	.4	48.8	<.06	20
NJDEP	MW/8		09-19-01 09-19-01	.012	2.2	<.020	.48	<1 <1	<.05 <.05	<.2 E.1	<1.0 23.7	<.06 <.06	<7 16
		LOCAL IDENT- I- FIER	DATE	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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW72		08-08-01	.10	.9	36.8	<10	3.76	52.6	<.01	7.50	E.3	<1.0
NJDEP	MW73		09-06-01	.29	<.8	1.4	<10	5.04	63.7	<.01	2.71	<.3	<1.0
NJDEP	MW74		09-20-01	774									
AV TOUR	10,777		09-20-01	.05	<.8	.3	2030	<.08	759	<.01	7.41	<.3	<1.0
NJDEP			09-06-01	.17	<.8	.9	М	.25	159	<.01	.25	<.3	<1.0
NJDEP	PIW / O		09-19-01 09-19-01	.12 .25	<.8 <.8	1.0	<10 20	.14	<.1 1110	<.01 <.01	E. 05 5.69	<.3 .5	<1.0 <1.0
		LOCAL IDENT- I- FIER	DATE	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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 UNFL/TRD REC (UG/L) (34571)
NJDEP	MW72	IDENT-	DATE 08-08-01	LIUM, DIS- SOLVED (UG/L AS TL)	DIS- SOLVED (UG/L AS ZN)	TRI- CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHYL- ENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- PROPANE TOTAL (UG/L)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)
NJDEP		IDENT-		LIUM, DIS- SOLVED (UG/L AS TL) (01057)	DIS- SOLVED (UG/L AS ZN) (01090)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	CHLORO- ETHANE TOTAL (UG/L) (34496)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	CHLORO- ETHANE TOTAL (UG/L) (32103)	CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
	MW73	IDENT-	08-08-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057)	DIS- SOLVED (UG/L AS ZN) (01090)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10	CHLORO- ETHANE TOTAL (UG/L) (34496)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	CHLORO- ETHANE TOTAL (UG/L) (32103)	CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- WATER UNFLITED REC (UG/L) (34566) <.10	1,4-DI- CHLORO- WATER UNFLITED REC (UG/L) (34571)
NJDEP	MW73	IDENT-	08-08-01 09-06-01 09-20-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04	DIS- SOLVED (UG/L AS ZN) (01090) 25	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10	1,3-DI- CHLORO- WATER UNFL/TRD REC (UG/L) (34566) <.10 <.10	1,4-DI- CHLORO- WATER UNFITRD REC (UG/L) (34571) <.10 <.10
NJDEP	MW73 MW74 MW77	IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-06-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04	DIS- SOLVED (UG/L AS ZN) (01090) 25 3	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2	CHLORO- PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571) <.10 <.10 <.10 <.10
NJDEP NJDEP	MW73 MW74 MW77	IDENT-	08-08-01 09-06-01 09-20-01 09-20-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04	DIS- SOLVED (UG/L AS ZN) (01090) 25 3	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10
NJDEP NJDEP	MW73 MW74 MW77 MW78	LOCAL LOCAL IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-06-01 09-19-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04 <.04 <.04 COMMENTED CHLORO- WATER UNFLITED REC (UG/L)	DIS- SOLVED (UG/L AS ZN) (01090) 25 3 2 2 3 2 BENZENE TOTAL (UG/L)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 BROMO- FORM TOTAL (UG/L)	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (UG/L)	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 CHLORO-BENZENE TOTAL (UG/L)	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L)	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 CHLORO-FORM TOTAL (UG/L)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L)	1,3-DI- CHLORO- WATER UNFI/TRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 BROMO- DI- CHLORO- METHANE TOTAL (UG/L)	1,4-DI- CHLORO- WATER UNFI/TRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)
NJDEP NJDEP NJDEP	MW7 3 MW7 4 MW7 7 MW7 8	LOCAL LOCAL IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-06-01 09-19-01 09-19-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04 <.04 CHLORO- WATER UNFLIRD REC (UG/L) (34536)	DIS- SOLVED (UG/L AS ZN) (01090) 25 3 2 2 2 2 3 2 BENZENE TOTAL (UG/L) (34030)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 BROMO- FORM TOTAL (UG/L) (32104)	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 CARBON TETRA-CHLO-RLDE TOTAL (UG/L) (32102)	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 CHLORO-FORM TOTAL (UG/L) (32106)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 (.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP NJDEP NJDEP	MW73 MW74 MW77 MW78	LOCAL LOCAL IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-19-01 09-19-01 DATE 08-08-01 09-06-01 09-20-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04 <.04 <.04 (.04 <.04 BENZENE O-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34536) <.10 <.10 <.10	DIS- SOLVED (UG/L AS ZN) (01090) 25 3 2 2 2 3 2 BENZENE TOTAL (UG/L) (34030) <.10 <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 BROMO- FORM TOTAL (UG/L) (32104) <.20 <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102) <.20 <.20 <.20	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093) <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101) <.10 <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFILTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2
NJDEP NJDEP NJDEP NJDEP	MW73 MW74 MW77 MW78	LOCAL LOCAL IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-06-01 09-19-01 DATE 08-08-01 09-06-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04 <.04 <.04 CHORO- WATER UNFLTRD (UG/L) (34536) <.10 <.10	DIS- SOLVED (UG/L AS ZN) (01090) 25 3 2 2 2 3 2 BENZENE TOTAL (UG/L) (34030) <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 EROMO- FORM TOTAL (UG/L) (32104) <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102) <.20 <.20	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105) <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 CHLORO-FORM TOTAL (UG/L) (32106) <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093) <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFILTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101) <.10 <.10 <.10 <.11	1,4-DI- CHLORO- WATER UNFI/TRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2 <.2
NJDEP NJDEP NJDEP NJDEP NJDEP NJDEP	MW73 MW74 MW77 MW78 MW78 MW72 MW73 MW74	LOCAL LOCAL IDENT-	08-08-01 09-06-01 09-20-01 09-20-01 09-19-01 09-19-01 DATE 08-08-01 09-06-01 09-20-01 09-20-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) E.02 <.04 <.04 <.04 <.04 <.04 COBERT OF COMMENT OF CO	DIS- SOLVED (UG/L AS ZN) (01090) 25 3 2 2 2 3 2 BENZENE TOTAL (UG/L) (34030) <.10 <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 (.10 (.10 2.10 (.20 <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.20 <.20 <.20 <.20	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 CHLORO-BENZENE TOTAL (UG/L) (34301) <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093) <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101) <.10 <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFILTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2

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

AMBIENT GROUND-WATER-OUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW72		08-08-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW73		09-06-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW74		09-20-01 09-20-01	<.2 <.2	<.2 <.2	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.2 .2	<.2 <.2	<.20 <.20	<.10 <.10
NJDEP	MW77		09-06-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW78		09-19-01 09-19-01	<.2	<.2	 <.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW72		08-08-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	7.20	1.3	8.38
NJDEP	MW73		09-06-01	<.10	<.1	<.10	<.10	<.20	<.2	.62	.33	1.1	5.69
NJDEP	MW74		09-20-01 09-20-01	<.10 <.10	<.1 <.1	<.10 <.10	<.10 <.10	<.20 <.20	<.2 <.2	1.5	4.12	2.3	4.63
NJDEP	MW77		09-06-01	<.10	<.1	<.10	<.10	<.20	<.2	1.5	4.99	1.9	5.26
NJDEP	MW78		09-19-01 09-19-01	<.10	<.1	<.10	<.10	<.20	<.2	.46	.77	1.2	3.23

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

LOCAL IDENT- I- FIER	STATION NUMBER	DATE	TIME	ACETO- CHLOR, WATER FLITRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW72	401229074290001	08-08-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW73	401233074320401	09-06-01	1110	<.004	<.002	<.005	E.007	<.010	<.041	<.020
NJDEP MW74	401619074462401	09-20-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW77	402018074540301	09-06-01	1210	<.004	<.002	<.005	.053	<.010	<.041	<.020
NJDEP MW78	402431075020801	09-19-01	1040	<.004	<.002	<.005	<.007	<.010	<.041	<.020

							DEETHYL					LIN-	
		LOCAL IDENT- I- FIER	DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FL/TRD 0.7 U GF, REC (UG/L) (82682)	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)	LINDANE DIS- SOLVED (UG/L) (39341)	URON WATER FI/TRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)
NJDEP	MW72		08-08-01	E.002	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW73		09-06-01	<.005	<.018	<.003	E.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW74		09-20-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW77		09-06-01	<.005	<.018	<.003	E.033	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP	MW78		09-19-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

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

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

	LOCAL IDENT- I- FIER	DATE	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)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITD 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)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLITD 0.7 U GF, REC (UG/L) (82670)
NJDEP MW72		08-08-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW73	6	09-06-01	<.050	3.97	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW74	4.	09-20-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP MW77		09-06-01	<.050	E.003	<.006	<.002	<.007	<.003	<.010	E.004	<.011	<.016
NJDEP MW78		09-19-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

		LOCAL IDENT- I-		TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FL/TRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U
		FIER	DATE	GF, REC (UG/L) (82665)	GF, REC	GF, REC
NJDEP	MW72		08-08-01	<.034	<.005	<.009
NJDEP	MW73		09-06-01	<.034	<.005	<.009
NJDEP	MW74		09-20-01	<.034	<.005	<.009
NJDEP	MW77		09-06-01	<.034	<.005	<.009
NJDEP	MW78		09-19-01	<.034	<.005	<.009

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

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 12

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL	SCRI INTER (F)	VAL	AQUIFER UNIT
401021074030601	250795	NJDEP WALL TWP MW67	401021	0740306	47	27.5	23 -	28	121CKKD
401335074042701	250794	NJDEP NEPTUNE TWP MW68	401335	0740427	82	29.5	25 -	30	121CKKD
*401732074022101	250797	NJDEP EATONTOWN MW71	401732	0740221	39	38.5	34 -	39	125VNCN
*402412074073001	250799	NJDEP MIDDLETOWN MW70	402412	0740730	65	23.8	19 -	24	211MRSL
402623074154701	231358	NJDEP CHEESEQUAKE SP MW103	402623	0741547	50	55	50 -	55	211MRPAU

^{* -} Field data and samples for laboratory analyses provided by the New Jersey Department of Environmental Protection.

Aquifer units: 121CKKD - Kirkwood-Cohansey aquifer system 125VNCN - Vincentown aquifer system 211MRSL - Marshalltown Formation 211MRPAU - Upper Potomac-Raritan-Magothy aquifer system

REMARKS.--For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

	LOCAL IDENT- I- FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	FLOW RATE (G/M) (00059)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NJDEP MW	67	401021074030601	07-27-01	0840	EQUIPMENT BLANK				122	
			07-30-01	1549	AMBIENT BLANK					
			07-30-01	1550	ENVIRONMENTAL		40	2.4	758	19
NJDEP MW	68	401335074042701	07-31-01	1010	ENVIRONMENTAL		70	7.7	761	15
NJDEP MW7	71	401732074022101	08-07-01	0915	ENVIRONMENTAL	.50	50	3.3	763	36
NJDEP MW7	70	402412074073001	09-06-01	1000	AMBIENT BLANK					
			09-06-01	1100	ENVIRONMENTAL			7.8	769	16
NJDEP MW1	103	402623074154701	09-25-01	1240	ENVIRONMENTAL	.13	70	170	753	
			H TER SPE-		HARD-	MAG	NE- POT	AS-	ALK	

		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW67		07-27-01						E. 01	<.008		<.1	
			07-30-01										
			07-30-01	1.6	5.2	282	25.0	62	13.9	6.72	3.25	23.4	11
NJDEP	MW68		07-31-01	1.4	4.9	240	18.5	45	6.02	7.19	3.07	11.9	2
NJDEP	MW71		08-07-01	3.6	7.8	245	15.5	110	41.0	2.26	1.50	3.3	92
NJDEP	MW70		09-06-01		22								
			09-06-01	1.6	4.2	322	15.0	69	16.0	7.02	5.34	17.6	
NJDEP	MW103		09-25-01		6.0	308	15.0	97	34.0	2.85	2.03	7.0	53
		LOCAL IDENT- I- FIER	DATE	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NJDEP	MW67		07-27-01 07-30-01				<.1				7.7		
			07-30-01	13	43.5	<.2	5.4	24.6	163	154	.063	.18	5.92
NJDEP	MW68		07-31-01	3	23.0	<.2	13.7	67.2	161	148	<.040	<.10	E.031
NJDEP	MW71		08-07-01	112	8.2	<.2	11.8	1.9	133	130	<.040	<.10	1.17
NJDEP	MW70		09-06-01	-25			122	122	22		22	22	
			09-06-01		19.2	E.1	18.7	106	205		E.027	E.07	E.029
NJDEP	MW103		09-25-01	65	12.2	<.2	8.2	46.7	152		.055	.15	.779

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NJDEP	MW67		07-27-01					<1	<.05	<.2	<1.0	<.06	<7
NODEL	24107		07-30-01										
			07-30-01	<.006	6.1	<.020	1.2	51	<.05	<.2	65.8	.12	114
NJDEP	MW68		07-31-01	<.006		<.020	1.1	70	<.05	E.1	35.9	1.12	7
NJDEP	MW71		08-07-01	<.006		E.009	E.20	<1	<.05	<.2	1.4	<.06	17
NJDEP	MW70		09-06-01 09-06-01	<.006		.020	.60	242	<.05	<.2	72.2	.47	34
NJDEP	MW103		09-25-01	E.004	.93	<.020	3.0	24	E.04	1.4	39.6	<.06	14
		LOCAL IDENT- I- FIER	DATE	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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW67		07-27-01	<.04	<.8	E.2	<10	<.08	<.1	<.01	<.06	E.3	<1.0
			07-30-01 07-30-01	.13	<.8	.7	70	.15	49.1	<.01	1.40	.5	<1.0
NJDEP	MW68		07-31-01	.09	E.6	.5	14800	.24	158	<.01	1.41	<.3	<1.0
NJDEP			08-07-01	<.04	5.5	E.2	<10	<.08	.3	<.01	<.06	<.3	<1.0
NJDEP			09-06-01				7-0						
HODEL	24170		09-06-01	1.78	<.8	191	8430	13.9	517	<.01	23.1	<.3	<1.0
NJDEP	MW103		09-25-01			3.0	2560		121	<.01		E.2	<1.0
		LOCAL IDENT- I- FIER	DATE	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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)
NJDEP		IDENT- I-	DATE 07-27-01	LIUM, DIS- SOLVED (UG/L AS TL)	DIS- SOLVED (UG/L AS ZN)	TRI- CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHYL- ENE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- PROPANE TOTAL (UG/L)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L)
NJDEP		IDENT- I-		LIUM, DIS- SOLVED (UG/L AS TL) (01057)	DIS- SOLVED (UG/L AS ZN) (01090)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	CHLORO- ETHANE TOTAL (UG/L) (34496)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	CHLORO- ETHANE TOTAL (UG/L) (32103)	CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
NJDEP	MW67	IDENT- I-	07-27-01 07-30-01 07-30-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02	DIS- SOLVED (UG/L AS ZN) (01090)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	CHLORO- ETHANE TOTAL (UG/L) (34496)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (32103)	CHLORO- PROPANE TOTAL (UG/L) (34541) <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)
NJDEP	MW67	IDENT- I-	07-27-01 07-30-01 07-30-01 07-31-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04	DIS- SOLVED (UG/L AS ZN) (01090) <1 3	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2	CHLORO- PROPANE TOTAL (UG/L) (34541) <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10	1,3-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34566) <.10 <.10	1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571) <.10 <.10
NJDEP	MW67 MW68 MW71	IDENT- I-	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2	CHLORO- PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLITED REC (UG/L) (34566) <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10
NJDEP	MW67 MW68 MW71	IDENT- I-	07-27-01 07-30-01 07-30-01 07-31-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04	DIS- SOLVED (UG/L AS ZN) (01090) <1 3	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2	CHLORO- PROPANE TOTAL (UG/L) (34541) <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10	1,3-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34566) <.10 <.10	1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571) <.10 <.10
NJDEP NJDEP	MW67 MW68 MW71	IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) < .10 < .10 < .10 < .10 < .10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10
NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103	IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-06-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10	CHLORO- ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10	CHLORO- ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) - <.10 <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLITED REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10
NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE	LIUM, DIS- SOLVED (UG/L AS TL) (01057) -04 E.02 <.04 <.04 <.04 CHLORO- WATER UNFLTRD REC (UG/L) (34536)	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 (.10) <.10 (.10) <.10 (.10) <.10	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 CARBON TETRA-CHLO-RIDE TOTAL (UG/L)	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L)	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 CHLORO-FORM TOTAL (UG/L)	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04 <.04 BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536) <.10	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37 BENZENE TOTAL (UG/L) (34030)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (34496) (.10 (.10 (.10 (.10 (.10 (.10 (.10 (.10	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 (.2 (.2) (.2) (.2) (.2) (.2) (.2) (.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 (.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 <.10 CHLORO- METHANE TOTAL (UG/L) (32101)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 CHLORO- DI- CHLORO- METHANE TOTAL (UG/L) (34668)
NJDEP NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE 07-27-01 07-30-01 07-30-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04 <.04 C.04 C.04 (.04 (.04) (.05) (.06) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.07) (.08	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37 BENZENE TOTAL (UG/L) (34030)	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 (.10) <.20 (.20)	CHLORO-ETHANE TOTAL (UG/L) (34496) <.10 <.10 <.10 <.10 <.10 CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102) <.20 <.20	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 (.10 <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 CHLORO- DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2
NJDEP NJDEP NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE 07-27-01 07-30-01 07-31-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04 <.04 <.04 (.04)	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37 BENZENE TOTAL (UG/L) (34030) <.10 <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.20 <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) (.10 (.10 (.10 (.10 (.10 (.10 (.10 (.10	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI- BROMO- METHANE TOTAL (UG/L) (32105) <.2 <.2 <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 CHLORO- METHANE TOTAL (UG/L) (32101) <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2
NJDEP NJDEP NJDEP NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103 MW67 MW68 MW71	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE 07-27-01 07-30-01 07-31-01 08-07-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04 <.04 BENZENE O-DI- CHLORO- WATTER UNFLITED REC (UG/L) (34536) <.10 <.10 <.10 <.10	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37 BENZENE TOTAL (UG/L) (34030) <.10 <.10 <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.20 <.20 <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) (.10 (.10 (.10 (.10 (.10 (.10 (.10 (.10	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 <.10 CHLORO- DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2 <.2
NJDEP NJDEP NJDEP NJDEP	MW67 MW68 MW71 MW70 MW103 MW67 MW68 MW71	LOCAL IDENT- I- FIER	07-27-01 07-30-01 07-30-01 07-31-01 08-07-01 09-06-01 09-25-01 DATE 07-27-01 07-30-01 07-31-01	LIUM, DIS- SOLVED (UG/L AS TL) (01057) <.04 E.02 <.04 <.04 <.04 <.04 (.04)	DIS- SOLVED (UG/L AS ZN) (01090) <1 3 13 <1 247 37 BENZENE TOTAL (UG/L) (34030) <.10 <.10	TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.20 <.20 <.20	CHLORO-ETHANE TOTAL (UG/L) (34496) (.10 (.10 (.10 (.10 (.10 (.10 (.10 (.10	CHLORO-ETHYL- ENE TOTAL (UG/L) (34501) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	CHLORO-ETHANE TOTAL (UG/L) (32103) <.2 <.2 <.2 <.2 <.2 <.2 <.2 CHLORO-DI- BROMO- METHANE TOTAL (UG/L) (32105) <.2 <.2 <.2 <.2 <.2 <.2	CHLORO-PROPANE TOTAL (UG/L) (34541) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.1	1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546) <.10 <.10 <.10 <.10 <.10 <.10 <.10 <.10	1,3-DI- CHLORO- WATER UNFLITRD REC (UG/L) (34566) <.10 <.10 <.10 <.10 <.10 CHLORO- METHANE TOTAL (UG/L) (32101) <.10 <.10 <.10 <.10	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571) <.10 <.10 <.10 <.10 <.10 DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668) <.2 <.2 <.2

 $^{{\}tt E}$ Estimated value. ${\tt <}$ Actual value is known to be less than the value shown.

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LOCAL IDENT- I- FIER	DATE	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLITED 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)	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)
NJDEP	MW67		07-27-01 07-30-01 07-30-01	<.2 <.2	<.2 <.2	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.2 E.1	<.2 <.2	<.20 <.20	<.10 <.10
NJDEP	MW68		07-31-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW71		08-07-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW70		09-06-01 09-06-01	<.2 <.2	<.2 <.2	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	1.1	<.2 <.2	<.20 <.20	<.10 <.10
NJDEP	MW103		09-25-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	E.1	<.20	<.10
		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW67		07-27-01 07-30-01 07-30-01	<.10 <.10	<.1 <.1	<.10 <.10	<.10 <.10	<.20 <.20	<.2 <.2	1.4	 8.05	1.3	9.21
NJDEP	MW68		07-31-01	<.10	<.1	<.10	<.10	<.20	<.2	. 85	3.13	1.1	6.36
NJDEP	MW71		08-07-01	<.10	<.1	<.10	<.10	<.20	<.2	1.1	.11	1.2	2.31
NJDEP	MW70		09-06-01 09-06-01	<.10 <.10	<.1 <.1	<.10 <.10	<.10 <.10	<.20 <.20	<.2 <.2	1.5	5.28	1.9	8.60
NJDEP	MW103		09-25-01	<.10	<.1	<.10	<.10	<.20	<.2	1.3	2.10	2.2	3.33

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

LOCAL IDENT- I- FIER	STATION NUMBER	DATE	TIME	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW67	401021074030601	07-30-01	1550	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW68	401335074042701	07-31-01	1010	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW71	401732074022101	08-07-01	0915	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW70	402412074073001	09-06-01	1100	<.004	<.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW103	402623074154701	09-25-01	1240	<.004	<.002	<.005	<.007	<.010	<.041	<.020

	LOCAL IDENT- I- FIER	DATE	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 FI/TRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FI/TRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)
NJDEP MW	167	07-30-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW	168	07-31-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW	771	08-07-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027
NJDEP MW	770	09-06-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.030
NJDEP MW	V103	09-25-01	<.005	<.018	<.003	<.006	<.005	<.005	<.002	<.004	<.035	<.027

E Estimated value.

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

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES AMBIENT GROUND-WATER-QUALITY NETWORK--Continued WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

		LOCAL IDENT- I- FIER	DATE	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)	MOL- INATE WATER FLITD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLITED 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)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLIRD 0.7 U GF, REC (UG/L) (82670)
NJDEP	MW67		07-30-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW68		07-31-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW71		08-07-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW70		09-06-01	<.050	.014	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016
NJDEP	MW103	3	09-25-01	<.050	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016

		LOCAL IDENT- I-		BACIL WATER FLTRD 0.7 U	BENCARB WATER FL/TRD 0.7 U	FLUR- ALIN WAT FLT 0.7 U
		FIER	DATE	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)
NJDEP	MW67		07-30-01	<.034	<.005	<.009
NJDEP	MW68		07-31-01	<.034	<.005	<.009
NJDEP	MW71		08-07-01	<.034	<.005	<.009
NJDEP	MW70		09-06-01	<.034	<.005	<.009
NJDEP	MW103	3	09-25-01	<.034	<.005	<.009

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

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 13

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	INI	REE ERV FT.	AL	AQUIFER UNIT
*395034074112101	291419	NJDEP FORKED RIVER MW61	395034	0741121	19	20	15	-	20	121CKKD
*400052074191201	291420	NJDEP LAKEHURST MW66	400052	0741912	72	25	20	-	25	121CKKD
400204074145401	291418	NJDEP DOVER TWP MW63	400204	0741454	63	24	19	-	24	121CKKD
400346074081701	291417	NJDEP BRICK TWP MW64	400346	0740817	13	18.5	14	-	19	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 "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

TUR-

BARO-

OXYGEN,

NUMBER MWG1 35503407411210 08-01-01 0945 ENVITIONEMENTAL 5.0 50 1.1 0773 14		LO IDE I FI	-	STA	ATION NU	BER	DATE	TIME		MPLE TYPE	RA (C	LOW TO	(MIN)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	SOLVED (PER- CENT SATUR- ATION)
NUTREP 189965	NJDEP MW6	1		3950	34074112	01 08	-01-01	0945	ENVTRON	TENT'AT						
NITHER NATION N		7									•					
NITIEP MN64 40034674081701 08-02-01 1140 ENVITENSEENTEL 60 3.2 768 40 Continue	NODEF IMO			4000	/320/4191.											
LOCAL CONTROL CONTRO	NJDEP MW6	3		4002	04074145	01 08	-06-01	1010	ENVIRON	ENTAI			30	2.8	763	106
LOCAL IDENT- CAYGEN, WATTER SPE- HAND- MATTER STEEL CON- TEMPER TOTAL DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NJDEP MW6	4		4003	46074081	01 08	-02-01	1140	ENVIRON	ENTAI	3		60	3.2	768	40
NJDEP MW66			IDENT-		DIS- SOLVED (MG/L) (00300)	WATER WHOLE FIELD (STAND ARD UNITS (00400	CIFIC CON- DUCT- ANCE (US/CM) (00095)	WATU WATU (DEG) (000:	NES ER- TOT RE (MC ER AS C) CAC 10) (009	SAL S/L S(3)	DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVEI (MG/L AS MG) (00925)	DIS O SOLV (MG/) AS K	M, SODI - DIS ED SOLV L (MG) AS 5) (009	LIN TUM, WAT F- TOT ED FI F/L MG/ NA) CA (30) (39)	DIS IT ELD L AS CO3 086)
Note	NJDEP	MW61		08-01-01	1.4	5.5	129	15.	5 28		8.88	1.34	.9	3 12	.0	6
Noted Note	NJDEP	MW66						15.								
LOCAL BICAR-BONATE CRID-BONATE CRID-BONATE CRID-BONATE RIDE, BONATE	NJDEP	MW63		08-06-01	10.0	5.5	563	18.0	0 67		18.6	5.04	1.4	4 76	.2 1	0
LOCAL BONATE CHIC- FIUD- SILICA, DIS- SULPATE AT 180 CONSTIT. AMMANTA MONTA + MO2+MO3 LIS- DIS- SOLVED DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	NJDEP	MW64		08-02-01	3.6								1.7			
NJDEP MW66			IDENT- I-	DATE	BONATE WATER DIS IT FIELD MG/L AS HCO3	RIDE, DIS- SOLVE (MG/L AS CL	RIDE, DIS- D SOLVEI (MG/L) AS F)	DIS- SOLV (MG, AS	VED DIS /L SOI (MG	ATE VED	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SUM OF CONSTI- TUENTS, DIS- SOLVEI (MG/L)	GEN AMMON DIS SOLV (MG/ AS N	GEN, IA MONI ORGA ED DIS L (MG) AS	AM- G A + NO2 NIC D . SO J/L (M N) AS	EN, +NO3 IS- LVED G/L N)
NJDEP MW63 08-06-01 12 150 <.2 4.9 9.2 285 274 <.040 <.10 .560 NJDEP MW64 08-02-01 449 <.2 3.6 23.0 816 750 <.040 .13 3.14 NITRO-GEN, NITRO-FHORUS CARBON, ALUM-NITRITE GEN ORTHO, ORGANIC INUM, MONY, ARSENIC BARIUM, LIUM, BORON, DIS-DIS-DIS-DIS-DIS-DIS-DIS-DIS-DIS-DIS-	NJDEP	MW61		08-01-01	7	19.9	<.2	5.3	1 8.	6	80	73	<.04	ο.	12 2.	75
NJDEP MW64 08-02-01 449 <.2 3.6 23.0 816 750 <.040 .13 3.14 NITRO- GEN, NITRO- PHORUS CARBON, ALUM- ANTI- IDENT- I- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NJDEP	MW66						<					<.04		7	
NITRO- PHOS- CARBON, ALUM- ANTI- BERYL- BER	NJDEP	MW63		08-06-01	12	150	<.2	4.9	9 9.	2	285	274	<.04	0 <.	10 .	560
LOCAL NITRITE GEN ORTHON ORGANIC INUM, MONY, ARSENIC BARIUM, LIUM, BORON, DIS- DI	NJDEP	MW64		08-02-01		449	<.2	3.6	5 23.	0	816	750	<.04	ο.	13 3.	14
NJDEP MW66			IDENT-	DATE	GEN, NITRITE DIS- SOLVED (MG/L AS N)	GEN DIS- SOLVED (MG/L AS N)	- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ORGAN DIS- SOLVI (MG,	NIC INC - DI ED SOI /L (UG C) AS	M, S- VED (/L AL)	MONY, DIS- SOLVED (UG/L AS SB)	DIS- SOLVEI (UG/L AS AS)	DIS- SOLVE (UG/	M, LIU DIS D SOI L (UG A) AS	M, BO VED SO VL (U BE) AS	IS- LVED G/L B)
08-02-01 <.006 <.020 1.5 36 <.05 <.2 4.0 <.06 17 NJDEP MW63 08-06-01 <.006 <.020 .42 8 <.05 <.2 68.9 <.06 18	NJDEP	MW61		08-01-01	<.006	2.9	<.020	1.7	7 2	4	.05	<.2	30.5	<.0	6 1	5
NJDEP MW63 08-06-01 <.006 <.020 .42 8 <.05 <.2 68.9 <.06 18	NJDEP	MW66						1.								
	משרוד.וא	MW63									11377					
				08-02-01	E.004	3.3	<.020				E.03	<.2	44.9			

E Estimated value.

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW61		08-01-01	.22	<.8	3.0	<10	E.08	14.2	<.01	.79	.4	<1.0
NJDEP	MW66		08-02-01 08-02-01	<.04	<.8	<.2 1.1	<10 <10	.09	4.6	<.01 <.01	<.06	<.3	<1.0 <1.0
	NEXT 2											<.3	<1.0
NJDEP			08-06-01	.04	1.0	3.9	20	.10	28.2	<.01	3.60		
NJDEP	MW64		08-02-01	.36	2.9	17.7	70	.29	38.9	<.01	5.53	E.3	<1.0
		LOCAL IDENT- I- FIER	DATE	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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)
NJDEP	MW61		08-01-01	<.04	32	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW66		08-02-01 08-02-01	<.04	<1 <1				<.2	<.10	<.10	<.10	<.10
						<.10	<.10	<.10					
NJDEP			08-06-01	E.02	7	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW64		08-02-01	<.04	38	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
		LOCAL IDENT- I- FIER	DATE	BENZENE O-DI- CHLORO- WATER UNFLITED 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)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP	MW61		08-01-01	<.10	<.10	<.20	<.20	<.10	<.2	.42	<.10	<.10	<.2
NJDEP	MW66		08-02-01										
	10163		08-02-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP			08-06-01	<.10	<.10	<.20	<.20	<.10	<.2	.22	<.10	<.10	<.2
NJDEP	MW64		08-02-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
		LOCAL IDENT- I- FIER	DATE	DI-ISO- PROPYL- ETHER, WATER, UNFLITED RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFL/TRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLITED RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLITED RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLITED 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)
NJDEP	MW61		08-01-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW66		08-02-01 08-02-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	 <.10
NJDEP	MW63		08-06-01	<.2	<.2	<.10	<.2	<.10	<.10	E.2	<.2	<.20	<.10
NJDEP	MW64		08-02-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW61		08-01-01	<.10	<.1	<.10	<.10	<.20	<.2	.73	2.46	.95	3.65
NJDEP	MW66		08-02-01										
			08-02-01	<.10	<.1	<.10	<.10	<.20	<.2	1.2	3.78	2.1	4.88
								33.55					
NJDEP	MW63		08-06-01	<.10	<.1	<.10	<.10	<.20	<.2	2.4	8.99	3.5	5.35

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

WATER-COLUMN PESTICIDE ANALYSES

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

	LOC IDEN I- FIE	7T-	STA	TION NUM	BER DA	ATE	TIME	CHLOR, C WATER W FLTRD I REC I (UG/L) (U	IG/L)		ZINE, WATER, W DISS, REC G (UG/L) (BEN- FLUR- ALIN AT FLD 0.7 U F, REC UG/L) 82673)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW6:	L		3950	340741121	01 08-0	01-01	0945	<.004	.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW6	5		4000	520741912	01 08-0	02-01	0900	<.004	.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW6	3		4002	040741454	01 08-0	06-01	1010	<.004	.002	<.005	<.007	<.010	<.041	<.020
NJDEP MW6			4003	460740817	01 08-0	02-01	1140	<.004	.002	<.005	<.007	<.010	<.041	<.020
NJDEP NJDEP NJDEP	MW66 MW63	LOCAL IDENT- I- FIER	DATE 08-01-01 08-02-01 08-06-01 08-02-01	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933) <.005 <.005 <.005	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041) <.018 <.018 .046 <.018	DCPA WATER FIJTRD 0.7 U GF, REC (UG/L) (82682) <.003 <.003 <.003	(UG/L) (04040 <.006 <.006 <.006	DI- , AZINON, DIS- SOLVEI (UG/L)) (39572) <.005 <.005 <.005 <.005	DIS- SOLVE (UG/I	0.7 TED GF, RE L) (UG/L) 1) (82668 5 <.002	D LINDAN D DIS- EC SOLVED (UG/L 3) (39341 2 <.004 2 <.004	0.7 GF, (UG/) (826 <.0 <.0	N ER MAI PRO THI U DI REC SOI (1) (1) (2) (39) (35) (35) (35) (35) (35) (35) (35) (35	CON, CS- CVVED (A/L) (332) (227) (227)
NJDEP	MW61	LOCAL IDENT- I- FIER	DATE 08-01-01	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	WATER FLTRD 0.7 U GF, RE (UG/L)	AMIDE WATER FLITRD 0.7 U C GF, REC (UG/L)) (82684)	P,P' DDE DISSOI	(UG/L) 3) (82683	PRO- METON T WATER J DISS, EC REC (UG/L) 3) (04037	WAT DIS REC (UG/) (040	NE, WATER, FLOOR, S., 0.7 GF, L.) (UG. 35) (820	JRON TER TRD U REC (L)
NJDEP	MW66		08-02-01	<.050	<.013	<.006	<.002	<.007	<.003	3 <.010	.130	<.0	11 <.0	016
NJDEP			08-06-01	<.050	.018				<.003					
			22.026.026.0			<.006	<.002		177.00					
NJDEP	MW64		08-02-01	<.050	<.013	<.006	<.002	<.007	<.003	3 <.010	<.015	<.0	11 <.0)16

		LOCAL IDENT- I-		TER- BACIL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U
		FIER	DATE	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82661)
NJDEP	MW61		08-01-01	<.034	<.005	<.009
NJDEP	MW66		08-02-01	<.034	<.005	<.009
NJDEP	MW63		08-06-01	<.034	<.005	<.009
NJDEP	MW64		08-02-01	<.034	<.005	<.009

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

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 14

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
*393947074464501	011404	NUDEP HAMMONTON MW54	393947	0744645	68	14	9 - 14	121CKKD
*394640074323201	051504	NJDEP WOODLAND TWP MW58	394640	0743232	68	10	5 - 10	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 "Explanation of the records, Quality-control data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

	LOC IDEI I- FII	-	STA	ATION 1	IUMBER	DA	TE	TIME	SAMP TYP		RA (C	OW TO	(MIN)	TUR- BID- ITY FIELD WATER INFL/TRD (NTU) (61028)	BARO- METRIC PRES- SURE (MM OF HG) (00025	SOLVED (PER- CENT SATUR- ATION)
NJDEP MW54	4		3939	4707446	4501	07-2	6-01	1100	ENVIRONMEN	TAL		.50	35	1.0	758	
NJDEP MW5	8		3946	54007432	23201	07-3	77-01 1-01 1-01	1330 0845 1000	EQUIPMENT AMBIENT BL ENVIRONMEN	ANK		 .50	 40	1.8	769	3
		LOCAL IDENT- I- FIER	DATE	OXYGEN DIS- SOLVE (MG/I	WI WI (ST ID I	PH ATER HOLE IELD FAND- ARD NITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPE ATUR WATE (DEG (0001	ER AS C) CACO3	(MG	VED LVED CA)	MAGNE- SIUM DIS- SOLVEI (MG/L AS MG (00925	DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	A, SODI	UM, WAS TO F: FILL MG, NA) C	LKA- NITY I DIS I II IELD /L AS ACO3 9086)
NJDEP	MW54		07-26-01	<.2		5.1	239	19.0	84	16.	8	10.3	5.18	3 .	8	3
NJDEP	MW58		07-27-01 07-31-01 07-31-01	.3		5.1	 54	21.0		- 10-	01 91	<.008 .465	4.87		4	3
		LOCAL IDENT- I- FIER	DATE	BICAR- BONATE WATER DIS IT FIELD MG/L P HCO3 (00453	CI RI DI S SC S (N	HLO- IDE, IS- DLVED MG/L S CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILIC DIS- SOLV (MG/ AS SIO2 (0095	SULFAT	DEG D DI SOI) (MG	BUE 80 C S- VED 1/L)	SOLIDS SUM OF CONSTI- TUENTS DIS- SOLVEI (MG/L) (70301)	GEN, - AMMONI - DIS SOLVE - (MG/I - AS N)	GEN, A MONI ORGA D DIS	AM- (A + NO: ANIC I . SO ./L (I N) AS	ITRO- SEN, 2+NO3 DIVED MG/L 3 N)
NJDEP	MW54		07-26-01	4	12	2.5	<.2	3.4	40.1	14	0	133	<.040		38 8	. 69
NJDEP	MW58		07-27-01 07-31-01 07-31-01	3	4	 1.0	 <.2	2.4			5	 29	<.040		- 07 E	.038
		LOCAL IDENT- I- FIER	DATE	NITRO GEN, NITRIT DIS- SOLVE (MG/I AS N) (00613	E O D D SOI (b	TRO- SEN IS- LVED MG/L S N) 0602)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBO ORGAN DIS- SOLVE (MG/ AS C	DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	(UG	Y, S- VED (/L SB)	ARSENIC DIS- SOLVEI (UG/L AS AS	DIS- SOLVEI (UG/I	DIS SOI (UC	VED SC L/L (T BE) A	DRON, DIS- DLVED JG/L S B)
NJDEP	MW54		07-26-01	.026	9	0.1	<.020	4.3	263		13	E.1	35.7	E.	04	38
NJDEP	MW58		07-27-01 07-31-01 07-31-01	<.006		==	<.020	1.7		-	03 - 05	<.2 .4	<1.0 12.7		-	<7 14

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

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	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)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NJDEP	MW54		07-26-01	.07	E.6	1.3	90	.12	12.7	<.01	.47	E.2	<1.0
NJDEP	MW58		07-27-01	<.04	<.8	<.2	<10	<.08	<.1	<.01	<.06	<.3	<1.0
			07-31-01 07-31-01	.12	<.8	.5	1320	<.08	41.3	<.01	.90	<.3	<1.0
		LOCAL IDENT- I- FIER	DATE	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	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 UNFLITED REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
NJDEP	MW54		07-26-01	. 05	<1	<.10	<.10	<.10	<.2	<.10	<.10	<.10	<.10
NJDEP	MW58		07-27-01	<.04	<1						10	10	10
			07-31-01 07-31-01	.07	9	<.10 <.10	<.10 <.10	<.10 <.10	<.2	<.10 <.10	<.10 <.10	<.10 <.10	<.10 <.10
		LOCAL IDENT- I- FIER	DATE	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)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
NJDEP	MW54		07-26-01	<.10	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
NJDEP	MW58		07-27-01										
			07-31-01 07-31-01	<.10 <.10	<.10 <.10	<.20 <.20	<.20 <.20	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.10 <.10	<.2 <.2
		LOCAL IDENT- I- FIER	DATE	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- PENIYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLITED 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)
NJDEP	MW54		07-26-01	<.2	<.2	<.10	<.2	<.10	<.10	<.2	<.2	<.20	<.10
NJDEP	MW58		07-27-01										
			07-31-01 07-31-01	<.2 <.2	<.2 <.2	<.10 <.10	<.2 <.2	<.10 <.10	<.10 <.10	<.2 <.2	<.2 <.2	<.20 <.20	<.10 <.10
		LOCAL IDENT- I- FIER	DATE	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)	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)
NJDEP	MW54		07-26-01	<.10	<.1	<.10	<.10	<.20	<.2	1.1	2.43	1.7	8.77
NJDEP	MW58		07-27-01										
			07-31-01 07-31-01	<.10 <.10	<.1 <.1	<.10 .41	<.10 <.10	<.20 <.20	<.2 <.2	.70	3.51	1.1	7.61

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

CARBO-

FURAN

BEN-

FLUR-

ATRA-

CAR-

BARYL

WATER QUALITY AT MISCELLANEOUS GROUND-WATER SITES

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-COLUMN PESTICIDE ANALYSES
Selected samples were analyzed for pesticides with laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Explanation of the Records" 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 2000 TO SEPTEMBER 2001

ACETO- ALA-

	LOCAL IDENT- I- FIER	ST	ATION NUM	BER DA	ATE	C W F TIME	HLOR, CHATER WATER DE REC RIUG/L) (UC	ATER, I ISS, I EC, SOI G/L) (U	LPHA BHC DIS- LVED G/L) (ZINE, P WATER, WP DISS, C REC GE UG/L) (U	T FLD 0.7 U F, REC G	WATER FLTRD 0.7 U SF, REC (UG/L) (82680)	WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
NJDEP MW54		3939	470744645	01 07-2	26-01	1100 <	.004 <	.002 <	.005	<.007	.010	<.041	<.020
NJDEP MW58		3946	400743232	01 07-3	31-01	1000 <	.004 <	.002 <	.005	<.007	.010	<.041	<.020
NJDEP		DATE 07-26-01 07-31-01	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933) <.005	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041) <.018	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682) <.003	(UG/L)	DI- AZINON, DIS- SOLVED (UG/L) (39572) <.005	DI- ELDRIN DIS- SOLVED (UG/L) (39381) <.005	EPTC WATER FITRD 0.7 U GF, RE (UG/L) (82668 <.002	LINDANE DIS- C SOLVED (UG/L)) (39341)	0.7 U GF, RE (UG/L)	MAL D THI D DI C SOL (UG 5) (395	ON, S- VED /L) 32)
NJDEP	LOCAL IDENT- I- FIER	DATE 07-26-01 07-31-01	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.050	METO- LACHLOR WATER DISSOLV (UG/L) (39415) E.010	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630) <.006	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L)	NAPROP- AMIDE WATER FL/TRD 0.7 U	P,P' DDE DISSOLV(UG/L) (34653) <.003	PENDI METH- ALIN WAT FL 0.7 U GF, RE (UG/L) (82683 <.010	PRO- METON, WATER, DISS, C REC (UG/L)) (04037)	SI- MAZINE WATER DISS, REC (UG/L)	TEB THIU T, WAT O.7 GF, (UG/) (826	J- RON ER RD U U REC L)
							TER- TI	HIO-	FRI-				

		LOCAL IDENT- I- FIER	DATE	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NJDEP	MW54		07-26-01	E.297	<.005	<.009
NJDEP	MW58		07-31-01	<.034	<.005	<.009

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

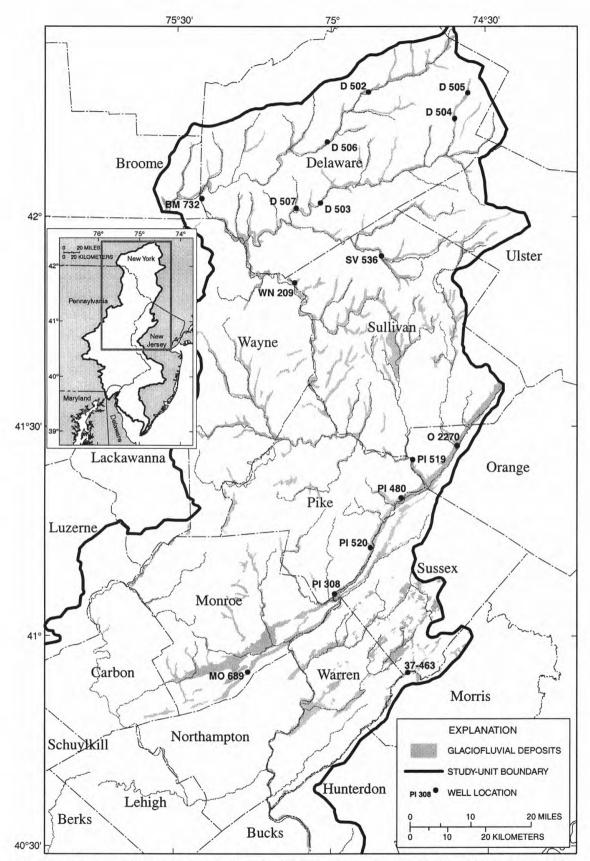


Figure 63. Location of sites in the Delaware River Basin National Water-Quality Assessment Program, ground-water synoptic study in the glaciofluvial deposits within the New England, Valley and Ridge, and Appalachian Plateau Physiographic Provinces, water year 2001.

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES

The following tables contain site, water-level, and water-quality data from a network of 16 domestic and monitoring 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 glaciofluvial deposits of the New England, Valley and Ridge, and Appalachian Plateau Physiographic Provinces. Samples were tested for physical characteristics, 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 16 wells.

Tables listing all of the VOC and pesticide schedule analytes and their reporting levels are in "Explanation of the Records" in the "Introduction." 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.

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 (both field and lab). 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 spikes were analyzed for pesticides and VOCs.

The following summarizes the quality-control sample results: Fifteen replicate samples were collected at 4 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 following pages. Twenty-six blank samples were collected. Concentrations of all constituents analyzed in the blank samples were less than the method detection limits, except for dissolved residue, which had one hit of 17 mg/L. The two field pesticides spikes of 100 uL/1 liter of sample had recoveries between 97 and 106 percent. The two lab pesticides spikes of 200 uL/1 liter of sample had recoveries of between 71 and 112 percent. The one VOCs spike of 20 uL/40mL of sample had a recovery between 98 and 100 percent. One VOC spike was unrecoverable due to a spiking error (sample was spiked with 10 uL/40mL of sample instead of the required 20 uL).

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, --Continued

LOC	CAL ID	STATION NUMBER	DATE	TIME	SAMPLE TYPE	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
				мо	NROE COUNTY PA					
MO	689	405501075155401	07-18-01	1200	ENVIRONMENTAL	1028	1028	470	64	14.59
				P	IKE COUNTY PA					
PI	308	410612074591501	07-16-01	1200	ENVIRONMENTAL	1028	1028	350	108	30.11
PI	480	411957074462601	07-11-01 07-11-01	1200 1201	ENVIRONMENTAL REPLICATE	1028 80020	1028 1028	465 465	213 213	86.99 86.99
		AND DESCRIPTIONS	07-11-01	1210	REPLICATE	80020	1028	465	213	86.99
PI	519	412522074441301	07-10-01	1100	ENVIRONMENTAL	1028	1028	600	120	103.82
PI	520	411252074522001	07-12-01	1100	ENVIRONMENTAL	1028	1028	440	200	38.48
				w	AYNE COUNTY PA					
WN	209	415040075070301	07-25-01	1200	ENVIRONMENTAL	1028	1028	820	142	20.16
				su	SSEX COUNTY NJ					
370	1463	405459074451201	07-17-01	1300	ENVIRONMENTAL	1028	1028	660	123	30.68
			07-17-01 07-17-01	1301 1304	REPLICATE REPLICATE	80020 80020	1028 1028	660 660	123 123	30.68 30.68
				BR	OOME COUNTY NY					
BM	732	420244075251101	07-26-01	1200	ENVIRONMENTAL	1028	1028	1000	22	9.54
				DEL	AWARE COUNTY NY					
_	F00	401750074504101	07 04 01	1000		1000	1000	1200	25.5	21 55
D	502 503	421758074524101 420207075020401	07-24-01 07-30-01	1200 1100	ENVIRONMENTAL ENVIRONMENTAL	1028 1028	1028 1028	1380 1080	25.5 120	21.55 15.98
D	504	421409074355701	07-31-01	1100	ENVIRONMENTAL	1028	1028	1540	45	18.17
D	505	421747074332301	08-14-01 08-14-01	1300 1301	ENVIRONMENTAL REPLICATE	1028 80020	1028 1028	1500 1500	70.4	3.73 3.73
			08-14-01	1304	REPLICATE	80020	1028	1500	70.4	3.73
D	506	421052075004501	08-15-01	1400	ENVIRONMENTAL	1028	1028	1280	128	38.70
D	507	420125075064801	08-01-01	1200	ENVIRONMENTAL	1028	1028	1034	23	15.71
				OR	ANGE COUNTY NY					
0	2270	412722074354501	08-09-01	1200	ENVIRONMENTAL	1028	1028	500	28	20.00
			08-09-01 08-09-01	1201 1210	REPLICATE REPLICATE	80020 80020	1028 1028	500 500	28 28	20.00
				SUL	LIVAN COUNTY NY					
gv	536	415429074501101	07-23-01	1100	ENVIRONMENTAL	1028	1028	1460	125	32.61
24	330		07-23-01	1100	THE A THOMPSE INT	1020	1020	1400		32.01

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOCAL ID	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (MS/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)	DIS-
			мо	NROE COUN	TY PA	4-20-4				
MO 689	.6	.4	8.1	211	14.6	110	30.3	7.13	.35	2.3
			P	IKE COUNT	Y PA					
PI 308	3.4	7.3	6.2	100	10.4	20	0 55	1 02	.72	5.2
PI 480	8.1	3.1	7.7	329	11.8	32 140	45.7	1.93 6.17	.47	9.0
	8.1 8.1	3.1 3.1	7.7	329 329	11.8 11.8	140	45.8	6.18	.48	9.1
PI 519	4.8	10.9	6.5	95	13.0	39	11.7	2.25	.30	2.7
PI 520	1.6	9.6	7.2	210	11.2	77	25.9	2.94	.47	8.8
			w	AYNE COUN	TY PA					
WN 209	.3	<.2	7.9	190	13.8	80	25.1	4.13	.79	9.2
			su	SSEX COUN	TY NJ					
370463	15	8.1	8.2	514	13.2	160	36.3	17.4	1.07	40.9
8448	15 15	8.1 8.1	8.2 8.2	514 514	13.2 13.2					
	15	0.1	0.2	514	13.2		95			
			BR	OOME COUN	TY NY					
BM 732	15	2.1	6.0	115	11.0	32	8.82	2.44	1.08	7.9
			DEL	AWARE COU	NTY NY					
D 502	13	6.6	6.2	174	15.4	65	19.3	4.00	1.24	7.1
D 503 D 504	3.7	10 2	6.2 5.8 6.5	221 153	11.4	75 45	17.3	7.67	1.07	9.4
D 505	1.4	4.5	6.5 6.5	74 74	14.6	27	8.53	1.43	.69	3.1
	1.4									
D 506	1.4	4.5 7.6	6.5 6.3	74 86	14.6 13.0	31	7.98	2.70	1.01	3.4
D 507	. 4	7.3	5.8	349	12.2	48	13.9	3.24	2.64	43.5
			OR	ANGE COUN	TY NY					
0 2270	.5	5.5	5.9	143	15.2	35	10.3	2.10	. 82	11.3
	. 5 . 5	5.5 5.5	5.9 5.9	143 143	15.2 15.2	35 	10.4	2.10	. 83	11.4
			SUL	LIVAN COU	NTY NY					
SV 536	2.4	.6	7.5	138	11.8	64	20.0	3.42	. 68	2.2

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

roc	CAL ID	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
МО	689	95	.01	2.0	<.2	7.5	13.6	133	121	<.040	<.10
				P	IKE COUNT	Y PA					
	308 480	14 78 78	.02 .02 .02	9.3 34.4 34.3	<.2 <.2 <.2	8.8 8.5 8.5	12.7 26.1 26.0	67 230 230	57 180 180	E.022 <.040 <.040	<.10 <.10 <.10
PI	519	78 21	<.01	4.5	<.2	8.8	10.2	66	59	<.040	<.10
PI	520	43	.02	26.7	<.2	7.7	14.0	127	113	<.040	<.10
				w	AYNE COUN	TY PA					
WN	209	94	.03	2.3	E.1	7.2	3.5	104	110	.055	<.10
				su	SSEX COUN	TY NJ					
370	463	96	<.01	90.3	E.1	17.5	13.2	289	275	<.040	<.10
		96 96							72		==
				BR	OOME COUN	TY NY					
ВМ	732	18	.02	15.2	<.2	4.5	8.6	59	62	<.040	<.10
				DEL	AWARE COU	NTY NY					
D D D	502 503 504 505	29 20 44 22 22	.02 .05 .02 .02	9.0 34.0 19.0 3.9	<.2 <.2 <.2 <.2 <.2 <.2	8.3 10.2 7.3 5.2	14.1 11.6 9.7 4.8	128 162 105 41	109 125 100 42	<.040 <.040 <.040 <.040	E.07 <.10 <.10 <.10
D D	506 507	22 21 22	<.01 .04	5.2 83.9	<.2 <.2	5.2 4.2	8.4 9.1	42 205	50 178	E.036 <.040	 <.10 E.05
				OR	ANGE COUN	TY NY					
0	2270	14 14 14	.03 .03	24.3 24.1	<.2 <.2	5.2 5.3	9.1 8.9	99 99 	78 77 	<.040 <.040	<.10 <.10
				SUL	LIVAN COU	NTY NY					
sv	536	57	<.01	4.6	.2	5.0	1.6	75	73	<.040	<.10

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, --Continued

LOCAL ID	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	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)	TOTAL COLI- FORM, M ENDO MF, WTR (COL/ 100 ML) (31501)	E COLI, NA-MUG, WATER (COL/ 100 ML) (50278)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)
			мо	NROE COUN	TY PA					
MO 689	.052	E.005	.055	.014	.018	3.8	<1		<1	<.05
			Р	IKE COUNT	Y PA					
		4.58		20102						10.4
PI 308 PI 480	.134	E.003		E.005	<.020 <.020	.37 <.30	<1 <1		<1 <1	<.05 .05
	.537	<.006		<.006	<.020	122				
PI 519	1.23	<.006		<.006	<.020	E.22	<1		<1 <1	E.05
PI 520	.161	<.006	44	<.006	<.020	E.25	<1		<1	<.05
			W	AYNE COUN	TY PA					
WN 209	E.025	<.006	.107	.040	.035	<.30	<1		<1	<.05
			su	SSEX COUN	TY NJ					
370463	.145	E.004	.098	.035	.032	.59	>80	<1	1	<.05
7.000		22				.41				
	-		77							
			BR	OOME COUN	TY NY					
BM 732	.442	<.006		.007	<.020	E.28	E8	<1	<1	<.05
			DEL	AWARE COU	NTY NY					
D 502	6.29	<.006		E.004	<.020	.43	>80	<1	<1	E.03
D 503	4.89	<.006	122	.014	E.012	.37	<1		2	<.05
D 504 D 505	2.02	<.006		.011	E.009	E.27	<1		<1	.06
D 505	.333	<.006			<.020	. 41 E.32	<1 		<1	<.05
D 506	.651	<.006		<.006	<.020	E.29	<1		<1	E.03
D 507	1.01	<.006		.006	<.020	E.27	<1		2	<.05
			OR	ANGE COUN	TY NY					
0 2270	1.36	<.006			<.020	E.23	E2	<1	1	<.05
	1.36	<.006		.010	<.020				<1	<.05
			SUL	LIVAN COU	NTY NY					
	1200		2010	100	1	275	202	0.69	-04	
SV 536	.210	<.006	.144	.054	.047	1.2	E2	<1	<1	<.05

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, --Continued

LOC	CAL ID	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
			(02000)		NROE COUN		(02000)	(02000)	(0-0-0,	(0-0-0)	(0-0-0-7
МО	689	1.2	36.2	<.06	<7	<.04	<.8	.04	1.6	<10	E.06
				P	IKE COUNT	Y PA					
	308 480	<.2 E.1	2.2	<.06 <.06	10 E5	<.04 <.04	<.8 <.8	.04	17.3	70 10 20	.43
PI	519	<.2 <.2	8.2 13.8	<.06	E6 16	<.04 E.03	<.8 <.8	.07	1.4	 M	.50
PI	520	<.2	3.3	<.06	10	<.04	E.6	.04	2.9	м	.09
				W	AYNE COUN	TY PA					
WN	209	.8	41.1	<.06	14	<.04	<.8	.04	<.2	50	.09
				SU	SSEX COUN	TY NJ					
270	0463	E.1	16.8	<.06				0.4	3.1	30	40
370	7403				E6 	<.04	<.8	.04			.42
				BR	OOME COUN	TY NY					
BM	732	<.2	33.2	<.06	7	<.04	<.8	.03	10.6	190	.31
				DEL	AWARE COU	NTY NY					
D	502	E.1	76.7	<.06	10	<.04	<.8	.06	86.8	120	.38
D	503 504	E.1 .6	32.4 38.1	<.06 <.06	8 9	E.04	<.8 <.8	.03	11.5 21.0	10 40	1.03
D	505	.2	15.9	<.06	8	<.04	<.8	.02	<.2	<10	<.08
120	233		2.75								
D	506 507	E.1 <.2	20.1 69.8	<.06 <.06	8 15	<.04 E.02	<.8 <.8	.06	<.2 52.5	570 110	<.08 1.86
				OR	ANGE COUN	TY NY					
0	2270	E.1	75.8	<.06	10	<.04	<.8	.04	31.6	10 10	2.02
		E. 1	77.3	<.06	11	<.04	<.8	.04	35.1		2.29
				SUL	LIVAN COU	NTY NY					
sv	536	E.2	8.0	<.06	<7	<.04	<.8	.02	2.0	м	<.08

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOC	EAL ID	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
				мо	NROE COUN	TY PA					
MO	689	3.6	3.6	. 6	<.06	. 8	<1.0	337	<.04	<.2	1
				P	IKE COUNT	Y PA					
	308 480	2.0	5.0	<.2 .3	.71 <.06	<.3 .5	<1.0 <1.0	39.2 131	<.04 <.04	<.2 <.2	3 1
		6.1	1.7	. 3	<.06	.3	<1.0	131	<.04	<.2	2
PI	519 520	2.6	1.4	<.2	<.06 <.06	<.3 <.3	<1.0	19.1	.04	<.2	6
21	520	2.0	.,	4.2	<.06	4.3	VI. 0	72.8	1.04	1.2	•
				W	AYNE COUN	TY PA					
WN	209	2.7	490	.9	<.06	<.3	<1.0	239	<.04	E.2	<1
				su	SSEX COUNT	ry nj					
370	463	.5	1.3	.3	<.06	<.3	<1.0	59.1	<.04	.4	1
				BR	OOME COUNT	TY NY					
вм	732	E.2	5.9	<.2	.11	<.3	<1.0	29.2	<.04	<.2	4
				DEL	AWARE COU	NTY NY					
D	502	.8	7.7	<.2	<.06	E.2	<1.0	60.2	<.04	<.2	15
D	503 504	2.0	9.9	<.2 <.2	.68	E.2 <.3	<1.0 <1.0	67.8 45.5	<.04	<.2 <.2	8
	505	E.3	11.1	.4	.08	₹.3	<1.0	28.7	<.04	<.2	<1
D	506		157	<.2	5.10		<1.0	20.1	<.04	E.2	2
	507	E.3	4.0	<.2	.17	<.3 <.3	<1.0	45.1	<.04	<.2	14
				OR	ANGE COUNT	ry ny					
0	2270	E.2	6.3		<.06		<1.0	48.5		<.2	24
		E. 2	7.5	<.2	.06	<.3	<1.0	48.2	<.04	<.2	19
				SUL	LIVAN COU	NTY NY					
sv	536	.4	8.2	<.2	<.06	E.2	<1.0	28.9	<.04	<.2	2

E Estimated value.

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, --Continued

LOC	CAL ID	ACETO- CHLOR ESA FLTRD 0.7 mM GF REC (UG/L) (61029)	ACETO- CHLOR OA FLTRD 0.7 mM GF REC (UG/L) (61030)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA- CHLOR OA FLTRD 0.7 mM 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)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAF- FEINE, WATER FLTRD REC (UG/L) (50305)
				мо	NROE COU	NTY PA				
МО	689	<.05	<.05		<.05	<.050	77	7.7	<.009	<.010
				P	PIKE COUNT	TY PA				
PI PI		<.05 <.05	<.05 <.05	<.004 <.004	<.05 <.05	<.050 <.050	<.002 <.002	<.005 <.005	<.007 <.007	<.010 <.010
PI	519	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
PI	520	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
				W	NAYNE COU	NTY PA				
WN	209	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
				su	JSSEX COU	NTY NJ				
370	0463	<.05 <.05	<.05 <.05	<.004 <.004	.05 <.05	<.050 <.050	<.002 <.002	<.005 <.005	<.007	<.010 <.010
				BF	ROOME COU	NTY NY				
ВМ	732	<.05	<.05	<.004	<.05	<.050	<.002	<.005	E.004	<.010
				DEI	LAWARE CO	UNTY NY				
D	502 503	<.05	<.05	<.004	<.05	<.050	<.002	<.005	.013	<.010 <.010
D	504	<.05 <.05	<.05 <.05	<.004	<.05 <.05	.080 <.050	<.002 <.002	<.005 <.005	<.007 E.006	<.010
D	505	<.05 <.05	<.05 <.05	<.004 <.004	<.05 <.05	<.050 <.050	<.002 <.002	<.005 <.005	<.007	<.010 <.010
D D	506 507	<.05 <.05	<.05 <.05	<.004 <.004	<.05 <.05	<.050 <.050	<.002 <.002	<.005 <.005	E.011	<.010 <.010
		,,,,,	1.00		1.05					
				OF	RANGE COU	NTY NY				
0	2270	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	<.010
		1124		22	22	22	22			
				sui	LIVAN CO	UNTY NY				
sv	536	<.05	<.05	<.004	<.05	<.050	<.002	<.005	<.007	E.004

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOC	CAL ID	(UG/L)	FLTRD 0.7 m GF, REC (UG/L)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	WATER, DISS, REC (UG/L)	WATER FLTRD 0.7 m GF, REC (UG/L)	WATER, DISS, REC (UG/L)	PROPYL ATRAZIN WATER, DISS, REC (UG/L)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ELDRIN DIS- SOLVED (UG/L)
					NROE COUN			Trans.		
мо	689						<.028	<.04	-22	
				P	IKE COUNT	Y PA				
7.7	300	. 041	. 000		. 010			. 04		4 005
	308 480	<.041 <.041	<.020 <.020	<.005		<.003	<.006	<.04	<.005 <.005	<.005
		77								
PI	519	<.041	<.020				<.006		<.005	<.005
PI	520	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
				W.	AYNE COUN	TY PA				
WN	209	E.005	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
				su	SSEX COUN	TY NJ				
370	0463	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	<.006 <.006	<.04 <.04	<.005 <.005	<.005 <.005
				BR	OOME COUN	TY NY				
вм	732	<.041	<.020	<.005	<.018	<.003	E.004	<.04	<.005	<.005
				DEL	AWARE COU	NTY NY				
_	F00	. 041								
D	502 503	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005
D	504 505	<.041	<.020	<.005	<.018	<.003	E.002	<.04	<.005	<.005
	***	<.041 <.041 <.041 <.041 <.041	<.020	<.005	<.018	<.003	E.003	<.04	<.005	<.005
	2000								4-	
D	506 507	<.041 <.041	<.020 <.020	<.005 <.005	<.018 <.018	<.003 <.003	E.004 <.006		<.005 <.005	<.005 <.005
				OR	ANGE COUN	TY NY				
0	2270	<.041				<.003			<.005	<.005
						==			12	
				SUL	LIVAN COU	NTY NY				
sv	536	<.041	<.020	<.005	<.018	<.003	<.006	<.04	<.005	<.005

E Estimated value.

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOC	AL ID	DIMETH- ENAMID OXA, WATER FLT, REC (UG/L) (62482)	ENAMID, ESA, WAT FLT (UG/L)	FLTRD 0.7 m GF, REC (UG/L)	FLUFEN- ACET, ESA,	FLUFE- NACET OXA WATER FLT, REC (UG/L)	IMAZ- AQUIN WATER FLTRD REC (UG/L)	LINDANE DIS- SOLVED (UG/L) (39341)	(UG/L)	MALA- THION, DIS- SOLVED (UG/L) (39532)
		(02402)	(01931)		NROE COUN	(62483) TY PA	(30330)	(33341)	(82000)	(33332)
мо	689	<.0500	<.05		<.05		<.016			
				P	IKE COUNT	Y PA				
PI	308	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
	480	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
									7.5	
PI	519	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
PI	520	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
				W	AYNE COUN	TY PA				
WN	209	<.0500	<.05	<.002	<.05	<.0500	<.002	<.004	<.035	<.027
				su	SSEX COUN	TY NJ				
370	463	<.0500 <.0500	<.05	<.002	<.05	<.0500 <.0500		<.004		<.027
		22						22		
				BR	OOME COUN	TY NY				
вм	732	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027
				DEL	AWARE COU	NTY NY				
	502	. 0500	4 0E	< 000	. 05	4 0500	. 016	< 004	<.035	<.027
D	503	4 0500	<.05 <.05		<.05 <.05		<.016 <.016			
D D	504 505	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035 <.035	<.027
-	303	<.0500	<.05	<.002	<.05	<.0500	E. 019	<.004	<.035 <.035 <.035 <.035	<.027
					2.2					(42)
D	506 507		<.05 <.05	<.002 <.002		<.0500		<.004 <.004	<.035 <.035	<.027 <.027
	307	1.0500	1.05	1.002	<.05	V.0500	1.016	1.004	1.033	1.027
				OF	LANGE COUN	TY NY				
0	2270				<.05				<.035	
										==
				SUL	LIVAN COU	NTY NY				
	1002	1,0,4833					1000	1.00	10.00	
sv	536	<.0500	<.05	<.002	<.05	<.0500	<.016	<.004	<.035	<.027

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOCAL ID	METHYL AZIN- PHOS WAT FLT 0.7 m GF, REC (UG/L) (82686)	CHLOR ESA FLTRD 0.7 mM GF REC (UG/L)	METOLA- CHLOR OA FLTRD 0.7 mM GF REC (UG/L) (61044)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	WATER	MOL- INATE WATER FLTRD 0.7 m GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 m GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 m GF, REC (UG/L) (82683)
			мо	NROE COUN	TY PA				
MO 689	17	<.05	<.05	1740					
			P	PIKE COUNT	Y PA				
PI 308	<.050	<.05		<.013	<.006	<.002	<.007	<.003	<.010
PI 480	<.050 	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
PI 519	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
PI 520	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
			W	AYNE COUN	TY PA				
WN 209	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
			su	SSEX COUN	TY NJ				
370463	<.050	.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010
			BR	OOME COUN	TY NY				
BM 732	<.050	.17	<.05	<.013	<.006	<.002	<.007	<.003	<.010
			DEL	AWARE COU	NTY NY				
D 502	<.050	1.27	<.05	<.013	<.006	<.002	<.007	<.003	<.010
D 503 D 504	<.050 <.050	.67	<.05 <.05	<.013 <.013	<.006	<.002	<.007	<.003	<.010 <.010
D 505	<.050 <.050	<.05	<.05	<.013 <.013	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010
4	75.			77.	77.	750	772	75.	77.
D 506 D 507	<.050 <.050	<.05 <.05	<.05 <.05	<.013 <.013	<.006 <.006	<.002 <.002	<.007 <.007	<.003 <.003	<.010 <.010
			OR	ANGE COUN	TY NY				
0 2270	<.050	<.05		<.013				<.003	<.010
	===	11	==		===				77
			SUL	LIVAN COU	NTY NY				
sv 536	<.050	<.05	<.05	<.013	<.006	<.002	<.007	<.003	<.010

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

			mnn		m	mn -			
LOCAL ID	METON, WATER, DISS, REC (UG/L)	MAZINE, WATER, DISS, REC (UG/L)	WATER FLTRD 0.7 m GF, REC (UG/L)	BACIL WATER FLTRD 0.7 m GF, REC (UG/L)	THIO- BENCARB WATER FLTRD 0.7 m GF, REC (UG/L) (82681)	FLUR- ALIN WAT FLT 0.7 m GF, REC (UG/L)	TRI- CHLORO- ETHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	(UG/L)
	(04037)	(04033)		NROE COUN		(02001)	(34300)	(34430)	(34301)
MO 689	19-		<.006				<.03	<.04	<.04
			P	IKE COUNT	Y PA				
PI 308 PI 480	<.015 <.015	<.011 <.011	<.016 <.016	<.034	<.005 <.005	<.009 <.009	<.03	<.04	<.04
		51							
PI 519	<.015	<.011	<.016	<.034	<.005	<.009	E.03	<.04	<.04
PI 520	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
			W	AYNE COUN	TY PA				
WN 209	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
			su	SSEX COUN	TY NJ				
370463	<.015	<.011	<.016	<.034	<.005 <.005	<.009	<.03	<.04	<.04
	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	
			BR	OOME COUN	TY NY				
BM 732	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
			DEL	AWARE COU	NTY NY				
D 502	< 015	< 011	< 016	< 034	< 0.05	< 009	< 03	< 04	< .04
D 503	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 504 D 505	<.015	<.011	<.016	<.034	<.005 <.005 <.005 <.005 <.005	<.009	<.03	<.04	<.04
D 506	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
D 507	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04
			OR	ANGE COUN	TY NY				
0 2270	<.015				<.005			<.04	
			SUL	LIVAN COU	NTY NY				
sv 536	<.015	<.011	<.016	<.034	<.005	<.009	<.03	<.04	<.04

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOCAL ID	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2,4- TRI- CHLORO- WAT UNF REC (UG/L)	124-TRI	135-TRI METHYL WATER UNFLTRD REC (UG/L)	CHLORO- WATER UNFLTRD REC (UG/L)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE WATER WHOLE REC (UG/L)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
			MO	NROE COUN	TY PA				
MO 689	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			P	IKE COUNT	Y PA				
PI 308	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PI 480	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PI 519	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
PI 520	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			W	AYNE COUN	TY PA				
WN 209	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			su	SSEX COUN	TY NJ				
370463	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			BR	OOME COUN	TY NY				
BM 732	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			DEL	AWARE COU	NTY NY				
D 502	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
D 503 D 504	<7 <7	<.3 <.3	<.2 <.2	<.06 <.06	<.04	<.03		<.03 <.03	<.03 <.03
D 505	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
						75.7			7.0
D 506	<7 <7	<.3	<.2 <.2	<.06 <.06	<.04 <.04	<.03	<.05	<.03	<.03
D 507	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03
			OR	ANGE COUN	TY NY				
0 2270	<7	<.3				<.03	<.05	<.03	<.03
							==		
			SUL	LIVAN COU	NTY NY				
SV 536	<7	<.3	<.2	<.06	<.04	<.03	<.05	<.03	<.03

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOCAL ID	BENZENE TOTAL (UG/L) (34030)	TOTAL	WHOLE	CHLORO- BENZENE TOTAL	METHANE TOTAL	CHLORO- FORM TOTAL	CHLORO- ETHENE WATER TOTAL	BROMO- DI- CHLORO-	DI- FLUORO- METHANE TOTAL
			MO	NROE COUN	TY PA				
MO 689	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
			P	IKE COUNT	Y PA				
PI 308	<.04	<.06	< .07	<.03	<.2	<.02	<.04	<.05	<.3
PI 480	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
				22	==		==		
PI 519	<.04	<.06	<.07	<.03	<.2	E.04	<.04	<.05	<.3
PI 520	<.04	<.06	<.07	<.03	<.2	E.08	<.04	<.05	<.3
			W	AYNE COUN	TY PA				
WN 209	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
			su	SSEX COUN	TY NJ				
370463	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
7.17.7	<.04	<.06	<.07	<.03	<.2	<.02		<.05	<.3
	1.04	2.06	2.07	<.03	<.2	<.02	<.04	<.03	
			BR	OOME COUN	TY NY				
BM 732	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
			DEI	LAWARE COU	INTY NY				
D 502	<.04	<.06	<.07	<.03	<.2 <.2 <.2 <.2	<.02	<.04	<.05	<.3
D 503 D 504	<.04	<.06 <.06	<.07 <.07	<.03	<.2	<.02	<.04	< . 05	E.6
D 505	<.04	<.06	<.07	<.03	<.2	E.03	<.04	<.05	<.3
				1.75					
D 506	<.04	<.06 <.06	<.07	<.03	<.2 <.2	E.04	<.04 <.04	<.05	
D 507	<.04	<.06	<.07	<.03	<.2			<.05	
			OR	ANGE COUN	TY NY				
0 2270	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3
45 (423/2)									
			32.3	2210000000					
			SUL	LIVAN COU	NTY NY				
sv 536	<.04	<.06	<.07	<.03	<.2	<.02	<.04	<.05	<.3

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOCAL ID	RECOVER (UG/L)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L)	REC (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)		META/ PARA- XYLENE WATER UNFLTRD REC (UG/L)
	(013707	(30003)		NROE COUN		(70032)	(54410)	(54425)	(03/33/
MO 689	<.2	<.1			<2	. 2	<.2	<.2	<.06
		,,,	1.05	1.00					.,,,
			P	IKE COUNT	Y PA				
PI 308	<.2	<.1	<.03	. 05	-2	<.2	<.2	<.2	<.06
PI 480	<.2	<.1	<.03	<.06	<2 <2	<.2	<.2	<.2	<.06
				==					
PI 519	<.2	<.1	<.03	<.06	<2	.7	<.2	<.2	<.06
PI 520	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
			W	AYNE COUN	TY PA				
WN 209	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
			su	SSEX COUN	TY NJ				
200162									2.50
370463	<.2 	<.1		<.06	<2	<.2	<.2	<.2	<.06
	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
			BR	OOME COUN	TY NY				
BM 732	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
			DEI	LAWARE COU	NTY NY				
D 502	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06
D 503 D 504	<.2	<.1	<.03	<.06 <.06 <.06	<2	<.2	<.2 <.2 <.2	<.2	<.06
D 505	<.2 <.2		<.03 <.03	<.06	<2 <2	<.2	<.2		<.06 <.06
D 506	<.2	<.1	<.03	<.06		<.2	<.2	<.2	<.06
D 507	<.2 <.2	<.1 <.1	<.03 <.03	<.06 <.06	<2 <2	<.2 <.2	<.2 <.2	<.2 <.2	
			OR	ANGE COUN	TY NY				
0 2270	<.2	<.1		<.06	<2	E.1		<.2	<.06
		77	===	==		==			==
			SUL	LIVAN COU	NTY NY				
sv 536	<.2	<.1	<.03	<.06	<2	<.2	<.2	<.2	<.06

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

DELAWARE RIVER BASIN NATIONAL WATER-QUALITY ASSESSMENT PROGRAM, GROUND WATER IN THE GLACIOFLUVIAL DEPOSITS WITHIN THE NEW ENGLAND, VALLEY AND RIDGE, AND APPALACHIAN PLATEAU PHYSIOGRAPHIC PROVINCES, -- Continued

LOC	CAL ID	TOLUENE WATER WHOLE TOTAL (UG/L)	WHOLE TOTAL (UG/L)	TOLUENE WATER	PATE	TOI HENE	ENTE	CHLORO- FLUORO-	RADON 222 TOTAL (PCI/L)	GOLVED
				мо	NROE COU	NTY PA				
МО	689	<.03	<.04	<.07	<.1	<.05	<.04	<.09	373	.51
				F	PIKE COUNT	TY PA				
	308	<.03	<.04	<.07	<.1	<.05	<.04	<.09 <.09	823	<.02
PI	480	<.03	<.04	<.07	<.1	<.05	<.04	<.09	497 479	.15
PI	519	<.03	<.04	<.07	<.1	<.05	<.04	<.09	932	.16 <.02
PI	520	<.03		<.07					860	
				N	WAYNE COUR	NTY PA				
No.	0.00						an alla	14.65	100	14.2
WN	209	<.03	<.04	<.07	<.1	.17	<.04	<.09	828	.59
				su	JSSEX COU	NTY NY				
370	0463	<.03	<.04	100				<.09		.86
		<.03	<.04	<.07	<.1	<.05	<.04	<.09		2-
				В	ROOME COU	NTY NY				
вм	732	<.03	<.04	<.07	<.1	<.05	<.04	<.09	1640	<.02
				DEI	LAWARE COL	JNTY NY				
D	502	. 03	<.04	- 07	. 1	4 0E	- 04	. 00	1200	<.02
D	503	<.03	<.04	<.07	<.1	<.05	<.04	<.09	719	<.02
D	504 505	<.03 <.03	<.04	<.07 <.07 <.07 <.07	<.1	<.05 <.05	<.04	<.09	1520	.06
D	506	<.03	< . 04	<.07 <.07 <.07	<.1	<.05	< . 04	<.09 <.09 <.09	1090	<.02
D		<.03	<.04	<.07 <.07	<.1	<.05	<.04	<.09	1120	<.02
				OF	RANGE COU	NTY NY				
0	2270	<.03	<.04	<.07		100 -	<.04		576	E.02
					==		11		546	E. 02
				sui	LLIVAN CO	JNTY NY				
sv	536	<.03	<.04	<.07	<.1	<.05	<.04	<.09	2280	.24

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

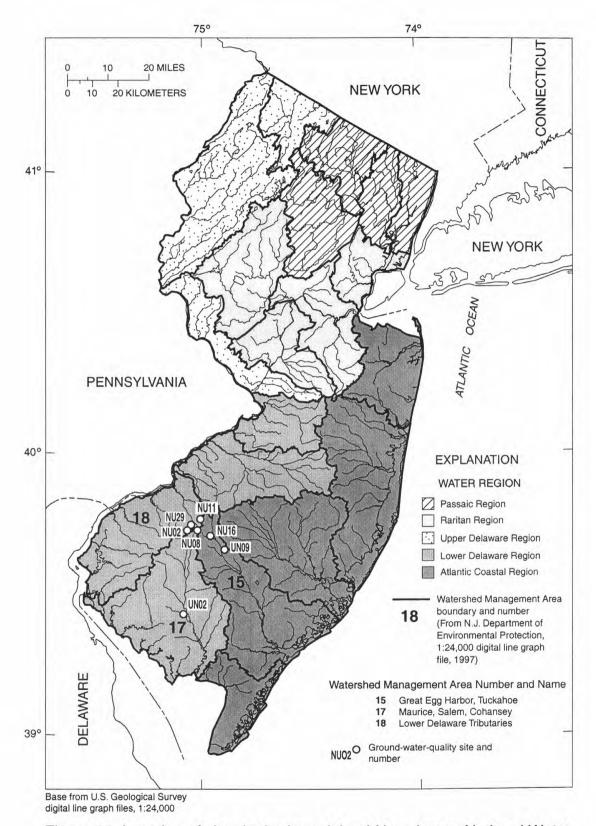


Figure 64. Location of sites in the Long Island-New Jersey National Water-Quality Assessment Program, ground-water low-intensity-phase synoptic study, calendar years 1999-2001.

LINJ NAWQA GROUND-WATER-QUALITY NETWORK

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE	LONGITUDE	ALTITUDE OF LAND SURFACE (FT.)	WELL DEPTH	SCREEN INTERVAL (FT.)	AQUIFER UNIT
392558075051901	110925	USGS UND02	392558	0750519	55	26	24 - 26	121CKKD
393940074534201	070842	USGS UND09	393940	0745342	100	14	12 - 14	121CKKD
394233074574401	070843	USGS NU16	394233	0745744	125	22	20 - 22	121CKKD
394340075012701	151220	USGS NU08	394340	0750127	155	30	28 - 30	121CKKD
394342075040301	151210	USGS NU02	394342	0750403	150	19	17 - 19	121CKKD
394446075031001	151258	USGS NU29	394446	0750310	120	19	17 - 19	121CKKD
394604075003601	070836	USGS NU11	394604	0750036	165	37	35 - 37	121CKKD

Aquifer unit: 121CKKD - Kirkwood-Cohansey

REMARKS.--Samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020 and pesticides with schedule 2021 (listed in their entirety, with laboratory reporting levels, in "Explanation of the Records" in the "Introduction"). Only VOCs and pesticides identified by the analyses in one or more samples are listed in the following table. For the definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Explanation of the records, Quality-control data" in the "Introduction".

	LOCAL IDENT- I- FIER	STATION NUMBER	DATE	TIME	SAMPLE TYPE	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)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
USGS UNDO	2	392558075051901	08-25-00	0800	ENVIRONMENTAL	.67	.500	.40	1.8	<.01
			08-25-00	0805	FIELD BLANK					
			08-25-01	0805	FIELD BLANK	<.02	<.014	<.24	<.1	<.01
			08-28-01	1500	ENVIRONMENTAL	.74	.530	.37	1.7	.02
USGS UNDOS	9	393940074534201	08-12-99	1000	ENVIRONMENTAL					<.01
			08-28-01	0905	FIELD BLANK	<.01	<.008	<.09	<.1	<.01
			08-28-01	1000	ENVIRONMENTAL	. 27	.246	.22	1.5	<.01
USGS NU16		394233074574401	08-12-99	1300	ENVIRONMENTAL					.01
			08-24-00	1100	ENVIRONMENTAL	16.1	5.95	2.82	14.6	.02
			08-24-01	0900	ENVIRONMENTAL	17.4	6.56	2.81	17.4	<.01
USGS NU08		394340075012701	08-12-99	0800	ENVIRONMENTAL					.02
			08-24-00	1600	ENVIRONMENTAL	.21	1.50	.75	8.5	.02
			08-23-01	1600	ENVIRONMENTAL	.15	1.17	. 63	8.3	.01
USGS NU02		394342075040301	11-07-00	1100	ENVIRONMENTAL	5.48	1.62	2.76	14.3	.01
			08-23-01	1330	ENVIRONMENTAL	5.63	1.72	2.64	13.1	<.01
USGS NU29		394446075031001	08-24-00	1800	ENVIRONMENTAL	8.98	2.20	2.51	25.7	.06
			08-23-01	0900	ENVIRONMENTAL	14.6	3.50	3.16	40.5	.01
USGS NU11		394604075003601	08-12-99	1500	ENVIRONMENTAL					.01
			08-24-00	1400	ENVIRONMENTAL	6.58	1.97	3.76	7.5	.04
			08-24-01	1300	ENVIRONMENTAL	7.03	1.72	3.00	7.8	.01

		LOCAL IDENT- I- FIER	DATE	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	MITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)
USGS	UND02		08-25-00	3.5	<.1	4.9	10.8	33	.072	.11	<.050	<.010	
			08-25-00										
			08-25-01	<.3	<.1	<.1	<.3	<10	<.020	<.10	<.050	<.010	
			08-28-01	3.4	<.2	5.1	11.6	34	.059	.12	<.050	<.006	
USGS	UND09		08-12-99	2.4	<.1		11.2	24	<.020	<.10	<.050	<.010	22
			08-28-01	<.1	<.2	<.1	<.1	18	<.040	<.10	<.050	<.006	
			08-28-01	3.8	<.2	4.2	13.6	42	<.040	<.10	E.023	<.006	
USGS	NU16		08-12-99	35.4	<.1		20.7	140	<.020	<.10	2.17	<.010	
			08-24-00	43.7	<.1	2.7	16.9	153	<.020	<.10	2.41	<.010	
			08-24-01	52.7	<.2	2.5	18.2	150	E.021	.11	2.01	<.006	2.1
USGS	NU08		08-12-99	16.9	<.1		<.1	40	<.020	<.10	.843	<.010	
			08-24-00	15.1	<.1	6.2	<.3	35	<.020	<.10	1.18	<.010	
			08-23-01	13.5	<.2	6.1	<.1	54	<.040	<.10	1.23	<.006	
USGS	NU02		11-07-00	15.0	<.2	4.4	21.4	78	<.041	<.10	2.89	<.006	
			08-23-01	16.6	<.2	3.9	19.6	94	<.040	E.08	2.80	<.006	
USGS	NU29		08-24-00	43.8	<.1	2.4	6.5	126	.239	.46	<.050	<.010	-22
			08-23-01	84.4	<.2	2.6	8.1	196	.178	.35	.102	<.006	.45
USGS	NU11		08-12-99	15.9	<.1		9.7	71	<.020	<.10	2.66	<.010	
			08-24-00	14.8	<.1	4.9	10.6	70	<.020	<.10	2.96	<.010	
			08-24-01	12.7	<.2	5.2	18.6	60	E.026	.15	2.53	<.006	2.7

E Estimated value.

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

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	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)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)
USG	S UND02		08-25-00	.035	.033	2.2	7700	44.5	<.03	<.07	<.04	<7	<.3
			08-25-00						<.03	<.07	<.04	<7	<.3
			08-25-01	<.006	<.010	.47	<10	<2.2			77.		
			08-28-01	.034	E.035	2.0	7700	51.5	<.03	<.04	<.04	<7	<.3
USG	S UNDO9		08-12-99	<.004	<.010				<.03	<.07	<.04	<5	<.3
			08-28-01	<.006	<.020	.58	<10	<3.0	<.03	<.04	<.04	<7	<.3
			08-28-01	<.006	<.020	.98	10	15.2	<.03	<.04	<.04	<7	<.3
USG	S NU16		08-12-99	<.004	<.010				E.02	<.07	<.04	<5	<.3
			08-24-00	<.006	<.010	.86	<10	40.2	E.01	<.07	<.04	<7	<.3
			08-24-01	<.006	<.020	. 67	М	29.1	<.03	<.04	<.04	<7	<.3
USG	SOUN 2		08-12-99	<.004	<.010				E.01	<.07	<.04	<5	<.3
			08-24-00	<.006	<.010	.53	<10	2.7	<.03	<.07	<.04	<7	<.3
			08-23-01	<.006	<.020	.40	20	E1.6	<.03	<.04	<.04	<7	<.3
USG	S NUO2		11-07-00	<.006	<.018	.66	<10	15.8	E.01	<.04	<.04	<7	<.3
			08-23-01	<.006	<.020	.61	M	17.4	<.03	<.04	<.04	<7	<.3
TISC	S NU29		08-24-00	.009	<.010		3010	43.3	<.03	<.07	<.04	<7	<.3
050	1025		08-23-01	E.006	<.020	3.7	2440	52.7	<.03	<.04	<.04	<7	<.3
TIEC	S NU11		08-12-99	<.004	<.010		2.		<.03	<.07	<.04	<5	<.3
ODG	S NOIL		08-24-00	<.006	<.010	.63	<10	7.7	<.03	<.07	<.04	<7	<.3
			08-24-01	<.006	<.020	.52	200	21.8	<.03	<.04	E.04	<7	<.3
		LOCAL IDENT- I- FIER	DATE	BENZENE 1,2,4- TRI- CHLORO- 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-DI- CHLORO- WATER UNFLITED 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 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)
USG	S UNDO2		08-25-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
			08-25-00	<.2	<.06	<.04	<.05	<.05	<.03	<.05	<.04	<.06	<.07
			08-25-01			77.	3-5						
			08-28-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USG	S UNDO9		08-12-99	<.2	<.06						<.10	<.10	<.37
						<.04	<.05	<.05	<.03	<.05			
			08-28-01	<.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04	<.06	<.07
USG	S NU16		08-28-01 08-28-01 08-12-99	<.2 <.2 <.2	<.06	<.04	<.03	<.05	<.03	<.03	<.04 <.04 <.10	<.06	<.07 <.07 <.37
USG	S NU16		08-28-01 08-28-01 08-12-99 08-24-00	<.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05	<.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05	<.04 <.04 <.10 <.04	<.06 <.06 <.10 <.06	<.07 <.07 <.37 <.07
USG	S NU16		08-28-01 08-28-01 08-12-99	<.2 <.2 <.2	<.06 <.06	<.04 <.04 <.04	<.03 <.03 <.05	<.05 <.05	<.03 <.03 <.03	<.03 <.03 <.05	<.04 <.04 <.10	<.06 <.06 <.10	<.07 <.07 <.37
	S NU16		08-28-01 08-28-01 08-12-99 08-24-00	<.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05	<.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05	<.04 <.04 <.10 <.04	<.06 <.06 <.10 <.06	<.07 <.07 <.37 <.07 <.07
			08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.05 <.05 <.05	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.05 <.05 <.05	<.04 <.04 <.10 <.04 <.04 <.04 <.10 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06	<.07 <.07 <.37 <.07 <.07 <.07 <.07
			08-28-01 08-28-01 08-12-99 08-24-00 08-24-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.05 <.05	<.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.03 <.05	<.04 <.04 <.10 <.04 <.04	<.06 <.06 <.10 <.06 <.06	<.07 <.07 <.37 <.07 <.07
USG			08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.05 <.05 <.05	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.05 <.05 <.05	<.04 <.04 <.10 <.04 <.04 <.04 <.10 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06	<.07 <.07 <.37 <.07 <.07 <.07 <.07
USG	S NUO8		08-28-01 08-28-01 08-12-99 08-24-00 08-12-99 08-24-00 08-23-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.03 <.05 <.03	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.03 <.05 <.03	<.04 <.04 <.10 <.04 <.04 <.04 <.10 <.04 <.10	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.10 <.06 <.06	<.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07
USG	S NU08		08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 08-12-99 08-23-01 11-07-00 08-23-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.03 <.05 <.03 <.05 <.05 <.03 <.05	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.03 <.05 <.03 <.05 <.05 <.03 <.05	<.04 <.04 <.10 <.04 <.04 <.10 <.04 <.04 <.04 <.04 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.07 <.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07 <.07
USG	S NUO8		08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.05 <.05 <.05 <.03 <.05 <.03 <.05 <.05 <.05 <.05 <.05 <.05 <.03	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.05 <.05 <.03 <.05 <.03	<.04 <.04 <.10 <.04 <.04 <.10 <.04 <.04 <.10 <.04 <.04 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07
USG	S NU08 S NU02 S NU29		08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-23-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.03 <.03 <.03	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.03 <.03 <.03	<.04 <.04 <.10 <.04 <.04 <.04 <.10 <.04 <.04 <.04 <.04 <.04 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	<.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07 <.07 <.07
USG	S NU08		08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-23-01 08-23-01 08-23-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.05 <.03 <.03 <.03 <.03 <.05 <.03 <.05 <.03	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.05 <.03 <.05 <.03 <.03 <.03 <.03 <.03 <.03 <.05 <.03	<.04 <.04 <.10 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.0	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	<.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07 <.07 <.07 <.0
USG	S NU08 S NU02 S NU29		08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-23-01	<.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	<.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	<.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	<.03 <.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.03 <.03 <.03	<.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05	<.03 <.03 <.03 <.03 <.03 <.03 <.03 <.03	<.03 <.03 <.05 <.05 <.05 <.05 <.03 <.05 <.03 <.03 <.03 <.03	<.04 <.04 <.10 <.04 <.04 <.04 <.10 <.04 <.04 <.04 <.04 <.04 <.04	<.06 <.06 <.10 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	<.07 <.07 <.37 <.07 <.07 <.07 <.07 <.07 <.07 <.07 <.0

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

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL			CHLORO-		CIS-1,2 -DI- CHLORO-	BROMO- DI-	DI- CHLORO- DI-	ETHER ETHYL	ETHER TERT- PENTYL		FREON-
	1	IDENT- I- FIER	DATE	CHLORO- BENZENE TOTAL (UG/L) (34301)	BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	ETHENE WATER TOTAL (UG/L) (77093)	CHLORO- METHANE TOTAL (UG/L) (32101)	FLUORO- METHANE TOTAL (UG/L) (34668)	WATER UNFLTRD RECOVER (UG/L) (81576)	METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	WATER UNFLTRD REC (UG/L) (77652)
USGS U	ND02		08-25-00	<.03	<.2	<.05	<.04	<.05	<.3	<.2	<.1	<.03	<.06
			08-25-00	<.03	<.2	<.05	<.04	<.05	<.3	<.2	<.1	<.03	<.06
			08-25-01										
			08-28-01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS UI	ND09		08-12-99	<.03	<.2	E.02	<.04	<.05	<.1	<.2	<.1	<.03	<.03
			08-28-01	<.03	<.2	<.02	<.04	<.05	<.3	<.2	<.1	<.03	<.06
			08-28-01	<.03	<.2	E.04	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS N	U16		08-12-99	<.03	<.2	9.12	<.04	<.05	<.1	<.2	<.1	<.03	<.03
			08-24-00	<.03	<.2	4.51	<.04	<.05	<.3	<.2	<.1	<.03	<.06
			08-24-01	<.03	<.2	3.06	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS N	8017		08-12-99	<.03	<.2	1.88	<.04	<.05	<.1	<.2	<.1	<.03	<.03
7777			08-24-00	<.03	<.2	.64	<.04	<.05	<.3	<.2	<.1	<.03	<.06
			08-23-01	<.03	<.2	.51	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS N	1102		11-07-00	<.03	<.2	.18	<.04	<.05	<.3	<.2	<.1	<.03	<.06
0000 110			08-23-01	<.03	<.2	.16	<.04	<.05	<.3	<.2	<.1	<.03	<.06
USGS NO	7720		08-24-00	. 03		. 05	. 04	. 05				. 03	<.06
USGS NO	029		08-24-00	<.03 <.03	<.2	<.05 <.02	<.04	<.05 <.05	<.3 <.3	<.2	<.1 <.1	<.03	<.06
	22.5												
USGS N	U11		08-12-99	<.03	<.2	.90	<.04	<.05	<.1	<.2	<.1	<.03	<.03
			08-24-00 08-24-01	<.03 <.03	<.2	.73 4.80	<.04 E.01	<.05 <.05	<.3 <.3	<.2 <.2	<.1 <.1	<.03	<.06
				11.00		1.00	2.02	1.05	1.5				
	,	LOCAL IDENT- I- FIER	DATE	FURAN, TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL ENE CHLO- RIDE TOTAL (UG/L)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L)	O- XYLENE WATER WHOLE TOTAL (UG/L)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)
		I-		TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	CHLO- RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423)	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	WATER WHOLE TOTAL (UG/L) (77135)	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOTAL (UG/L) (34010)
usgs un		I-	08-25-00	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	CHLO- RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423)	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	XYLENE WATER WHOLE TOTAL (UG/L) (77135)	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOTAL (UG/L) (34010) <.05
usgs u		I-	08-25-00 08-25-00	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2	CHLO- RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795) <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.04	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05
usgs un		I-	08-25-00	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	CHLO- RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423)	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	XYLENE WATER WHOLE TOTAL (UG/L) (77135)	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOTAL (UG/L) (34010) <.05
	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01	TETRA- HYDRO- WATER UNFLITED RECOVER (UG/L) (81607) <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2	PARA- XYLENE WATER UNFLIRD REC (UG/L) (85795) <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05
usgs un	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99	TETRA- HYDRO- WINFLIRD RECOVER (UG/L) (81607) <2 <2 <2 <2 <9	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2	CHLO- RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.2	PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06	CHLORO- TOLUEME WATER WHOLE TOTAL (UG/L) (7775) <.04 <.03 <.04	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07	CHLORO-ETHYL-ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05
	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01	TETRA- HYDRO- WATER UNFLITED RECOVER (UG/L) (81607) <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418)	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2	PARA- XYLENE WATER UNFLIRD REC (UG/L) (85795) <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05
usgs un	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-28-01	TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 <2 <9 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	CHLO- RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.4 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 .06 .06 .06 .06 .06	CHLORO- TOLUEME WATER WHOLE TOTAL (UG/L) (77/275) <.04 <.03 <.0403 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.04	PROPYL- TOLUENEE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.11 <.07 <.07	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01	TETRA- HYDRO- WATER UNFLITRD RECOVER (UG/L) (81607) <2 <2 <2 <9 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.2 <.2 <.2 <.2 <.4	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO-TOLUEME WATER WHOLE TOTAL (UG/L) (77275) <.04 <.04 <.03 <.03 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
usgs un	ND02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99	TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 <2 <9 <2 <2 <9	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	CHLO- RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.4 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 .06 .06 .06 .06 .06	CHLORO- TOLUEME WATER WHOLE TOTAL (UG/L) (77/275) <.04 <.03 <.0403 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.04	PROPYL- TOLUENEE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.11 <.07 <.07	CHLORO- ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
usgs un	ND02 ND09 U16	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 <2 <2 <9 <2 <2 <9 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.2 <.2 <.2 <.2 <.4 <.2 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUEME WATER WHOLE TOTAL (UG/L) (77/75) <.04 <.03 <.03 <.03 <.04 <.03 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENEE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.07 <.11 <.07 <.07 <.07	CHLORO-ETHYL-ENE TOTAL (UG/L) (34475) <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
usgs un	ND02 ND09 U16	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-12-99	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 < <2 <9 <2 <2 <9 <2 <2 <9 <2 <9 <2 <9 <2 <9 <9 <2 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.2 <.4 <.2 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.03 <.04 <.03 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
usgs un	ND02 ND09 U16	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 <2 <2 <9 <2 <2 <9 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.2 <.2 <.2 <.2 <.4 <.2 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUEME WATER WHOLE TOTAL (UG/L) (77/75) <.04 <.03 <.03 <.03 <.04 <.03 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENEE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.07 <.11 <.07 <.07 <.07	CHLORO-ETHYL-ENE TOTAL (UG/L) (34475) <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
USGS NU	ND02 ND09 U16 U08	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < <2 < < <2 < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.2 <.4 <.2 <.2 <.4 <.4 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
usgs un	ND02 ND09 U16 U08	I-	08-25-00 08-25-01 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-01 08-12-99 08-24-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <2 <2 <9 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.5 <.2 <.5 <.2 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.4 <.2 <.2 <.4 <.2 <.2 <.4 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.04	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
USGS NUUSGS NUUSGS NU	ND02 ND09 U16 U08	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 < <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <2 <9 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.2 <.4 <.4 <.2 <.2 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.03 <.03 <.03 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.0
USGS NU	ND02 ND09 U16 U08	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 08-12-99 08-24-01 08-12-99 08-24-01 08-23-01 11-07-00 08-23-01 08-24-00	TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607) <2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.5 <.2 <.5 <.2 <.5 <.2 <.5 <.2 <.5 <.2 <.5 <.2 <.5 <.5 <.2 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5 <.5	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.4 <.2 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.04 <.03 <.04 <.04 <.04 <.03 <.04 <.04 <.04 <.04 <.03 <.04 <.04 <.04 <.04 <.03 <.04 <.04 <.04 <.04 <.04 <.03 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07 <.11 <.07 <.07 <.07 <.07 <.07 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.05
USGS NUUSGS NUUSGS NU	ND02 ND09 U16 U08	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 < <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <9 <2 <2 <2 <9 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.2 <.4 <.4 <.2 <.2 <.2 <.2	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.04 <.04 <.03 <.04 <.04 <.03 <.03 <.03 <.03 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.0
USGS NUUSGS NUUSGS NU	ND02 ND09 U16 U08 U02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 08-12-99 08-23-01 11-07-00 08-23-01 08-23-01 08-23-01 08-23-01	TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607) <2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <-2 <	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.	CHLO-RIDE TOTAL (UG/L) (34418) <.5 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.5 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.5 <.2 <.2 <.2 <.5 <.2 <.2 <.2 <.5 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.2 <.4 <.4 <.2 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.0	CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.04 <.04 <.04 <.04 <.04 <.04 <.04	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.11 <.07 <.07 <.07 <.07 <.07 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.0
USGS NUUSGS NUUSGS NUUSGS NUUSGS NU	ND02 ND09 U16 U08 U02	I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-24-00 08-23-01	TETRA- HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607) <2 <2 < <2 <9 <2 <2 <2 <9 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032) <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2 <.2	CHLO-RIDE TOTAL (UG/L) (34418) <.5	ENE CHLO- RIDE TOTAL (UG/L) (34423) <.4 <.4 <.2 <.2 <.4 <.4 <.2 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.2 <.4 <.4 <.4 <.2 <.4 <.4 <.4 <.2 <.4 <.4 <.4 <.2 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4 <.4	PARA- XYLENE WATER WATER UNFLTRD REC (UG/L) (85795) <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275) <.04 <.03 <.04 <.03 <.04 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.04 <.03 <.03 <.04 <.03 <.03 <.04 <.04 <.03	XYLENE WATER WHOLE TOTAL (UG/L) (77135) <.04 <.04 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.04 <.06 <.06 <.06 <.06 <.06 <.06 <.06 <.06	PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356) <.07 <.07 <.07 <.11 <.07 <.07 <.07 <.11 <.07 <.07 <.07 <.07 <.07 <.07 <.07	CHLORO-ETHYL- ENE TOTAL (UG/L) (34475) <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.	TOTAL (UG/L) (34010) <.05 <.05 <.05 <.05 <.05 <.05 <.05 <.0

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

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

		LOCAL IDENT- I- FIER	DATE	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	ACETO- CHLOR, WATER FLITED REC (UG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CAR- BARYL WATER FLITED 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLITRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
USGS	UND02		08-25-00	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-25-00	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-25-01		77.	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-28-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS	UND09		08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-28-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
			08-28-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	E.003
USGS	NU16		08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-24-00	<.04	<.09	<.002	<.002	<.002	E.002	<.002	<.003	<.003	<.004
			08-24-01	<.04	<.09	<.004	<.002	<.005	E.002	<.010	<.041	<.020	<.005
USGS	NU08		08-12-99	<.04	.27	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-24-00	<.04	.11	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-23-01	<.04	.12	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS	NU02		11-07-00	<.04	<.09	<.004	<.002	<.005	M	<.010	< .041	<.020	<.005
			08-23-01	<.04	<.09	<.004	<.002	<.005	.008	<.010	<.041	<.020	<.005
USGS	NU29		08-24-00	<.04	<.09	<.002	<.002	<.002	.009	<.002	<.003	<.003	<.004
			08-23-01	<.04	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
USGS	NU11		08-12-99	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-24-00	<.04	<.09	<.002	<.002	<.002	<.001	<.002	<.003	<.003	<.004
			08-24-01	E.05	<.09	<.004	<.002	<.005	<.007	<.010	<.041	<.020	<.005
		LOCAL IDENT- I- FIER	DATE	CYANA- ZINE, WATER, DISS, REC (UG/L)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L)	DI- AZINON, DIS- SOLVED	DI- ELDRIN DIS- SOLVED	EPTC WATER FLTRD 0.7 U GF, REC	LINDANE DIS- SOLVED	LIN- URON WATER FLTRD 0.7 U GF, REC	MALA- THION, DIS- SOLVED	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC
		IDENT- I-	DATE	ZINE, WATER, DISS,	WATER FLTRD 0.7 U	ATRA- ZINE, WATER, DISS,	AZINON, DIS-	ELDRIN DIS-	WATER FLTRD 0.7 U	DIS-	URON WATER FLTRD 0.7 U	THION, DIS-	AZIN- PHOS WAT FLT 0.7 U
USGS	UNID02	IDENT- I-	08-25-00	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682) <.002	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002	AZINON, DIS- SOLVED (UG/L) (39572)	DIS- SOLVED (UG/L) (39381)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668) <.002	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002	THION, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
USGS	UND02	IDENT- I-	08-25-00 08-25-00	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004	WATER FLTRD 0.7 U GF, REC (UG/L) (82682) <.002 <.002	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001	WATER FLTRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001
USGS	UND02	IDENT- I-	08-25-00	ZINE, WATER, DISS, REC (UG/L) (04041)	WATER FLTRD 0.7 U GF, REC (UG/L) (82682) <.002	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002	AZINON, DIS- SOLVED (UG/L) (39572)	DIS- SOLVED (UG/L) (39381)	WATER FLTRD 0.7 U GF, REC (UG/L) (82668) <.002	DIS- SOLVED (UG/L) (39341)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002	THION, DIS- SOLVED (UG/L) (39532)	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
		IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.004 <.004	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.002 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.001
	UND02	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.035 <.002	THION, DIS-SOLVED (UG/L) (39532) <.005 <.005 <.007 <.007	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.001
		IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.004 <.004	WATER FLITRD 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.002 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.001
	UND09	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-28-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.004 <.018 <.018 E.012	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.035 <.002 <.035 <.0035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) < .001 < .001 < .001 < .050 < .001 < .050
USGS	UND09	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.005 <.001 <.005 <.005 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.035 <.002 <.035 <.003 <.002	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.005 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.001 <.050 <.050
USGS	UND09	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.0018 <.004 <.018 E.012	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.003 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006 <.006 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.035 <.002 <.035 <.0035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) < .001 < .001 < .001 < .050 < .001 < .050
USGS	UND09 NU16	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 E.012 <.004 <.004 <.004	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.006 <.002 E.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005	WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.035 <.035 <.035 <.002 <.035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.001 <.050 <.050
usgs	UND09 NU16	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-00	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 E.012 <.004 <.004	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.003 <.003 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.002 <.006 <.006 <.006 <.002 E.002	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.005 <.005 <.0005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.005 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.0035 <.003 <.035 <.035 <.002 <.002 <.002 <.0035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.027 <.027 <.027 <.027 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) < .001 < .001 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050 < .050
usgs	UND09 NU16	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 E.012 <.004 <.008 <.004 <.008	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.003 <.003 <.002 <.003 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.002 <.006 <.002 <.006 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005 <.0005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.005 <.005 <.001 <.005 <.001 <.005	WATER FLITRD OF 10 GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.0035 <.003 <.003 <.003 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.027 <.027 <.027 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.001 <.050 <.050
USGS USGS USGS	UNDO9 NU16 NU08	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.004 <.018 <.004 <.018 <.004 <.018 <.004 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.006 <.002 e.002 <.006 <.006 =.001 <.002 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.002 <.005 <.005 <.002 <.005 <.002 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.001 <.005	WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.003 <.002 <.035 <.035 <.002 <.035 <.002 <.035 <.002 <.035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.007 <.027 <.005 <.027 <.027 <.005 <.027 <.005 <.027	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050
usgs	UNDO9 NU16 NU08	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 E.012 <.004 <.018 <.004 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) < .002 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .002 < .003 < .003 < .002 < .003 < .002 < .003 < .002 < .003 < .002 < .003 < .002 < .003 < .002 < .003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.002 <.006 <.006 <.002 E.001 <.002	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.002 <.005 <.002 <.005 <.002 <.005 <.002 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.005 <.005 <.001 <.005 <.001 <.001 <.005 <.001 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.002 <.035 <.002 <.035 <.002 <.035 <.002 <.003 <.002 <.003 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.005 <.005 <.005 <.005	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) < .001 < .001 < .001 < .050 < .001 < .050 < .001 < .050 < .001 < .050 < .001 < .050 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001 < .001
USGS USGS USGS	UND09 NU16 NU08	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.008 <.018 <.004 <.018 <.004 <.018 <.004 <.018 <.018 <.018 <.018 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.003 <.002 <.003 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000 <.000	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.002 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005	WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.002 <.035 <.002 <.035 <.002 <.035 <.002 <.035 <.0035 <.003 <.0035 <.0035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.007 <.027 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.0050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050
USGS USGS USGS	UND09 NU16 NU08	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-12-99 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 11-07-00	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 E.012 <.004 <.018 <.004 <.018 <.004 <.018 <.018 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) < .002 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.002 <.006 <.002 E.002 <.006 E.001 <.002 <.006 E.005 E.005	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.00000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.0000 <.000	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.001 <.005 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLIVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.0035 <.002 <.035 <.002 <.005 <.002 <.005 <.005 <.005 <.001 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.007 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.001 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050
USGS USGS USGS USGS	UNDO9 NU16 NU08 NU02 NU02	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-23-01 08-23-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.0018 <.004 <.018 E.012 <.004 <.0018 <.004 <.018 <.004 <.018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.018 <.018 <.018 <.018 <.018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </01</td <td>WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003</td> <td>ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.006</td> <td>AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.002 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005</td> <td>ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005</td> <td>WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002</td> <td>DIS- SOLVED (UG/L) (39341) <.004 <.004</td> <td>URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.002 <.035 <.002 <.035 <.002 <.035 <.002 <.035 <.0035 <.003 <.0035 <.0035</td> <td>THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.007 <.027 <.027 <.005 <.027</td> <td>AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.0050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050</td>	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 <.006	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.002 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005	WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.002 <.035 <.002 <.035 <.002 <.035 <.002 <.035 <.0035 <.003 <.0035 <.0035	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.007 <.027 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.0050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050
USGS USGS USGS	UNDO9 NU16 NU08 NU02 NU02	IDENT- I-	08-25-00 08-25-01 08-25-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-01 08-12-99 08-23-01 11-07-00 08-23-01 08-23-01 08-23-01 08-23-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.018 <.004 <.018 <.004 <.018 <.004 <.018 <.004 <.018 <.018 <.018 <.018 <.018	WATER FLITED 0.7 U GF, REC (UG/L) (82682) < .002 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 < .003 <	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.002 <.006 <.002 <.006 <.002 <.006 E.001 <.002 <.006 E.005 E.005 E.007 E.003	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.002 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.005 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.005 <.005 <.005 <.005 <.005 <.001 <.005	WATER FLITRD 0.7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.002 <.035 <.002 <.005 <.002 <.035 <.002 <.005 <.002 <.005 <.002 <.005 <.002 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.005 <.027 <.027 <.005 <.027 <.027 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.005 <.027 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.001 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050
USGS USGS USGS USGS	UNDO9 NU16 NU08 NU02 NU02	IDENT- I-	08-25-00 08-25-00 08-25-01 08-28-01 08-28-01 08-28-01 08-28-01 08-12-99 08-24-00 08-24-01 08-12-99 08-24-00 08-23-01 11-07-00 08-23-01 08-23-01 08-23-01	ZINE, WATER, DISS, REC (UG/L) (04041) <.004 <.004 <.0018 <.004 <.018 E.012 <.004 <.0018 <.004 <.018 <.004 <.018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.018 <.018 <.018 <.018 <.018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 <.0018 018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </018 </01</td <td>WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003</td> <td>ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.006 <.002 e.002 <.006 E.001 <.006 E.001 <.006 E.005 E.005</td> <td>AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005</td> <td>ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005</td> <td>WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002</td> <td>DIS- SOLVED (UG/L) (39341) <.004 <.004</td> <td>URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.0035 <.002 <.0035 <.005 <.002 <.005 <.005</td> <td>THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.027 <.027 <.027 <.005 <.027 <.027 <.005 <.027</td> <td>AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050</td>	WATER FLITED 0.7 U GF, REC (UG/L) (82682) <.002 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003 <.002 <.003	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) <.002 <.002 <.006 <.006 <.006 <.002 e.002 <.006 E.001 <.006 E.001 <.006 E.005 E.005	AZINON, DIS- SOLVED (UG/L) (39572) <.002 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	ELDRIN DIS- SOLVED (UG/L) (39381) <.001 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005 <.001 <.005	WATER FLITRD 7 U GF, REC (UG/L) (82668) <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002 <.002	DIS- SOLVED (UG/L) (39341) <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004 <.004	URON WATER FLITED 0.7 U GF, REC (UG/L) (82666) <.002 <.002 <.0035 <.0035 <.002 <.0035 <.005 <.002 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005 <.005	THION, DIS- SOLVED (UG/L) (39532) <.005 <.005 <.027 <.027 <.027 <.005 <.027 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027 <.005 <.027	AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) <.001 <.001 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050 <.050

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

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, CALENDAR YEARS 1999-2001

		LOCAL IDENT- I- FIER	DATE	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLIRD 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)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FL/TRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
USGS 1	UND02		08-25-00	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-25-00	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-25-01	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-28-01	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034
USGS 1	UND09		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-28-01	<.013	<.006	<.002	<.007	<.003	<.010	<.110	<.011	<.016	<.034
			08-28-01	E.005	<.006	<.002	<.007	<.003	<.010	E.007	<.011	<.016	<.034
USGS	NU16		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	.019	.006	<.010	<.007
			08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	.026	.009	<.010	<.007
			08-24-01	<.013	<.006	<.002	<.007	<.003	<.010	.024	E.005	<.016	<.034
USGS	NU08		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	<.018	<.005	<.010	<.007
			08-23-01	<.013	<.006	<.002	<.007	<.003	<.010	<.015	<.011	<.016	<.034
USGS 1	NU02		11-07-00	<.013	<.006	<.002	<.007	<.003	<.010	<.015	E.006	<.016	<.034
			08-23-01	E.004	<.006	<.002	<.007	<.003	<.010	<.015	E.007	<.016	<.034
USGS I	NU29		08-24-00	.006	<.004	<.004	<.003	<.006	<.004	.021	E.005	<.010	<.007
			08-23-01	<.013	<.006	<.002	<.007	<.003	<.010	.024	<.011	<.016	<.034
USGS 1	NU11		08-12-99	<.002	<.004	<.004	<.003	<.006	<.004	<.018	.479	<.010	<.007
			08-24-00	<.002	<.004	<.004	<.003	<.006	<.004	E.014	.024	<.010	<.007
			08-24-01	<.013	<.006	<.002	<.007	<.003	<.010	E.004	.058	<.016	<.034
					LOCAL IDENT- I- FIER	DATE	TER- BUTHYL- AZINE, WATER, DISS, REC (UG/L) (04022)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)				
			υ	SGS UND02		08-25-00		<.002	<.002				
						08-25-00		<.002	<.002				
						08-25-01		<.002	<.002				
						08-28-01		<.005	<.009				
			U	SGS UND09		08-12-99		<.002	<.002				
						08-28-01		<.005	<.009				
						08-28-01		<.005	<.009				
			υ	SGS NU16		08-12-99	<.005	<.002	<.002				
						08-24-00		<.002	<.002				
						08-24-01		<.005	<.009				

08-12-99 08-24-00 08-23-01

11-07-00 08-23-01

08-24-00 08-23-01

08-12-99 08-24-00 08-24-01

<.002 <.002 <.009

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USGS NU08

USGS NU02

USGS NU29

USGS NU11

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

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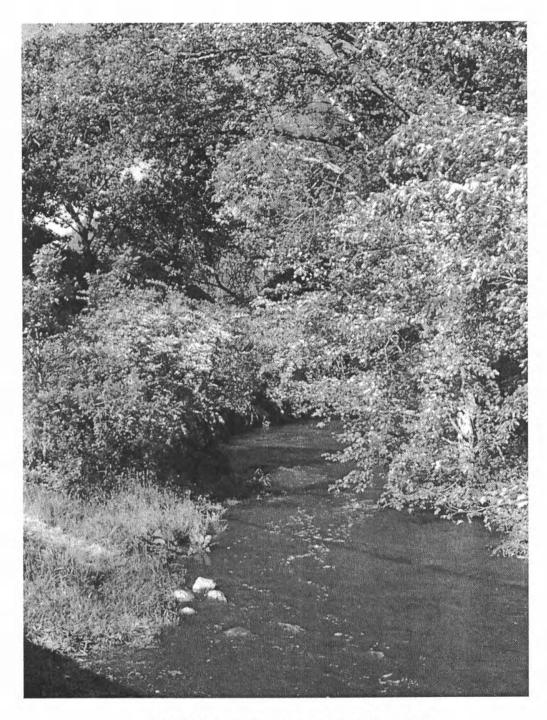
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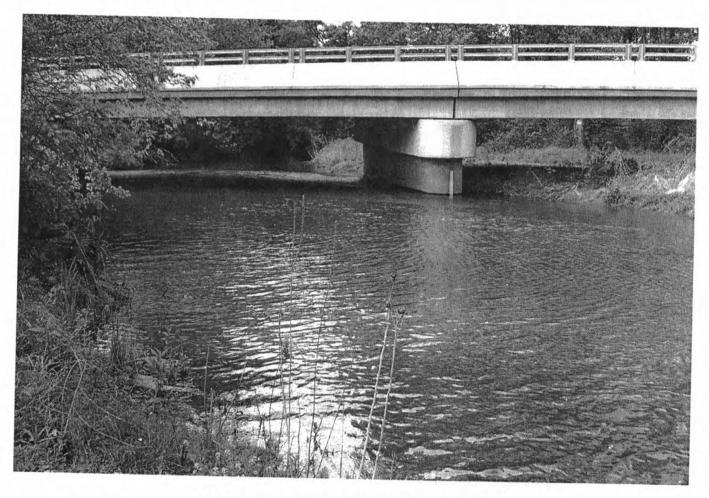
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01467005 North Branch Rancocas Creek at Iron Works Park, at Mount Holly
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Ambient Stream Monitoring Network
(file photograph, U.S. Geological Survey, West Trenton, New Jersey)



01401400 Heathcote Brook at Kingston Mixed Land Use Indicator Station Ambient Stream Monitoring Network (file photograph, U.S. Geological Survey, West Trenton, New Jersey)



01400640 Millstone River near Grovers Mill Agricultural Land Use Indicator Station Ambient Stream Monitoring Network (file photograph, U.S. Geological Survey, West Trenton, New Jersey)

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	Ву	To obtain
	Length	
inch (in.)	$2.54 \times 10^{1} \\ 2.54 \times 10^{-2}$	millimeter 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
2	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^{1}	cubic decimeter
3	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
1	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
	4.381x10 ⁻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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