

Water Resources Data New Jersey Water Year 2002

Volume 3. Water-Quality Data

Water-Data Report NJ-02-3



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



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

CALENDAR FOR WATER YEAR 2002

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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 2002". This report was prepared by the U.S. Geological Survey, in cooperation with the State of New Jersey as well as many local and federal government agencies.

This report is again being published in three volumes:

Volume 1.--Surface-water streamflow data.

Volume 2.--Ground-water level data.

Volume 3 -- Water-quality data.

This volume contains a summary of the hydrologic conditions for the 2002 water year (October 1, 2001 - September 30, 2002), a listing of current water-resources projects in the New Jersey District, a bibliography of recent reports, articles and fact sheets, and records of ground-water levels in 184 wells.

During 2002, the U.S. Geological Survey, in cooperation with the New Jersey Department of Environmental Protection (NJDEP), expanded its Drought Monitoring Network. In order to make ground-water level data available in the shortest time possible, satellite telemetry was added to 8 more wells. This brings the total number of real-time ground-water level sites to 15.

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 68 stream-gaging stations,15 ground-water wells and 3 continuous water-quality sites around the State are presented. Also, peak-flow files and historical data for many gaging stations, ground-water wells, water-quality sites, monthly hydrologic conditions, and links to other sites of interest can 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 also can be provided by file transfer (ftp), or on floppy disk. When ordering, refer to U.S. Geological Survey Water-Data Report NJ-02-1 (for Volume 1), NJ-02-2 (for Volume 2), or NJ-02-3 (for Volume 3). For further information on this report, or to change or remove your address from our mailing list, please contact Walter D. Jones at the above address, telephone (609) 771-3900, or send e-mail to wjones@usgs.gov.

Sincerely,

Hillion R. Bampels

William R. Bauersfeld, Chief Hydrologic Data Assessment Program

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

District Chief, Water Resources Division U.S. Geological Survey Mountain View Office Park 810 Bear Tavern Road, Suite 206 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 datacollection 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. Heckathorn. 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:

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P. Burt	J.Janda	R. Maruska	

This report was prepared in cooperation with the State of New Jersey and with other agencies under the general supervision of William R. Bauersfeld, Chief of the Hydrologic Data Assessment Program; under the general supervision of David A. Stedfast, Associate District Chief; Rick Kropp, District Chief, New Jersey; and Catherine L. Hill, Regional Hydrologist, Northeastern Region.

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13. ABSTRACT (Maximum 200 words) Water-resources data for the 2002 water year for New Jersey are presented in three volumes, and consists of records of stage, discharge, and quality of streams; stage and contents of lakes and reservoirs; and levels and qual- ity of ground water. Volume 3 contains a summary of surface- and ground-water hydrologic conditions for the 2002 water year, a listing of current water-resources projects in New Jersey, a bibliography of water-related reports, arti- cles, and fact sheets for New Jersey completed by the Geological Survey in recent years, water-quality records of chemical analyses from 118 continuing-record surface-water stations, 15 miscellaneous ground-water sites, and records of daily statistics of temperature and other physical measurements from 6 continuous-recording stations. Locations of water-quality stations are shown in figures 12-14. Locations of miscellaneous water-quality sites are shown in figures 40-41. These data represent that part of the National Water Data System operated by the U.S. Geo- logical Survey and cooperating federal, state, and local agencies 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- and ground-water quality are published in separate sections of the data report.

[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, (h) bed material, (WMA #) NJDEP watershed management area.]

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Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H	01408300 01408500 01408702 01408830 ARBOR)	261 264 267
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H MULLICA RIVER BASIN	01408300 01408500 01408702 01408830 ARBOR)	261 264 267
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms)	01408300 01408500 01408702 01408830 ARBOR) 01409387	261 264 267 269
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp)	01408300 01408500 01408702 01408830 ARBOR) 01409387 0140940050	261 264 267 269 271
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms)	01408300 01408500 01408702 01408830 ARBOR) 01409387 0140940050 0140940950	261 264 267 269 271 274
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw).		261 264 267 269 271 274 276
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp)		261 264 267 269 271 274 276 278
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh)		261 264 267 269 271 274 276 278 281
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River:		261 264 267 269 271 274 276 278 281
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River: West Branch Wading River at Maxwell (cms)		261 264 267 269 271 274 276 278 281 284
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River: West Branch Wading River at Maxwell (cms) Bass River:	01408300 01408500 01408702 01408702 01409387 0140940950 0140940950 0140940950 01409416 01409435 01409500 01409815	261 264 267 269 271 274 276 278 281 284
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) <u>CEDAR CREEK BASIN</u> Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H <u>MULLICA RIVER BASIN</u> Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River: West Branch Wading River at Maxwell (cms) Bass River: East Branch Bass River near New Gretna (cmswh)		261 264 267 269 271 274 276 278 281 284 284
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)	01408300 01408500 01408702 01408702 01409387 0140940950 0140940950 0140940950 0140940950 01409416 01409435 01409500 01409815 01410150	261 264 267 269 271 274 276 278 281 284 284
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)	01408300 01408500 01408702 01408702 01409387 0140940950 0140940950 0140940950 01409416 01409435 01409500 01409815 01410150	261 264 267 271 274 276 278 281 284 284
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)	01408300 01408500 01408702 01408702 01409387 0140940950 0140940950 0140940950 01409416 01409435 01409500 01409815 01410150	261 264 267 271 274 276 278 281 284 286
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)	01408300 01408500 01408702 01408702 01409387 014094050 0140940950 014094050 01409435 01409435 01409815 01410150 01411035	261 264 267 269 271 274 276 278 281 284 286
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)		261 264 267 271 274 276 278 281 284 286 289 291
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) CEDAR CREEK BASIN Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H MULLICA RIVER BASIN Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River: West Branch Wading River at Maxwell (cms) Bass River: East Branch Bass River near New Gretna (cmswh) (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 (cms) Great Egg Harbor River at Weymouth (csw) Babcock Creek near Mays Landing (cs)		261 264 267 271 274 276 278 281 284 286 289 291 293
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh)	01408300 01408500 01408702 01408702 014098702 014094050 014094050 0140940950 014094050 01409416 01409435 01409815 01410150 01411035 01411106	261 264 267 271 274 276 278 281 284 286 289 291 293
Toms River at Whitesville (cmsvp) Toms River near Toms River (cmswh) Jakes Branch at Dover Road, near Double Trouble (cmsvp) CEDAR CREEK BASIN Cedar Creek at Cedar Crest (cms) (WMA 14 - ATLANTIC OCEAN & TRIBUTARIES - TUCKERTON CREEK, LITTLE EGG H MULLICA RIVER BASIN Mullica River at outlet of Atsion Lake, at Atsion (cms) Mullica River at Constable Bridge, near Batsto (csvp) Blue Anchor Brook At Elm (cms) Hammonton Creek at Wescoatville (csw) Skit Branch near Hampton Gate (cmsvp) Batsto River at Batsto (cmswh) Wading River: West Branch Wading River at Maxwell (cms) Bass River: East Branch Bass River near New Gretna (cmswh) (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 (cms) Great Egg Harbor River at Weymouth (csw) Babcock Creek near Mays Landing (cs) TUCKAHOE RIVER BASIN		261 264 267 269 271 274 276 278 281 284 286 289 291 293 295

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

Tuckahoe River at Head of River (cmsvp) (WMA 16 - DELAWARE BAY (PART OF ZONE 6) & TRIBUTARIES) FISHING CREEK BASIN	01411300	298
Fishing Creek at Rio Grande (cs)	01411400	301
DENNIS CREEK BASIN		
Dennis Creek:		
Dennis Creek Tributary 2 at Dennisville (csvp)	01411427	303
WEST CREEK BASIN		
West Creek near Leesburg (cmsvp)	01411444	306
(WMA 17 - DELAWARE BAY (PART OF ZONE 6) & TRIBUTARIES)		
MAURICE RIVER BASIN		
Maurice River:		
Still Run at Little Mill Road, near Clayton (cmsvp)	01411452	309
Scotland Run:	04 44 4 400	040
Indian Branch near Malaga (cms)		312
Maurice River at Norma (cmswn)	01411500	314
Cravelly Pup at Laurel Lake (cmsyn)	01/11055	217
	01411955	517
Cohansey River at Seely (cmsw)	01/12800	320
Barrett Run at Bridgeton (cmsyn)	01413013	322
(WMA 1 - UPPER DELAWARE (ZONE 1C. ZONE 1D. AND THE UPPER PART OF ZONE 1E	E) & TRIBUTARIES)	
DELAWARE RIVER BASIN	,	
Delaware River at Montague (cms)	01438500	325
Flat Brook near Flatbrookville(cms)	01440000	327
Dunnfield Creek at Dunnfield (cmswvph)	01442760	329
Delaware River at Portland, PA (cms)	01443000	333
Paulins Kill at Warbasse Junction Road, near Lafayette (cmsvp)	01443250	335
Paulins Kill at Blairstown (cmswh)	01443500	338
Pequest River:		
Bear Brook at Dark Moon Road, near Johnsonburg (cmswh)	01445160	341
Honey Run near Hope (cmsvp)	01445900	344
Pequest River at Belvidere (cmsw)	01446400	347
Musconetcong River at Riegelsville (cms)	01457400	349
(WMA 11 - UPPER DELAWARE & TRIBUTARIES - LOCKATONG, ALEXAUKEN CREEK, A	SSUNPINK CREEK)	
Delaware River at Riegelsville (cms)	01457500	351
Nishisakawick Creek near Frenchtown (cms)	01458570	353
Delaware River at Lumberville, PA (cms)	01461000	355
Wickecheoke Creek near Sergeantsville (cmswvp)	01461282	357
Delaware River at Trenton (cmswvpt)	01463500	360
Assunpink Creek:	04400050	070
Miry Run at Route 533, at Mercerville (cmsw)	01463850	379
Assunpink Greek at Peace Street, at Trenton (cmsvp)	01464020	381
(WIMA 20 - LOWER DELAWARE (UPPER PART OF ZONE 2) & TRIDUTARIES)		
Closswicks Cleek.	01464290	201
Croowide Crock of Crownille Road, at Crownille (amour)	01464500	204 207
Doctors Crook at Allentewin (cmsw)	01404304	200
Blacks Cross at Chestorfield (cmsw)	01/6/527	302
Little Neshaminy Creek at Valley Road, near Neshaminy, PA (csn) [site not within WMA 2	01404527	305
(WMA 19 - LOWER DELAWARE (LOWER PART OF ZONE 2 AND UPPER PART OF ZONE	3) & TRIBUTARIES)	390
Rancocas Creek:		
South Branch Rancocas Creek:		
Southwest Branch Rancocas Creek:		
Little Creek at Chairville (cms)	01465893	398
North Branch Rancocas Creek:		
North Branch Mt. Misery Brook:		
Mount Misery Brook at Upton (cmsvp)	01466100	400
Greenwood Branch:		
McDonalds Branch in Lebanon State Forest (cmsvp)	01466500	403
Greenwood Branch at New Lisbon (cms)	01466900	406
North Branch Rancocas Creek at Iron Works Park, at Mount Holly (cmswh)	01467005	408
Cooper River at Haddonfield (cmsw)	01467150	411

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

North Branch Cooper River at Kresson (cmswvp)	01467155	413
(WMA 18 - LOWER DELAWARE (LOWER PART OF ZONE 3, ZONE 4, ZONE 5, AND PART C	OF ZONE 6) & TRI	BUTARIES)
Big Timber Creek:		
North Branch Big Timber Creek at Glendora (cmsw)	01467359	416
Schuylkill River:		
French Creek near Phoenixville, PA (csp) [site not within WMA 18]	01472157	418
Schuylkill River at Philadelphia, PA (csp) [site not within WMA 18]	01474500	421
Mantua Creek:		
Edwards Run at Jefferson (cmsvp)	01475090	424
Raccoon Creek near Swedesboro (cmswh)	01477120	427
Salem River at Woodstown (cms)	01482500	430
Major Run at Sharptown (cmsvp)	01482530	432

WATER RESOURCES DATA - NEW JERSEY, 2002

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	area	Type of	Period of record
	number	(mi²)	record	(water years)
-				
Passaic River at Millington, NJ	01379000		Temp.	1997-98
Passaic River near Chatham, NJ	01379500	100	Sed.	1964-68
,			Temp.	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
Passaic River at Two Bridges, NJ	01382000	361	Temp.,	1963-74
0			S.C., pH, D.O.	1969-74
Wanague River at Wanague, NJ	01387000	90.4	Temp.	1964-80
Ramapo River near Mahwah, NJ	01387500	118	Sed.	1964-65
Pompton River near Two Bridges, NJ	01389000	372	Temp., S.C., pH, D.O.	1969-74
Passaic River at Little Falls, NJ	01389500	762	Sed.	1964-65
			Temp., S.C.	1981-86
Saddle River at Ridgewood, NJ	01390500		Temp.	1997-98
Rahway River at Washington Park, at Springfield, NJ	01394200		Temp.	1997-98
South Branch Baritan River near High Bridge, NJ	01396500	65.3	Temp.	1961-79
	0.000000	0010	S.C.	1969-79
Mulhockaway Creek at Van Syckel, NJ	01396660		Temp	1997-98
Spruce Bun at Clinton, NJ	01396800	41.3	Temp.	1969, 1971-80
South Branch Baritan River at Stanton, NJ	01397000	147	Temp., S.C.	1969-79
	01001000		Sed.	1960-63
Neshanic River at Reaville, NJ	01398000		Temp	1997-98
South Branch Bockaway Creek, at Whitehouse, NJ	01399690	13.2	Temp., S.C.	1977-78
	0.000000		Sed	1977
Rockaway Creek at Whitehouse, NJ	01399700	37.1	Temp., S.C.	1977-78
Baritan 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
	01.00002		Sed.	1963-69
Stony Brook at Princeton, NJ	01401000	44.5	Temp.	1957-70, 1997-98
···, ···, ·		-	Sed.	1960-70
Beden Brook near Rocky Hill, NJ	01401600		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
Bound Brook at Middlesex, NJ	01403900		Temp., S.C.	1996-98
Raritan River near South Bound Brook, NJ	01404100	862	Temp., S.C., pH, D.O.	1969-77
Manasguan River at Sguankum, NJ	01408000	44	Temp., S.C., pH, D.O.	1969-74
Toms River near Toms River, NJ	01408500	123	Temp	1964-66, 1975-81
			S.C.	1975-81
Ovster Creek near Brookville. NJ	01409095	7.43	Temp., D.O.	1975-76
· · · · · · · · · · · · · · · · · · ·		_	S.C., pH	1975-77
West Branch Wading River near Jenkins, NJ	01409810	84.1	Temp., S.C.	1978-81
Great Egg Harbor River at Sicklerville, NJ	01410784		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	01410810	7.74	Sed.	1974-78
Great Egg Harbor River at Folsom, NJ	01411000	57.1	Temp.	1961-75, 1977-80
			S.C.	1969-75, 1977-80
			Sed.	1966-70. 1979
Delaware Bay at Ship John Shoal Lighthouse, NJ	01412350		Temp.	1970-86
Maurice River at Norma, NJ	01411500	112.0	Temp.	1967-68. 1980-87.
, -		-		1993-94
			S.C.	1980-87, 1993-94
			рH	1993-94
		Sed.	1965-68	

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

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Delaware River at Port Jervis, NY	01434000		Temp.	1957-60, 1973-94 1999-2001
Delaware River near Delaware Water Gap, PA	01440200	3850	Sed.	1964-65, 1972
Delaware River at Dunnfield, NJ	01442750	4150	Temp.	1967-76
			Sed.	1966-76
Jordan Creek near Schnecksville, PA	01451800		Temp.	1999, 2001
Delaware and Raritan Canal Feeder at Raven Rock, NJ	01460300		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Lower Ferry Road at Trenton, NJ	01460400		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Port Mercer, NJ	01460440		Temp., S.C., Turb.	1998-99
Delaware and Raritan Canal Feeder at Griggstown, NJ	01460530		Temp., S.C., Turb.	1998-99
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
Little Neshaminy Creek at Valley Road, near Neshaminy, PA	01464907		Temp.	1999, 2001
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
			рН	1970-74
Cooper River at Haddonfield, NJ	01467150	17.0	Temp.	1968-69
				1999-2001
			Sed.	1968-69
French Creek near Phoenixville, PA	01472157		Temp.	1999-2001
Schuylkill River at Philadelphia, PA	01474500		S.C.	1999
			Temp.	1999-2001
Raccoon Creek near Swedesboro, NJ	01477120	26.9	Temp.	1966-73 1999-2001
			Sed.	1966-69

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

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-guality records, containing various chemical analyses from 118 continuing-record surfacewater stations. Locations of these stations are shown in figures 12-14. Additional water-guality data were collected at various sites that are not part of the systematic data collection program. Miscellaneous data were collected at 15 ground-water sites. Locations of these sites are shown in figures 40 and 41. 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 Jersev.

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 groundwater 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 pub-lished 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-02-3." For archiving and general distribution purposes, the reports for water years 1971 through 1974 also are identified as water-data reports. Waterdata 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
- 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 has been experiencing ongoing drought conditions for more than four years. The 2002 water year (October 2001 to September 2002) with a total of 33.99 inches of precipitation was the third driest water year since 1896. Precipitation was below average for 7 months during the 2002 water year (fig. 1) (Statewide Monthly Precipitation 1895-2002, Climate Data, N.J. State Climatologist, Rutgers University; accessed at http://climate.rutgers.edu/stateclim/ data/ index.html). During four of the seven months, deficits of precipitation greater than 2.3 inches occurred, and during two months, deficits greater than 1.2 inches occurred. March, April, May, June, and September had above average precipitation; June had the greatest surplus, 1.2 inches. September 2001 to February 2002 was the driest consecutive 6 months of any 6-month interval on record (Statewide Monthly Precipitation 1895-2002, Climate Data). Overall, precipitation was 10.73 inches (76 percent) below normal during the 2002 water year. Streamflow was below normal throughout much of the year. Monthly mean discharge values for November, February, and March set new minimum monthly mean values for the period of record at index stations High Bridge and Folsom (fig.2). Trenton was the only index station that recorded above normal streamflow at any time during the water year; it occurred during the months of May and June.

The substantial yearlong precipitation and streamflow deficits, and their resultant effects on solute concentrations, are evident in the plot of monthly mean values of specific conductance (SC) at the continuous water-quality monitoring station on the Delaware River at Trenton (fig. 3). Ten of the 12 monthly mean values of SC for the 2002 water year were above long-term (1968-2001) mean-monthly values. During May and June, the months of above normal statewide precipitation and streamflow at Trenton, monthly mean SC values were below the long-term mean-monthly values. During November and January, two of the months with the lowest mean discharge values for the water year, SC values exceeded the highest monthly mean values for the period of record.

Water year 2002 was the warmest water year on record with an average ambient temperature of 55.9°F (13.3°C), 3.8°F (2.1°C) above normal for the State. The long-term (1895-2001) mean-monthly ambient temperature values were exceeded every month, except May (Statewide Monthly Precipitation 1895-2002, Climate Data). Monthly mean water temperature values measured at the Delaware River at Trenton followed a similar trend. Long-term mean-monthly values were exceeded every month, except May and June (fig. 4). Additionally, the December monthly mean value exceeded the maximum for the period of record by 0.6°C. The monthly means for February, April, and

August also were high but did not exceed their respective monthly maximums.

Dissolved oxygen (DO) concentrations generally exhibit 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 daily maximum DO concentrations, 15.1 milligrams per liter (mg/L), occurred in January when the monthly mean water temperature was at its lowest, 2.6°C (fig. 5). The lowest monthly median of daily minimum DO concentrations, 8.8 mg/L, and the highest monthly mean water temperature, 27.0°C, occurred in July. No monthly medians of DO minimums and maximums during water year 2002 exceeded longterm extremes 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 statistical plots 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 two, WMA 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 2002, five of the SS stations were co-located at existing WI or LUI stations; the data from the co-located stations are included in the statistical plots for the WI and LUI station categories. Water-column 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 2002 was to assess week-long diurnal physical measurements and constituent concentrations at three network stations located in the Passaic River basin. 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

Physical characteristics and concentrations of total and filtered nutrients, filtered common ions, filtered organic carbon, and biochemical oxygen demand were determined in 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; however, two stations were not sampled during the August to September period as a result of drought conditions and construction. 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 the LT-MDL, respectively. Estimated values, which were determined to be greater than the LT-MDL but less than the LRL, were included. The estimated values are marked with an "E" in the water-quality tables. Refer to "Definition of Terms" in the "Introduction" for further explanation of these reporting conventions.

The record average ambient temperature for water year 2002 did not significantly affect median water temperatures when compared to those of previous water years. The median water temperatures for all the station types were within 3.25°C of each other (fig. 6). The remaining plots in figure 6 illustrate the relation between land use and water guality. Streams that drain urban areas seem to be negatively affected by wastewater discharges. In contrast, streams that drain background and undeveloped areas seemingly are not affected. The amount of dissolved and suspended organic matter in streams affect the concentrations of dissolved oxygen (DO), biochemical oxygen demand (BOD), and turbidity. Available DO is consumed during the biodegradation of organic matter; BOD is a measurement of this consumption. The lowest median DO concentration, 64.5 percent of saturation, the highest median BOD, 1.45 mg/L, and the highest median turbidity, 6.5 NTU, occurred at urban LUI stations. The highest median DO concentration, 95.5 percent of saturation, the lowest median BOD, 0.75 mg/L, and the lowest median turbidity, 1.1 NTU, occurred at back-ground, undeveloped LUI, and background stations, respectively. Streams that are affected by wastewater discharges also 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, 278 mg/L, 196 mg/L, and 157 mg/L, respectively. The minimum median TDS concentrations occurred at background stations with 30 mg/L, followed by undeveloped LUI stations with 51 mg/L. Stream concentrations of TDS also are affected by streamflow. Concentrations of TDS greater than 500 mg/L occurred only at statewide status stations during November 2001 and February 2002, the severest part of the drought. The high levels of TDS at those particular stations were likely the result of solute concentration from extremely low streamflow.

Nutrients in streams are generally from anthropogenic sources. Nutrients are likely the result of runoff that contains chemical fertilizer and animal waste, and of discharge of municipal sewage. Nutrient enrichment subsequently causes an increase in phytoplankton, free floating algae, in streams. The presence of chlorophyll a, contained in phytoplankton, is therefore an indicator of nutrient enrichment. As expected, median concentrations of ammonia, nitrite plus nitrate, phosphorus, and chlorophyll a are higher in samples from mixed LUI, urban LUI, agriculture LUI, and integrator station types (fig. 6). In contrast, median concentrations are lower in samples from background and undeveloped LUI station types. Dissolved organic carbon (DOC) is a heterogeneous mixture of many organic materials, mostly high molecular weight organic acids that result from the oxidation of organic matter. Organic matter can originate from anthropogenic or natural sources. Eutrophic urban streams have been found to have high levels of organic carbon caused by nutrient enrichment. The highest single value and median concentration of organic carbon occurred in samples from urban LUI stations. The highest single value was determined in a sample from a small urban stream that was stagnant until runoff from rainfall occurred the night prior to sampling. The water, both filtered and unfiltered, was reported as black in color. The lowest median concentration of DOC occurred in samples from background stations. Undeveloped LUI stations might be expected to have a low median concentration, but in fact, it is fairly high. Some undeveloped LUI stations were located on streams drain 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.

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

Samples for analysis of trace elements, volatile organic compounds (VOCs), and pesticides were collected during the period when the constituents were most likely to have been 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 on pages 10 through 13. A detected constituent is one whose value is reported to be greater than or equal to the laboratory MRL or LRL.



Figure 1. Monthly mean precipitation for water year 2002 and mean-monthly precipitation for 1895-2001. [Mean-monthly and monthly mean precipitation are spatially weighted averages of several dozen stations throughout the State]



EXPLANATION

UNSHADED AREA--Indicates range between highest and lowest mean discharge recorded for the month, prior to 2002 water year

BROKEN LINE--Indicates normal discharge (median of the monthly means) for the standard reference period, 1971-2000

SOLID LINE--Indicates observed monthly mean discharge for the 2002 water year

Figure 2. Monthly mean discharge at index gaging stations, water year 2002.



SOLID LINE--Indicates the monthly mean values for water year 2002.

BROKEN LINE--Indicates the mean-monthly values for water years 1968-2001.

Figure 3. Monthly mean specific conductance at Delaware River at Trenton, New Jersey, water year 2002.



BROKEN LINE--Indicates the mean-monthly values for water years 1968-2001.

Figure 4. Monthly mean water temperature at Delaware River at Trenton, New Jersey, water year 2002.



SOLID LINE--Indicates the monthly median of daily maximum values for water year 2002.

BROKEN LINE--Indicates the monthly median of daily minimum values for water year 2002.

Figure 5. Monthly medians of daily maximum and minimum dissolved oxygen concentrations at Delaware River at Trenton, New Jersey, water year 2002.



Figure 6. Distribution of physical characteristics of, and constituent concentrations in, samples from 112 stations in the Ambient Stream Monitoring Network, water year 2002. ["Less-than" values reported as equal to one-half the minimum reporting level or laboratory reporting level; excludes data from Delaware River main stem stations 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 2002--continued. ["Less-than" values reported as equal to one-half the minimum reporting level or laboratory detection level; excludes data from Delaware River main stem stations 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 2002. [Two of the status stations are colocated at other station types; data were included in both distributions. Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]



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 2002--continued. [Two of the status stations are colocated at other station types; data were included in both distributions. Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

WATER RESOURCES DATA - NEW JERSEY, 2002

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						1	Statio type	n of detection
С			1,1,1	-TRICHLOF	ROETHANE	_	BG SS	0 of 6 2 of 40
00	00				BENZENE	_	BG SS	0 of 6 4 of 40
0 0			CHLOR	DIBROMO	METHANE		BG SS	0 of 6 2 of 40
	φ οο ο	0		CHI	LOROFORM	-	BG SS	2 of 6 9 of 40
0	0		CIS-1	,2-DICHLOF	ROETHENE		BG SS	0 of 6 4 of 40
00	00		BROMO	DICHLORO	METHANE	_	BG SS	0 of 6 4 of 40
	$\phi 0000$	ME ^r	THYL TER	FIARY-BUT	YL ETHER		BG SS	1 of 6 21 of 40
C	ο φο	0	TETR	ACHLORO	ETHYLENE		BG SS	0 of 6 5 of 40
оф	0				TOLUENE	_	BG SS	0 of 6 3 of 40
	0	φ	T				BG SS	0 of 6 3 of 40
0.1	1.0			10.	0			

.1 1.0 10 CONSTITUENT CONCENTRATION, IN FILTERED WATER, IN MICROGRAMS PER LITER

EXPLANATION

BG Background station

- SS Statewide status stations
- Concentration of detected compounds
- Median of detected concentrations (Specific to station type)
 - Minimum reporting level (MRL)

Figure 8. Concentration and detection frequency of volatile organic compounds detected in samples from 46 stations in the Ambient Stream Monitoring Network, water year 2002. [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 velatile organic compounds detected only

nable 1: Concerntation of volat once in samples from 46 statior Network, water year 2002. [SS, statewide status]	in the Ambient Strea	m Monitoring
CONSTITUENT	CONCENTRATION	STATION TYPE
	(micrograms per liter)	
1,1-DICHLOROETHANE	0.6	SS
1,2-DICHLOROETHANE	0.2	SS
ORTHO DICHLOROBENZENE	0.2	SS
CHLOROBENZENE	1.5	SS
DIISOPROPYLETHER	0.5	SS
ETHYL ETHER	0.3	SS
ETHYLBENZENE	0.1	SS

0.3

0.1

3.0

SS

SS

SS

META+PARA XYLENE

ORTHO XYLENE

VINYL CHLORIDE

		'
	EXPLANATION	
BC	G Background stations	
SS	S Statewide status stations	
С	Concentration of detected compounds	
I	Median of detected concentrations (Specific to station type)	
	Laboratory reporting level (LRL) (Concentrations below the LRL are estimated)	
2	Detection fraguency of selected pesticides in	

Table 2. Detection frequency of selected pesticides in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2002. [All values are estimated due to poor recovery or poor precision]

CONSTITUENT	STATEWIDE	BACKGROUND
	STATUS	
ALPHA BHC	1 of 40	0 of 6
BENFLURALIN	2 of 40	0 of 6
CARBARYL	19 of 40	1 of 6
DEETHYLATRAZINE	31 of 40	3 of 6
METHYLAZINPHOS	3 of 40	0 of 6
TEBUTHIURON	3 of 40	0 of 6
TERBACIL	3 of 40	0 of 6
TRIFLURALIN	2 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 2002. [SS, statewide status]

CONSTITUENT	CONCENTRATION (micrograms per liter)	STATION TYPE
LINURON	0.3	SS



Figure 9. Concentration and detection frequency of pesticides detected in filtered samples from 46 stations in the Ambient Stream Monitoring Network, water year 2002. [Constituents whose values were reported by the laboratory as less than the MRL or LRL are considered to be not detected]

Values reported by the analyzing laboratory as "<" (less than the MRL or LRL) were considered to be not detected and were excluded from the plots. Values reported as "E" (estimated below the LRL) were included in the plots. Refer to "Definition of Terms" in the "Introduction" for more information about MRLs and LRLs.

Samples for the analysis of trace elements were collected at two background stations to develop a baseline with which to compare the water quality at other stations. Forty-four samples were collected from a random selection of long-term fixed station types. Every trace element in the USGS National Water Quality Laboratory schedule was detected in more than one sample and, therefore, was included in figure 7. Estimated values, concentrations below the LRL line in each plot, also were included. Barium, iron, manganese, and zinc were detected in 100 percent of the samples. Chromium and silver had the lowest percentages of detection, 16.7 and 18.7, respectively. In general, trace elements were detected more often in samples from mixed LUI and statewide status stations. They were detected less often and in smaller concentrations in samples from undeveloped LUI and background stations, which were located on reaches of streams that remain relatively unaffected by human activity.

Concentrations of VOCs and pesticides in samples from background stations were determined to develop a baseline and from SS stations to provide a general overview of the water quality statewide and of the aerial distribution of these compounds. Samples from 6 background and 40 SS stations were analyzed for 34 VOCs. Ten compounds were detected in more than one sample and are presented in figure 8. Ten compounds were detected only once and are presented in table 1. Refer to individual station records for tables that list all the compounds. The most frequently detected VOCs in 46 samples were Methyl tert-butyl ether (MTBE), in 48 percent of samples; chloroform, in 24 percent; and tetrachloroethylene, in 11 percent. Chloroform and MTBE were the only two compounds detected in samples from background stations. Chloroform is a by-product of the disinfection of drinking water and wastewater by chlorination; MTBE is a gasoline additive.

Filtered samples from 6 background and 40 SS stations were analyzed for 47 pesticides by use of laboratory schedule 2001. Only compounds detected in one or more samples are included in figure 9 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 line in each plot in figure 9, also are included. Pesticides, in low concentrations, were widely distributed throughout the State; twenty-four compounds were detected at one or more SS stations. Six compounds also were detected at background stations, indicating that atmospheric deposition is a possible source. Four of the detected compounds are insecticides-Carbaryl, Chlorpyrifos, Diazinon, and Malathion. The remaining compounds are herbicides. The most frequently detected pesticides in 46 samples were Metolachlor, in 83 percent of

samples; Atrazine, in 80 percent; Deethylatrazine (a degradation product of Atrazine), in 74 percent; and Prometon, in 50 percent. The six compounds detected at background stations are commonly used herbicides, with the exception of carbaryl, which is an insecticide.

Ambient Stream Monitoring Network Reconnaissance Study

The water year 2002 reconnaissance study documented the occurrence of base-flow extremes of continuously monitored water temperature, dissolved oxygen (DO) concentration, percent of dissolved oxygen saturation, specific conductance, and pH at three network stations in the Passaic River basin. In situ multi-constituent sensors, or monitors, recorded 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. The monitors were deployed for five 1-week periods during the summer months. Graphs of hourly values are included in the individual station records for Pompton River at Pompton Plains (01388500), Passaic River at Little Falls (01389500), and Saddle River at Lodi (01391500) (figs. 19-23, 27-31, and 32-36, respectively).

The Reconnaissance stations were placed in the Passaic River basin, the most intensely used river basin in the State, to better characterize fluctuations of the characteristics and the relation of the characteristics to surface-water quality during a State-declared Drought Emergency with modified allowable passing flows in the basin (William Honachefsky, New Jersey Department of Environmental Protection, written commun., April 2003). Diurnal variation of DO during days of base flow and suppression of variation during days of higher flow were recorded at the three stations. About 1 inch of rain fell throughout the period June 10 to 14; subsequently, the monitors recorded relatively stable DO values (+/- 1 mg/L from the daily mean) during the period. Stable, low base-flow conditions were recorded during the first few days of two periods, June 24 to July 1 and July 16 to 23; subsequently, the monitors recorded wide variations (+/- 4 mg/L from the daily mean) during those times. Significant rainfall in the middle of the periods resulted in immediate suppression of diurnal fluctuation, which gradually resumed as flow returned to near base flow. The causes of diurnal DO fluctuation are photosynthesis and aerobic respiration. The process of photosynthesis is driven by sunlight and produces free oxygen, which causes an increase in DO levels during the day. The process of algal respiration consumes free oxygen and causes a decrease in DO levels during the night. High streamflow, which carries an increased load of suspended material, increases turbidity that effectively blocks sunlight, and interrupts the photosynthetic process.

Ground Water Quality

The USGS, in cooperation with the NJDEP, operates the Ambient Ground-Water-Quality Network (AGWQN), which was designed to monitor the quality of ground water at or near the water table throughout the State. Shallow ground water is generally the first





Table 4. Hydrogeologic unit and land use at three wells sampled as part of U.S. Geological Survey-N.J. Department of Environmental Protection (cooperative) Ambient Ground-Water-Quality Network, water year 2002.

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	Well depth	(ft bls)	14.0	16.8	27.8
Number of trace	elements	detected ²	6	8	ω
Number	of VOCs	detected ²	None	None	-
Number of	pesticides	detected ²	None	None	None
Total dissolved	solids	(mg/L)	307	222	122
Nitrogen NO2+NO3,	dissolved	(mg/L)	1.02	E0.02	0.33
Dissolved	oxygen	(mg/L)	0.4	1.3	1
Water type	(dominant	cation-anion)	Calcium-bicarbonate	Calcium-sulfate	Calcium-sulfate
	Predominant	land use ¹	Agricultural	Agricultural	Urban
Hydrogeologic	unit aquifer	code	231LCKG	211RDBK	211EGLS
	WMA	number	11	6	20
NJ-WRD	well	number	210608	250804	51505

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.

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, determine the effects of land use on shallow groundwater 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 groundwater 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 2002 was the fourth year of operation of the first 5-year cycle of the AGWQN.

Because of the difficulty of locating suitable sites north of the fall line, only three wells were installed and sampled during water year 2002 (fig. 10). The first 5year cycle, however, will most likely be finished by the end of water year 2003. Because few samples were collected, statistical analyses are not presented in this volume. Selected location, construction, and analytical data for the three wells are summarized in 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."

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 stations are used in the development of waterguality 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-guality indicators statewide. Five stations are located on the Delaware Main Stem-the border between New Jersey and Pennsylvania. Watershed Reconnaissance stations are also selected annually on the basis of specific project needs, determined by a committee of USGS and NJDEP personnel.

The surface-water network is sampled in four periods throughout the water year: November 1 to December 31, February 1 to March 31, May 1 to June 30, and August 1 to September 30. Samples for analysis for nutrients, major ions, biochemical-oxygen demand, and suspended solids are collected for the entire network each sampling period. Samples for the analysis of water-column volatile organic compounds during February and March, filtered organic pesticides during May and June, and whole-water-recoverable trace elements during August and September are collected at all Statewide Status and Background stations. Samples for the analyses of trace elements and polyaromatic hydrocarbons in streambed sediments are also collected in August and September at 19 Statewide Status stations and 2 Background stations. [In water year 2002, samples for the analysis of whole-water-recoverable trace elements were collected at 44 randomly selected long-term fixed station types and 2 Background stations. Samples for the analyses of trace elements and polyaromatic hydrocarbons in streambed sediments were collected at 20 of the 44 randomly selected long-term fixed station types and both the Background stations where whole-water-recoverable trace metals were collected.] 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. 10). 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.

<u>Hydrologic Benchmark Network</u> 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 guality 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. For the period 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 guality 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/

<u>The National Atmospheric Deposition Program/</u> <u>National Trends Network</u> (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/.

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

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents 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 waterresources 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 semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program is available through the world wide web at http:// water.usgs.gov/nawqa/

Long Island-New Jersey Coastal Plain (LINJ) NAWQA fixed stations published in this report (fig.13) 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 41. 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.14) are: Delaware River at Trenton, NJ (01463500); Little Neshaminy Creek at Valley Rd. near Neshaminy, PA (01464907); French Creek near Phoenixville, PA (01472157); and Schuylkill River at Philadelphia, PA (01474500).

EXPLANATION OF THE RECORDS

The water-quality records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain surface-water and groundwater-quality data. The locations of the stations where the data were collected are shown in figures 12-14, and 40-41. 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. 11). 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 11.--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 12-14.

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 continuingrecord 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 INVESTI-GATIONS" 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.

±0.2 °C
greater of ± 5 uS/cm or 3%
±0.3 units
greater of ±0.3 mg/Lor 5%
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.

Nater Temperature	±1.5 °C
Specific Conductance	±25 %
рН	\pm 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 waterdischarge 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, kjeldahl nitrogen in bottom material, and total phosphorus 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-Qual-ity 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.

<u>Analyses of pesticides in surface-water and</u> <u>ground-water samples (schedule 2001)</u>

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, ug/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 (ug/L)
82660	2,6-Diethylaniline	0.006
49260	Acetochlor	0.006
46342	Alachlor	0.0045
34253	alpha-HCH	0.0046
39632	Atrazine	0.007
82686	Azinphos-methyl	0.05
82673	Benfluralin	0.010
04028	Butylate	0.002
82680	Carbaryl	0.041
82674	Carbofuran	0.020
38933	Chlorpyrifos	0.005
82687	cis-Permethrin	0.006
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
39415	Metolachlor	0.013
82630	Metribuzin	0.006
82671	Molinate	0.0016
82684	Napropamide	0.007
34653	p,p'-DDE	0.0025
39542	Parathion	0.010

PCode	Common Name	LRL (ug/L)
82667	Parathion-methyl	0.006
82669	Pebulate	0.0041
82683	Pendimethalin	0.022
82664	Phorate	0.011
04037	Prometon	0.015
04024	Propachlor	0.010
82679	Propanil	0.011
82685	Propargite	0.023
82676	Propyzamide	0.0041
04035	Simazine	0.005
82670	Tebuthiuron	0.016
82665	Terbacil	0.034
82675	Terbufos	0.017
82681	Thiobencarb	0.0048
82678	Tri-allate	0.0023
82661	Trifluralin	0.009

<u>Analyses of volatile organic compounds in</u> <u>surface-water and ground-water samples</u> (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 VOC's 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 (ug/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 methoddetection 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.

- 2. If a sample is diluted for any reason. The method reporting level is multiplied by the dilution factor to obtain the adjusted method reporting level. Values below the lowest calibration standard, multiplied by the dilution factor are qualified with an "E". For example, a value of 0.19 in a 1:2 dilution is reported as E0.1.
- 3. If the set spike has recoveries out of the specified range (60-140%).
- 4. If the analyte is also detected in the set blank. If the value in the sample is less than five times the blank value and greater than the blank value plus the long term method detection limit, the value is preceded by an "E" to indicate that the analyte is positively identified but not positively quantified because the analyte was also detected in the blank.

Only VOCs measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.

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

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

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

PCODE.--The EPA/USGS parameter code

COMPOUND NAME.--IUPAC nomenclature.

LRL.--Laboratory reporting level.

Compound Name	LRL (ug/L)
Carbon disulfide	0.075
1,1,1-Trichloroethane	0.032
1,1,2,2-Tetrachloroethane	0.09
1,1,2-Trichloroethane	0.064
1,1-Dichloroethane	0.035
	Compound Name Carbon disulfide 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane
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PCode	Compound Name	LRL (ug/L)	PCode	Compound Name	LRL (ug/L)
34501	1,1-Dichloroethylene	0.044	81593	Methyl acrylonitrile	0.57
77168	1,1-Dichloropropene	0.05	77297	Bromochloromethane	0.07
77443	1,2,3-Trichloropropane	0.16	49991	Methyl acrylate	1.4
77651	1,2-Dibromoethane	0.036	77424	Methyl iodide	0.20
32103	1,2-Dichloroethane	0.13	78032	tert-Butyl methyl ether	0.17
34541	1,2-Dichloropropane	0.029	34413	Bromomethane	0.26
34546	trans-1,2-Dichloroethylene	0.032	34418	Chloromethane	0.17
77170	2,2-Dichloropropane	0.05	34423	Dichloromethane	0.16
73547	trans-1,4-Dichloro-2-butene	0.7	81595	2-Butanone	5.0
77103	2-Hexanone	0.7	78133	4-Methyl-2-pentanone	0.37
81552	Acetone	7.1	85795	m- and p-Xylene	0.06
34215	Acrylonitrile	1.2	34696	Naphthalene	0.50
77613	1,2,3-Trichlorobenzene	0.27	77275	2-Chlorotoluene	0.026
77221	1,2,3-Trimethylbenzene	0.12	77135	o-Xylene	0.07
34551	1,2,4-Trichlorobenzene	0.07	77356	4-Isopropyl-1-methylbenzene	0.07
77222	1,2,4-Trimethylbenzene	0.056	49999	1,2,3,4-Tetramethylbenzene	0.23
77226	1,3,5-Trimethylbenzene	0.044	77173	1,3-Dichloropropane	0.12
34566	1,3-Dichlorobenzene	0.030	78109	3-Chloropropene	0.07
34571	1,4-Dichlorobenzene	0.050	77128	Styrene	0.042
77223	Isopropylbenzene	0.06	34475	Tetrachloroethylene	0.027
77342	Butylbenzene	0.19	77220	o-Ethyl toluene	0.06
77224	n-Propylbenzene	0.042	77277	4-Chlorotoluene	0.056
34536	1,2-Dichlorobenzene	0.048	34010	Toluene	0.05
77350	sec-Butylbenzene	0.032	34699	trans-1,3-Dichloropropene	0.09
77353	tert-Butylbenzene	0.048	39180	Trichloroethylene	0.038
34030	Benzene	0.021	34488	Trichlorofluoromethane	0.09
81555	Bromobenzene	0.036	39175	Vinyl chloride	0.11
50002	Bromoethene	0.10		•	
32104	Bromoform	0.06	Polyaro	matic hydrocarbons in strea	m bottom
32102	Tetrachloromethane	0.060	material	<u> </u>	
34301	Chlorobenzene	0.028	Strop	m had sadiments collected at stat	ions in the
32105	Dibromochloromethane	0.18	Ambient	Stream Monitoring Network were a	analyzed for
34311	Chloroethane	0.12	polyarom	atic hydrocarbons during the mon	ths of
32106	Chloroform	0.024	August ar	nd September. Full parameter nar	nes are
77093	cis-1,2-Dichloroethylene	0.038	listed in th	ne table below; abbreviated param	leter names
34704	cis-1,3-Dichloropropene	0.09	are used	in the station records.	
82625	1,2-Dibromo-3-chloropropane	0.05			
30217	Dibromomethane	0.050	PCode	Compound Name	
32101	Bromodichloromethane	0.048	39519	Total Polychlorinated Byphenyls	
34668	Dichlorodifluoromethane	0.18	49429	Acenaphthene	
81577	Diisopropyl ether	0.10	49428	Acenaphthylene	
77562	1,1,1,2-Tetrachloroethane	0.030	49434	Anthracene	
34396	Hexachloroethane	0.19	49436	Benzo(a)anthracene	
81576	Diethyl ether	0.17	49458	Benzo(b)fluoranthene	
50004	Ethyl tert-butyl ether	0.054	49397	Benzo(k)fluoranthene	
50005	tert-Pentyl methyl ether	0.08	49408	Benzo(g,h,i)perylene	
34371	Ethylbenzene	0.030	49389	Benzo(a)pyrene	
77652	1,1,2-Trichlorotrifluoroethane	0.060	49450	Chrysene	
81607	Tetrahydrofuran	2.2	49451	p-Cresol	
39702	Hexachlorobutadiene	0.14	49411	4h-Cyclopenta(d,e,f)phenanthrene	
50000	1,2,3,5-Tetramethylbenzene	0.20	49461	Dibenzo(a,h)anthracene	
73570	Ethyl methacrylate	0.18	49403	1, 2-Dimethylnaphthalene	
81597	Methyl methacrylate	0.35	49404	1, 6-Dimethylnaphthalene	

PCode	Compound Name
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/L.

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

Analysis of acid neutralizing capacity (ANC)

Prior to October 1, 1996, ANC was called 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 downstreamorder sequence.

Remark codes

The following remark codes may appear with the waterquality data in this section:

PRINTED OUTPUT REMARK

- E Value is estimated.
- > 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.
- N Presumptive evidence of presence of material.
- U Material specifically analyzed for, but not detected.
- A Value is an average.
- V Analyte was detected in both the environmental sample and the associated blanks.
- S Most probable value.

Quality-control data

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

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

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

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

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and

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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-andtubing 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 (ug/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 shortterm projects or periodically in the case of long-term projects. Hydrologic data from these projects are entered into the NWIS data base.

Aquifer Flow and Chemistry in Salem County

- Assessment of Current Ground-Water and Surface-Water Conditions within the NJ-NY Highlands Area
- Delaware River Basin National Water Quality Assessment
- Development of Database, Models, and Determination of Vulnerability of Public Supply Wells and Surface-Water Intakes in New Jersey for Chemicals of Concern 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
- Hydrogeologic Investigation to Ensure Sustainable Water Supply for Cape May County
- Hydrogeologic Support to McGuire Air Force Base, Burlington County, New Jersey

- 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 Hydrogeology and Volatile Organic Compound Contamination in the Pohatcong Valley, 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
- Natural Radionuclide Occurrence in Principal New Jersey Aquifers
- New Jersey Drought Monitoring System
- New Jersey-Long Island National Water Quality Assessment
- New Jersey Tide Telemetry System
- Pascack Brook Flood Warning System
- Passaic Flood Warning System
- Passaic River Basin Flow Model
- Program to Maintain and Update Ground-Water Models to Evaluate Continued Water-Supply Development
- Quality of Water Data Collection Network
- Quantification of Radium Mass Loading and Radioactivity in the Shallow Aquifer from the Water-Softening-Treatment Backwash Waste Stream that is Discharged to Septic Systems
- Rahway Flood Warning System
- 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
- Water-Quality Characteristics of Upper-Delaware Watershed

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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. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound 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. (See also "Biomass" and "Dry weight")

- **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 7day minimum values are reported herein for the calendar year and the water year (October 1 through 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 percentage weight 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 collected. 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" and "Dry mass")
- **Aspect** is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typi-

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

- **Bankfull stage**, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.
- **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 peak flows per year will be published. (See also "Peak flow")
- **Base flow** is sustained flow of a stream in the absence of direct runoff. It includes natural and humaninduced 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 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.
- Bedload discharge (tons per day) is the 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 suspendedsediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")
- **Bed material** is the sediment mixture of which a stream-bed, 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 that 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. Blue-green 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")

- Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnutshaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.
- **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 cell-size variation among the algal species. Cell volume (mm³) is determined by obtaining critical cell measurements or 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 $4/3 \text{ pr}^3$ cone $1/3 \text{ pr}^3$ h cylinder pr 3 h.

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

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

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

- **Channel bars**, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.
- 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 warmblooded 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 water 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 bound-aries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.
- **Contents** is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.
- **Continuous-record station** is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.
- **Control** designates a feature in the channel that physically affects 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-foot" sometimes is used synonymously with "cubic foot 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 24-hour day. (See also "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 latitudelongitude, 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 sediment 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 chemicals, 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-onevaporation" 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:

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

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")
- **Embeddedness** is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")
- **Enterococcus bacteria** are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of entero-cocci 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 reddishbrown precipitate after incubation at 41°C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococcus 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 warmblooded 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 (nutrient medium for bacterial growth). Their concentrations

are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

- Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (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 MDL. 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 MDL 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 semivolatile and extractable by ethyl acetate from air-dried streambed sediment. 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 sediment.
- **Fecal coliform bacteria** are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")
- **Fecal streptococcal bacteria** are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (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 per-

centile 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 greater 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 often is 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.
- 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.
- **Geomorphic channel units**, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.
- 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, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually

included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

- 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 commonly is 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 that 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 index stations** referred to in this report are 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")
- **Island**, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

- 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 (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to estab-lish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV-a term that is no longer used.]
- Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.
- Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.
- 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 usually are 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 "Suspendedsediment 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-nymph-adult.
- Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. 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, mg/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, mg/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, mg/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 milligrams per liter 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.
- **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 gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of

known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

- **Nanograms per liter** (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.
- National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a 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 United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States 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 sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).
- Organic mass or volatile mass of a 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, sedi-graph) 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
Cobble	64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, 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 of 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 a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.
- **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. Although 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 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected,

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 commonly are known as algae. (See also "Plankton")
- **Picocurie** (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).
- Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/ mL) of sample.
- **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.
- **Pool**, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.
- **Primary productivity** is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic 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. The 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 with unenriched water samples. 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. The 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 elements 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.
- **Reach**, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.
- 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 nonexceedance 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 100year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about oneeighth 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 nonexceedances of the 7Q10 occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. 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")

- **Riffle**, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.
- **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 is used to denote location along a river.
- **Run**, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.
- **Runoff** is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, 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.
- 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 affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of pre-cipitation.

- Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.
- **Seven-day, 10-year low flow** $(7Q_{10})$ is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")
- **Shelves**, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.
- **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.
- Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.
- **Soil-water content** is the water lost from the soil upon drying to constant mass at $105 \times C$; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.
- **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 75percent 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 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 water, to

evaluate mixing of different water, 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 the percentage covered by fine sediment:
 - 0 no gravel or larger substrate
 - 1 > 75 percent
 - 2 51-75 percent
 - 3 26-50 percent
 - 4 5-25 percent
 - 5 < 5 percent
- 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 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.
- **Suspended** (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally 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 dissolu-

tion 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 mate-rial collected on the filter or, more commonly, by difference, on the basis of 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 foot 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/d) 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 dif-

ference, on the basis of 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 hydro-logic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected waterquality conditions in relation to causative factors, such as land use and contaminant sources.
- Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.
- **Taxonomy** is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

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

- **Thalweg** is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).
- **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 timeweighted 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 warmblooded 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 goldengreen metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters 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 particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for wholewater 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 "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")
- **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")
- **Transect**, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.
- 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 turbidity in the USGS

include those that conform to U.S. 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.
- **Unconfined aquifer** is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

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.
- Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.
- Water-table aquifer is an unconfined aquifer within which the water table is found.
- 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, 2002, is called the "2002 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 often are 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 USGS publishes a series of manuals, the Techniques of Water-Resources Investigations, 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.

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- 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

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- 2-D1. Application of surface geophysics to groundwater 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.

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- 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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Section F. Drilling and Sampling Methods

2-F1. Application of drilling, coring, and sampling techniques to test holes and wells, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

- 3-A1. General field and office procedures for indirect discharge measurements, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.
- 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-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS– TWRI book 3, chap. A3. 1968. 60 p.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.
- 3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS– TWRI book 3. chap. A5. 1967. 29 p.
- 3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.
- 3-A7. Stage measurement at gaging stations, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.
- 3-A8. Discharge measurements at gaging stations, by T.J. Buchanan and W.P. Somers: USGS– TWRI book 3, chap. A8. 1969. 65 p.
- 3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.
- 3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.
- 3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.
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- 3-A15. Computation of water-surface profiles in open channels, by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.
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- 3-A17. Acoustic velocity meter systems, by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.
- 3-A18. Determination of stream reaeration coefficients by use of tracers, by F.A. Kilpatrick,

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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Section C. Sedimentation and Erosion Techniques

- 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.
- 4-A3. Statistical methods in water resources, by D.R. Helsel and R.M. Hirsch: USGS-TWRI book 4, chap. A3. 1991. Available only online at http:// water.usgs.gov/pubs/twri/twri4a3/. (Accessed August 30, 2002.)

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
 L.J. Britton and P.E. Greeson, editors: USGS– TWRI book 5, chap. A4. 1989. 363 p.
- 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.
- 5-A6. Quality assurance practices for the chemical and biological analyses of water and fluvial sediments, by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5-C1. Laboratory theory and methods for sediment analysis, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

- 6-A1. A modular three-dimensional finite-difference ground-water flow model, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 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.
- 6-A4. A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions, by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.
- 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.

6-A7. User's guide to SEAWAT: A computer program for simulation of three-dimensional variabledensity ground-water flow, by Weixing Guo and Christian D. Langevin: USGS-TWRI book 6, chap. A7. 2002. 77p.

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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.

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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: USGS–TWRI book 8, chap. A2. 1983. 57 p.

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.
- 9-A2. National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for

Water Sampling, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

- 9-A3. National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A3. 1998. 75 p.
- 9-A4. National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS-TWRI book 9, chap. A4. 1999. 156 p.
- 9-A5. National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.
- 9-A6. National Field Manual for the Collection of Water-Quality Data: Field Measurements, edited by F.D. Wilde and D.B. Radtke: USGS– TWRI book 9, chap. A6. 1998. Variously paginated.
- 9-A7. National Field Manual for the Collection of Water-Quality Data: Biological Indicators, edited by D.N. Myers and F.D. Wilde: USGS– TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.
- 9-A8. National Field Manual for the Collection of Water-Quality Data: Bottom-material samples, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.
- 9-A9. National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

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01409815 West Branch Wading River at Maxwell Undeveloped Land Use Indicator Station Ambient Stream Monitoring Network (file photograph, U.S. Geological Survey, West Trenton, New Jersey)









Figure 13. Location of stations in the Long Island-New Jersey National Water-Quality Assessment Program, surface-water low-intensity-phase network, water year 2002.



Figure 14. Location of the stations in the Delaware River National Water-Quality Assessment Program, surface-water fixed station network, water year 2002.







Figure 16. Cataloging units and codes in New Jersey. (Modified from Seaber and others, 1987)

01367625 WALLKILL RIVER AT SPARTA, NJ

LOCATION.--Lat 41°02'25", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

HARD-
NESS
 TOTAL
(MG/L
AS
CACO3)
(00900)
240
210
170
250

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	56.8	24.1	1.94	71.1	174	152	.2	10.8	18.5	480	447	<.030	.15
14 JUN	50.0	20.8	1.51	70.4	145	151	E.1	4.8	21.6	422	410	<.030	.24
13 AUG	39.9	17.4	1.56	57.1	126	115	.1	3.1	18.2	388	330	.030	.34
06	58.4	25.4	2.26	57.1	198	125	.1	10.2	14.9	440	418	<.030	.19

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 28 FEB 14 JUN 13 AUG	<.030 <.030 .040	1.40 .61 .35	.008 .007 .014	1.6 .85 .69	.06 .04 .12	.008 .011 .026	 <.020 <.020	.016 .018 .045	.3 .4 1.5	<.1 <.1 <.1	2.4 2.6 3.5	.3 .4 1.5	<1.1 E1.8 <1.2
06	<.030	1.27	.003	1.5	.07	.043	.037	.056	.5	<.1	2.1	.5	<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	2
FEB			
14		30	7
JUN			
13	5.70	20	8
AUG			
06	.800	30	<1

< -- Less than E -- Estimated value

01367625 WALLKILL RIVER AT SPARTA, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
08	1105	<20	<100	<10	05	1107	80	<100	90
15	1100	300	<100	240					
22	1120	20	<100	10					
29	1052	40	<100	170					

Remark codes used in this report: < -- Less than

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 years 1999, 2001 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analysis were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 07	0800	2.2	.086	.065	747	85	10.4	8.0	632		6.0	230	50.3
06	0830	4.0	.088	.065	752	86	12.4	7.7	784	-3.0	.0	210	50.3
MAY 23	0745	4.1	.145	.109	751	87	9.0	7.6	412	5.0	13.0	130	30.8
07	0730	2.6	.152	.113	750	66	5.8	8.0	671	10.0	20.5	230	53.8
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)
NOV 07	26.0	2.04	32.7	202	69.5	E.1	8.0	19.5	334	330	.040	.24	.050
06 MAY	21.0	1.60	58.3	155	116	.2	7.1	29.4	390	379	.070	.30	.100
23 AUG	11.9	.95	32.9	95	62.5	<.1	4.6	15.9	223	217	<.030	.27	<.030
07	23.7	2.21	44.8	200	92.3	.2	9.3	13.5	406	361	<.030	.35	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
07 FEB	.23	<.003	.46	.06	.005		.013	.6	<.1	3.7	.6	3.2	
06 MAY	.49	.007	.78	.03	E.002	<.020	.015	.4	<.1	3.1	.4	<1.0	
23	.16	.003	.43	.07	.009	<.020	.024	1.0	<.1	4.2	1.0	E1.8	2.70
07	.27	<.003	.62	.03	.029	.039	.042	.4	<.1	5.3	.4	E2.1	2.30

Remark codes used in this report:

< -- Less than E -- Estimated value
01367715 WALLKILL RIVER AT SCOTT ROAD, AT FRANKLIN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 07 FEB 06 MAY 23 AUG 07	20 20 20	1 8 6
0/	30	<1

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	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)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FEB 06	0830	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
FEB 06 <.1	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)
META/ METHYL PARA- O- TETRA- TRI- TRI- ENE XYLENE XYLENE CHLORO- CHLORO- VINYL CHLO- WATER WATER ETHYL- ETHYL- FLORO- CHLO- RIDE UNFLIRD WHOLE STYRENE ENE TOLUENE ENE METHANE RIDE DATE TOTAL REC TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL (UG/L) (UG/L) <td< td=""><td>FEB 06</td><td><.1</td><td><.2</td><td><.1</td><td><.1</td><td><.1</td><td><.2</td><td><.2</td><td><.2</td><td><.1</td><td><.2</td><td><.1</td><td><.1</td><td>E.2</td></td<>	FEB 06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.2
FEB 06 <.2 <.1 <.1 <.1 <.1 <.2 <.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	3 16	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 23	0745	<.006	<.004	<.005	.007	<.010	<.041	<.005	<.018	<.003	E.004	<.005	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
23	<.004	<.035	E.007	<.050	E.003	<.006	<.007	<.022	E.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	T r xC .)						

MAY 23... <.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				
08	1033	1100	<100	70	05	1035	300	300	170
15	1028	1100	400	660					
22	1100	40	<100	40					
29	1018	500	400	240					

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1040		C 0	150	114	750		10.0	7.6	608	15 0	0 5	240
20 FEB	1040		0.9	.152	•114	/58	00	10.0	/.0	608	15.0	9.5	240
20	1000	7.3	2.4	.082	.063	752	110	14.0	7.9	720	9.5	4.5	230
04 AUG	1220	47	4.0	.172	.130	756	93	8.6	7.8	564		18.5	180
13	1140	6.5	3.0	.120	.092	756	73	6.1	7.7	917		24.0	270

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00225)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00235)	SODIUM, DIS- SOLVED (MG/L AS NA)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (20410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00255)	SULFATE DIS- SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70200)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70201)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00523)
NOV 28	55.5	24.7	3.39	40.0	192	84.0	.1	8.0	29.3	390	365	<.030	.38
FEB 20 JUN	52.2	23.5	2.85	51.0	169	103	E.1	4.3	29.8	384	380	<.030	.35
04 AUG	44.4	17.8	1.85	37.4	159	72.3	.1	6.7	16.4	343	296	.020	.40
13	61.3	29.5	8.28	69.6	215	128	.1	7.9	24.7	514	481	.050	.51

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 28 FEB	<.030	1.02	.010	1.4	<.02	.023		.058	<.1	<.1	5.0	<.1	E1.9
20 JUN	.030	2.72	.027	3.1	.02	.015	<.020	.033	.4	<.1	3.5	.3	E1.1
04 AUG	.050	.71	.010	1.1	.08	.036	.025	.054	.6	<.1	4.8	.6	E1.5
13	.040	4.78	.046	5.3	.07	.074	.056	.089	.4	<.1	4.0	.4	<1.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01367770 WALLKILL RIVER NEAR SUSSEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	
	(32209)	(01020)	(00530)	
NOV				
28		30	4	
FEB 20		30	4	
04 AUG	1.70	30	11	
13	1.50	90	4	

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				
08	1010	110	40	<100	05	1010	80	100	60
15	1050	230	100	280					
22	1010	110	100	40					
29	0950	500	500	450					

Remark codes used in this report: < -- Less than

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ

LOCATION.--Lat 41°10'00", long 74°43'38", 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, 1.5 mi southwest of Wykertown, and 1.7 mi northeast of Culvers Lake.

DRAINAGE AREA.--1.99 mi².

PERIOD OF RECORD.--Water years 1999, 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analysis were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE TIME	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC 12 1100 FEB 13 1100	.6	.067 .064	.050 .048	760 748	101 102	13.7 14.2	7.7 7.6	378 384	5.0 2.0	2.5 1.0	120 110	38.6 35.2
MAY 29 1045 AUG 07 1030	4.0 .9	.187 .108	.146 .080	750 745	105 87	9.9 8.2	7.6 8.0	306 430	20.0 23.0	17.5 17.0	84 130	27.1 42.5

				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)	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)
DEC													
12	5.48	2.72	20.5	62	59.0	E.1	6.2	25.1	220	196	<.030	.21	<.030
FEB													
13	5.23	1.87	26.2	42	62.5	<.1	4.4	36.7	208	198	<.030	.16	.500
MAY													
29	4.09	1.25	22.6	49	51.2	E.1	3.7	15.1	182	155	<.030	.33	.040
AUG													
07	6.04	1.81	29.6	80	76.4	E.1	11.3	10.3	264	229	<.030	.22	<.030

	NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-
	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A
	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-
	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC
	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	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)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)
	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)
DEC													
12	.18	<.003	.39	.05	.010		.015	.3	<.1	2.7	.3	E1.6	
FEB													
13	.26	<.003	.42	.03	.007	<.020	.012	.3	<.1	2.5	.3	<1.0	
MAY													
29	.13	.005	.46	.12	.030	<.020	.060	.8	<.1	4.6	.8	E1.6	7.20
AUG													
07	.51	<.003	.73	.03	.049	.053	.053	.3	<.1	3.4	.3	E1.1	.600

Remark codes used in this report:

< -- Less than

E -- Estimated value

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 12 FEB 13 MAY 29 AUG 07	10 <13 E12 E11	2 <1 10 <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 13	1100	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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 1	3 .3	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 29	1045	<.006	<.004	<.005	.009	<.010	<.041	<.005	<.018	<.003	E.006	<.005	<.002

01367780 PAPAKATING CREEK NEAR WYKERTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 29	<.004	<.035	<.027	<.050	E.006	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л С						

MAY 29...

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

<.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				
08	1115	40	200	100	05	1115	130	800	90
15	1120	170	<100	90					
22	1053	40	100	100					
29	1118	500	200	250					

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ

LOCATION.--Lat 41°09'45", long 74°40'31", Sussex County, Hydrologic Unit 02020007, at bridge on County 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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH				
		CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-			HARD-
		INST.	TTY	ANCE 254 MM	ANCE 280 NM	PRES-	SOLVED	OVVOEN	WHOLE	CIFIC	TEMPED	TEMPED	NESS
		CUBIC	F LELD WATED	234 NM,	200 NM,	(MM	(PER-	DIGEN,	(GTAND-	DUCT-	ATTIDE	ATTIDE	(MC/T
DATE	TTME	PER	UNFLTRD	(INTTS	(IINTTS	OF	SATTIR-	SOLVED	ARD-	ANCE	ATR	WATER	AS
DITE	11111	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													
20	1150	2.1	1.7	.059	.046	746	103	12.4	7.8	458	16.5	6.5	180
FEB													
20	1210	3.6	1.3	.065	.049	750	112	14.2	7.9	472	14.0	4.5	160
JUN													
13	1310	12	17	.237	.179	729			7.8	353		18.0	110
AUG													
22	1110	.85	3.5	.091	.069	755	117	10.5	8.2	487	27.5	20.0	190

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 UNFLIRD 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 20	59.1	7.93	1.54	17.2	144	42.1	<.1	7.6	34.2	276	262	<.030	.15
20 JUN	53.6	7.47	1.65	24.3	85	54.0	<.1	5.6	58.0	274	258	.030	.16
13 AUG	35.9	5.07	1.25	22.2	83	44.8	.1	8.5	17.4	226	188	.040	.43
22	63.9	8.41	2.20	18.3	145	40.0	E.1	9.4	33.6	276	269	<.030	.24

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 20 FEB	<.030	1.29	<.003	1.4	.05	.007		.013	.2	<.1	2.0	.2	<1.0
20 JUN 13	<.030 .040	.56	.005	.72	<.02 .08	.006	<.020 <.020	.010	.3	<.1 <.1	2.4 6.3	.3	<1.0 E1.6
AUG 22	<.030	1.32	.054	1.6	.11	.029	.063	.045	.7	<.1	3.1	.6	E1.1

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01367800 PAPAKATING CREEK AT PELLETTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 20		<13	5	
ГЕВ 20		E10	7	
13	2.10	10	17	
22	16.3	10	6	

			BERYL-			CHRO-			MANGA-				
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
D3.000	TT1	TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME												(UG/L
		(01002)	(01007)	AS BE)	AS D) (01022)	(01027)	(01034)	AS CO)	A5 FE)	(01051)	(01055)	(71900)	A5 NI) (01067)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01007)
AUG													
22	1110	<13	13.2	<.06	13	<.04	<.8	1.0	220	<1	83.1	<.01	<1
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
				גם	ΨD	(UC/I	ERABLE	(IIC/I					
				DA									
						(01147)	(01077)	(01092)					
						(01147)	(01077)	(01092)					

AUG 22... E.2 <.05 2

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				
08	1030	80	200	50	05	1030	1700	1200	290
15	1035	230	200	200					
22	1115	80	100	200					
29	1010	1300	1500	1300					

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, Hydrologic Unit 02020007, at bridge on Quarryville-Milton Road, 2.0 mi south of New York-New Jersey State line, 3.0 mi south of Unionville.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--Water years 1963-78, 1991-97, and 2001 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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													
20	0940	14	7.2	.116	.090	746	95	11.3	7.5	646	7.5	7.0	230
FEB													
12	1200	68	7.3	.094	.070	749	102	13.8	7.9	608	5.0	2.0	180
JUN													
04	1000	175	19	.242	.182	756	73	6.8	7.1	437	19.0	18.0	140
AUG													
13	0920	62	6.5	.150	.111	755	98	8.0	7.9	644		25.0	200

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLIRD 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 20	53.8	22.7	2.90	38.3	204	78.5	E.1	4.4	25.3	360	354	.060	.33
FEB	40.2	15 1	2.20	40.0	114	0F C		1.0	44 1	240	215	< 020	22
JUN	40.3	12.1	2.30	40.2	114	82.0	E.1	4.0	44.L	342	315	<.030	. 33
04 AUG	37.3	11.5	1.55	30.1	109	57.6	E.1	6.5	21.2	280	233	.030	.47
13	49.2	19.8	4.59	45.2	162	87.3	.1	3.5	20.0	351	333	<.030	.40

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 20 FEB 12 JUN	.050 <.030	1.25 1.44	.005 .010	1.6 1.8	.08 .06	.020 .014	 <.020	.045 .029	.5 .8	<.1 <.1	3.8 3.6	.5 .8	<1.0 <1.0
04 AUG	.070	.40	.012	.86	.12	.038	.022	.080	1.3	<.1	6.0	1.3	<1.2
13	<.030	1.37	.024	1.8	.22	.034	<.020	.067	1.2	<.1	4.2	1.2	2.2

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	CHLORO- PHYLL A		RESIDUE 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		30	10	
FEB				
12		20	11	
JUN				
04	2.30	20	26	
AUG				
13	30.9	<13	10	

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
13	0920	E2	28.5	<.06	48	<.04	<.8	1.7	290	<1	140	<.01	3
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					
				AUG	ł								
				1	3	E.3	<.05	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)
MAY					JUN				
08	0950	80	300	10	05	0945	110	<100	60
15	1110	1300	1500	600					
22	1050	130	300	20					
29	0930	5000	2400	570					

01368820 DOUBLE KILL AT WAWAYANDA, NJ

LOCATION.--Lat 41°11'13", long 74°25'13", Sussex County, Hydrologic Unit 02020007, 1,500 ft east of Wawayanda, 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.

- REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). This station was sampled only three times in water year 2002 because of no-flow conditions in the August-Septmember sampling period.
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and entercocccus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 17 FEB	1050	.44	2.1	.067	.053	733	73	9.5	7.0	236	4.0	3.0	97
14 JUN 13	1030	3.5 9.2	1.3	.122	.088	739			6.9 7.8	260 264	-1.0 15.0	21.5	66
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 17 FEB	26.9	7.27	1.36	6.62	77	10.6	E.1	13.1	24.9	128	138	<.030	.13
14 JUN 13	16.7	5.87	1.01	20.5	49	38.8	E.1	3.5	11.5	132	127	<.030	.26

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 17 FEB 14 JUN	<.030 <.030	.17 <.04	<.003 <.003	.30 	.05 .09	.005 .006	 <.020	.015 .022	.3 .9	<.1 <.1	1.9 5.3	.3 .9	<1.1 2.3
13	.030	E.02	<.003		.09	.011	<.020	.022	.5	<.1	5.7	.5	<1.4

	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)
DEC			
17		E10	1
FEB			
14		20	9
JUN			
13	2.00	E10	3

Remark codes used in this report:

< -- Less than E -- Estimated value

70

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 UNFLIRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD 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	0950	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 14	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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)		
	FEB 1	3 .4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 13	1030	<.006	<.004	<.005	.012	<.010	<.041	<.005	<.018	<.003	E.005	<.005	<.002
DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 13	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.022	м	<.011	<.005	<.02	<.034

	TRI-
	FLUR-
	ALIN
	WAT FLT
	0.7 U
DATE	GF, REC
	(UG/L)
	(82661)
JUN	
13	<.009

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

01368820 DOUBLE KILL AT WAWAYANDA, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
08	0945	<20	<100	<10	05	0950	<20	<100	40
15	0945	<20	<100	20					
22	0930	<20	<100	20					
29	0935	40	<100	20					

Remark codes used in this report: < -- Less than

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'57", long 73°59'23", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0800	29	7.5	.108	.076	768	66	8.3	7.8	518	1.0	6.0	130
14 MAY	0830	17	5.1	.077	.054	768	76	10.8	7.8	564	-2.0	1.0	140
14 AUG	0715	94	27	.353	.278	747	71	7.6	7.1	202	10.0	11.5	56
29	0715	48	20	.130	.091	754	64	5.6	7.8	435	17.0	21.5	110

					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													
14	40.4	7.37	1.94	43.0	103	85.0	E.1	5.9	14.4	268	261	.090	.29
FEB													
14	43.2	7.95	1.86	47.0	98	93.8	E.1	2.3	18.2	290	276	<.030	.32
MAY													
14	16.9	3.36	2.12	13.7	44	22.2	<.1	4.5	10.5	122	102	.100	.63
AUG													
29	33.5	6.64	1.97	42.8	74	76.1	<.1	3.3	11.8	257	221	<.030	.48

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
14	.090	.24	E.010	.53	.26	.006		.046	1.5	<.1	5.1	1.5	2.0
FEB													
14	.040	.60	<.003	.92	.19	.010	<.020	.041	1.5	<.1	4.0	1.4	2.5
MAY													
14	.100	.47	.009	1.1	1.27	.074	.037	.175	3.3	<.1	8.4	3.2	2.9
AUG													
29	.047	.17	.007	.65	.65	.015		.110	3.5	<.1	5.9	3.5	2.4

Remark codes used in this report:

< -- Less than

E -- Estimated value

01377000 HACKENSACK RIVER AT RIVERVALE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DA	TE	CHLORO- 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 1	т Д		50	13					
				FEE 1	3		50	13					
				MAY 1	4	3 40	30						
				AUG	; ;	67 4	50	27					
DATE	TIME	SAMF TYP	PLE PE	-	PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 29	0715	ENVIRONM	ENTAL							E2	75.0	<.06	58
29	0715	BED MATE	RIAL		7.70	70	4700	1.1	<.2				
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	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 29 29	E.02	<.8 	9.0 	470 	1 	210	E.01 	<1 	<.4 	<.05 	22 	 <1	.017
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 29 29	 1.1	 1.1	 6	 5000	 3.9	 180	 .03	 2.1	 <1	 22	 M	 E3	 E3
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 29													
29	м	E6	E13	E14	E22	E28	E26	E8	E20	E24	E10	E48	E26
DATE	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)
AUG 29 29	 <50	 <50	 <50	 <50	 <50	 <50	 E5	 <5	 <50	 E12	 E28	 <50	 E8

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

01377000 HACKENSACK RIVER AT RIVERVALE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
29			
29	E39	1	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)
JUL					AUG				
10	0925	5000	3400	5100	07	1059	800	200	130
17	1105	20	<100	100					
24	1103	800	100	240					
31	1112	140	<100	80					

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

LOCATION.--Lat 40°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 years 1999, 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
11 FEB	1000	2.2	.132	.104	772	72	8.9	7.6	431	8.0	6.5	140	43.5
06 MUL	1000	3.9	.061	.045	767	95	13.4	7.9	681	1.0	1.5	210	65.7
27	1030	2.7	.091	.067	757	66	5.8	7.6	571	24.5	21.0	210	65.5
12	1000	2.2	.078	.058	760	79	7.7	7.5	603	18.0	16.5	230	70.9
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)
DEC													
11	8.26	2.86	21.0	111	48.6	<.1	12.1	20.9	244	229	.030	.29	.080
06 JUN	11.4	2.36	45.0	154	97.8	<.1	14.0	27.9	376	363	.130	.32	.130
27 SEP	11.2	2.32	30.9	150	70.7	<.1	16.5	26.4	367	320	.150	.38	.130
12	11.8	2.40	39.4	161	79.2	<.1	16.0	28.1	397	351	<.030	.37	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
11 FEB	1.06	.010	1.4	.08	.041		.076	.5	<.1	3.9	.5	E1.6	
06	1.49	.027	1.8	.09	.014	<.020	.037	.6	<.1	2.4	.6	<1.0	
27 SEP	1.30	.071	1.7	.04	.062	.046	.089	.5	<.1	2.9	.5	<1.0	1.40
12	1.42	.029	1.8	.07	.035	.036	.044	.3	<.1	3.0	.3	E2.2	2.70

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 11 FEB 06 JUN 27 SEP 12	60 70 70 80	8 8 7 8
12	80	8

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD 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	.9	.6	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 06	<.1	<.2	.1	.5	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	1.8
	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 0	3 16	<.2	<.2	<.1	<.1	1.9	<.1	.2	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 27	1030	<.006	<.004	<.005	E.005	E.004	E.134	.018	<.018	<.003	E.004	.096	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 27	<.004	<.035	E.014	<.050	E.003	<.006	<.007	<.022	E.01	<.011	E.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	т С)						
				J	UN 27	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				
10	0935	>16000	340000	7000	07	1040	300	<100	330
17	1118	300	500	500					
24	1055	16000	3900	4200					
31	1102	500	100	520					

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value

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." Total nitrogen (00601), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal colliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 .-- Urban Land Use Indicator and Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 5.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH	
			CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-
			INST.	ITY	ANCE	ANCE	PRES-	SOLVED		WHOLE	CIFIC
			CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-
		SAMPLE	FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-
DATE	TIME	TYPE	PER	UNFLTRD (NTII)	(UNITS	(UNITS	OF HG)	SATUR-	SOLVED	ARD	ANCE
			(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)
NOV											
14	1030	ENVIRONMENTAL	.66	1.5	.124	.097	770	42	5.4	7.2	722
MAR											
13	1110	ENVIRONMENTAL	.62	4.4	.123	.089	762	103	11.7	8.5	649
13	1110	SPLIT REPLICATE								8.5	649
13	1111	CONCURRENT REPLICATE								7.9	649
MAY											
28	1200	ENVIRONMENTAL	4.0	6.0	.215	.159	767	70	6.5	7.4	656
AUG											
07	1200	ENVIRONMENTAL	1.2	2.1	.172	.127	764	70	6.4	7.4	535

DATE	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)	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)
NOV													
14 MAR	16.0	5.5	250	72.9	17.0	3.35	41.8	187	113	<.1	14.1	23.9	396
13	9.5	9.5	200	59.3	12.9	2.08	43.2	137	99.2	E.1	8.3	25.1	360
13			210	60.0	14.0	2.30	48.0	140	100	.11		30.0	390
13 MAY			200	58.0	13.0	2.20	44.0	130	100	<.10		32.0	390
28	24.5	19.0	210	64.1	12.4	2.93	40.7	142	99.2	E.1	12.6	22.9	396
AUG	22 F	20.0	100	F2 0	11 4	2 99	21 0	100	77 0		11 7	10.0	242
	SOLIDS, SUM OF	NITRO- GEN,	NITRO- GEN,AM-	NITRO-	NITRO- GEN,AM-	NITRO- GEN,	NITRO- GEN,	NITRO-	NITRO- GEN, PAR	PHOS-	ORTHO- PHOS-	PHOS-	DUOG
DATE	TUENTS, DIS- SOLVED (MG/L) (70301)	DIS- SOLVED (MG/L AS N) (00608)	ORGANIC DIS. (MG/L AS N) (00623)	AMMONIA TOTAL (MG/L AS N) (00610)	ORGANIC TOTAL (MG/L AS N) (00625)	DIS- SOLVED (MG/L AS N) (00631)	DIS- SOLVED (MG/L AS N) (00613)	DIS- SOLVED (MG/L AS N) (00602)	WAT FLT SUSP (MG/L AS N) (49570)	DIS- SOLVED (MG/L AS P) (00666)	DIS- SOLVED (MG/L AS P) (00671)	ORTHO TOTAL (MG/L AS P) (70507)	PHORUS TOTAL (MG/L AS P) (00665)
NOV													
14	399	.090	.37	.070	.42	.17	.007	.54	.04	.029			.052
MAR													
13	336	.050	.28	.050		.84	.018	1.1	.20	.016	<.020		.068
13	342	.060	.20	.050	.33	.730	.015	.93		<.010	.030	.03	.052
13 MAY	155	.060	. 17	.050	. 53	.720	.013	.89		<.010	.029	.03	.052
28	347	.270	.83	.270		1.46	.108	2.3	.21	.066	.040		.140
AUG													
07	285	.080	.41	.080		. 59	.021	1.0	.07	.090	.076		.133

Remark codes used in this report:

< -- Less than E -- Estimated value

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV								
14	.4	<.1	4.3	.4	E1.4		40	1
MAR								
13	1.4	<.1	4.1	1.4	2.7		30	5
13			3.9				40	<10
13			3.3				40	<10
MAY								
28	1.3	<.1	7.7	1.3	4.6	10.6	50	1
AUG								
07	.6	<.1	5.4	.6	<1.0	5.20	40	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 UNFLIRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
13	1110	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	.1	<.2	<.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 UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
MAR													
13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	13.1
	DA	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)		
	MAR	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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
28	1200	<.006	<.004	<.005	.026	<.010	E.037	.010	<.018	E.002	E.014	.021	<.002

01378560 COLES BROOK AT HACKENSACK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
28	<.004	<.035	.053	<.050	.013	<.006	<.007	E.019	.11	<.011	.011	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	т 						

MAY 28...

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

<.010

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	0855	>16000	400000	7400	07	0954	1300	<100	220
17	1040	500	900	570					
24	1020	504	8500	4400					
31	1028	300	<100	410					

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0800	2.3	.048	.040	757	75	9.1	7.1	197	5.5	7.0	63	15.2
20	0800	.9	.048	.039	755	92	11.8	7.2	230	2.0	4.5	60	14.4
21	0715	6.4	.212	.167	751	75	8.2	7.1	253	7.0	10.5	84	20.6
08	0715	6.3	.102	.076	743	54	4.9	7.0	314	15.0	18.5	120	28.8
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)
NOV 15	6.01	1.04	11.0	43	22.9	E.1	26.3	15.3	138	124	<.030	E.05	<.030
FEB 20	5.83	.81	15.7	35	33.2	E.1	23.1	16.7	136	132	<.030	E.10	<.030
21 AUG	7.82	1.75	13.7	52	30.0	E.1	16.2	14.7	168	139	.110	. 39	.120
08	10.7	2.04	16.6	66	46.2	E.1	18.5	17.2	195	181	<.030	.29	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
15 FEB	.12	<.003		.05	.008		.060	.3	<.1	1.5	.3	E1.6	
20 MAY	.18	<.003		.04	.011	<.020	.015	.7	E.1	1.8	E.7	E1.6	
21 AUG	.66	.009	1.1	.06	.019	.019	.049	.6	<.1	4.7	.6	E1.4	13.1
08	.26	.007	.55	.19	.015	<.020	.069	1.1	<.1	3.2	1.1	2.1	18.8

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	DIS- SOLVED (UG/L AS B) (01020)	DEG. C, SUS- PENDED (MG/L) (00530)
NOV 15 FEB 20 MAY 21 AUG 08	E10 E10 40 60	21 4 3 14

								BENZENE	BENZENE	BENZENE			
		1,1,1-		1,1-DI-			TRANS-	1,3-DI-	1,4-DI-	O-DI-			CARBON
		TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
		CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
		ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
DATE	TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
		(UG/L)											
		(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
FEB													
20	0800	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
				CIS-1,2		DI-	DI-ISO-		ETHER	ETHER			METHYL
		CHLORO-		-DI-	BROMO-	CHLORO-	PROPYL-	ETHER	TERT-	TERT-		FREON-	TERT-
		DI-		CHLORO-	DI-	DI-	ETHER,	ETHYL	BUTYL	PENTYL		113	BUTYL
	CHLORO-	BROMO-	CHLORO-	ETHENE	CHLORO-	FLUORO-	WATER,	WATER	ETHYL	METHYL	ETHYL-	WATER	ETHER
	BENZENE	METHANE	FORM	WATER	METHANE	METHANE	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	UNFLTRD	WAT UNF
DATE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	RECOVER	RECOVER	RECOVER	RECOVER	TOTAL	REC	REC
	(UG/L)												
	(34301)	(32105)	(32106)	(77093)	(32101)	(34668)	(81577)	(81576)	(50004)	(50005)	(34371)	(77652)	(78032)
FEB													
20	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
				META/									

	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
20	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
21	0715	E.005	<.004	<.005	.012	E.003	E.130	<.005	<.018	<.003	E.007	E.003	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
21	<.004	<.035	<.027	<.050	E.009	<.006	<.007	.028	.06	<.011	E.003	<.02	<.034
						TRI-							
						FLUR-	•						
						ALIN	_						
						WAT FL	T						
					ኮአሞም	0.70							
					DAIL	(IIG/I.)							
						(82661	.)						
				M	AY								
					21	E.005	5						

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 01 07	1134 1206	1700 140	<100 <100	2800 30	MAY 15 22 29	1258 1155 1154	9000 230 80	6500 100 <100	6600 50 30

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." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH	
			CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-
			INST.	ITY	ANCE	ANCE	PRES-	SOLVED		WHOLE	CIFIC
			CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-
		SAMPLE	FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-
DATE	TIME	TYPE	PER SECOND	UNFLTRD (NTU) (61028)	(UNITS /CM) (50624)	(UNITS /CM) (61726)	OF HG) (00025)	SATUR- ATION)	SOLVED (MG/L)	ARD UNITS)	ANCE (US/CM) (00095)
			(00001)	(01020)	(50024)	(01/20)	(00025)	(00501)	(00500)	(00400)	(00055)
DEC											
12	1020	ENVIRONMENTAL	.40	2.4	.037	.030	760	95	12.0	6.8	128
MAR											
13	1110	ENVIRONMENTAL	.60	.8	.053	.039	748	93	11.6	6.9	125
13	1110	SPLIT REPLICATE									
13	1111	CONCURRENT REPLICATE		.8							
JUN											
11	1000	ENVIRONMENTAL	.80	2.1	.051	.040	751	96	9.5	7.2	112
AUG											
20	0940	ENVIRONMENTAL	.35	9.2	.070	.055	750	95	8.6	7.0	143

DATE	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)	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)
DEC													
12 MAR	7.0	5.5	50	12.4	4.52	.90	5.31	40	5.97	.1	24.6	15.4	100
13	5.5	5.0	47	11.7	4.32	.72	5.05	36	5.63	E.1	23.4	15.8	102
13			48	12.0	4.40	.83	5.20	35	6.3	.11		17.0	92
13			48	12.0	4.30	.82	5.40	36	8.1	.12		18.0	110
JUN		15 0		11 2	2.05		5.26	28	5 36	-	04 F	12.0	0.5
11	23.0	15.0	44	11.3	3.96	.80	5.36	37	5.36	•1	24.7	13.9	96
20	22.0	19.5	52	13.2	4.59	1.07	5.87	45	6.12	.1	26.3	13.3	70
DATE	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, 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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)
DEC													
12	93	<.030	<.10	<.030	.11	<.003		.05	E.003			.008	.3
MAR 12	80	< 030	F 07	< 030	20	< 003		< 02	005	< 020		008	2
13	68	< 050	< 10	< 050	160	< 010		<.0Z	< 010	065		< 010	•4
13	71	<.050	<.10	<.050	.160	<.010			<.010	.068	.06	<.010	
JUN	. –												
11 AUG	93	<.030	E.09	<.030	.29	.030		.03	.008	1.18		.014	.6
20	99	<.030	.11	<.030	.46	<.003	.56	.11	.021	.027		.044	1.6

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1.4	.3	E2.0		E8	5
MAR							
13	<.1	2.0	.2	E1.9		E8	6
13		1.5				E8	<10
13		1.5				E8	<10
JUN							
11	<.1	1.5	.6	2.3	.200	E10	26
AUG							
20	<.1	2.3	1.6	E1.5	.300	E7	15

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD 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 13	1110	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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)
MAR 13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.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 1	2 .3	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
JUN													
11	1000	<.006	<.004	<.005	.020	<.010	<.041	<.005	<.018	<.003	E.004	<.005	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 11	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	T C)						
				J	UN								

11... <.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					MAY				
01	1200	40	<100	<10	15	1220	20	<100	70
07	1233	20	<100	30	22	1210	<20	<100	40
					29	1223	<20	<100	20

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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)
DEC													
12	1230	7.3	8.4	.100	.075	760	91	11.3	7.3	554	8.5	6.0	140
FEB													
06	1000	7.1	8.6	.078	.059	760	93	13.2	7.1	883	6.0	1.0	180
JUN													
11	1220	9.4	25	.116	.088	751	76	6.6	7.4	508	32.0	21.5	140
AUG													
12	0940	4.5	34	.120	.091	763	76	6.6	8.1	694	26.0	22.0	140

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 UNFLIRD 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	36.2	11 9	6.03	51 1	82	79.8	2	11 8	50 G	332	321	< 030	30
FEB	50.2	11.9	0.03	51.1	02	79.0	• 2	11.0	30.0	552	321	<.030	
06 JUN	45.0	16.0	5.50	87.5	75	183	.2	14.0	43.6	504	463	.050	.44
11 AUG	35.4	12.4	4.80	48.8	91	79.8	.2	14.7	35.2	331	299	.050	.44
12	36.7	12.5	9.83	73.8	93	100	.3	11.3	52.2	433	393	.030	.63

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 12 FEB	.040	5.43	.009	5.8	.04	1.17		1.21	.6	<.1	4.0	.5	<1.0
06 JUN	.050	4.68	.016	5.1	.06	.93	.870	.97	.5	<.1	3.2	.5	<1.1
11 AUG	.060	2.94	<.003	3.4	.09	1.21	<.020	1.31	.8	<.1	3.8	.8	<1.0
12	.050	7.05	.026	7.7	.17	2.99	2.83	3.02	1.2	<.1	4.6	1.2	<1.0

Remark codes used in this report:

< -- Less than

01379200 DEAD RIVER NEAR MILLINGTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	
DEC 12 FEB 06		240 230	4 9	
JUN 11 AUG 12	1.20 3.80	230 320	4 33	

			BERYL-			CHRO-				MANGA-				
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,	
			TOTAL	TOTAL	TOTAL	WATER	TOTAL							
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-							
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE							
DATE	TIME	(UG/L												
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)	
AUG														
12	0940	30	33.4	E.04	322	.09	.8	7.1	880	1	114	<.01	3	
							SILVER.	ZINC.						
						SELE-	TOTAL	TOTAL						
						NIUM,	RECOV-	RECOV-						
						TOTAL	ERABLE	ERABLE						
				DA	TE	(UG/L	(UG/L	(UG/L						
						AS SE)	AS AG)	AS ZN)						
						(01147)	(01077)	(01092)						

AUG 12... .5 <.05 39

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					MAY				
01	0915	3000	400	400	15	0850	3000	4300	8800
08	0900	800	700	280	22	0910	220	600	170
					30	0915	300	900	190

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. -- Water year 2001 to September 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1000	4.3	.100	.073	750	72	8.6	7.8	317	15.0	7.0	94	24.4
27	1000	3.9	.099	.077	738	92	11.0	7.5	178	6.0	6.5	52	12.7
16 SEP	0900	3.4	.168	.130	750	82	8.7	7.6	160	17.5	12.0	47	11.8
05	1000	3.2	.140	.109	750	84	7.6	7.4	159	20.5	19.5	54	13.3
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)
NOV 15 FEB	8.04	2.28	27.6	69	55.5	.1	4.7	15.5	190	180	.030	.34	.040
27 MAY	5.02	.79	14.9	30	31.7	E.1	6.8	14.2	122	104	.020	.20	.050
16 SEP	4.20	.90	15.5	29	27.7	E.1	8.7	11.5	116	98	.030	.25	.060
05	5.00	.73	11.1	32	22.7	E.1	8.1	12.2	106	99	<.030	.28	.031
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
15 FEB	.07	<.003	.40	.08	.011		.036	.7	<.1	4.9	.7	E1.7	
27	.06	<.003	.26	.09	.006	<.020	.032	.7	<.1	3.2	.7	<1.0	
16 SEP	.09	<.003	.34	.06	.014	<.020	.029	.5	<.1	4.9	.5	E1.1	1.20
05	1.58	.003	1.9	.19	<.05	<.020	E.05	1.0	<.1	4.7	1.0	2.4	1.10

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 15	20	15
27	E8	8
MAY 16	E10	3
SEP 05	10	8

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 27	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 27	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.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 2	3 27	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 16	0900	<.006	<.004	<.005	E.006	<.010	<.041	<.005	<.018	<.003	E.003	.008	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 16	<.004	<.035	<.027	<.050	E.003	<.006	<.007	<.022	м	<.011	<.005	<.02	<.034
				DAI	Έ	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)							
				MAY 16	•••	<.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					MAY				
01	1045	170	100	110	15	1106	800	<100	310
07	1039	130	400	110	22	1035	130	300	120
					29	1049	170	200	110

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1140	7.7	3.6	.133	.101	760	85	10.8	6.9	320	15.0	5.0	88
FEB													
06	1040	7.7	4.0	.087	.066	751	99	14.1	7.5	207	3.5	.5	49
MAY													
29	1110	20	4.6	.161	.127	753	90	8.2	7.2	211	23.0	19.0	55
AUG													
05	1120	5.0	4.6	.169	.132	748	92	7.3	7.3	193	34.0	26.0	61

					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													
13	22.4	7.69	1.85	25.0	64	50.8	E.1	5.9	15.1	168	167	<.030	
FEB													
06	12.0	4.69	.83	15.7	26	32.3	E.1	8.5	13.6	118	104	<.030	.21
MAY													
29	14.0	4.80	.86	16.6	36	33.7	.1	9.7	11.7	125	114	.080	.30
AUG													
05	15.7	5.33	.92	12.5	46	24.8	.1	8.9	8.2	116	104	<.030	.29

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 13 FEB	.030	.07	<.003		.12	.012		.032	.6	<.1	5.3	.6	3.5
06 MAY	<.030	.13	.003	.35	<.02	.005	<.020	.017	.4	<.1	2.8	.4	<1.0
29 AUG	.060	.17	.007	.46	.09	.018	<.020	.043	.5	<.1	3.7	.5	E1.6
05	<.030	.14	<.003	.43	.05	.024	<.020	.054	.5	<.1	4.0	.5	<1.1

	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			
13		20	7
FEB			
06		10	5
MAY			
29	1.50	E10	2
AUG			
05	4.20	20	<1

< -- Less than E -- Estimated value

01380100 BEAVER BROOK AT ROCKAWAY, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 01 07	1055 1123	90 230	100 300	160 60	MAY 15 22	1122 1048 1100	500 110 230	200 200 200	260 80 130
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 bridge 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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 27 FEB	1000	38	8.5	.126	.095	763	78	8.8	7.6	598	11.0	10.0	170
13 JUN 12	1030	38 15	14	.105	.078	762	87 56	4.6	7.6	485	30.0	4.0 24.0	140
08	0930	19	4.0	.111	.082	761	87	7.8	7.8	789	25.0	20.5	210

					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													
27	41.4	14.9	4.20	46.5	103	101	<.1	14.8	30.9	342	327	.050	.45
FEB													
13	44.0	15.3	3.65	71.5	89	147	E.1	12.3	39.2	404	397	.040	.39
JUN													
12	35.1	11.8	3.39	41.4	82	80.6	E.1	14.2	22.6	302	268	.190	.77
AUG													
08	51.2	18.9	5.96	68.8	104	145	.1	14.3	40.0	449	430	.030	.49

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
27	.040	2.60	.009	3.0	.13	.21		.26	1.1	<.1	4.1	1.1	2.8
FEB													
13	.050	2.45	.017	2.8	.08	.10	.079	.20	.9	<.1	3.9	.9	<1.0
JUN													
12	.180	2.01	.026	2.8	.17	.16	.140	.34	1.8	<.1	9.0	1.8	E1.6
AUG													
08	.060	5.03	.017	5.5	.09	.59	.536	.64	.5	<.1	4.0	.4	E1.1

Remark codes used in this report:

< -- Less than

E -- Estimated value

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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 2	, 27		90	2					
				FEE 1	.3 		90	10					
				JUN 1	r .2	3.30	90	25					
				AUG	; 18	5.40	150	2					
DATE	TIME	SAME TYF	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 08 08	0930 0930	ENVIRONN BED MATE	TENTAL RIAL		 7.50	 260	 9700	 4.1	 <.2	<2 	29.5	<.06 	135
DATE	CADMIUM WATER UNFLIRD 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	08	< 8	57	250	2	55 2	< 01	2	6	< 05	10		
08												<1	.093
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 08													
08	6.7	3.1	<2	8500	32	170	.11	4.6	<1	37	E22	E7	E10
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 08 08	 E6	 E38	 E24	 E48	 110	 120	 140	 92	 100	 140	 E39	 240	 110
DATE	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)
AUG													
08	<50	<50	 E13	 E11	 E14	 E10	 E17	<5	== E25	== E20	110	<50	=- E25

01381800 WHIPPANY RIVER NEAR PINE BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
08			
08	220	1	3

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					MAY				
01	1005	800	400	780	15	1020	16000	3300	6100
07	1005	80	<100	130	22	1014	260	<100	120
					29	1017	500	300	110

Remark codes used in this report: < -- Less than

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 CONDUCTANCE: June 1969 to September 1974.

pH: June 1969 to September 1974. WATER TEMPERATURE: October 1962 to May 1969 (once daily), June 1969 to September 1974. DISSOLVED OXYGEN: June 1969 to September 1974.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION .-- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 26	1000	255	4.7	.104	.077	759	92	10.3	7.5	833	16.0	10.0	190
19	1300	128	4.3	.115	.088	764	129	16.0	8.4	836	14.0	6.0	170
MAY													
29	0950	329	15	.278	.212	762			7.1	469	25.0	21.0	110
14	0940	83	13	.121	.090	748	96	7.5	8.0	824	32.5	27.0	180

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 26 FEB 19 MAY 29 AUG 14	47.1 43.5 29.0 46.2	17.6 15.9 10.3 16.5	7.70 6.25 3.23 8.55	81.7 87.7 42.6 80.8	129 100 66 110	141 153 77.0 136	E.1 .1 .1 .2	13.4 7.9 12.1 13.6	52.2 52.7 26.1 53.7	502 456 286 462	462 448 252 446	.070 .030 .150 <.030	.59 .59 .73 .51

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
26 FEB	.070	5.22	.024	5.8	.08	1.16		1.22	.6	<.1	4.5	.5	E1.0
19 MAY	.050	4.09	.039	4.7	.09	.73	.662	.81	.9	<.1	4.9	.9	<1.0
29 AUG	.160	2.43	.053	3.2	.14	.42	.360	.57	1.4	<.1	6.8	1.3	E1.2
14	<.030	4.90	.038	5.4	.21	1.02	.958	1.02	1.2	<.1	4.7	1.2	E2.1

Remark codes used in this report:

< -- Less than E -- Estimated value

01382000 PASSAIC RIVER AT TWO BRIDGES, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 26 FEB 19		190 160	1 9	
MAY 29 AUG 14	5.10 38.5	90 200	23 16	

			BERYL-			CHRO-			MANGA-				
			BARIUM, TOTAL	LIUM, TOTAL	BORON, TOTAL	CADMIUM WATER	MIUM, TOTAL	COPPER, TOTAL	IRON, TOTAL	LEAD, TOTAL	NESE, TOTAL	MERCURY TOTAL	NICKEL, TOTAL
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE
DATE	TIME	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
14	0940	2	24.9	<.06	198	.09	E.4	4.7	430	2	97.9	E.01	7
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE								
						AS SE) (01147)	(01077)	(01002)					
						(01147)	(01077)	(01092)					
				AUG	;								
				1	4	.7	E.03	14					

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				
20	1040	170	100	60	02	0940	230	400	50
27	0900	210	100	20	10	0920	170	<100	40
					17	0905	130	<100	10

01382410 MACOPIN RIVER AT ECHO LAKE, NJ

LOCATION.--Lat 41°02'53", long 74°24'25", 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 years 1998 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
27 FEB	1100	1.2	.053	.036	744	83	9.5	7.4	343		8.4	110	28.5
21	1030	1.3	.054	.039	731	64	7.5	7.4	347	13.0	6.5	110	28.0
06	0950	3.4	.098	.077	734	76	6.7	7.3	268	25.0	19.5	99	26.1
13	1000	32	.067	.050	740	156	13.2	8.0	308	29.0	22.0	120	32.9
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)
NOV													
27	9.55	1.15	19.5	89	47.5	.1	13.1	10.5	190	186	<.030	.16	<.030
21 JUN	9.50	1.02	20.9	66	51.9	.2	10.2	13.4	192	178	<.030	.16	<.030
06	8.25	1.16	13.0	85	25.6	.2	11.4	9.5	175	147	.030	.22	.030
13	10.2	.76	15.0	109	28.8	.2	14.4	9.9	183	185	<.030	.12	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
27 FEB	.64	<.003	.80	.05	.005		.013	.4	<.1	1.9	.4	E1.8	
21 JUN	.78	.003	.94	.04	.004	<.020	.009	.4	<.1	2.3	.4	<1.0	
06 AUG	.23	.003	.45	.09	.019	<.020	.035	2.8	<.1	3.2	2.8	E1.9	3.90
13	.07	<.003	.18	.04	.018	.026	.149	.2	<.1	2.5	.2	<1.0	2.50

Remark codes used in this report:

< -- Less than E -- Estimated value

100

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 27 FEB 21 JUN 06 AUG 13	20 20 E10 20	1 10 5 58

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	1030	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLIRD 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	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	Dž	лте	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	£ 2	£ 2	c.1	c.1	c.1	c.1	c.1	£ 2	£ 2		
	4		~•4	~•4	~•±	~•±	~• -	~•±	~• -	~•4	~•4		

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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 06	0950	<.009	<.004	<.005	.015	<.010	<.041	<.005	<.018	<.003	E.011	<.005	<.002

01382410 MACOPIN RIVER AT ECHO LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 06	<.004	<.035	<.027	<.050	E.012	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л с						

JUN 06...

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

<.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					SEP				
05	0940	20	500	710	03	0955	<20	<100	<10
12	1002	<20	<100	30					
19	0957	<20	<100	<10					

01382500 PEQUANNOCK RIVER AT MACOPIN INTAKE DAM, NJ

LOCATION.--Lat 41°01'05", long 74°24'07", Passaic 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 .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 06	1030	.66	.5	.070	.054	748	88	10.4	7.7	345	17.5	7.5	96
28	1000	.72	1.0	.066	.051	746	97	13.7	7.6	412	.0	.5	92
20 SEP	1000	2.5	1.6	.103	.081	757	81	7.6	7.5	257	24.0	18.0	55
05	1000	.33	.5	.075	.057	749	79	7.2	7.7	322	23.0	19.0	91

					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)
DEC													
06	24.0	8.73	1.45	24.9	61	56.8	.1	8.9	16.2	190	178	<.030	.13
FEB													
28	23.0	8.35	1.21	37.6	51	75.7	E.1	7.6	17.2	218	203	.040	.14
JUN													
20	14.5	4.63	.93	25.1	37	44.8	E.1	10.6	12.0	141	136	.030	.14
SEP													
05	23.7	7.83	1.21	25.3	61	49.6	E.1	7.2	15.5	172	168	<.030	.18

	NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
(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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
<.030	.12	<.003	.25	<.02	E.002		.006	.2	<.1	2.2	.1	E1.1
.100	.38	.004	.52	.02	E.003	<.020	.008	.3	<.1	2.3	.3	E1.5
.060	.24	.003	.38	<.02	.011	<.020	.018	.2	<.1	2.7	.2	<1.0
<.030	.07	<.003	.25	<.02	.009	<.020	.012	<.1	<.1	2.5	<.1	E1.5
	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) <.030 .100 .060 <.030	NITRO- GEN, NO2+NO3 AMMONIA DIS- TOTAL SOLVED (MG/L (MG/L (MG/L AS N) AS N) (00610) (00631) <.030	NITRO- GEN, GEN, GEN, NO2+NO3 NITRO- GEN, GEN, DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NITRO- NITRO- GEN, MC2+NO3 NITRO- GEN, NITRITE GEN, NC2+NO3 NITRTO- GEN, NITRITE DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NITRO- NITRO- NITRO- NITRO- MITRO- GEN, GEN, MIRO- GEN, PAR GER, NO2+NO3 NITRITE GEN MITCULITE AMMONIA DIS- DIS- DIS- WAT FLT TOTAL SOLVED SOLVED SOLVED SUSP (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N AS N) AS N) (00610) (00631) (00613) (00602) (49570) <.030	NITRO- NITRO- NITRO- NITRO- NITRO- GEN, MITRO- GEN, PAR PHOS- GEN, NO2+NO3 NITRITE GEN TICULTE PHORUS AMMONIA DIS- DIS- DIS- DIS- WAT FLT DIS- TOTAL SOLVED SOLVED SUSP SOLVED SUSP SOLVED (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) (00610) (00631) (00613) (00602) (49570) (00666) <.030	NITRO- NITRO- NITRO- ORTHO- NITRO- GEN, GEN, NITRO- GEN, PAR PHOS- GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, AMMONIA DIS- DIS- DIS- DIS- SOLVED SUSP SOLVED SOLVED YOTAL SOLVED SOLVED SUSP SOLVED <	NITRO- NITRO- NITRO- GEN, NITRO- ORTHO- NITRO- GEN, NITRO- GEN, PAR PHOS- PHOS- GEN, N02+N03 NITRITE GEN TICULTE PHORUS PHATE, PHOS- AMMONIA DIS- DIS- DIS- DIS- VAT FLT DIS- DIS- PHORUS TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL (MG/L (MG/L <td>NITRO- NITRO- NITRO- ORTHO- CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, PHOS- ORCANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- ORCANIC TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL MG/L (MG/L (MG/L</td> <td>NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INORG + GEN, N02+N03 NITRTE GEN TOTAL GEN DIS- DIS-<td>NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, NITRO- GEN, MC, GEN, MEN, NITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INOR- CARBON, GEN, N02+N03 NITRITE GEN TCULITE PHORUS PHATE, PHOS- ORGANIC GRANIC, ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. DAGANIC, ORGANIC TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL SOLVED SOLVED MG/L (MG/L (MG/</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td></td>	NITRO- NITRO- NITRO- ORTHO- CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, PHOS- ORCANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- ORCANIC TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL MG/L (MG/L (MG/L	NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INORG + GEN, N02+N03 NITRTE GEN TOTAL GEN DIS- DIS- <td>NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, NITRO- GEN, MC, GEN, MEN, NITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INOR- CARBON, GEN, N02+N03 NITRITE GEN TCULITE PHORUS PHATE, PHOS- ORGANIC GRANIC, ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. DAGANIC, ORGANIC TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL SOLVED SOLVED MG/L (MG/L (MG/</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, NITRO- GEN, MC, GEN, MEN, NITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INOR- CARBON, GEN, N02+N03 NITRITE GEN TCULITE PHORUS PHATE, PHOS- ORGANIC GRANIC, ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. DAGANIC, ORGANIC TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL SOLVED SOLVED MG/L (MG/L (MG/	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 06		20	5
28		20	1
20	.700	10	7
05	.700	10	4

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
SEP													
05	1000	<2	15.4	< 06	16	< 04	< 8	1.4	90	<1	39.0	< 01	1
	2000	-							20				-
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					

SEP 05... <.4 <.05 2

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					SEP				
05	1000	300	400	180	03	0935	20	200	20
12	0950	40	<100	210					
19	0940	<20	<100	70					

Remark codes used in this report: < -- Less than

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. -- Water year 2001 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 11	0900	3.2	.065	.048	764	75	9.0	7.8	310	11.0	7.5	71	18.9
13	0900	2.2	.069	.052	758	90	12.6	7.8	448	4.0	1.5	110	30.4
JUN 05	1000	3.7	.083	.062	758	71	7.0	7.6	420	20.5	15.5	110	28.4
22	1000	5.1	.098	.073	760	79	7.6	7.8	391	24.5	17.0	93	25.2
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)
DEC 11	5.69	1.99	28.2	46	52.4	<.1	4.0	19.7	168	162	.520	.89	.500
13 JUN	8.96	3.47	50.7	68	86.7	E.1	5.7	37.6	274	272	1.45	1.8	1.38
05 AUG	8.90	3.39	44.5	57	81.6	E.1	6.2	32.6	278	245	.300	.69	.310
22	7.43	3.15	38.4	56	70.7	E.1	5.5	23.3	221	211	.120	.44	.140
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
11 FEB	.66	.021	1.6	.10	.171		.20	.7	<.1	3.5	.7	E1.8	
13 JUN	1.27	.029	3.1	.10	.037	<.020	.081	.6	<.1	3.5	.6	2.1	
05 AUG	1.01	.052	1.7	.07	.036	<.020	.063	.6	<.1	3.6	.6		4.30
22	.89	.009	1.3	.10	.064	.038	.113	.6	<.1	4.1	.6	E1.1	4.80

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 11 FEB 13 JUN 05 AUG 22	40 80 70 70	7 12 9 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 13	0900	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 13	<.1	<.2	.1	<.1	<.1	<.2	<.2	.3	<.1	<.2	<.1	<.1	E.1
	24	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	3 .3	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
עטע 05	1000	<.006	<.004	<.005	<.008	<.010	<.041	<.005	<.018	<.003	<.006	<.006	<.002

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 05	<.004	<.035	<.027	<.050	E.009	<.006	<.007	<.022	E.01	<.011	<.008	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	T C)						

JUN 05...

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

<.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					SEP				
05	1030	3000	1400	270	03	1022	900	300	140
12	1027	700	900	170					
19	1019	1300	1400	100					

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION.--Lat 41°05'53", long 74°09'47", 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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 01	0800	14	2.2	.064	.049	761	74	8.4	7.7	752	12.0	9.4	160
07	0830	37	1.4	.054	.044	754	75	10.1	7.6	720	.0	2.5	130
MAY													
07	0715	189	2.9	.090	.068	754	88	8.8	7.7	314	13.0	15.0	66
AUG													
15	0715	18	3.2	.080	.061	749	73	6.0	7.7	667	22.0	24.0	140

					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	43.1	12.1	3.40	83.3	97	153	E.1	9.2	25.9	416	410	.040	.35
FEB													
07	35.6	9.75	2.35	78.4	70	138	E.1	6.3	24.6	354	351	.180	.51
MAY													
07	18.2	5.04	1.08	30.7	40	56.2	E.1	4.7	14.0	169	157	<.030	.26
AUG													
15	37.8	10.2	3.47	76.3	76	130	.1	6.9	21.9	350	352	.040	.34

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 01	.030	4.93	.020	5.3	.07	.52		.54	.6	<.1	2.9	.6	E1.5
FEB 07	.180	3.06	.041	3.6	.06	.26	.234	.26	.3	<.1	2.5	.3	E1.6
MAY													
07 AUG	.030	.62	.006	.88	.08	.06	.045	.09	1.0	<.1	2.9	1.0	<1.1
15	.050	4.04	.027	4.4	.16	.50	.518	.55	1.3	<.1	3.8	1.3	2.3

Remark codes used in this report:

< -- Less than E -- Estimated value

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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	7)1		90	8					
				FEE	3)7		60	4					
				MAY	<u>r</u>)7	6.80	30	4					
				AUG 1	; .5	20.8	80	14					
DATE	TIME	SAME TYE	PLE DE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 15 15	0715 0715	ENVIRONN BED MATE	IENTAL ERIAL		 7.28	 780	 5900	 13	 .8	2 	20.9	<.06 	83
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 15 15	E.03	<.8 	3.9	180 	<1 	95.8 	E.01 	2 	E.3 	.09 	16 	 <1	 .145
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 15 15	 23	 2.2	 18	 12000	 42	 150	 <.01	 4.9	 <1	 65	 380	 <50	 190
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 15 15	 140	 140	 130	600	 1800	 1800	 2100	 850	 1400	2000	 290	 4800	 1100
DATE	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)
AUG 15 15	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 9	 55	 180	 2600	 68	 160

01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
15			
15	3600	.8	2

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	0742	>16000	15000	4300	07	0848	1400	<100	170
17	0930	1300	900	370					
24	0902	3000	1400	2600					
31	0935	700	400	360					

Remark codes used in this report: < -- Less than > -- Greater than

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ

LOCATION.--Lat 40°59'33", long 74°16'44", Passaic County, Hydrologic Unit 02030103, in Pompton Lakes, at bridge on Paterson-Hamburg Turnpike, 2.0 mi upstream from mouth, and 450 ft downstream from dam.

DRAINAGE AREA. -- 160 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. DISSOLVED OXYGEN PERCENT SATURATION: October 2001 to September 2002. 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 reacond 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 Measurements and Sample Collection"). Data from the following periods were adjusted: DISSOLVED OXYGEN: Jan. 2 to Jan. 15, Feb. 21 to Apr. 2, June 10 to Jul. 11, Jul. 15 to Aug. 21, Sept. 19 to Sept. 30

EXTREMES FOR PERIOD OF DAILY RECORD .--

DISSOLVED OXYGEN: Maximum, 15.4 mg/L, Jan. 15, 2000, Feb. 25, 2002; minimum, 4.5 mg/L, Aug. 4, 1999. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 126, Feb. 24, 25, 2002; minimum, 67, June 2, 4, 2002. SPECIFIC CONDUCTANCE: Maximum, 842 microsiemens/cm, Jan. 18, 1999; minimum, 88 microsiemens/cm, Sept. 7, 1999. WATER TEMPERATURE: Maximum, 31.5 °C, July 5, 1999; minimum, 0.0 °C, on several days during winters.

EXTREMES FOR CURRENT YEAR .--

KREMES FOR CURRENT FEAR.--DISSOLVED OXYGEN: Maximum, 15.4 mg/L, Feb. 25; minimum, 5.7 mg/L, June 2, Aug. 1, 2. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 126, Feb. 24, 25; minimum, 67, June 2, 4. SPECIFIC CONDUCTANCE: Maximum, 801 microsiemens/cm, Feb. 6, 7; minimum, 223 microsiemens/cm, May 20. WATER TEMPERATURE: Maximum, 29.5°C, July 4; minimum, 1.5°C, Dec. 31, Jan. 1, 2.

OXYGEN DISSOLVED DOWNSTREAM OF DAM, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

OXYGEN DISSOLVED DOWNSTREAM OF DAM, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY	•		MARCH			APRIL			MAY	
1	13 3	12 7	13 1	14 8	13 1	13 9				10 9	10 4	10 6
2	13.9	12.8	13.4	14.8	13.3	13.9	11.9	10.0	10.9	10.9	10.4	10.5
3	14.3	13.4	13.8	13.4	12.4	12.8	11.2	10.0	10.4	10.8	10.5	10.6
4	13.9	13.4	13.6	12.7	12.3	12.5	11.4	10.0	10.6	10.9	10.3	10.7
5	14.5	13.4	13.9	13.1	12.0	12.5	12.1	9.9	11.1	10.6	10.0	10.3
6	14.6	13.8	14.1	12.6	11.6	12.1	11.5	10.2	11.0	10.5	9.6	10.0
7	14.5	13.8	14.0	12.8	11.2	12.0	12.4	10.7	11.4	10.1	8.9	9.6
8	14.5	13.7	14.0	12.4	11.3	11.8	12.3	11.1	11.6	10.0	8.7	9.3
9	14.5	13.8	14.1	12.2	10.8	11.5	12.3	10.7	11.4	8.9	8.0	8.4
10	14.5	13.6	14.0	11.8	10.7	11.2	11.9	10.4	11.0	10.0	7.8	8.8
11	14.0	13.4	13.7	12.5	10.4	11.5	11.7	10.1	10.8	10.0	7.9	8.9
12	14.3	13.8	13.9	12.7	11.1	11.8	11.3	9.9	10.5	9.9	7.9	9.0
13	14.6	13.7	14.1	12.3	11.2	11.7	11.1	9.5	10.1	10.5	9.5	10
14	14.9	14.1	14.4	13.0	11.1	12.0	11.4	9.6	10.3	10.5	9.8	10.2
15	14.9	14.0	14.4				10.3	8.8	9.6	10.7	10.3	10.5
16	14.8	13.8	14.2				9.5	7.9	8.8	10.4	9.8	10.2
17	14.8	13.7	14.1				9.9	7.5	8.5	9.9	9.6	9.8
18	14.9	13.7	14.2	12.2	11.1	11.6	9.1	6.8	8.1	10.2	9.6	9.9
19	15.1	14.0	14.4	13.2	11.3	12.2	8.7	7.1	7.9	10.6	10.2	10.5
20	14.9	13.6	14.2	12.2	11.4	11.9	8.4	7.4	7.9	10.8	10.5	10.7
21	14.8	13.1	13.9	12.3	11.3	11.9	9.0	6.6	7.7	10.9	10.6	10.7
22	15.1	13.1	13.9	12.1	11.3	11.8	9.9	8.2	8.5	10.7	9.9	10.3
23	15.0	13.1	13.8	12.4	11.7	12.1	10.2	8.3	9.3	10.6	9.9	10.3
24	15.2	13.1	13.9	12.7	11.6	12.1	10.7	8.8	9.8	10.3	8.9	9.9
25	15.4	13.1	14.1	12.2	11.4	11.8	10.0	9.3	9.7	9.8	9.0	9.5
26	14.8	13.1	13.8	11.8	11.3	11.6	10.6	9.3	9.9	9.8	9.0	9.3
27	14.4	12.7	13.4	12.1	11.4	11.7	10.9	9.3	10.1	10.0	8.6	9.3
28	14.6	12.8	13.6	12.0	11.0	11.7	10.3	9.5	9.9	9.3	8.1	8.6
29				12.1	10.1	11.3	10.6	10.3	10.5	9.3	8.1	8.6
30							10.9	10.6	10.8	9.7	7.9	8.6
31										9.9	7.5	8.5
MONTH	15.4	12.7	13.9	14.8	10.1	12.0	12.4	6.6	9.9	10.9	7.5	9.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY	MAX 9.1	MIN JUNE	MEAN	MAX	MIN JULY 7.0	MEAN	MAX	MIN AUGUST 5.7	MEAN	MAX	MIN SEPTEMBI 8.3	MEAN ER 8.6
DAY 1 2	MAX 9.1 8.7	MIN JUNE 6.7 5.7	MEAN 8.2 7.2	MAX 7.9 7.7	MIN JULY 7.0 6.3	MEAN 7.4 7.1	MAX 7.4 8.0	MIN AUGUST 5.7 5.7	MEAN 6.4 6.6	MAX 8.9 9.0	MIN SEPTEMBI 8.3 8.3	MEAN ER 8.6 8.6
DAY 1 2 3	MAX 9.1 8.7 8.9	MIN JUNE 6.7 5.7 6.5	MEAN 8.2 7.2 7.5	MAX 7.9 7.7 7.2	MIN JULY 7.0 6.3	MEAN 7.4 7.1 6.7	MAX 7.4 8.0 7 1	MIN AUGUST 5.7 5.7 6.5	MEAN 6.4 6.6	MAX 8.9 9.0 8.9	MIN SEPTEMBI 8.3 8.3 8.1	MEAN ER 8.6 8.6 8.5
DAY 1 2 3 4	MAX 9.1 8.7 8.9 8.4	MIN JUNE 6.7 5.7 6.5 5.8	MEAN 8.2 7.2 7.5 7.3	MAX 7.9 7.7 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0	MEAN 7.4 7.1 6.7	MAX 7.4 8.0 7.1 7.3	MIN AUGUST 5.7 5.7 6.5 6.3	MEAN 6.4 6.6 6.8 6.7	MAX 8.9 9.0 8.9 8.6	MIN SEPTEMBI 8.3 8.3 8.1 7.1	MEAN ER 8.6 8.6 8.5 8.0
DAY 1 2 3 4 5	MAX 9.1 8.7 8.9 8.4 8.7	MIN JUNE 6.7 5.7 6.5 5.8 7.6	MEAN 8.2 7.2 7.5 7.3 8.2	MAX 7.9 7.7 7.2 7.2 7.4	MIN JULY 7.0 6.3 6.1 6.0 6.0	MEAN 7.4 7.1 6.7 6.6 6.7	MAX 7.4 8.0 7.1 7.3 7.1	MIN AUGUST 5.7 5.7 6.5 6.3 5.9	MEAN 6.4 6.6 6.8 6.7 6.4	MAX 8.9 9.0 8.9 8.6 8.4	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0	MEAN ER 8.6 8.6 8.5 8.0 7.6
DAY 1 2 3 4 5	MAX 9.1 8.7 8.9 8.4 8.7	MIN JUNE 6.7 5.7 6.5 5.8 7.6	MEAN 8.2 7.2 7.5 7.3 8.2	MAX 7.9 7.7 7.2 7.2 7.4	MIN JULY 7.0 6.3 6.1 6.0 6.0	7.4 7.1 6.7 6.6 6.7	MAX 7.4 8.0 7.1 7.3 7.1	MIN AUGUST 5.7 5.7 6.5 6.3 5.9	MEAN 6.4 6.6 6.8 6.7 6.4	MAX 8.9 9.0 8.9 8.6 8.4	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0	MEAN ER 8.6 8.6 8.5 8.0 7.6
DAY 1 2 3 4 5 6	MAX 9.1 8.7 8.9 8.4 8.7 8.1	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2	MEAN 8.2 7.2 7.5 7.3 8.2 7.7	MAX 7.9 7.7 7.2 7.2 7.4 7.8	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.0	7.4 7.1 6.7 6.6 6.7 6.9	MAX 7.4 8.0 7.1 7.3 7.1 7.3	MIN AUGUST 5.7 6.5 6.3 5.9 6.0	MEAN 6.4 6.6 6.7 6.4 6.6	MAX 8.9 9.0 8.9 8.6 8.4 8.4	MIN SEPTEMBE 8.3 8.3 8.1 7.1 7.0 7.0	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6
DAY 1 2 3 4 5 6 7	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 8.7	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5	7.4 7.1 6.7 6.6 6.7 6.9 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0	6.4 6.6 6.8 6.7 6.4 6.6 6.6	MAX 8.9 9.0 8.6 8.4 8.4 8.4	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9	MEAN SR 8.6 8.5 8.5 8.0 7.6 7.6 7.6
DAY 1 2 3 4 5 6 7 8	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.1	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9	8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4	7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.6	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.4 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.9
DAY 1 2 3 4 5 6 7 8 9	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.1 9.0	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 8.2	8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.4 6.6	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.6 6.6 6.7	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.5 8.2 7.0	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5 7.1 7.1	MEAN ER 8.6 8.5 8.0 7.6 7.6 7.6 7.9 7.7 7.7
DAY 1 2 3 4 5 6 7 8 9 10	MAX 9.1 8.7 8.4 8.7 8.1 8.9 9.1 9.0 8.6	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9	8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.0 6.0 6.2 6.5 6.4 6.6 6.7	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.6 6.7 6.7	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5 7.1 7.0	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.9 7.7 7.4
DAY 1 2 3 4 5 6 7 8 9 10 11	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.1 9.0 8.6	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.2	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.7 6.7 6.9	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.5 8.2 7.9 7.7	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8	MEAN SR 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.9 7.7 7.4 7.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.1 9.0 8.6 8.6 8.2	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5	MEAN 8.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.6 7.6	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.7 6.9 7.0	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8	MEAN SR 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 9.1 8.7 8.4 8.7 8.1 8.9 9.1 9.0 8.6 8.6 8.6 8.2 8.0	MIN JUNE 6.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 8.2 7.9 7.7 7.5 7.5	MEAN 8.2 7.2 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.3	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 7.0 6.9	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3	MEAN SR 8.6 8.6 8.6 7.6 7.6 7.6 7.6 7.9 7.4 7.4 7.2 7.4 7.2 7.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.1 9.0 8.6 8.6 8.6 8.2 8.0 8.6	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 8.2 7.9 7.7 7.5 7.5 7.5 7.9 8 6	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.1	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.3 7.5	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.5 6.5 6.5 6.5 6.5	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 7.0 6.9 6.9 6.9	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.5 8.7 9	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.5 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.5 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.8 8.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 9.1 8.7 8.4 8.7 8.1 8.9 9.1 9.0 8.6 8.6 8.6 8.6 8.6 8.6 8.6	MIN JUNE 6.7 5.8 7.6 7.2 7.7 8.9 8.2 7.9 8.2 7.9 7.7 7.5 7.5 7.5 7.9 8.6	MEAN 8.2 7.2 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.1 8.8	MAX 7.9 7.7 7.2 7.4 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.5 7.5	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 7.0 6.9 7.0 6.9 6.9 6.8	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.6 7.9 7.4 7.4 7.4 7.2 7.4 7.2 7.4 8.0 8.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.2 8.0 8.6 8.9 9.2	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.5 7.9 8.6 8.9	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.8 8.1 8.8 9.0	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.5 7.5 7.5	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3 6.4	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 6.9 6.9 6.8 7.0	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4	MIN SEPTEMBS 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7 7.4	MEAN SR 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.4 7.4 7.4 8.0 8.0 8.0 8.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 9.1 8.7 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.6 8.6 8.6 8.6 8.9 9.2 9.2	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.5 7.5 7.5 7.5 7.5 8.6 8.9 8.8	MEAN 8.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.1 8.8 9.0 9.1	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3 6.4 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 7.0 6.9 6.8 7.0 6.8	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.5 7.9 7.7 8.2 8.5 8.7 8.2 8.5 8.4 8.4	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7 7.4 7.4	MEAN 8.6 8.5 8.0 7.6 7.6 7.6 7.7 7.4 7.2 7.4 7.2 7.4 7.8 8.0 8.0 8.0 8.1 8.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.0 8.6 8.6 8.0 8.6 8.9 9.2 9.2 9.2	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 8.2 7.9 7.7 7.5 7.5 7.5 7.9 8.6 8.9 8.8 8.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.2 7.7 8.3 8.3 8.3 8.1 8.8 8.1 8.8 9.0 9.1 9.0	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.5 7.5 7.5 7.7	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3 6.4	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.8 6.9	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.6	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.9 7.4 7.4 7.4 7.4 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.6 8.0 8.6 8.9 9.2 9.2 9.2 9.2	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.7 7.5 7.7 7.5 7.9 8.6 8.9 8.8 8.8 8.8 8.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 8.9 0 8.8 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.1	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.9 	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.7	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.6 5.5 6.5 6.5 6.3 6.4 6.3 6.4 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 6.9 6.9 6.8 7.0 6.8 7.0 6.9 7.0	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.5 8.7 8.2 8.4 8.5 8.7 9.2	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.6 7.8	MEAN SR 8.66 8.55 8.00 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.4 7.4 7.4 7.4 7.4 8.00 8.0 8.0 8.1 8.0 8.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.1 9.0 8.6 8.6 8.6 8.9 9.2 9.2 9.2 9.2 9.1	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.6 8.9 8.8 8.8 8.8 8.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.2 7.7 8.3 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.9 	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 -	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.7 7.7 7.7 7.9	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.5 6.5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 6.9 6.9 6.9 6.8 7.0 6.8 7.0 6.8 7.0 7.1	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 9.2 9.4	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.6 7.8 8.2	MEAN ER 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.1 9.0 8.6 8.6 8.6 8.6 8.9 9.2 9.2 9.2 9.2 9.1 9.3	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.2 7.7 8.2 7.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 8.9	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.9 7.6	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 -	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 6.5 6.3 5.9 6.0 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.5 6.5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.7 6.9 6.9 6.9 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.9 6.8	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 9.0 8.4 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.6 7.8 8.2 8.0	MEAN ER 8.66 8.55 8.00 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.4 7.2 7.4 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.6 8.6 8.6 8.9 9.2 9.2 9.2 9.2 9.1 9.3 9.0	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.5 7.5 7.9 8.6 8.8 8.8 8.8 8.8 8.8 8.8 8.5 7.9	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.9 8.5	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.6 7.7	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.7 7.5 7.7 7.5 7.7 7.5 7.7	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 5.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.4 6.6 6.6 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.8 7.0 6.8 7.0 6.8 6.9 6.8 7.0 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.9 6.9 6.8 6.9 6.9 6.9 6.9 6.8 6.9 6.9 6.9 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.9 6.8 6.8 6.8 6.8 6.9 6.8 6.8 6.9 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 9.0 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBS 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.6 7.8 8.2 8.0 7.3	MEAN SR 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 8.0 8.0 8.0 8.0 8.0 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 1	MAX 9.1 8.7 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.6 8.6 8.6 8.6 8.6 9.2 9.2 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.5 7.5 7.5 7.5 8.6 8.9 8.8 8.8 8.8 8.8 8.5 7.9 7.7	MEAN 8.2 7.2 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.8 8.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.5 8.5 8.2	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.6 7.7 7.5	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3	MEAN 7.4 7.1 6.7 6.6 6.7 6.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.4 7.4 7.4 7.4 7.6 7.6 7.5 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.9 7.3 7.6 7.5	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.3 6.4 6.3 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.8 7.0 7.1 6.8 8 7.0	MAX 8.9 9.0 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 9.2 8.4 8.5 8.7 9.2 9.4 9.0	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.6 8.2 8.0 7.3 7.3 7.3	MEAN SR 8.66 8.65 8.00 7.6 7.6 7.6 7.6 7.9 7.7 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.8 8.0 8.0 8.0 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.0 8.6 8.6 8.0 8.6 8.0 8.6 8.9 9.2 9.2 9.2 9.1 9.2 9.1 9.3 9.5 7.8	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.2 7.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.5 7.9 7.7 6.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.2 7.4	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.6 7.7 7.5 7.1	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.6 5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.4 6.5	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.9 7.0 6.9 6.8 7.0 6.8 7.0 6.8 6.7 7.0 6.9 6.8 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 6.8 7.0 6.9 7.0 6.9 7.0 6.9 6.8 7.0 6.9 7.0 6.9 6.8 7.0 6.9 7.0 6.9 6.8 7.0 6.9 6.9 6.8 6.9 7.0 6.9 6.9 7.0 6.9 6.9 7.0 6.9 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MAX 8.9 9.0 8.4 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.5 7.7 7.4 7.4 7.4 7.6 7.8 8.2 8.0 7.3 7.3 7.4	MEAN ER 8.66 8.55 8.00 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.4 8.80 8.0 8.0 8.0 8.1 8.0 8.1 8.0 8.0 8.1 8.0 8.1 8.0 8.0 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.4 7.2 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.0 8.6 8.6 8.0 8.6 8.2 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.8 7.4	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.2	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.2 6.6 5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.6 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.8 6.9 7.0 6.8 6.9 7.0 6.8 6.9 7.0 6.9 7.1 6.9 7.4	MAX 8.9 9.0 8.4 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 9.2 9.4 9.0 8.5 8.9 9.0 9.0 8.5 8.7 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.6 7.8 8.2 8.0 7.3 7.3 7.0 7.3 7.0 7.0	MEAN ER 8.66 8.55 8.00 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 8.80 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 7.9 7.8 7.9
DAY 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	MAX 9.1 8.7 8.9 8.4 8.7 8.1 8.9 9.0 8.6 8.6 8.6 8.6 8.2 9.2 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.8 7.4 7.5	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.6 8.9 8.8 8.8 8.8 8.8 8.5 7.9 7.7 6.8 6.8 7.0	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 8.3 8.3 8.1 7.7 8.8 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 8.9 8.5 8.2 7.4 7.1 7.2	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.9 7.5 7.1 7.3 7.4	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.2 6.5	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0 6.8 6.1 6.1 6.1 6.2 6.6 5 6.5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.7 6.6 6.6 6.7 6.7 6.9 6.9 6.9 6.8 7.0 6.9 6.8 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 7.0 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.7 8.2 8.4 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MEAN R 8.66 8.55 8.00 7.6 7.6 7.6 7.6 7.6 7.7 7.4 7.2 7.4 7.2 7.4 7.4 7.2 7.4 7.4 8.0 8.0 8.0 8.0 8.0 7.6 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
DAY 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	MAX 9.1 8.7 8.4 8.7 8.1 9.0 8.6 8.6 8.6 8.6 8.6 9.2 9.2 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.4 7.5	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.5 7.5 7.5 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MEAN 8.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.1 8.1 8.1 9.0 9.1 9.0 9.1 9.0 8.5 8.2 7.4 7.1 7.2 7.3	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.5 6.4	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.7 7.5 7.7 7.7 7.9 7.3 7.6 7.5 7.2 7.9 8.0 8.0	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5 6.3 6.4 6.3 6.4 6.3 6.3 6.4 6.3 6.4 6.6 6.6	MEAN 6.4 6.6 6.7 6.7 6.6 6.6 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.9 6.8 7.0 6.9 7.0 6.8 7.0 6.8 7.0 7.1 6.9 6.8 7.0 7.1 6.9 7.2 7.3	MAX 8.9 9.0 8.9 8.6 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 9.2 9.4 9.0 8.5 8.9 9.0 8.1 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.5 8.2 8.0 7.3 7.3 7.3 7.3 7.0 7.0 7.1 7.0	MEAN 8.6 8.6 8.5 8.0 7.6 7.6 7.6 7.6 7.7 7.4 7.2 7.4 7.2 7.4 7.8 8.0 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.4 8.5 8.5 7.6 7.6 7.7 7.4 7.8 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.5 7.6 7.7 7.4 7.8 8.0 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 7.7 7.4 7.8 8.0 8.0 8.0 8.0 8.0 7.7 7.4 7.8 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8
DAY 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	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.0 8.6 8.0 8.6 8.0 8.6 8.0 8.6 9.2 9.2 9.2 9.1 9.3 9.5 7.8 7.5 7.5	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.7 8.9 8.2 7.9 8.2 7.9 8.2 7.7 8.9 8.2 7.9 8.2 7.7 8.9 8.2 7.9 8.2 7.7 8.9 8.2 7.7 8.9 8.2 7.7 8.9 8.2 7.7 8.9 8.2 7.7 8.9 8.2 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.9 8.2 7.4 7.1 7.2 7.3	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.1 7.5 7.1 7.3 7.4 7.3 7.3	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.5 6.4 6.5 6.4 6.5 6.4 6.5	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 6.5 6.5 6.3 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.9 7.0 6.9 6.9 6.9 6.9 6.8 7.0 6.9 7.0 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 7.0 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MEAN ER 8.66 8.55 8.00 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 8.0 8.0 8.0 8.0 8.1 8.0 8.0 8.1 8.0 8.0 7.6 8.3 7.9 7.8 7.9 7.9 7.9 7.4 8.0 8.0 8.0 7.6 7.9 7.7 7.4 8.0 8.0 8.0 7.6 7.9 7.7 7.4 7.4 7.2 7.4 8.0 8.0 8.0 8.0 8.0 7.6 7.9 7.7 7.4 7.4 8.0 8.0 8.0 7.5 7.4 7.4 7.4 7.4 8.0 8.0 8.0 8.0 7.5 7.7 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
DAY 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	MAX 9.1 8.7 8.9 8.4 8.7 8.1 9.0 8.6 8.2 8.6 8.2 9.2 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.8 7.5 7.5 7.7	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.8 8.9 8.8 8.8 8.9 8.8 8.5 7.9 7.7 6.8 6.8 7.0 7.0 7.0 7.0	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 8.8 8.1 7.7 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.5 8.5 7.4 7.1 7.3 7.3 7.3	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.2 6.2 6.2 6.2 6.5 6.4 6.5 6.2	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 6.0 6.1 6.1 6.1 6.1 6.2 6.6 5 6.5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.9 7.0 6.9 6.8 7.0 6.9 6.8 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.8 7.0 7.0 6.9 7.0 6.8 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 6.9 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.5 8.7 8.5 8.7 8.5 8.7 8.5 8.7 8.5 8.7 8.5 8.7 8.5 8.5 8.7 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MEAN R 8.66 8.55 8.00 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.4 8.0 8.0 8.0 8.0 8.0 8.0 7.6 7.6 7.9 7.7 7.4 8.3 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
DAY 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	MAX 9.1 8.9 8.4 8.7 8.9 9.0 8.6 8.6 8.6 8.6 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.5 7.5 7.5 7.6 7.8	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.8 8.9 8.8 8.8 8.8 8.8 8.5 7.9 7.7 6.8 6.8 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MEAN 8.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.9 8.5 8.2 7.1 7.3 7.3 7.3 7.3 7.3 7.3	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.2 6.2 6.5 6.4 6.5 6.4 6.5 6.2 6.5 6.4 6.5 6.2 6.5	MEAN 7.4 7.1 6.7 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.7 7.5 7.7 7.5 7.7 7.5 7.7 7.9 8.0 8.2 7.8 8.4 8.8	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 5.1 6.1 6.1 6.1 6.2 6.6 5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.7 6.7 6.7 6.9 7.0 6.9 6.9 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.9 6.8 7.0 6.9 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.9 6.8 7.0 6.8 7.0 6.9 6.8 7.0 7.0 6.8 7.0 7.0 6.8 7.0 7.0 6.8 7.0 7.0 7.1 6.9 6.8 7.0 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.5 8.7 8.2 9.0 8.5 8.7 8.2 8.4 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.2 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.5 8.7 8.2 8.5 8.7 8.5 8.5 8.7 8.5 8.7 8.5 8.5 8.7 8.5 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MEAN 8.66 8.55 8.00 7.6 7.6 7.6 7.6 7.7 7.4 7.2 7.4 7.2 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 7.7 7.4 7.2 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.5 8.0 7.6 7.7 7.7 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.2 7.4 7.4 7.5 7.9 7.7 7.8 8.0 8.0 8.0 8.0 8.0 8.0 7.7 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.2 7.4 7.5 8.0 8.0 8.0 8.0 7.7 7.7 7.4 7.2 7.4 7.2 7.4 7.5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0
DAY 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 20 30 31 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 20 31 22 24 25 26 27 28 20 20 21 22 23 24 25 26 20 20 21 22 23 24 25 20 20 20 20 21 22 23 24 25 20 20 20 21 22 23 24 25 26 27 20 20 21 22 23 24 25 26 27 20 21 22 23 24 25 26 27 28 20 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 29 30 31 31 25 26 27 28 29 30 31 22 23 24 25 26 27 28 29 30 31 27 26 27 28 29 30 31 27 27 28 29 30 31 27 27 28 29 30 31 27 26 27 28 29 30 31 27 27 28 29 30 31 31 27 27 28 29 30 31 31 27 27 28 29 30 31 31 27 28 29 30 31 31 27 26 27 28 29 30 31 31 27 26 27 26 27 28 29 30 31 31 27 26 27 28 29 30 31	MAX 9.1 8.7 8.9 9.0 8.6 8.9 9.2 9.2 9.2 9.2 9.1 9.3 9.0 8.5 7.4 7.5 7.6 7.7 87 7.8 	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.9 8.2 7.9 7.7 7.5 7.9 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.5 7.9 7.7 6.8 6.8 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 7.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.5 8.2 7.1 7.3 7.3 7.3 7.3 7.3 7.4 	MAX 7.9 7.7 7.2 7.4 7.8 8.0 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.2 6.2 6.2 6.5 6.4 6.5 6.4 5.8	MEAN 7.4 7.1 6.7 6.6 6.7 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.7 7.5 7.7 7.5 7.7 7.9 7.3 7.6 7.5 7.2 7.9 8.0 8.2 7.8 4 8.8 8.4 8.2 7.8	MIN AUGUST 5.7 5.5 6.3 5.9 6.0 6.0 6.0 6.1 6.1 6.1 6.1 6.2 6.6 5 6.5 6.5 6.3 6.4 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	MEAN 6.4 6.6 6.7 6.7 6.7 6.9 7.0 6.9 6.8 7.0 6.9 6.8 7.0 7.1 7.2 7.2 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.5 8.7 8.2 8.4 8.5 8.7 8.5 8.5 8.7 8.5 8.7 8.5 8.5 8.7 8.5 8.5 8.5 8.7 8.5 8.5 8.7 8.5 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.7 8.5 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.3 8.1 7.1 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	MEAN 8.66 8.65 8.00 7.6 7.6 7.6 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
DAY 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 MONTH	MAX 9.1 8.7 8.9 8.4 8.7 8.9 9.0 8.6 8.9 9.2 9.2 9.2 9.2 9.1 9.3 9.05 7.8 7.5 7.56 7.76 7.7 9.3	MIN JUNE 6.7 5.7 6.5 5.8 7.6 7.2 7.7 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.9 8.2 7.7 6.5 8.2 7.9 8.2 7.9 8.2 7.9 8.6 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.5 7.7 6.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MEAN 8.2 7.2 7.5 7.3 8.2 7.7 8.7 9.0 8.8 8.3 8.1 7.7 8.8 8.1 8.8 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.5 2 7.4 7.5 7.3 8.2 8.2 7.5 7.5 7.3 8.2 7.5 7.5 7.3 8.2 7.5 7.5 7.3 8.2 7.5 7.5 7.3 8.2 8.2 7.5 7.5 7.5 8.2 7.5 7.5 8.2 7.5 7.5 8.2 8.2 8.2 8.2 7.5 7.5 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	MAX 7.9 7.7 7.2 7.2 7.4 7.8 8.0 8.0 8.0 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MIN JULY 7.0 6.3 6.1 6.0 6.2 6.5 6.4 6.6 6.7 6.8 6.5 6.3 6.2 6.2 6.2 6.5 6.4 6.5 6.3 6.2 6.2 6.5 6.4 6.5 6.5 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 8.5 8.5 8.5 8.5	MEAN 7.4 7.1 6.7 6.6 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MAX 7.4 8.0 7.1 7.3 7.1 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.7 7.7 7.7 7.9 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MIN AUGUST 5.7 5.7 6.5 6.3 5.9 6.0 6.0 6.0 5.8 6.1 6.1 6.1 6.1 6.2 6.6 5.5 6.5 6.5 6.3 6.4 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.4 8.3 6.3 6.5 8.3 5.9	MEAN 6.4 6.6 6.8 6.7 6.4 6.6 6.6 6.7 6.9 7.0 6.9 6.9 6.9 6.9 7.0 7.0 7.2 7.9 8.5 8.6 7.0 7.0 7.0 7.2 7.9 8.5 8.6 7.0	MAX 8.9 9.0 8.4 8.4 8.4 8.5 8.2 7.9 7.7 8.2 8.4 8.5 8.7 8.2 8.4 8.5 8.7 8.2 8.4 9.0 8.5 8.7 9.4 9.0 8.5 8.5 8.7 9.0 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.7 9.2 9.4 9.0 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN SEPTEMBI 8.3 8.3 8.1 7.1 7.0 7.0 6.9 7.5 7.1 7.0 6.8 6.8 7.3 7.5 7.7 7.4 7.4 7.4 7.6 7.8 8.2 8.0 7.3 7.3 7.3 7.3 7.0 7.0 7.0 7.1 7.0 7.0 7.0 7.0 6.8 8.2 8.2 8.0 7.5 7.7 7.4 7.4 7.6 7.5 7.7 7.4 7.4 7.6 7.5 7.7 7.4 7.4 7.6 7.5 7.7 7.4 7.6 7.5 7.7 7.4 7.6 7.5 7.7 7.4 7.6 7.6 7.5 7.7 7.7 7.4 7.6 7.6 7.5 7.7 7.7 7.4 7.6 7.6 7.5 7.7 7.7 7.4 7.6 7.5 7.7 7.7 7.4 7.6 7.5 7.7 7.4 7.6 7.5 7.7 7.7 7.4 7.6 7.5 7.7 7.7 7.4 7.6 7.5 7.7 7.4 7.6 7.5 7.7 7.1 7.6 7.5 7.7 7.7 7.4 7.6 7.3 7.7 7.4 7.6 7.3 7.7 7.4 7.4 7.6 7.3 7.3 7.5 7.1 7.6 7.6 7.5 7.7 7.1 7.6 7.6 7.5 7.7 7.7 7.4 7.4 7.6 7.3 7.7 7.1 7.4 7.6 7.3 7.7 7.1 7.4 7.6 7.1 7.6 7.6 7.1 7.6 7.6 7.7 7.7 7.4 7.6 7.3 7.7 7.7 7.4 7.6 7.3 7.7 7.7 7.6 7.6 7.6 7.6 7.7 7.7 7.4 7.4 7.6 7.3 7.7 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.4 7.6 7.3 7.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	MEAN R 8.66 8.55 8.00 7.6 7.66 7.9 7.7 7.4 7.2 7.4 7.2 7.4 7.2 7.4 8.0 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 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

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

OXYGEN DIS. PERCENT DOWNSTREAM OF DAM, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER		D	ECEMBER			JANUAR	Y
1				99	90	93	101	96	98	103	99	100
2	93	85	88	101	90	94	101	97	99	104	100	101
2	93	83	80	101	90	97	105	97	99	103	100	101
3	95	86	80	99	90	95	103	96	99	103	100	101
5	93	85	89			92	104	90	100	103	99	101
5	33	65	00				104	90	100	104	33	101
6	91	84	86				104	98	100	102	98	101
7	91	82	86	98	87	91	104	97	200	102	98	101
8	93	83	87	97	86	90	103	95	98	103	99	101
ğ	93	83	87	99	88	91	103	98	100	102	99	100
10	95	85	89	97	89	92	104	99	101	103	99	100
		00			05					200		200
11	97	88	91	98	90	93	104	99	101	103	99	100
12	99	87	91	96	88	91	103	98	100	103	99	100
13	101	86	92	96	86	91	101	98	99	101	98	99
14	98	86	90	98	88	92	101	97	98	104	99	101
15	96	87	91	99	85	92	102	97	99	104	99	101
16	96	89	92	98	89	92	103	99	100	104	99	101
17	94	86	89	99	94	96	101	97	98	104	100	101
18	94	86	89	99	93	95	99	96	97	104	100	101
19	96	87	90	98	91	94	101	97	99	103	100	101
20	97	88	91	101	91	96	101	97	99	105	99	101
21	100	88	92	101	95	97	102	97	99	103	100	101
22	100	88	92	101	95	98	103	98	100	104	99	102
23	95	86	90	102	96	98	102	98	99	106	99	102
24	99	86	91	101	97	98	101	97	99	102	100	101
25	95	85	89	104	96	99	101	98	99	106	98	101
26	95	84	88	102	98	100	100	97	98	108	99	103
27	95	85	89	103	99	100	99	96	97	109	101	104
28	98	86	90	104	99	100	100	96	97	110	100	104
29	96	87	90	100	98	99	101	96	98	111	100	104
30	99	89	92	102	96	98	101	97	99	106	100	103
31	94	89	92				101	98	99	104	101	102
MONTH	101	82	90	104	85	95	105	95	99	111	98	101
DAV	MAY	MTN	MEAN	MAY	MTN	MEAN	MAY	MTN	MEAN	MAY	MTN	MEAN
DAI	PIAA	MILIN	MEAN	MAA	PILIN	MEAN	MAA	MIIN	MEAN	MAA	MIN	MEAN
		FEBRIIARY			MARCH			APRTT.			MAY	
		FEBRUARY			MARCH			APRIL			MAY	
1	103	FEBRUARY 99	101	120	MARCH	111		APRIL		100	MAY 98	99
1 2	103 107	FEBRUARY 99 99	101 103	120 120	MARCH 104 105	111 111	 109	APRIL 91	 99	100 102	MAY 98 98	99 99
1 2 3	103 107 108	FEBRUARY 99 99 100	101 103 103	120 120 108	MARCH 104 105 102	111 111 105	 109 104	APRIL 91 92	 99 95	100 102 101	MAY 98 98 98	99 99 99
1 2 3 4	103 107 108 106	FEBRUARY 99 99 100 101	101 103 103 103	120 120 108 104	MARCH 104 105 102 100	111 111 105 102	 109 104 106	APRIL 91 92 91	 99 95 97	100 102 101 102	MAY 98 98 98 99	99 99 99 101
1 2 3 4 5	103 107 108 106 108	FEBRUARY 99 99 100 101 100	101 103 103 103 103	120 120 108 104 105	MARCH 104 105 102 100 94	111 111 105 102 99	 109 104 106 108	APRIL 91 92 91 89	99 95 97 99	100 102 101 102 104	MAY 98 98 98 99 99	99 99 99 101 101
1 2 3 4 5	103 107 108 106 108	FEBRUARY 99 99 100 101 100	101 103 103 103 103	120 120 108 104 105	MARCH 104 105 102 100 94	111 111 105 102 99	109 104 106 108	APRIL 91 92 91 89	99 95 97 99	100 102 101 102 104	MAY 98 98 99 99 99	99 99 99 101 101
1 2 3 4 5	103 107 108 106 108 109	FEBRUARY 99 100 101 100 101	101 103 103 103 103	120 120 108 104 105	MARCH 104 105 102 100 94 91	111 111 105 102 99 95	109 104 106 108 103	APRIL 91 92 91 89 91	99 95 97 99 98	100 102 101 102 104	MAY 98 98 99 99 99	99 99 99 101 101
1 2 3 4 5 6 7	103 107 108 106 108 109 108	99 99 100 101 100 101 101	101 103 103 103 103 103	120 120 108 104 105 100 103	MARCH 104 105 102 100 94 91 88	111 111 105 102 99 95 96	109 104 106 108 103 111	APRIL 91 92 91 89 91 93	99 95 97 99 98 100	100 102 101 102 104 104	MAY 98 98 99 99 99 99	99 99 99 101 101 100 99
1 2 3 4 5 6 7 8	103 107 108 106 108 109 108 109	FEBRUARY 99 100 101 100 101 101 101	101 103 103 103 103 103 103 104	120 120 108 104 105 100 103 103	MARCH 104 105 102 100 94 91 88 90	111 111 105 102 99 95 96 96	 109 104 106 108 103 111 109	APRIL 91 92 91 89 91 93 97	 99 95 97 99 98 100 101	100 102 101 102 104 104 103 108	MAY 98 98 99 99 99 97 94 92	99 99 101 101 100 99 99
1 2 3 4 5 7 8 9	103 107 108 106 108 109 108 109 111	FEBRUARY 99 100 101 100 101 101 101 103	101 103 103 103 103 103 104 106	120 120 108 104 105 100 103 103 106	MARCH 104 105 102 100 94 91 88 90 90	111 111 105 102 99 95 96 96 96 97	 109 104 106 108 103 111 109 112	APRIL 91 92 91 89 91 93 97 95	 99 95 97 99 98 100 101 102	100 102 101 102 104 103 108 93	MAY 98 98 99 99 99 97 94 92 83	99 99 101 101 100 99 99 88
1 2 3 4 5 6 7 8 9 10	103 107 108 106 108 109 108 109 111 111	FEBRUARY 99 100 101 100 101 101 101 101 103 104	101 103 103 103 103 103 103 104 106 106	120 108 104 105 100 103 103 106 99	MARCH 104 105 102 100 94 91 88 90 90 90 89	111 111 105 102 99 95 96 96 97 94	 109 104 106 108 103 111 109 112 113	APRIL 91 92 91 89 91 93 97 95 96	99 95 97 99 98 100 101 102 103	100 102 101 102 104 104 103 108 93 107	MAY 98 98 99 99 99 97 94 92 83 81	99 99 101 101 100 99 99 88 92
1 2 3 4 5 6 7 8 9 10	103 107 108 106 108 109 108 109 111 111	FEBRUARY 99 100 101 100 101 101 101 103 104	101 103 103 103 103 103 104 106 106	120 108 104 105 100 103 103 106 99	MARCH 104 105 102 100 94 91 88 90 90 89 89	111 111 105 102 99 95 96 96 97 94	 109 104 106 108 103 111 109 112 113	APRIL 91 92 91 89 91 93 97 95 96	99 95 97 99 98 100 101 102 103	100 102 101 102 104 103 103 103 93 107	MAY 98 98 99 99 99 97 94 92 83 81	99 99 101 101 100 99 99 88 92
1 2 3 4 5 7 8 9 10 11	103 107 108 106 108 109 108 109 111 111 107	FEBRUARY 99 100 101 101 101 101 101 103 104 102	101 103 103 103 103 103 104 106 106	120 120 108 104 105 100 103 103 103 106 99 104	MARCH 104 105 102 100 94 91 88 90 90 89 85	111 111 105 102 99 95 96 96 96 97 94 95	 109 104 106 108 103 111 109 112 113 115	APRIL 91 92 91 89 91 93 97 95 96 94	99 95 97 99 98 100 101 102 103	100 102 101 102 104 103 103 103 103 107 106	MAY 98 98 99 99 99 97 94 92 83 81 81	99 99 101 101 100 99 99 88 92 94
1 2 3 4 5 6 7 8 9 10 11 12	103 107 108 106 108 109 109 111 111 107 109	FEBRUARY 99 99 100 101 101 101 101 101 103 104 102 104	101 103 103 103 103 103 104 106 106 105	120 120 108 104 105 100 103 103 106 99 104	MARCH 104 105 102 100 94 91 88 90 90 89 89 85 90	111 105 102 99 95 96 96 97 94 95 96	 109 104 106 108 103 111 109 112 113 115 107	APRIL 91 92 91 89 91 93 97 95 96 94 93	 99 95 97 99 98 100 101 102 103 103	100 102 101 102 104 104 103 108 93 107 106 99	MAY 98 98 99 99 99 97 94 92 83 81 81 82	99 99 90 101 100 99 88 92 94 92
1 2 3 4 5 6 7 8 9 10 11 12 13	103 107 108 106 108 109 111 111 111 107 109 110	FEBRUARY 99 99 100 101 101 101 101 101 103 104 102 104 103	101 103 103 103 103 103 104 106 106	120 120 108 104 105 100 103 103 103 103 106 99 104 105 101	MARCH 104 105 102 100 94 91 88 90 90 89 89 85 90 91	111 105 102 99 96 96 96 97 94 95 96 95	 109 104 106 108 103 111 109 112 113 115 107 107	APRIL 91 92 91 89 91 93 97 95 96 94 93 90	99 95 97 99 98 100 101 102 103 103 100 97	100 102 101 102 104 104 103 108 93 107 106 99 99	MAY 98 98 99 99 97 94 92 83 81 82 82 96	99 99 101 101 100 99 98 88 92 94 92 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103	101 103 103 103 103 104 106 106 105 105 105	120 120 108 104 105 100 103 103 103 106 99 104 105 101 111	MARCH 104 105 102 100 94 91 88 90 90 90 89 89 85 90 91 90	111 105 102 99 95 96 97 94 95 96 97 94 95 95	 109 104 106 108 103 111 109 112 113 115 107 107 117	APRIL 91 92 91 89 91 93 95 96 94 93 92	99 95 97 99 98 100 101 102 103 103 100 97 101	100 102 101 102 104 103 103 103 103 107 106 99 107 100	MAY 98 98 99 99 97 94 42 83 81 82 82 82 97	99 99 101 101 100 99 88 92 94 92 94 92 101 98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 102 104 103 103	101 103 103 103 103 103 104 106 106 106 105 105 106 107 108	120 120 108 104 105 100 103 103 106 99 104 105 101 111	MARCH 104 105 102 100 94 91 88 90 90 90 89 85 90 91 90 90	111 105 102 99 95 96 96 97 94 95 96 95 96	 109 104 106 108 103 111 109 112 113 115 107 107 107 107	APRIL 91 92 91 89 91 93 95 96 94 93 90 92 92	 99 95 97 99 98 100 101 102 103 100 97	100 102 101 102 104 103 108 93 107 106 99 107 100 101	MAY 98 98 99 99 97 94 92 83 81 82 82 96 97 99	99 99 99 101 101 100 99 99 88 92 94 92 101 98 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	103 107 108 106 108 109 108 109 111 111 107 109 110 112 113	FEBRUARY 99 99 100 101 101 101 101 101 103 104 102 104 103 103 105	101 103 103 103 103 103 103 104 106 106 105 105 106 107 108	120 108 104 105 100 103 103 103 103 106 99 104 105 101 111	MARCH 104 105 102 100 94 91 88 90 90 89 89 85 90 91 90 91 90	111 105 102 99 95 96 97 94 95 96 95 100 	 109 104 106 108 103 111 109 112 113 115 107 107 107 102	APRIL 91 92 91 89 91 93 97 95 96 94 93 90 92 92 92	99 95 97 99 98 100 101 102 103 103 100 97 101	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101	MAY 98 98 99 99 99 97 94 92 83 81 82 82 82 82 96 97	99 99 99 101 101 100 99 98 89 92 94 92 101 98 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	103 107 108 106 108 109 108 109 108 109 111 111 111 107 109 110 112 113 114	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 103 105 104	101 103 103 103 103 104 106 106 105 105 106 107 108 108	120 120 108 104 105 100 103 103 103 106 99 104 105 101 111 	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 	111 105 102 99 95 96 97 94 95 96 97 94 95 100 	 109 104 106 108 103 111 109 112 113 115 107 107 107 117 102 102	APRIL 91 92 91 89 91 93 97 95 96 94 93 92 92 92 92 90	99 95 97 99 98 100 101 102 103 103 100 97 97 97	100 102 101 102 104 103 103 103 103 103 107 106 99 99 107 100 101	MAY 98 98 99 99 99 97 94 92 83 81 82 82 82 96 97 97 99	99 99 99 101 101 100 99 99 88 92 94 92 101 98 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115	FEBRUARY 99 99 100 101 101 101 103 104 102 104 103 103 105 104 104	101 103 103 103 103 103 104 106 106 106 105 106 105 106 107 108 108	120 120 108 104 105 100 103 103 106 99 104 105 101 111 	MARCH 104 105 102 100 94 91 88 90 90 90 89 85 90 91 90 	111 105 102 99 95 96 97 94 95 96 97 94 95 100 	 109 104 106 108 103 111 109 112 113 115 107 107 107 117 102 102	APRIL 91 92 91 89 91 93 95 96 94 93 90 92 92 90 85	 99 95 97 99 98 100 101 102 103 100 97 101 97 97 96	100 102 101 102 104 103 103 103 103 103 107 106 99 107 100 101	MAY 98 98 99 99 97 94 42 83 81 82 82 96 97 97 99 99	99 99 99 101 101 100 99 98 88 92 94 92 101 98 100 100 98
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	103 107 108 106 108 109 108 109 111 111 107 109 110 112 113 114 115 115	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 105 104 104 104	101 103 103 103 103 103 104 106 106 105 106 107 108 108 108	120 108 104 105 100 103 103 103 103 103 104 105 101 111 111 100	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92	111 105 102 99 95 96 97 94 95 96 95 100 96	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 102 102 102 102 108	APRIL 91 92 91 93 97 95 96 94 93 90 92 92 92 90 85 77	99 95 97 99 98 100 101 102 103 103 103 100 97 101 97 97 96 94	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100	MAY 98 98 99 99 97 94 92 83 81 82 82 82 96 97 99 99 98 87 97	99 99 99 101 101 100 99 98 89 92 94 92 101 98 100 100 98 99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	103 107 108 106 108 109 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115	FEBRUARY 99 100 101 101 101 101 101 103 104 104 103 103 103 105 104 104 104 104 104	101 103 103 103 103 104 106 106 106 105 105 106 107 108 108 108 108 108	120 120 108 104 105 100 103 103 103 103 103 104 105 101 111 100 101	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 117 102 102 115 108 108 100	APRIL 91 92 91 89 91 93 97 95 96 94 93 92 92 92 92 90 85 77 81	99 95 97 99 98 100 101 102 103 100 97 97 97 96 94 94	100 102 101 102 104 103 103 103 103 103 107 106 99 90 107 100 101	MAY 98 98 99 99 97 94 42 83 81 82 82 96 97 97 99 98 97 77 99	99 99 99 101 101 100 99 98 92 94 92 101 100 98 100 100 98 99 90
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 117 118	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 105 104 104 104 106 106	101 103 103 103 103 103 104 106 106 106 105 105 105 105 107 108 108 108 108 108 101	120 120 108 104 105 100 103 103 106 99 104 105 101 111 111 100 100	MARCH 104 105 102 100 94 91 88 90 90 90 90 90 90 90 90 90 90	111 105 102 99 95 96 97 94 95 96 97 94 95 100 95 100 96 101 98	 109 104 106 108 103 111 109 112 113 115 107 107 117 102 102 115 108 100 95	APRIL 91 92 91 89 91 93 95 96 94 93 90 92 92 92 90 85 77 81 82	99 95 97 99 98 100 101 102 103 103 103 103 103 97 97 96 94 91 89	100 102 101 102 104 103 103 103 103 103 103 107 106 99 107 100 101 100 99 100 101	MAY 98 98 99 99 97 94 42 83 81 82 82 82 96 6 97 97 99 99 98 97 97 100	99 99 101 101 100 99 98 88 92 94 92 101 98 100 100 98 99 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 117 118	FEBRUARY 99 99 100 101 101 101 101 101 103 104 104 103 105 104 104 104 104 104 106 106	101 103 103 103 103 103 104 106 106 106 105 106 107 108 108 108 108 108 108	120 120 108 104 105 100 103 103 106 99 104 105 101 111 100 111 99	MARCH 104 105 102 100 94 91 88 90 90 90 90 91 90 90 91 90 91 90 91 90 91 90 91 90 90 90 91 85 90 91 85 90 90 91 85 90 90 90 90 90 90 90 90 90 90	111 105 102 99 95 96 96 97 94 95 96 95 100 96 101 98	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 102 102 115 108 100 95	APRIL 91 92 91 89 91 93 95 96 94 93 90 92 90 85 77 81 82	99 95 97 99 98 100 101 102 103 103 100 97 101 97 96 94 91 89	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102	MAY 98 98 99 99 97 94 92 83 81 82 82 82 96 97 97 99 99 98 87 77 100	99 99 99 101 101 100 99 99 88 92 94 92 101 98 100 100 98 99 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	103 107 108 106 108 109 108 109 111 111 107 109 110 112 113 114 115 115 117 118 119	FEBRUARY 99 99 100 101 101 101 101 101 103 104 104 103 103 105 104 104 104 104 104 104 106 106	101 103 103 103 103 104 106 106 106 107 108 108 108 108 108 110 111	120 108 104 105 100 103 103 103 103 103 103 103 103 103	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 94	111 105 102 99 95 96 97 94 95 96 97 94 95 96 95 100 96 101 98 97	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107 107 102 102 108 108 100 95 98	APRIL 91 92 91 89 93 97 95 96 94 93 90 92 92 90 85 77 81 82 72 2	 99 95 97 99 98 100 101 102 103 103 103 103 103 103 103 97 97 96 94 91 89	100 102 101 102 104 104 103 108 93 107 106 99 99 107 100 101 100 101 100 102 102	MAY 98 98 99 99 97 4 22 83 81 82 82 82 96 97 99 99 98 97 97 100 101	99 99 99 101 101 100 99 98 82 92 94 92 101 98 100 100 98 99 90 101 101
1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 17 18 19 20 21 22	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 103 105 104 104 104 106 106 106 106	101 103 103 103 103 104 106 106 106 105 105 106 107 108 108 108 108 108 108 101 111 111	120 120 108 104 105 100 103 103 106 99 104 105 101 111 111 100 111 99 100 97	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 93 93	111 105 102 99 95 96 97 94 95 96 97 94 95 100 95 101 98 97 95	 109 104 106 108 103 111 109 112 113 115 107 107 117 102 102 115 108 100 95 98 102	APRIL 91 92 91 89 91 93 95 96 94 93 90 92 92 92 90 85 77 81 82 72 84	99 95 97 99 98 100 101 102 103 103 100 97 97 96 94 91 89 83 88	100 102 101 102 104 103 103 103 103 103 103 107 106 99 99 107 100 101 100 99 90 100 102 102 102	MAY 98 98 99 99 99 97 94 92 83 81 82 82 82 96 6 97 97 99 99 90 100 101	99 99 99 101 101 100 99 99 88 92 94 92 101 98 100 100 98 99 9101 101 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	103 107 108 106 108 109 108 109 111 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 105 104 104 104 106 106 106 105 106	101 103 103 103 103 103 104 106 106 106 105 106 107 108 108 108 108 108 108 111 111	120 120 108 104 105 100 103 103 106 99 104 105 101 111 100 111 99 100 97 99	MARCH 104 105 102 100 94 91 88 90 90 90 90 91 90 91 90 92 93 94 93 93 93 93	111 105 102 99 95 96 97 94 95 96 95 100 96 101 98 97 95 96	 109 104 106 108 103 111 109 112 113 115 107 117 107 117 102 102 115 108 100 95 98 102 102 102	APRIL 92 91 92 91 89 91 93 95 96 94 93 90 92 92 90 85 77 81 82 72 84 85 72	99 95 97 99 98 100 101 102 103 103 100 97 101 97 96 94 91 99 83 88 89 3	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102 102	MAY 98 98 99 99 99 97 94 92 83 81 82 82 96 97 97 99 99 98 87 77 100 100 100 100 97 97	99 99 99 101 101 100 99 99 88 92 94 92 101 98 100 100 100 100 101 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 5	103 107 108 106 108 109 108 109 111 111 107 109 110 112 113 114 115 115 115 117 118 119 123 124 126	FEBRUARY 99 99 100 101 101 101 101 101 103 104 104 104 103 103 105 104 104 104 104 106 106 106 105 106 105	101 103 103 103 103 104 106 106 106 107 108 108 108 108 108 108 110 111 111 113 113	120 120 108 104 105 100 103 103 103 103 103 103 103 103 103	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 93 93 92 92	111 105 102 99 96 96 97 94 95 96 95 100 96 101 98 97 95 96 97	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107 107 107	APRIL 92 91 89 91 93 97 95 96 94 93 90 92 92 90 85 77 81 82 72 84 85 85 85	 99 95 97 99 98 100 101 102 103 103 103 103 103 97 97 96 94 91 89 83 88 83 89 3 97	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 101 100 102 102 102	MAY 98 98 99 99 99 97 97 92 83 81 82 82 82 96 97 97 99 98 97 97 100 101	99 99 99 101 101 100 99 98 92 94 92 101 98 100 100 98 99 9101 101 101 101
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	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124 126 126	FEBRUARY 99 90 100 101 101 101 101 101 103 104 104 103 103 103 105 104 104 106 106 106 106 105 105 105	101 103 103 103 103 104 106 106 105 105 106 107 108 108 108 108 108 108 110 111 111 113 113 114 114	120 120 108 104 105 100 103 103 106 99 104 105 101 111 111 100 111 99 100 97 99 104 99	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 93 93 92 93	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 95	 109 104 106 108 103 111 109 112 113 115 107 107 117 102 102 102 115 108 100 95 98 102 102 102 109 97	APRIL 91 92 91 89 91 93 95 96 94 93 90 85 77 81 82 72 84 85 89	99 95 97 99 98 100 101 102 103 103 100 97 97 96 94 91 89 83 88 93 97 94	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102 102 102 102	MAY 98 98 99 99 97 94 42 83 81 82 82 96 97 97 99 99 97 100 101 100 97 97 96 96	99 99 99 101 101 100 99 88 92 94 92 101 100 100 98 99 90 101 101 101 100 100 100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26	103 107 108 106 108 109 108 109 111 111 111 111 111 112 113 114 115 115 115 117 118 119 123 124 126 126	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 105 104 104 104 104 106 106 106 106 106 105 107	101 103 103 103 103 103 104 106 106 105 105 106 107 108 108 108 108 108 108 108 111 111 113 113 114	120 120 108 104 105 100 103 106 99 104 105 101 111 100 111 99 100 97 99 104 99	MARCH 104 105 102 100 94 91 88 90 90 90 90 90 90 91 90 92 93 94 93 93 92 93	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 96	 109 104 106 108 103 111 1109 112 113 115 107 117 102 102 102 115 108 100 95 98 102 109 97	APRIL 92 91 92 91 93 95 96 94 93 90 92 92 90 85 77 82 72 84 85 89 90	99 95 97 99 98 100 101 102 103 103 100 97 101 97 96 94 91 89 83 88 893 97 94	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102 102 102 102	MAY 98 98 99 99 99 97 94 92 83 81 82 82 96 97 99 99 87 77 99 98 877 97 100 101 100 97 97	99 99 99 101 101 100 99 99 88 92 94 92 101 198 100 100 100 101 101
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 26 27 20 20 20 20 20 20 20 20 20 20	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 115 115 117 118 119 123 124 126 126 126	FEBRUARY 99 99 100 101 101 101 101 101 101 103 104 104 103 105 104 104 104 104 106 106 106 105 106 105 106	101 103 103 103 103 104 106 106 105 105 106 107 108 108 108 108 108 110 111 111 113 113 114 114	120 120 108 104 105 100 103 103 106 99 104 105 101 111 111 100 111 99 100 97 99 104 99 104 99	MARCH 104 105 102 100 94 91 88 90 90 89 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 91 90 90 91 90 90 91 90 90 91 90 90 91 90 90 90 91 90 90 90 90 90 90 90 90 90 90	111 105 102 99 96 96 97 94 95 96 95 100 96 101 98 97 95 96 97 96 97 96 97 96 95	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107 107 102 102 102 108 100 95 98 102 102 102 102 109 97	APRIL 91 92 91 93 97 95 96 94 93 97 95 96 94 93 90 92 92 90 85 85 85 89 89 89	 99 95 97 99 98 100 101 102 103 103 103 103 103 103 103 97 97 96 94 91 89 83 88 83 89 97 94 95	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 100 102 102 102 102 102 101 103 104 105	MAY 98 98 99 99 99 97 94 92 83 81 82 82 82 96 97 99 99 99 99 90 100 101 100 97 97 97 96 96 95	99 99 99 101 101 100 99 88 92 94 92 101 98 100 100 100 100 100 100 100 100
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 8	103 107 108 106 108 109 108 109 111 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124 126 126 126	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 103 103 105 104 104 106 106 106 105 107 105 107	101 103 103 103 103 104 106 106 105 105 106 107 108 108 108 108 108 108 108 110 111 111	120 120 108 104 105 100 103 103 103 104 105 101 111 111 100 111 99 100 97 99 104 99 104 99 95 98	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 90 91 91 93 93 93 93 93 92 93 91 91 91	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 96 95 100 96 101 98 97 95 96 97 95 96 97 95 96 95 95 96 95 95 96 95 97 95 96 97 97 95 96 97 97 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	 109 104 106 108 103 111 119 112 113 115 107 107 117 102 102 105 98 102 109 97 102 109 97	APRIL 92 91 89 91 93 97 95 96 94 93 90 92 92 92 90 85 77 81 82 72 84 85 89 89 89 89	 99 95 97 99 98 100 101 102 103 100 97 101 97 97 96 94 91 89 83 88 89 93 97 94 95 97	100 102 101 102 104 104 103 108 93 107 106 99 99 107 100 101 100 101 100 102 102 102 102 102	MAY 98 98 99 99 99 97 94 92 83 81 82 82 96 97 97 99 99 97 100 101 100 97 97 96 96 95 95 93	99 99 99 101 101 100 99 88 92 94 92 101 100 100 98 99 90 101 101 101 101 100 100 100 100
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	103 107 108 106 108 109 108 109 111 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124 126 126 124 119 118	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 105 104 104 106 106 106 106 106 106 105 106 105 107 105 104 105	101 103 103 103 103 103 104 106 106 105 105 105 105 106 107 108 108 108 108 108 108 108 101 111 113 113 114 114	120 120 108 104 105 100 103 106 99 104 105 101 111 100 111 99 100 97 99 104 99 95 98 100	MARCH 104 105 102 100 94 91 88 90 90 90 90 90 90 90 90 90 90	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 96 97 96 97 96 97 96 97 97 96	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107 107 107	APRIL 92 91 92 91 93 95 96 94 93 90 92 92 92 90 85 777 81 82 72 84 85 89 89 89 89	99 95 97 98 100 101 102 103 103 100 97 101 107 97 96 94 91 97 95 97 95	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102 102 102 102 102 103 103 104	MAY 98 98 99 99 99 97 94 92 83 81 82 82 96 97 99 99 98 87 77 100 101 100 100 97 97 95 96 95 93	99 99 99 101 101 100 99 98 88 92 101 101 98 100 100 100 100 100 100 100 100 100 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 29 20 21 22 23 24 25 26 28 29 20 21 22 23 24 25 26 27 28 20 20 21 21 21 21 21 21 21 21 21 21	103 107 108 106 108 109 108 109 111 111 111 111 107 109 110 112 113 114 115 115 115 115 115 115 115 115 115	FEBRUARY 99 99 100 101 101 101 101 101 101 103 104 104 103 105 104 104 104 104 106 106 105 106 105 106 105 107 105	101 103 103 103 103 104 106 106 107 108 108 108 108 108 108 108 111 111 113 113 114 114 113 113 114	120 120 108 104 105 100 103 103 106 99 104 105 101 111 111 100 111 199 100 97 99 104 99 104 99 99 104 99 100 105 100 105	MARCH 104 105 102 100 94 91 88 90 90 89 90 91 90 92 93 94 93 93 93 93 93 93 93 93 93 93	111 105 102 99 96 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 96 97 96 97 96 97 96 97 96	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107 107 102 102 102 102 102 102 102 102 102 102	APRIL 92 91 92 91 93 97 95 96 94 93 97 95 96 94 93 90 92 92 90 85 77 81 82 72 84 85 85 89 89 89 89 89 87 77 77 77 77 85 85 85 85 85 85 85 85 85 85	 99 95 97 99 98 100 101 102 103 103 100 97 101 97 97 96 94 91 89 83 88 83 89 93 97 94 95 97 94	100 102 101 102 104 103 108 93 107 106 99 107 100 101 100 100 102 102 102 102 102 102	MAY 98 98 99 99 99 97 94 92 83 81 82 82 82 82 96 97 99 99 99 99 90 100 101 100 97 97 97 97 96 96 95 97 97 97	99 99 99 101 101 100 99 98 88 92 94 92 101 98 100 100 100 100 100 100 100 100 100 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 29 30	103 107 108 106 108 109 108 109 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124 126 126 126 124	FEBRUARY 99 99 100 101 101 101 101 103 104 104 104 104 104 104 106 106 106 105 107 105 107 105 104	101 103 103 103 103 104 106 106 106 107 108 108 108 108 108 108 108 108 110 111 111	120 120 108 104 105 100 103 103 106 99 104 105 101 111 99 100 97 99 104 99 95 98 100 105 	MARCH 104 105 102 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 93 93 92 93 91 91 92 86 	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 96 97 96 97 96 97 96 97 96	 109 104 106 108 103 111 109 112 113 115 107 107 107 107 107 107 107 107	APRIL 91 92 91 89 91 93 97 95 96 94 93 92 92 92 90 85 77 81 82 72 84 85 89 89 89 89 89	 99 95 97 99 98 100 101 102 103 103 100 97 101 97 97 96 94 91 89 83 88 83 89 3 97 94 95 97 94	100 102 101 102 104 103 108 93 107 106 99 107 100 101 100 101 100 102 102 102 102 102	MAY 98 98 99 99 97 92 83 81 82 82 82 96 97 97 99 99 98 97 97 100 101 100 97 97 97 97 97 88 97 97 97 97 97 97 97 99 98 87 87 80 87 80 87 80 87 80 80 80 80 80 80 80 80 80 80 80 80 80	99 99 99 101 101 100 99 98 92 101 100 98 99 101 101 101 101 100 100 100 100 100
1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 9 30 31	103 107 108 106 108 109 108 109 111 111 111 111 107 109 110 112 113 114 115 115 117 118 119 123 124 126 126 126 124 119 118 124	FEBRUARY 99 99 100 101 101 101 101 103 104 102 104 103 103 103 103 105 104 104 106 106 106 106 106 106 106 107 105 107 105 104	101 103 103 103 103 104 106 106 106 105 105 106 107 108 108 108 108 108 108 108 108 101 111 11	120 120 108 104 105 100 103 103 106 99 104 105 101 111 99 100 97 99 104 99 104 99 95 98 100 105 	MARCH 104 105 100 94 91 88 90 90 89 85 90 91 90 92 93 94 93 93 93 93 93 93 93 93 93 93	111 105 102 99 95 96 97 94 95 96 97 94 95 100 96 101 98 97 95 96 97 96 97 96 97 96 97 96 97 96 97 96 97 96 97 96 97 97 96 97 97 97 97 97 97 97 97 97 97 97 97 97	 109 104 106 108 103 111 109 112 113 115 107 107 117 102 102 102 102 102 102 102 102 102 102	APRIL 91 92 91 89 91 93 95 96 94 93 90 85 77 81 82 72 84 85 89 89 89 89 89 89 89 89 89 89	 99 95 97 99 98 100 101 102 103 103 100 97 97 96 97 97 96 94 91 89 83 88 93 97 94 95 97 95 98 99 99	100 102 101 102 104 104 103 108 93 107 106 99 107 100 101 100 99 100 102 102 102 102 102 102 103 104 104 104 104 110	MAY 98 98 99 99 97 94 92 83 81 82 82 96 97 97 99 99 97 100 101 100 101 100 97 97 96 95 93 87 87 84	99 99 99 101 101 100 99 98 92 101 108 100 100 100 100 100 100 100 100

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		:	SEPTEMBE	R
1	106	79	95	98	88	92	96	71	83	99	93	96
2	103	67	85	98	83	90	105	73	85	100	92	95
3	105	75	87	97	82	88	92	82	87	103	90	96
4	99	67	85	97	80	87	95	80	86	102	84	93
5	100	88	94	98	80	88	91	75	82	100	83	90
6	95	84	91	99	79	88	93	75	83	101	81	89
7	100	89	97	101	81	90	93	73	82	100	80	89
8	98	96	98	102	81	91	91	71	81	100	86	91
9	97	93	96	99	81	89	93	74	82	98	85	90
10	100	89	95	101	83	91	92	74	82	94	82	88
11	98	88	92				94	75	84	91	79	85
12	95	88	91				95	80	87	95	78	86
13	93	90	92				94	81	86	96	83	89
14	95	90	92				96	81	87	99	84	91
15	96	94	95				96	79	86	94	87	90
16	97	95	96				99	80	89	97	86	93
17	99	96	98				99	80	88	100	86	93
18	101	98	99				100	82	89	102	87	93
19	103	99	100				100	80	89	105	88	95
20	106	98	102				102	80	90	107	92	98
21	106	98	102	95	86	90	95	79	87	104	92	96
22	103	97	100	96	81	88	95	75	84	99	85	92
23	101	94	98	94	79	85	93	79	86	99	85	91
24	95	86	92	89	77	84	88	81	84	104	80	90
25	94	85	89	92	77	85	98	84	91	103	80	90
26	94	87	89	92	80	85	99	80	89	91	81	86
27	93	87	90	90	77	83	100	80	89	94	86	91
28	94	89	92	88	78	82	94	80	86	97	88	92
29	98	88	92	97	76	85	98	82	92	95	87	90
30	99	87	93	94	77	84	101	95	98	94	86	89
31				98	73	85	104	94	98			
MONTH	106	67	94	102	73	87	105	71	87	107	78	91
YEAR	126	67	95									

OXYGEN DIS. PERCENT DOWNSTREAM OF DAM, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE DOWNSTREAM OF DAM, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
		OCTOBER	1	N	OVEMBER		DI	ECEMBER			JANUARY	
1	519	506	514	559	556	557	602	592	599	651	646	650
2	521	519	520	560	557	558	601	597	598	654	651	653
3	525	520	522	563	551	557	598	594	597	655	653	654
4	528	523	526	565	563	565	596	594	595	657	655	656
5	530	522	525				596	589	593	660	657	658
6	532	525	526				603	590	599	662	660	661
7	527	526	527	569	567	568	603	593	599	663	662	663
8	528	527	527	572	569	570	605	602	604	667	663	665
9	529	528	528	575	571	573	603	600	601	665	659	662
10	530	529	529	578	575	576	603	596	598	662	659	661
11	531	530	530	578	576	578	603	593	596	661	658	660
12	531	530	531	579	578	579	601	597	600	661	659	660
13	531	529	531	583	579	581	605	593	599	660	658	659
14	531	529	531	584	582	584	607	580	594	660	658	659
15	531	525	528	585	580	582	608	584	604	658	654	656
16	529	528	529	583	576	580	608	605	607	654	651	652
17	533	528	530	583	578	580	605	597	603	653	652	653
18	533	531	532	585	583	584	607	596	601	653	650	652
19	533	531	532	585	582	584	610	607	609	653	651	652
20	534	533	533	588	582	584	609	605	607	654	653	654
21	535	533	534	588	584	585	615	609	612	661	654	656
22	538	533	535	589	587	588	620	615	618	667	661	664
23	541	538	540	589	588	589	623	617	620	669	660	666
24	543	540	541	588	579	582	624	612	619	673	669	671
25	544	541	542	587	564	582	623	620	622	675	669	672
26	546	544	545	588	564	576	624	617	622	674	667	671
27	546	546	546	590	586	588	629	621	627	680	672	676
28	548	546	547	591	581	587	634	629	632	681	675	678
29	554	548	550	592	582	589	638	633	635	687	674	678
30	556	553	555	592	578	584	642	637	639	685	663	673
31	560	556	557				646	642	644	695	662	679
MONTH	560	506	534	592	551	578	646	580	609	695	646	662

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

SPECIFIC CONDUCTANCE DOWNSTREAM OF DAM, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	704	696	694	669	659	661				302	280	206
2	750	704	726	660	643	654	416	413	414	290	278	285
3	766	750	759	643	631	638	415	412	413	282	273	278
3	790	756	753	621	609	619	413	408	410	202	275	270
5	796	700	786	609	588	596	413	408	410	282	273	278
6	801	796	799	588	562	577				287	281	285
7	801	794	799	562	521	546	416	413	415	295	287	291
8	800	796	798	521	490	501	417	415	416	300	291	295
9	797	785	790	490	467	477	420	417	419	308	300	304
10	790	779	787	478	454	470	424	420	422	315	308	311
11	789	772	784	454	440	447	425	422	423	325	315	320
12	772	770	770	440	433	437	427	424	425			
13	771	760	767	434	427	431	434	427	429			
14	760	755	757	428	423	425	441	432	436	346	253	305
15	757	746	752				441	434	437	253	224	232
10	740	720	744				4 4 1	4.27	420	226	224	220
10	740	730	744				441	437	439	230	224	220
17	738	732	736				442	433	438	251	235	242
18	732	722	726	425	422	424	435	420	429	264	248	256
19	723	718	720	425	422	424	421	392	411	262	227	242
20	719	701	715	442	425	429	393	387	389	227	223	225
21	711	693	703	514	440	476	389	387	388	242	227	234
22	702	698	700	560	514	549	392	388	389	261	241	248
23	698	690	694	560	548	556	394	389	392	274	257	266
24	692	685	688	548	535	541	396	392	394	286	272	280
25	687	683	685	535	519	526	392	390	391	303	282	292
26	684	676	681	519	496	513	395	392	394	316	303	310
27	681	676	678	496	449	466	400	394	395	328	316	319
28	678	668	673	449	424	432	396	386	393	337	325	330
29				443	423	427	386	328	362	358	335	343
30							328	298	305	364	351	358
31										367	357	363
MONTH	801	668	739	669	422	509	442	298	406	367	223	286
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN ER
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY 1	MAX 375	MIN JUNE 363	MEAN 368	MAX 420	MIN JULY 413	MEAN 418	MAX 500	MIN AUGUST 484	MEAN 492	MAX 503	MIN SEPTEMBE 500	MEAN ER 502
DAY 1 2	MAX 375 378	MIN JUNE 363 368	MEAN 368 373	MAX 420 424	MIN JULY 413 420	MEAN 418 423	MAX 500 504	MIN AUGUST 484 477	MEAN 492 492	MAX 503 504	MIN SEPTEMBE 500 501	MEAN ER 502 503
DAY 1 2 3	MAX 375 378 383	MIN JUNE 363 368 377	MEAN 368 373 381	MAX 420 424 429	MIN JULY 413 420 424	MEAN 418 423 426	MAX 500 504 492	MIN AUGUST 484 477 474	MEAN 492 492 481	MAX 503 504 507	MIN SEPTEMB 500 501 503	MEAN ER 502 503 506
DAY 1 2 3 4	MAX 375 378 383 388	MIN JUNE 363 368 377 382	MEAN 368 373 381 385	MAX 420 424 429 434	MIN JULY 413 420 424 428	MEAN 418 423 426 431	MAX 500 504 492 496	MIN AUGUST 484 477 474 476	MEAN 492 492 481 484	MAX 503 504 507 509	MIN SEPTEMBE 500 501 503 504	MEAN ER 502 503 506 507
DAY 1 2 3 4 5	MAX 375 378 383 388 395	MIN JUNE 363 368 377 382 387	MEAN 368 373 381 385 390	MAX 420 424 429 434 439	MIN JULY 413 420 424 428 433	MEAN 418 423 426 431 437	MAX 500 504 492 496 482	MIN AUGUST 484 477 474 476 478	MEAN 492 492 481 484 479	MAX 503 504 507 509 504	MIN SEPTEMBE 500 501 503 504 495	MEAN SR 502 503 506 507 499
DAY 1 2 3 4 5	MAX 375 378 383 388 395	MIN JUNE 363 368 377 382 387	MEAN 368 373 381 385 390	MAX 420 424 429 434 439	MIN JULY 413 420 424 428 433	MEAN 418 423 426 431 437	MAX 500 504 492 496 482	MIN AUGUST 484 477 474 476 478	MEAN 492 492 481 484 479	MAX 503 504 507 509 504	MIN SEPTEMBE 500 501 503 504 495	MEAN ER 502 503 506 507 499
DAY 1 2 3 4 5 6	MAX 375 378 383 388 395 393	MIN JUNE 363 368 377 382 387 385	MEAN 368 373 381 385 390 388	MAX 420 424 429 434 439 441	MIN JULY 413 420 424 428 433 439	MEAN 418 423 426 431 437 440	MAX 500 504 492 496 482 484	MIN AUGUST 484 477 474 474 476 478 478	MEAN 492 492 481 484 479 480	MAX 503 504 507 509 504 498	MIN SEPTEMBI 500 501 503 504 495 496	MEAN ER 502 503 506 507 499 497
DAY 1 2 3 4 5 6 7	MAX 375 378 383 388 395 393 393	MIN JUNE 363 368 377 382 387 385 385 356	MEAN 368 373 381 385 390 388 383	MAX 420 424 429 434 439 441 443	MIN JULY 413 420 424 428 433 439 440	MEAN 418 423 426 431 437 440 442	MAX 500 504 492 496 482 484 485	MIN AUGUST 484 477 474 476 478 478 478 479	492 492 481 484 479 480 483	MAX 503 504 509 504 498 496	MIN SEPTEMBI 500 501 503 504 495 495 496 489	MEAN ER 502 503 506 507 499 497 494
DAY 1 2 3 4 5 6 7 8	MAX 375 378 383 388 395 393 393 356	MIN JUNE 363 368 377 382 387 385 356 298	MEAN 368 373 381 385 390 388 383 318	MAX 420 424 429 434 439 441 443 445	MIN JULY 413 420 424 428 433 439 440 443	MEAN 418 423 426 431 437 440 442 444	MAX 500 504 492 496 482 482 484 485 487	MIN AUGUST 484 477 474 476 478 478 478 479 483	MEAN 492 481 484 479 480 483 485	MAX 503 504 507 509 504 498 496 492	MIN SEPTEMBE 500 501 503 504 495 496 489 480	MEAN ER 502 503 506 507 499 497 494 487
DAY 1 2 3 4 5 6 7 8 9	MAX 375 378 383 388 395 393 393 356 310	MIN JUNE 363 368 377 382 387 385 356 298 286	MEAN 368 373 381 385 390 388 383 318 294	420 424 429 434 439 441 443 445 450	MIN JULY 413 420 424 428 433 439 440 443 444	418 423 426 431 437 440 442 444 446	MAX 500 504 492 496 482 484 485 487 489	MIN AUGUST 484 477 474 476 478 478 478 479 483 483 485	492 492 481 484 479 480 483 483 485 487	MAX 503 504 507 509 504 498 496 492 487	MTN SEPTEMBE 500 501 503 504 495 495 495 496 489 480 478	MEAN ER 502 503 506 507 499 497 494 497 494 487 482
DAY 1 2 3 4 5 6 7 8 9 10	MAX 375 378 383 388 395 393 393 356 310 299	MIN JUNE 363 368 377 382 387 385 356 298 286 287	MEAN 368 373 381 385 390 388 383 318 294 292	420 424 429 434 439 441 443 445 450 450	MIN JULY 413 420 424 428 433 439 440 443 444 444	418 423 426 431 437 440 442 444 446 447	MAX 500 504 492 496 482 484 485 485 485 489 488	MIN AUGUST 484 477 474 476 478 478 478 479 483 485 485 486	492 492 481 484 479 480 483 485 485 487 487	MAX 503 504 507 509 504 498 496 492 487 483	MTN SEPTEMBE 500 501 503 504 495 495 495 496 489 480 478 465	MEAN 502 503 506 507 499 497 494 497 494 487 482 477
DAY 1 2 3 4 5 6 7 8 9 10	MAX 375 378 383 388 395 393 356 310 299 296	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288	MEAN 368 373 381 385 390 388 383 318 294 292 292	MAX 420 424 429 434 439 441 443 445 450 450 450	MIN JULY 413 420 424 428 433 439 440 443 444 444	MEAN 418 423 426 431 437 440 442 444 446 447 451	MAX 500 504 492 496 482 484 485 487 489 488 489	MIN AUGUST 484 477 474 476 478 478 478 479 483 485 485 486 487	MEAN 492 481 484 479 480 483 485 487 487 487	MAX 503 504 507 509 504 498 496 492 487 483 482	MIN SEPTEMBI 500 501 503 504 495 495 496 489 480 478 465 466	MEAN ER 502 503 506 507 499 497 499 497 482 477 482 477
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 375 378 383 388 395 393 356 310 299 296 304	MIN JUNE 363 368 377 382 387 385 356 298 286 288 286 287 288 281	MEAN 368 373 381 385 390 388 383 318 294 292 292 292	MAX 420 424 429 434 439 441 443 445 450 450 450	MIN JULY 413 420 424 428 433 439 440 443 444 444 444	MEAN 418 423 426 431 437 440 442 444 446 447 451 451	MAX 500 492 496 482 484 484 485 487 489 488 489 488	MIN AUGUST 484 477 474 476 478 478 478 479 483 485 486 487 487	MEAN 492 481 484 479 480 483 485 487 487 487 488	MAX 503 504 507 509 504 498 496 492 487 483 482 484	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478	MEAN 502 503 505 507 499 497 494 487 482 477 479 479
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 375 378 383 395 393 356 310 299 296 304	MIN JUNE 363 368 377 382 385 356 298 286 287 288 286 287 288 291	MEAN 368 373 381 385 390 388 388 318 294 292 299 299 299 299 299	420 424 429 434 439 441 443 445 450 450 450 452 458	MTN JULY 413 420 424 428 433 439 440 440 444 444 444 450 452 458	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459	MAX 500 504 492 496 482 484 485 487 489 488 489 488 489 493	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 485 486 487 487	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465	MEAN 502 503 506 507 499 497 494 487 482 477 482 477
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 375 378 383 395 393 393 356 310 299 296 304 319 296 304 319	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 287 288 291 291 296 319	MEAN 368 373 381 385 390 388 383 318 294 292 299 209 209 305 321	MAX 420 424 429 434 439 441 443 445 450 450 450 450 452 458 462	MIN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 451	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 454 459 464	MAX 500 504 492 496 482 484 485 487 489 488 489 488 489 491 493	MIN AUGUST 484 477 474 476 478 478 478 479 483 485 486 487 487 487 489	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491 492	MAX 503 504 507 509 504 498 496 492 487 483 482 484 484 484	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 483	MEAN 502 503 506 507 499 497 494 487 482 477 482 477 488 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 375 378 383 395 393 393 356 310 299 296 304 319 322 342	MIN JUNE 363 368 377 382 387 385 356 298 298 286 287 288 291 296 319 322	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 299 305 321 334	MAX 420 424 429 434 439 441 443 445 450 450 450 450 452 458 462 464	MIN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462	MAX 500 504 492 496 482 484 485 487 489 488 489 488 489 491 493 493 497	MIN AUGUST 484 477 474 476 478 478 479 483 485 486 487 487 489 492	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491 492 494	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 484 488 491 492	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 483 483 472	MEAN 502 503 506 507 499 497 494 487 482 477 482 477 482 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 375 378 383 393 393 356 310 299 296 304 319 322 342	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 299 305 321 334	420 424 429 434 439 441 443 445 450 450 450 450 452 458 462 467 464	MIN JULY 413 420 424 428 433 439 440 443 444 444 444 450 452 458 461 461	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462	MAX 500 504 492 496 482 484 485 487 489 488 489 488 489 491 493 493 493	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 485 486 487 487 487 489 490 492	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491 492 494	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 484 488 491 492	MIN SEPTEMBE 500 501 503 504 495 496 480 478 465 465 465 465 468 483 483 483 472	MEAN ER 502 506 507 499 497 497 497 487 487 487 487 487 487 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 375 378 383 395 393 395 310 299 296 304 319 322 342 341	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 298 291 296 319 322 327	MEAN 368 373 381 385 390 388 388 388 394 292 299 292 299 305 321 334 334	420 424 429 434 439 441 443 445 450 450 450 450 452 458 462 462 464	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 497 500	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 487 487 490 492 496	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 488 489 491 492 494 499	MAX 503 504 507 509 504 498 496 492 487 483 482 484 482 484 488 491 492 503	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 483 483 472 479	MEAN 502 503 506 507 499 497 482 477 482 477 482 477 480 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 375 378 383 395 393 393 356 310 299 296 304 319 322 342 342 341 327	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 334	MAX 420 424 429 434 439 441 443 445 450 450 450 450 450 452 458 462 464 464 464	MIN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460 460	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 463	MAX 500 504 492 496 482 484 485 487 489 488 489 491 493 493 497 500 501	MIN AUGUST 484 477 474 476 478 478 479 483 485 486 487 487 489 490 492 496 498	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 487 488 489 491 492 494 499 500	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 483 472 479 486	MEAN 502 503 506 507 499 497 494 482 477 482 477 482 477 482 477 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 375 378 383 388 395 393 395 310 299 296 304 319 322 342 341 327 320	MIN JUNE 363 377 382 387 385 356 288 286 287 288 291 296 319 322 327 318 311	MEAN 368 373 381 385 390 388 383 318 294 292 299 292 292 292 292 305 321 334 334 334 334	420 424 429 434 439 441 443 445 450 450 450 450 452 458 462 467 464 465 464	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460 455	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 463 458	MAX 500 504 492 482 484 485 487 489 488 489 488 489 491 493 493 497 500 501 503	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 489 490 492 496 499	MEAN 492 481 484 479 480 483 485 487 488 487 487 488 489 491 492 494 499 500 500	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487	MIN SEPTEMBE 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 483 483 472 479 486 469	MEAN 502 502 506 507 499 497 494 482 477 482 477 482 477 488 486 486 486 486 486 486 486 486 489 479
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 375 378 383 395 393 393 356 310 299 296 304 319 322 342 341 327 320 318	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318 311	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 321 334 321 314 313	420 424 429 434 439 441 443 445 450 450 450 450 450 452 458 462 464 464 465 464	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 460 456 446	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 463 455	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 497 500 501 503	MIN AUGUST 484 477 474 476 478 478 478 483 485 486 487 487 487 487 487 487 487 489 490 492 496 498 499 501	MEAN 492 481 484 479 480 483 485 487 485 487 487 487 487 488 489 491 492 494 499 500 500	MAX 503 504 507 509 504 498 496 492 487 483 482 484 483 491 492 503 494 487 486	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 472 479 486 469 470	MEAN 502 503 506 507 499 497 482 477 482 477 482 477 486 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 375 378 383 395 393 393 356 310 299 296 304 319 322 342 341 327 320 318 324	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 329 319 322 327 318 311 314	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 321 314 313	420 424 429 434 439 441 443 445 450 450 450 450 450 452 458 462 464 464 465 464 462 472	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 460 456 446 445	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 463 455 459	MAX 500 504 492 496 482 484 485 489 488 489 493 493 493 493 493 497 500 501 503 503	MIN AUGUST 484 477 474 476 478 479 483 485 486 487 487 487 487 487 489 490 492 496 498 499 501 502	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 487 487 489 491 492 494 499 500 500 502 502	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 472 479 486 469 470 470	MEAN 502 503 506 507 499 497 494 494 482 477 482 477 482 477 486 486 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 375 378 383 393 393 393 310 299 296 304 319 322 342 341 327 320 318 324	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318 311 314	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 334 334 314 318 227	420 424 429 434 439 441 443 445 450 450 450 450 450 450 450 452 467 464 464 465 464 462 472	MIN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 456 445	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 463 455 459 475	MAX 500 504 492 496 482 484 485 487 489 488 489 491 493 493 493 493 497 500 501 503 503	MIN AUGUST 484 477 474 476 478 479 483 485 486 487 489 490 492 496 498 499 501 502	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491 492 494 499 500 500 502 502	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487 486 487	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 472 479 486 469 472 472	MEAN 502 503 506 507 499 497 494 497 494 482 477 482 477 480 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 375 378 383 393 393 356 310 299 296 304 319 322 342 341 327 320 318 324 324	MIN JUNE 363 377 382 387 385 356 288 286 287 288 291 296 319 322 327 318 311 311 314 311	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 292 292 305 321 334 334 334 318 318 327	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 464 465 464 465 464 465 464 465 464	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460 456 446 445 465	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 463 458 455 459 475	MAX 500 492 496 482 484 485 487 489 488 489 491 491 491 493 497 500 501 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 489 490 492 496 498 501 502 503	MEAN 492 481 484 479 480 483 485 487 488 487 487 488 489 491 492 494 499 500 500 500 500	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487 486 487 486 487	MIN SEPTEMBE 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 465 470 472 469 470 472 469	MEAN 502 502 506 507 499 497 497 497 487 487 487 487 487 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 21 22 21 22 21 22 21 22 21 22 21 22 22	MAX 375 378 383 395 393 395 393 395 310 299 296 304 319 322 342 341 327 320 318 324 334 340	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 298 296 319 322 327 318 311 311 311 314 321 330	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 321 314 313 318 327 336	420 424 429 434 439 441 443 445 450 450 450 450 450 452 458 462 464 464 465 464 465 464 465 472 501 527	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 456 456 446 445 465 501	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 462 455 459 464 455 459	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 493 493 500 501 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 483 485 486 487 487 487 487 487 487 490 492 490 492 496 498 499 501 502 503	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 487 487 489 491 492 494 499 500 502 502 502	MAX 503 504 507 509 504 498 496 492 487 483 482 484 484 482 484 482 484 482 484 482 484 482 484 487 486 487 486 487	MIN SEPTEMBI 500 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 483 472 479 486 469 470 472 468	MEAN 502 503 506 507 499 497 494 487 482 477 479 480 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 1	MAX 375 378 383 393 393 393 306 310 299 296 304 319 322 342 341 327 320 318 324 334 356	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318 311 311 311 311 314 330 337	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 334 314 313 318 327 336 347 327	MAX 420 424 429 434 439 441 443 445 450 450 450 450 450 450 452 467 464 465 464 465 464 462 472 501 527 528	MIN JULY 413 420 424 428 433 439 440 443 444 444 444 450 452 458 461 461 461 461 460 456 445 446 445 501 508	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 462 455 459 459 475 511 521	MAX 500 504 492 496 482 484 485 487 489 488 488 489 491 493 493 493 497 500 501 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 478 485 486 487 487 487 487 489 490 492 496 498 499 501 502 503 503	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 487 488 489 491 492 494 499 500 500 502 502 502	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487 486 487 486 487	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 483 483 472 479 486 469 470 472 468 468 468 476	MEAN 502 503 506 507 499 497 494 497 494 482 477 482 477 482 477 482 477 486 486 486 486 486 486 486 486
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 5	MAX 375 378 383 383 395 393 395 309 299 296 304 319 322 342 341 327 322 342 341 324 334 324 334	MIN JUNE 363 377 382 387 385 356 288 286 287 288 291 298 319 322 327 318 311 311 311 314 311 314 321 330 337 350	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 292 292 292 305 321 334 314 314 313 318 327 336 347 352	420 424 429 434 439 441 443 445 450 450 450 450 450 452 464 465 464 465 464 465 464 465 464 465 464 465 464 465 464 465 465	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460 456 446 445 465 501 508 480	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 462 455 459 455 459 475 511 521 491	MAX 500 504 492 496 482 484 485 487 489 488 489 491 493 493 497 500 501 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 479 483 485 486 487 487 487 489 490 492 496 498 501 502 503 505	MEAN 492 481 484 479 480 483 485 487 487 488 489 491 492 494 499 500 502 502 502 502 502 504 506 506 506	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 492 503 494 487 486 487 486 487 485 488 488	MIN SEPTEMBE 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 470 472 469 470 472 468 468 468 466 476	MEAN 502 502 506 507 499 497 497 497 497 482 477 482 477 482 477 482 477 482 487 486 486 486 486 486 486 486 486
DAY 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	MAX 375 378 383 395 393 395 393 395 393 395 310 299 296 304 319 322 342 341 327 320 342 341 324 324 334 340 355 353 370	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 298 296 319 322 327 318 311 311 311 311 314 321 330 337 350 353	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 314 313 318 327 336 347 352 360	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 465 464 465 464 465 464 465 462 472 501 527 528 508 486	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 460 456 446 445 445 465 501 508 480 481	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 463 459 464 455 459 475 511 521 491 484	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 497 500 501 503 503 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 483 485 486 487 487 489 490 492 496 498 490 492 496 498 501 502 503 505 505	MEAN 492 481 484 479 480 483 485 487 487 487 488 489 491 492 494 499 500 502 502 502 502 502 504 506 506 506 507	MAX 503 504 507 509 504 498 492 487 483 482 484 488 491 492 503 494 487 486 487 486 487 485 488 488 488 488	MIN SEPTEMBI 500 503 504 495 496 489 480 478 465 466 478 465 466 478 483 483 472 479 486 469 470 472 468 468 476 476 475	MEAN 502 502 506 507 499 497 494 487 482 477 482 477 482 477 486 486 486 486 486 486 486 486 488 488
DAY 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	MAX 375 378 383 393 393 393 393 393 310 299 296 304 310 229 342 341 327 320 342 341 324 334 340 355 353 370 379	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 298 298 298 286 287 319 322 319 322 319 322 319 322 311 311 311 314 321 330 350 353 359	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 321 334 321 313 318 327 336 347 352 360 374	420 424 429 434 439 441 443 445 450 450 450 450 450 452 458 462 464 465 464 465 464 465 464 465 464 465 464 465 462 472 501 527 528 508 486	MTN JULY 413 420 424 428 433 439 440 440 444 444 444 444 450 452 458 461 461 461 460 456 446 445 456 446 445 465 501 508 8480 481	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 462 462 462 462 462 462 463 455 459 475 511 521 491 484 484	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 493 493 500 501 503 503 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 483 485 486 487 487 487 487 487 487 490 492 496 498 499 492 501 502 503 505 505	MEAN 492 481 484 479 480 483 485 487 487 487 487 487 487 487 487 489 491 492 494 499 500 502 502 502 502 502	MAX 503 504 507 509 504 498 496 492 487 483 482 484 484 482 484 482 484 482 484 482 484 482 484 482 484 482 484 482 484 487 486 487 486 487 486 487 487 486 487 487 487 487 487 487 492 503 492 492 492 492 492 492 492 492 492 492	MIN SEPTEMBI 500 503 504 495 496 489 480 478 465 466 478 465 466 478 483 472 479 486 469 470 472 486 469 470 472 468 468 476 475 475	MEAN 502 503 506 507 499 497 492 482 477 479 480 486 486 486 486 486 486 486 486
DAY 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	MAX 375 378 383 393 393 393 306 310 299 296 304 310 299 296 304 312 322 342 341 327 320 318 324 334 324 334 355 353 370 379 393	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318 311 311 311 311 311 314 321 330 337 350 353 369 379	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 334 314 313 314 313 314 313 314 317 316 347 352 360 374 385	MAX 420 424 429 434 439 441 443 445 450 450 450 450 450 450 452 467 464 465 464 465 464 462 472 501 527 528 508 486	MIN JULY 413 420 424 428 433 439 440 443 444 444 444 450 452 458 461 461 461 461 460 456 445 446 445 501 508 480 481	MEAN 418 423 426 431 437 440 442 446 447 451 454 459 464 462 463 459 464 462 463 459 459 451 521 521 491 484 487	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 493 500 501 503 503 503 503 505 507 506 507 506 507 508 509 509 509 509 500 507 508 509 509 509 500 500 500 500 500	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 487 489 490 492 496 498 499 501 502 501 502 505 505 505	MEAN 492 481 484 479 480 483 485 487 487 487 488 489 491 492 494 499 500 500 500 500 500 500 500 500 500 5	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 487 486 487 486 487 486 487 488 488 488 488 480 479	MIN SEPTEMBE 500 501 503 504 495 496 480 478 465 465 466 478 465 470 472 469 470 472 469 470 472 469 470 472 469 470 472 469 470 475 469 475	MEAN 502 502 503 506 507 499 497 497 497 487 487 487 487 487 487 487 48
DAY 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	MAX 375 378 383 395 393 395 393 395 301 299 296 304 310 299 296 304 312 342 341 327 320 318 324 334 340 353 370 379 391 392	MIN JUNE 363 368 377 382 387 385 356 288 286 287 288 291 298 298 298 298 298 298 298 298 298 298	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 292 292 292 305 321 334 314 313 318 327 336 347 352 360 374 382	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 465 464 465 464 465 464 465 472 501 527 528 508 486 488 495	MTN JULY 413 420 424 428 433 439 440 443 444 444 444 450 452 458 461 461 461 460 460 456 446 445 465 501 508 480 481 481 482 403	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 463 455 459 475 511 521 491 484 484 484 484	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 497 500 501 503 503 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 479 483 485 486 487 487 487 487 489 490 492 496 498 499 501 502 503 505 505 505 505	MEAN 492 481 484 479 480 483 485 487 487 488 489 491 492 494 499 500 502 502 502 502 502 504 506 506 506 506 506 507 508 509 509 509	MAX 503 504 507 509 504 498 492 487 483 482 484 488 491 492 503 494 487 486 487 486 487 486 487 488 488 480 479 478 477	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 465 466 478 467 472 468 469 470 472 468 468 468 476 475 467 546 475	MEAN 502 502 506 507 499 497 497 497 497 482 477 479 480 486 486 486 486 486 486 486 482 489 489 489 480 483 476 478 477 477 477 477 477
DAY 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	MAX 375 378 383 393 393 393 393 310 299 296 304 310 299 296 304 312 342 341 327 320 318 324 334 334 334 355 353 370 379 391 398	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 296 319 322 327 318 311 314 311 314 321 330 337 350 353 369 379 389	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 325 327 321 334 327 336 347 326 327 327 327 326 327 327 327 326 327 327 327 326 347 327 326 347 327 326 347 327 326 347 327 326 347 327 326 347 327 326 347 327 326 327 327 326 327 326 327 327 327 327 327 327 327 327	420 424 429 434 439 441 443 450 450 450 450 450 452 458 462 467 464 465 464 465 464 465 464 465 464 465 464 465 464 462 472 501 527 528 508 486 488 489 493 495	MTN JULY 413 420 424 428 433 439 440 440 443 444 444 450 452 458 461 461 460 460 456 446 445 465 501 508 480 481 481 482 493 493	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 462 463 455 459 464 462 463 455 459 475 511 521 491 484 487 492	MAX 500 504 492 496 482 484 485 487 489 488 489 493 493 493 493 493 493 493 503 503 503 503 503 503 503 50	MIN AUGUST 484 477 474 476 478 478 478 483 485 486 487 487 487 487 487 487 487 487 487 501 502 503 505 505 505 505	MEAN 492 481 484 479 480 483 485 487 487 487 487 488 489 491 492 494 499 500 500 502 502 502 502 502 502 504 506 506 507 508 509 510	MAX 503 504 507 509 504 498 496 492 487 483 482 484 483 491 492 503 494 487 485 488 489 487 485 488 488 487 485 488 487 485 487 487 487 487 487 487 487 487 487 487	MIN SEPTEMBI 500 503 504 495 496 489 480 478 465 466 478 483 472 466 478 483 472 466 479 486 469 470 472 468 468 476 475 467 467 467 467	MEAN 502 503 506 507 499 497 492 482 477 482 477 482 477 482 477 488 486 486 486 486 488 486 488 488
DAY 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 20	MAX 375 378 383 393 393 393 393 306 310 299 296 304 319 322 342 341 327 320 318 324 341 327 320 318 324 341 327 320 318 324 341 327 320 318 324 324 324 324 324 324 324 324	MIN JUNE 363 368 377 382 387 385 356 286 287 288 291 296 319 322 327 318 311 311 314 311 314 311 314 330 337 350 353 369 379 394	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 292 292 292 334 334 314 313 318 327 3360 347 352 360 374 385 393 393 393	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 464 465 464 465 464 465 464 465 464 465 464 465 466 472 501 527 528 508 486 486 488 493 495 497	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 460 456 446 445 465 501 508 480 481 481 482 493 485	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 463 455 459 475 511 521 491 484 487 494 493	MAX 500 504 492 496 482 484 485 487 489 488 489 491 491 493 497 500 501 503 503 503 503 503 503 505 507 506 507 507 506 507 507 506 507 507 507 506 507 507 507 507 507 507 507 507	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 489 490 492 496 498 501 502 503 505 505 505 505	MEAN 492 481 484 479 480 483 485 487 488 489 491 492 494 499 500 500 500 500 500 500 500 500 500 5	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 492 503 494 487 486 487 486 487 486 487 488 488 488 488 480 479 478 477 1476	MIN SEPTEMBE 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 469 470 472 468 469 470 472 468 469 470 472 465 465 465 465 465	MEAN 502 502 503 506 507 499 497 497 497 487 487 487 487 487 487 487 48
DAY 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 32 34 34 34 34 34 34 34 34 34 34	MAX 375 378 388 395 393 395 393 395 301 299 296 304 310 299 296 304 312 342 341 327 320 318 324 334 340 355 370 379 391 398 405 413	MIN JUNE 363 368 377 382 387 385 356 288 286 287 288 291 298 298 298 298 298 298 298 298 298 298	MEAN 368 373 381 385 390 388 383 318 294 292 292 292 292 292 292 305 321 334 314 314 313 318 327 336 347 352 360 374 389 399 407 	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 465 464 464 465 464 464 465 464 465 464 464	MTN JULY 413 420 424 428 433 439 440 443 444 444 444 450 452 458 461 461 461 460 460 456 446 445 465 501 508 480 481 481 482 493 485 480	MEAN 418 423 426 431 437 440 442 444 446 447 451 454 459 464 462 462 462 462 463 455 459 475 511 521 491 484 487 493 487	MAX 500 504 492 484 482 484 489 489 489 489 493 493 493 497 500 501 503 503 503 503 503 503 503 505 507 506 507 508 509 510 511 511 511 511	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 487 489 490 492 496 498 499 501 502 503 505 505 505 505 505	MEAN 492 481 484 479 480 483 485 487 487 488 489 491 492 494 499 500 502 502 502 502 502 502 504 506 506 506 506 506 506 506 506 506 506	MAX 503 504 507 509 504 498 496 492 487 483 482 484 488 491 492 503 494 492 503 494 487 486 487 486 487 488 488 480 479 478 477 471 476 478	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 462 469 470 472 468 468 468 468 476 475 467 467 462 462	MEAN 502 502 507 499 497 497 497 497 482 477 479 480 486 486 486 486 486 486 486 486
DAY 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	MAX 375 378 383 395 393 395 393 395 393 395 393 395 304 310 299 296 304 310 299 296 304 312 342 341 327 320 318 324 341 324 344 340 355 353 370 379 391 398 405 413 	MIN JUNE 363 368 377 382 387 385 356 298 286 287 288 291 298 298 298 298 298 298 298 298 298 298	MEAN 368 373 381 385 390 388 383 318 294 292 299 305 321 334 321 334 321 334 321 334 321 334 321 334 327 336 347 352 360 374 385 399 407 	420 424 429 434 439 441 443 445 450 450 450 450 450 452 467 464 465 464 465 464 465 464 465 462 472 501 527 528 508 486 488 493 495 497 490 494	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 460 456 446 445 465 501 508 480 481 481 482 485 480 480	418 423 426 431 437 440 442 444 446 447 451 454 462 462 463 459 464 459 464 459 464 459 464 462 463 455 451 464 462 463 459 464 462 463 459 475 511 521 484 487 493 484 487 484 487 484 487	MAX 500 504 492 484 485 487 489 488 489 488 489 493 493 493 493 497 500 501 503 503 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 487 489 490 492 496 498 499 501 502 503 505 505 505 505 505	MEAN 492 492 481 484 479 480 483 485 487 487 488 489 491 492 494 499 500 502 502 502 502 502 502 504 506 506 506 506 506 506 506 506 507 508 509 505 498 500	MAX 503 504 507 509 504 498 492 487 483 482 484 488 491 492 503 494 487 485 488 487 485 488 487 485 488 487 487 479 478 477 471 476 478 477	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 467 469 470 472 468 468 468 476 475 467 462 465 	MEAN 502 502 506 507 499 497 494 487 482 477 482 477 482 477 480 486 486 486 486 486 486 486 486 488 489 489 489 489 489 489 480 488 476 478 477 472 468 477 472 468 470 470 470 470 477 472 477
DAY 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 MONTH	MAX 375 378 383 395 393 395 393 395 310 299 296 304 319 322 342 341 327 320 342 341 324 334 334 334 340 355 370 379 391 398 375 413 413	MIN JUNE 363 368 377 382 387 385 356 288 286 287 288 291 298 319 322 327 318 311 311 314 311 314 321 330 350 353 369 379 359 394 404 286	MEAN 368 373 381 385 390 388 383 394 292 292 292 292 292 292 292 305 321 334 314 314 313 318 327 3360 347 352 360 374 385 393 399 407 347	420 424 429 434 439 441 443 455 450 450 450 450 452 467 464 465 464 465 464 465 464 465 464 465 464 465 464 465 464 465 464 465 495 528 508 486 495 497 490 494 528	MTN JULY 413 420 424 428 433 439 440 443 444 444 450 452 458 461 461 461 460 456 446 445 465 501 508 480 481 481 482 493 485 480 480 413	418 423 426 431 437 440 442 446 447 454 459 464 462 462 463 455 459 464 462 462 463 458 459 475 511 521 491 484 487 493 483 463	MAX 500 504 492 496 482 484 489 489 488 489 491 493 493 497 500 501 503 503 503 503 503 503 503 503	MIN AUGUST 484 477 474 476 478 478 478 478 483 485 486 487 487 487 489 490 492 496 498 499 501 502 503 505 505 505 505 505 505 505 500 495 499 474	MEAN 492 481 484 479 480 483 485 487 487 487 488 489 491 492 494 499 500 502 502 502 502 502 502 502 502 504 506 506 506 506 506 507 508 509 510 505 498 500 496	MAX 503 504 507 509 504 498 492 487 483 482 484 488 491 492 503 494 492 503 494 492 503 494 492 492 503 494 492 492 492 503 494 492 492 497 498 497 492 503 494 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 497 492 492 492 492 492 492 492 492 492 492	MIN SEPTEMBI 500 501 503 504 495 496 489 480 478 465 466 478 465 466 478 465 466 478 465 470 472 468 468 469 470 472 468 465 475 467 465 475 465 475 462 465 	MEAN 502 502 507 499 497 497 497 497 497 482 477 482 477 486 486 486 486 486 486 486 486

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued

WATER TEMPERATURE DOWNSTREAM OF DAM, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		D	ECEMBER			JANUARY	•
1	16.0	16.0	16.5	11.0	11.0	11.0	10.0	10.0	10.5	1.5	1.5	1.5
2	15.5	15.5	16.5	11.0	11.0	11.5	10.0	10.0	10.5	1.5	1.5	2.0
3	16.0	16.0	16.5	12.0	12.0	12.5	9.5	9.5	10.0	2.0	2.0	2.0
4	16.5	16.5	16.5	12.5	12.5	12.5	9.0	9.0	9.5	2.5	2.5	2.5
5	10.5	10.5	17.0				9.0	9.0	9.5	2.5	2.5	3.0
6	17.0	17.0	17.0				9.5	9.5	9.5	3.0	3.0	3.0
7	16.0	16.0	16.5	10.5	10.5	10.5	10.0	10.0	10.0	3.0	3.0	3.0
9	14 5	14 5	15.5	10.0	10.0 9 5	10.5	9.0	9.0	9.5	3.0	3.0	3.0
10	14.0	14.0	14.0	9.5	9.5	9.5	7.5	7.5	8.0	3.5	3.5	3.5
11	14.0	14.0	14.5	8.5	8.5	9.0	7.5	7.5	8.0	3.5	3.5	3.5
12	14.5	14.5	15.0	8.0	8.0	8.5	7.5	7.5	7.5	3.5	3.5	4.0
13	15.5	15.5	16.0	7.5	7.5	8.0	7.5	7.5	7.5	4.0	4.0	4.0
14	16.0	16.0	16.5	7.0	7.0	7.5	7.5	7.5	7.5	4.0	4.0	4.0
15	16.0	16.0	16.5	7.5	7.5	8.0	7.0	7.0	7.0	4.0	4.0	4.0
16	16.0	16.0	16.5	8.0	8.0	8.5	6.5	6.5	6.5	4.0	4.0	4.0
17	15.0	15.0	15.5	8.5	8.5	8.5	6.5	6.5	6.5	4.0	4.0	4.5
10	12 5	14.0	14.5	8.5	8.5	8.5	6.0	6.0	6.5	4.0	4.0	4.0
20	13.5	13.5	13.5	8.0	8.0	8.5	5.5	5.5	6.0	4.0	4.0	4.0
01	10 5	10 5	10 5							2 5		
21	13.5	13.5	14 5	7.5	7.5	8.0	5.0	5.0	5.5	3.5	3.5	3.5
23	15.0	15.0	15.0	7.0	7.0	7.5	4.0	3.5	4.0	3.5	3.5	3.5
24	15.0	15.0	15.5	7.5	7.5	7.5	4.5	4.5	4.5	3.5	3.5	3.5
25	14.5	14.5	15.0	8.0	8.0	8.5	4.0	4.0	4.0	3.5	3.5	4.0
26	13.5	13.5	14.0	9.0	9.0	9.5	3.5	3.5	4.0	3.5	3.5	3.5
27	13.0	13.0	13.5	9.0	9.0	9.5	3.5	3.5	3.5	3.5	3.5	4.0
28	12.0	12.0	12.5	9.5	9.5	10.0	3.5	3.5	3.5	4.0	4.0	4.0
29	11.5	11.5	12.0	10.0	10.0	10.0	3.0	3.0	3.0	4.0	4.0	4.5
31	11.0	11.0	11.0	10.0	10.0	10.5	2.0	2.0	2.5	4.5	4.5	4.5
	10.0	11 0	14.0	10 5			10.0					2.5
MONTH	17.0	11.0	14.9	12.5	7.0	9.3	10.0	1.5	6.6	4.5	1.5	3.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	4.5	4.5	5.5	5.5	6.0				11.5	11.5	12.0
2	3.0	3.0	4.0	5.5	5.5	6.0	10.5	10.5	11.0	12.5	12.5	12.5
3	3.0	3.0	3.5	6.0	6.0	6.5	11.0	11.0	11.5	12.0	12.0	12.5
4	3.5	3.5	3.5	6.0	6.0	6.5	11.0	11.0	11.5	12.0	12.0	12.5
5	2.5	2.5	3.0	5.0	5.0	5.5	10.0	10.0	10.5	13.5	13.5	14.0
6	2.0	2.0	2.5	5.0	5.0	5.0	9.5	9.5	10.0	15.0	15.0	15.0
7	2.5	2.5	2.5	5.0	5.0	5.5	9.0	9.0	9.5	16.0	16.0	16.5
8	2.5	2.5	3.0	6.0	6.0	6.5	9.0	9.0	9.5	17.5	17.5	18.0
10	3.5	3.5	4.0	7.5	7.5	7.5	11.0	11.0	12.0	17.0	17.0	17.5
11	3.5	3.5	4.0	6.5	6.5	7.0	12.0	12.0	13.0	17.0	17.0	17.5
12	3.5	3.5	3.5	6.0	6.0	6.5	12.5	12.5	13.0	15.0	15.0	16.0
13	2.5	2.5	3.0	6.0	6.0	6.5	13.0	13.0	13.5	15.0	15.0	16.0
14	2.5	2.5	3.0	6.0	6.0	7.5	13.5	13.5	14.5	13.0	13.0	13.5
15	3.0	3.0	3.5				14.5	14.5	16.0	12.5	12.5	13.0
16	3.5	3.5	3.5				18.0	18.0	19.5	13.5	13.5	14.0
17	3.5	3.5	4.0				20.5	20.5	21.5	15.0	15.0	15.5
10	3.5	3.5	4.0	7.0	7.0	7.5	21.5	21.5	22.5	14.5	14.5	12.5
20	4.5	4.5	5.0	6.5	6.5	7.0	20.5	20.5	21.5	12.5	12.5	13.0
21	5 0	5 0	5 5	6.0	6.0	6 5	19 0	18 0	10 0	12 5	12 5	12 5
22	6.0	6.0	6.0	5.5	5.5	6.0	16.0	16.0	17.0	12.5	12.5	13.5
23	6.0	6.0	6.5	5.5	5.5	5.5	14.5	14.5	15.5	13.5	13.5	14.0
24	6.0	6.0	6.5	5.5	5.5	6.0	14.0	14.0	15.0	15.0	15.0	16.0
25	6.0	6.0	6.5	6.0	6.0	6.0	13.5	13.5	14.0	17.0	17.0	17.5
26		6.0	7.0	6.0	6.0	6.0	13.0	13.0	13.0	17.0	17.0	17.5
	6.0							10 5	10 5	10 5		10 5
27	6.0	6.0	6.5	5.5	5.5	6.0	12.5	12.5	13.5	17.5	17.5	18.5
27 28 29	6.0 6.0 5.5	6.0 5.5	6.5 6.0	5.5 6.5	5.5 6.5 7 5	6.0 7.0 8 5	12.5 13.0	12.5	13.5 13.5 12 5	17.5 19.0	17.5 19.0	18.5
27 28 29 30	6.0 6.0 5.5 	6.0 5.5 	6.5 6.0 	5.5 6.5 7.5	5.5 6.5 7.5 	6.0 7.0 8.5 	12.5 13.0 12.0 11.0	12.5 13.0 12.0 11.0	13.5 13.5 12.5 11.5	17.5 19.0 19.5 19.5	17.5 19.0 19.5 19.5	18.5 19.5 20.0 20.5
27 28 29 30 31	6.0 6.0 5.5 	6.0 5.5 	6.5 6.0 	5.5 6.5 7.5 	5.5 6.5 7.5 	6.0 7.0 8.5 	12.5 13.0 12.0 11.0	12.5 13.0 12.0 11.0	13.5 13.5 12.5 11.5	17.5 19.0 19.5 19.5 20.5	17.5 19.0 19.5 19.5 20.5	18.5 19.5 20.0 20.5 21.5

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued WATER TEMPERATURE DOWNSTREAM OF DAM, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MTN	MEAN	мах	MTN	MEAN	мах	MTN	MEAN	MAX	MTN	MEAN
2111				1001		11111						
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	21.5	21.5	22.5	26.0	26.0	26.5	27.5	27.5	29.0	20.5	20.5	20.5
2	22.5	22.5	23.5	26.5	26.5	28.0	27.5	27.5	28.5	20.0	20.0	20.5
3	22.0	22.0	22.5	28.5	28.5	30.0	27.0	27.0	28.0	20.5	20.5	21.0
4	21.5	21.5	22.5	29.5	29.5	30.0	27.5	27.5	28.5	20.5	20.5	22.5
5	21.5	21.5	21.5	28.5	28.5	29.5	27.5	27.5	28.0	23.0	23.0	23.5
6	22.5	22.5	23.0	27.0	27.0	27.5	26.5	26.5	27.5	22.5	22.5	23.5
7	20.0	20.0	21.0	26.0	26.0	26.5	25.5	25.5	26.0	22.5	22.5	23.0
8	18.5	18.5	19.0	26.0	26.0	26.5	25.0	25.0	25.5	21.5	21.5	22.5
9	19.0	19.0	19.5	25.5	25.5	26.0	25.0	25.0	26.0	22.0	22.0	23.0
10	21.0	21.0	22.0	26.5	26.5	27.0	25.0	25.0	25.5	23.5	23.5	23.5
11	21.5	21.5	21.5	26.0	26.0	26.5	24.5	24.5	25.0	23.0	23.0	23.5
12	22.5	22.5	23.5	25.0	25.0	26.0	25.0	25.0	26.0	22.0	22.0	22.0
13	22.0	22.0	23.0	24.0	24.0	24.5	26.0	26.0	27.0	21.0	21.0	21.5
14	20.5	20.5	21.0	24.5	24.5	24.5	26.5	26.5	27.5	21.0	21.0	21.0
15	18.5	18.5	19.5	24.5	24.5	25.5	26.5	26.5	27.0	21.0	21.0	21.5
16	18 0	18 0	18 5	26 0	26.0	26 5	27 0	27 0	27 5	21 0	21 0	22 0
17	19 5	19.5	10.5	20.0	20.0	20.5	27.0	27.0	27.5	22.0	22.0	22.0
10	10.5	10.5	20.0	20.0	20.0	20.5	27.5	27.5	20.5	22.0	22.0	23.0
10	20.0	20.0	20.0	20.5	20.5	27.5	27.5	27.5	20.0	22.0	22.0	22.5
19	20.0	20.0	20.5	20.0	20.0	27.0	27.5	27.5	20.0	21.0	21.0	21.5
20	20.5	20.5	21.5	20.0	20.0	2/.5	27.0	27.0	28.0	21.0	21.0	21.5
21	21.0	21.0	21.5	26.0	26.0	27.0	27.0	27.0	27.5	21.5	21.5	22.0
22	22.5	22.5	23.5	26.0	26.0	26.0	26.0	26.0	26.5	22.5	22.5	22.5
23	23.5	23.5	24.0	26.0	26.0	26.5	26.0	26.0	26.0	22.5	22.5	22.5
24	24.5	24.5	26.0	26.5	26.5	27.5	25.0	25.0	25.5	22.0	22.0	22.5
25	26.0	26.0	26.5	26.0	26.0	27.0	24.5	24.5	25.5	21.5	21.5	22.0
26	26.0	26.0	26.5	25.5	25.5	25.5	25.0	25.0	25.5	20.5	20.5	21.0
27	25.0	25.0	26.0	24.5	24.5	25.0	25.0	25.0	25.5	20.0	20.0	20.0
28	25.5	25.5	26.5	24.5	24.5	24.5	24.0	24.0	24.5	19.5	19.5	20.0
29	26.0	26.0	27.0	24.5	24.5	26.0	22.0	22.0	23.0	19.0	19.0	20.0
30	26.0	26.0	26.5	27.0	27.0	27.5	21.5	21.5	22.0	18.5	18.5	19.0
31				27.0	27.0	28.0	21.0	21.0	21.5			
MONTH	26.0	18.0	22.6	29.5	24.0	26.8	27.5	21.0	26.4	23.5	18.5	21.8
VEND	20 F	1 6	14 6									

16 Gap indicates missing record DAILY MEAN DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER 14 12 10 8 6 N 2001 M 2002 0 D Μ Α J S

Figure 17. Physical characteristics and concentrations of constituents measured at 01388000 Ramapo River at Pompton Lakes, water year 2002.

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued



Figure 17. Physical characteristics and concentrations of constituents measured at 01388000 Ramapo River at Pompton Lakes, water year 2002--continued.

01388000 RAMAPO RIVER AT POMPTON LAKES, NJ--Continued



Figure 18. Cross sectional water-quality measurements with recorded monitor values, at Ramapo River at Pompton Lakes, April 18, 2002.

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.

- REMARKS .-- 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"). Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- 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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1000	48	3.4	.066	.050	762	90	10.8	7.5	458	14.0	7.5	120
FEB													
07	1000	38	2.8	.055	.042	757	94	12.6	7.6	637	10.0	3.0	140
JUN													
19	1000	294	4.4	.110	.083	767	92	8.6	7.6	346	24.0	19.0	81
AUG													
29	1000	251	14	.081	.061	763	82	7.5	7.4	404	18.0	20.0	99

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													
15 FEB	33.8	9.41	2.39	39.1	81	76.8	E.1	4.5	24.3	252	245	.120	.40
07	37.8	10.4	2.54	59.3	76	117	E.1	7.0	31.4	336	321	.210	.56
JUN													
19	22.1	6.24	1.60	32.0	51	58.9	E.1	6.3	16.6	197	178	.080	.35
AUG													
29	26.3	8.10	2.32	37.4	56	71.5	E.1	6.5	20.1	246	210	<.030	.37

							000000		C1 DDON	a b b b b b b b b b b		a	ourigent
	NTEDO	NITRO-	NITRO-	NTEDO	NITRO-	DUOG	ORTHO-		CARBON,	CARBON,	CARDON	CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-	51100	INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BI0-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
15	.130	1.27	.022	1.7	.10	.007		.032	.7	<.1	3.0	.7	E2.0
FEB													
07	.190	2.29	.031	2.8	.09	.034	<.020	.079	.7	<.1	2.6	.7	<1.0
JUN													
19	.080	.84	.025	1.2	.17	.040	.027	.079	1.0	<.1	3.6	1.0	E1.2
AUG													
29	<.030	.81	.009	1.2	.15	.035	.027	.096	.9	<.1	3.9	.9	E1.3

Remark codes used in this report:

< -- Less than E -- Estimated value

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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 1	7 5		70	3					
				FEE	3		80	5					
				JUL	1	14 4	40	8					
				AUG	9	28.0	60	20					
				-		2000							
DATE	TIME	SAMP TYP	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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	ENVIRON	TENTAT.							<2	22.3	< .06	73
29	1000	BED MATE	RIAL		7.00	190	4700	2.4	<.2				
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	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	T 02		2.0	590	c	154	0.2	1	. 1	< 0F	10		
29	E.03	E./	3.0						<.4	<.05		<1	.060
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													
29	6.9	1.8	9	9900	18	110	.05	3.9	<1	53	E6	E4	E3
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													
29	E2	E8	E15	E20	57	68	73	E30	65	74	E16	140	57
DATE	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)
AUG 29 29	 <50	 <50	 <50	 <50	 E6	 <50	 E6	 E8	 <50	 E13	 59	 <50	 E11

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
29			
29	100	1	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					SEP				
05	1050	270	400	30	03	1040	300	300	60
12	1045	220	100	650					
19	1037	70	100	10					



Figure 19. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01388500 Pompton River at Pompton Plains, May 6 to 17, 2002.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued



Figure 20. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01388500 Pompton River at Pompton Plains, May 28 to June 3, 2002.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued



Figure 21. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01388500 Pompton River at Pompton Plains, June 10 to 14, 2002.

01388500 POMPTON RIVER AT POMPTON PLAINS, NJ--Continued



Figure 22. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01388500 Pompton River at Pompton Plains, June 24 to July 1, 2002.



Figure 23. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01388500 Pompton River at Pompton Plains, July 16 to 23, 2002.

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, 700 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. -- Water year 2001 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1310	.76	11	.243	.184	763	77	9.5	7.0	533	17.5	6.5	140
19 MAY	1030	2.2	12	.260	.203	764	87	11.7	8.3	441	12.0	3.0	130
29	1230	7.9	7.7	.257	.198	761			7.3	396	26.0	17.5	120
14	1250	.47	16	.308	.238	748	48	4.0	7.0	572	33.0	23.5	140
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-

	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	POTAS- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	UNFLTRD TIT 4.5 LAB (MG/L	CHLO- RIDE, DIS- SOLVED	FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED (MG/L	SULFATE DIS- SOLVED	RESIDUE AT 180 DEG. C DIS-	SUM OF CONSTI- TUENTS, DIS-	GEN, AMMONIA DIS- SOLVED	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													
14	38.4	10.3	2.21	48.4	109	90.7	.1	12.4	28.7	308	296	<.030	.32
FEB													
19 MAY	35.4	9.62	1.44	31.1	77	62.3	E.1	11.5	38.4	246	238	.090	.42
29 AUG	33.0	8.50	1.71	27.3	70	54.3	E.1	12.7	29.2	237	210	.130	.48
14	40.1	10.2	3.42	51.2	100	92.8	.1	12.2	26.7	333	300	.150	.48
	NITRO- GEN,	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE	NITRO- GEN	NITRO- GEN,PAR TICULTE	PHOS- PHORUS	ORTHO- PHOS- PHATE,	PHOS-	CARBON, INORG + ORGANIC	CARBON, INOR- GANIC,	CARBON, ORGANIC	CARBON, ORGANIC PARTIC-	OXYGEN DEMAND, BIO-

	NTIRO-	GEN,	GEN,	NTIRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
14	.030	<.04	<.003		.42	.005		.109	2.5	<.1	7.2	2.5	5.1
FEB													
19	.110	.36	.009	.78	.05	.013	<.020	.035	.7	E.1	5.9	E.6	<1.0
MAY													
29	.120	.33	.021	.81	.16	<.05	<.020	E.05	.7	<.1	5.7	.7	<1.0
AUG													
14	.170	.59	.014	1.1	.09	.015	.020	.065	.7	<.1	7.4	.7	E1.2

Remark codes used in this report:

< -- Less than E -- Estimated value

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DA	NTE	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 14			60	19						
				FEE 1	3 .9		40	17					
				MAY 2	<u> </u>	2.00	40	8					
				AUG 1	; .4	2.50	60	4					
DATE	SAMPLE TIME TYPE			PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 14	1250 1250	ENVIRONN BED MATE	iental RIAL		 6.40	 140	 8500	 2.5	 <.2	E2 	51.5	<.06 	60
DATE	CADMIUM WATER UNFLIRD 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 14 14	<.04 	E.4 	1.6 	2220	<1 	238	<.01 	3 	E.3 	<.05 	5 	 1	 .053
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													
14 14	1.9	3.1	6	11000	5.0	100	<.01	6.6	<1	16	<50	<50	<50
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 14 14	 <50	 <50	 <50	 <50	 58	 56	 69	 <50	 <50	 65	 <50	 130	 <50
DATE	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)
AUG													
14	<50	<50	<50	<50	<50	<50	<50	<5	<50	<50	56	<50	<50

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	BED	BED
	MAT.	MAT.
PYRENE,	FALL	SIEVE
SED, BM	DIAM.	DIAM.
WS,<2MM	% FINER	% FINER
DW, REC	THAN	THAN
(UG/KG)	.004 MM	.062 MM
(49387)	(80157)	(80164)
110	2	4
	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387) 110	BED MAT. PYRENE, FALL SED, EM DIAM. WS,<2MM % FINER DW, REC THAN (UG/KG) .004 MM (49387) (80157)

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					MAY				
01	0930	230	<100	330	15	1000	700	400	620
07	0945	800	400	830	22	0945	230	200	260
					29	0950	2400	600	480

Remark codes used in this report: < -- Less than
01389005 PASSAIC RIVER BELOW POMPTON RIVER, AT TWO BRIDGES, NJ

LOCATION.--Lat 40°53'47", long 74°16'10", Passaic County, Hydrologic Unit 02030103, 400 ft downstream from the Pompton River in Two Bridges, and 1.4 mi northwest of Little Falls.

DRAINAGE 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. DISSOLVED OXYGEN PERCENT SATURATION: October 2001 to September 2002. 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. Continuousrecord 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: Nov. 5 to Nov. 20, Dec. 10 to Dec. 28, Jan. 15 to Jan. 29, Feb. 21 to Apr. 18, May 2 to May 22, Jun. 24 to Jul. 11. SPECIFIC CONDUCTANCE: Apr. 18 to May 2.

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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, 1.1 mg/L from left and middle intakes, Apr. 20, 2002. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 253 from right intake, Aug. 19, 2002; minimum, 12 from left and middle intakes, Apr. 20, 2002.

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, 19.4 mg/L from right intake, Aug. 19; minimum, 1.1 mg/L from left and middle intakes, Apr. 20. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 253 from right intake, Aug. 19; minimum, 12 from left and middle intakes, Apr. 20.

SPECIFIC CONDUCTANCE: Maximum, 1,410 microsiemens/cm from right and middle intakes, Jan. 25, 26; minimum, 228 microsiemens/cm from right intake, May 14.

WATER TEMPERATURE: Maximum, 30.5°C from left intake, July 4; minimum, 0.5°C from left, middle, and right intakes, on several days during Jan.

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

OXYGEN DISSOLVED FROM LEFT INTAKE, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		ľ	OVEMBER		D	ECEMBER			JANUARY	<u>r</u>
1	9.4	7.6	8.4	9.5	7.7	8.3	9.0	5.7	7.0			
2	10.3	7.9	9.2	9.4	7.7	8.3	8.9	6.7	7.6			
3	10.5	9.1	9.7	9.1	7.6	8.1	9.9	7.2	8.4	13.3	12.2	12.7
4	10.5	8.9	9.6	8.6	7.3	7.7	10.9	8.0	9.2	13.3	12.3	12.7
5	10.3	8.0	9.2	8.4	/.1	/./	11.5	8.9	9.9	13.0	12.2	13.0
6	9.5	7.8	8.6	9.3	7.4	8.2	12.1	9.6	10.4	13.0	11.9	12.5
7	9.0	7.6	8.1	9.1	7.5	8.2	12.0	9.2	10.4	12.7	11.7	12.1
8	9.2	7.5	8.2	10.2	7.6	8.6	9.8	8.1	9.0	12.7	11.2	11.9
9	9.4	7.9	8.5	11.2	8.0	9.3	9.1	8.1	8.6	12.9	11.1	11.7
10	10.1	8.2	8.9	11.7	8.2	9.0	10.3	8.9	9.7	13.2	11.3	11.9
11	10.4	8.6	9.3	12.9	8.9	10.5	11.4	9.4	10.3	12.5	11.2	11.6
12	10.6	8.8	9.5	13.3	9.5	11.2	10.8	9.2	10	12.9	10.8	11.5
13	10.2	8.7	9.3	13.2	9.7	11.2	11.4	9.1	10	12.4	10.6	11.3
14	9.8	8.2	8.9	13.1	10.0	11.4	10.7	9.1	9.7	12.4	10.8	11.4
15	9.2	7.9	0.1	13.4	10.1	11.2	10.0	0.5	9.4	12.0	10.0	11.0
16	8.0	7.1	7.6	13.7	9.9	11.5	10.3	8.4	9.0	13.5	11.4	12.1
17	8.5	7.4	7.8	13.3	9.4	11.0	10.0	8.4	9.2	13.2	11.3	11.9
18	9.0	7.6	8.1	12.4	8.9	10.4	11.7	9.1	9.8	13.6	11.3	12.2
19	9.7	7.6	8.5	12.2	8.3	9.8	10.6	9.3	9.8	13.2	11.6	12.2
20	10.5	0.1	0.9	12.0	7.9	10.0	10.5	9.1	9.0	13.9	11.5	12.5
21	10.2	8.3	9.0	13.0	9.2	10.6	11.5	9.5	10.0	13.8	11.7	12.5
22	9.8	8.3	8.8	12.9	9.0	10.5	11.7	9.7	10.4	14.4	11.9	13.0
23	9.3	7.8	8.5	12.9	9.0	10.7	12.4	10.1	11.0	14.3	11.9	12.9
24	9.2	7.5	8.1	13.0	9.7	11.0	12.5	10.6	10 9	12.2	11.8	12.2
25	5.0	0.5	·•·	13.4	5.7	****	11.5	10.1	10.0	12.5	5.5	TT • 1
26	8.5	6.8	7.5	10.4	7.7	9.7	11.6	10.1	10.6	11.6	9.8	10.5
27	8.2	6.8	7.4	8.2	5.4	7.1	11.8	10.5	10.9	12.4	10.6	11.2
28	8.8	6.8	7.7	6.9	5.2	6.0				13.7	10.8	11.8
29	8.9	7.0	7.8	7.2	5.7	6.5						
31	8.4	7.5	7.9							11.3	9.6	10.5
MONTH	10.6	6.8	8.5	13.7	5.2	9.4	12.5	5.7	9.7	14.4	9.6	12.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.2	0.2	96	15 9	12 7	14 4	9.4	77	9 5	9 5	9.0	0.2
2	12.4	9.2	9.0	T2.0	12.1	14.1	2.2	···	0.5	9.5	9.0	8.5
3	10.0	9.4	10.5	17.5	14.3	10.3	9.5	7.7	0.4	9.0	7.9	
4	12.2	9.4 10.5	10.5	17.5 16.3	14.3 12.5	14.5	9.5 9.6	7.7 7.8	8.3	9.0 9.6	7.9 8.8	9.2
-	12.2	9.4 10.5 10.8	10.5 11.1 11.9	17.5 16.3 13.5	14.3 12.5 9.8	16.3 14.5 10.7	9.5 9.6 9.6	7.7 7.8 7.8	8.4 8.3 8.6	9.0 9.6 9.3	7.9 8.8 7.6	9.2 8.7
5	12.2 13.2 14.2	9.4 10.5 10.8 12.0	10.5 11.1 11.9 13.0	17.5 16.3 13.5 10.7	14.3 12.5 9.8 9.9	16.3 14.5 10.7 10.3	9.5 9.6 9.6 9.2	7.7 7.8 7.8 7.8	8.4 8.3 8.6 8.4	9.0 9.6 9.3 8.0	7.9 8.8 7.6 6.5	9.2 8.7 6.8
5	12.2 13.2 14.2	9.4 10.5 10.8 12.0	10.5 11.1 11.9 13.0	17.5 16.3 13.5 10.7	14.3 12.5 9.8 9.9	16.3 14.5 10.7 10.3	9.5 9.6 9.6 9.2	7.7 7.8 7.8 7.8 8.1	8.4 8.3 8.6 8.4	9.0 9.6 9.3 8.0	7.9 8.8 7.6 6.5	9.2 8.7 6.8
5 6 7	12.2 13.2 14.2 14.3 14.3	9.4 10.5 10.8 12.0 12.3 12.4	10.5 11.1 11.9 13.0 13.1 12.9	17.5 16.3 13.5 10.7 11.6	14.3 12.5 9.8 9.9 10.6	16.3 14.5 10.7 10.3 11.0	9.5 9.6 9.2 10.4 11.9	7.7 7.8 7.8 7.8 8.1 9.6	8.4 8.3 8.6 8.4 9.3 10.7	9.0 9.6 9.3 8.0 6.7 6.7	7.9 8.8 7.6 6.5 6.5 6.3	9.2 8.7 6.8 6.6 6.5
5 6 7 8	12.2 13.2 14.2 14.3 14.3 14.5	9.4 10.5 10.8 12.0 12.3 12.4 12.5	10.5 11.1 11.9 13.0 13.1 12.9 13.4	17.5 16.3 13.5 10.7 11.6 12.8	14.3 12.5 9.8 9.9 10.6 11.1	16.3 14.5 10.7 10.3 11.0 11.8	9.5 9.6 9.2 10.4 11.9 13.1	7.7 7.8 7.8 7.8 8.1 9.6 10.2	8.4 8.3 8.6 8.4 9.3 10.7 11.4	9.0 9.6 9.3 8.0 6.7 6.7 6.9	7.9 8.8 7.6 6.5 6.5 6.3 5.5	9.2 8.7 6.8 6.6 6.5 6.3
5 6 7 8 9	12.2 13.2 14.2 14.3 14.3 14.5 15.1	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5	10.5 11.1 11.9 13.0 13.1 12.9 13.4 13.5	17.5 16.3 13.5 10.7 11.6 12.8 12.4	14.3 12.5 9.8 9.9 10.6 11.1 10.5	16.3 14.5 10.7 10.3 11.0 11.8 11.5	9.5 9.6 9.2 10.4 11.9 13.1 13.0	7.7 7.8 7.8 7.8 8.1 9.6 10.2 9.6	8.4 8.3 8.6 8.4 9.3 10.7 11.4 11.2	9.0 9.6 9.3 8.0 6.7 6.7 6.9 5.5	7.9 8.8 7.6 6.5 6.5 5.5 4.8	9.2 8.7 6.8 6.6 6.5 6.3 5.1
5 6 7 8 9 10	12.2 13.2 14.2 14.3 14.3 14.5 15.1 14.9	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.5	10.5 11.1 11.9 13.0 13.1 12.9 13.4 13.5 13.5	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.4	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1	7.7 7.8 7.8 7.8 8.1 9.6 10.2 9.6 8.5	8.4 8.3 8.6 8.4 9.3 10.7 11.4 11.2 10.3	9.0 9.6 9.3 8.0 6.7 6.7 6.9 5.5 6.0	7.9 8.8 7.6 6.5 6.5 6.3 5.5 4.8 4.7	9.2 8.7 6.8 6.6 6.5 6.3 5.1 5.3
5 6 7 8 9 10 11	12.2 13.2 14.2 14.3 14.3 14.5 15.1 14.9 14.9	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2	10.5 11.1 11.9 13.0 13.1 12.9 13.4 13.5 13.5 13.1	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.4 12.4	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8	7.7 7.8 7.8 7.8 8.1 9.6 10.2 9.6 8.5 7.6	8.4 8.3 8.6 9.3 10.7 11.4 11.2 10.3 9.1	9.0 9.6 9.3 8.0 6.7 6.7 6.9 5.5 6.0 6.2	7.9 8.8 7.6 6.5 6.3 5.5 4.8 4.7 5.2	9.2 8.7 6.8 6.6 6.5 6.3 5.1 5.3 5.4
5 6 7 8 9 10 11 12	12.2 13.2 14.2 14.3 14.3 14.5 15.1 14.9 14.9 14.2	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2 10.8	10.5 11.1 11.9 13.0 13.1 12.9 13.4 13.5 13.5 13.1 12.6	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.4 12.4 11.2 12.2	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4 9.6	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1 10.9	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8 9.5	7.7 7.8 7.8 7.8 8.1 9.6 10.2 9.6 8.5 7.6 7.5	8.4 8.3 8.6 8.4 9.3 10.7 11.4 11.2 10.3 9.1 8.2	9.0 9.6 9.3 8.0 6.7 6.7 6.9 5.5 6.0 6.2 5.6	7.9 8.8 7.6 6.5 6.3 5.5 4.8 4.7 5.2 4.9	9.2 9.7 6.8 6.6 6.5 6.3 5.1 5.3 5.6 5.3
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	12.2 13.2 14.2 14.3 14.3 14.3 14.5 15.1 14.9 14.2 14.1 15.6 16.1 16.3 16.3 16.3 16.3 16.3 16.3 16	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2 10.8 10.9 12.2 12.8 13.4 12.7 10.1 10.0 10.6 12.0 12.8 13.1	$\begin{array}{c} 10.5 \\ 11.1 \\ 11.9 \\ 13.0 \\ 13.1 \\ 12.9 \\ 13.5 \\ 13.5 \\ 13.5 \\ 13.5 \\ 13.5 \\ 13.5 \\ 14.0 \\ 14.5 \\ 14.6 \\ 14.3 \\ 14.7 \\ 14.2 \\ 12.5 \\ 11.3 \\ 12.7 \\ 13.7 \\ 14.4 \\ 14.3 \\ \end{array}$	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.4 12.2 11.9 13.0 12.8 12.2 12.9 13.0 12.8 12.2 12.1 10.6 11.6 11.6 11.0 10.3 10.3 10.3 10.1	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4 9.6 10.3 11.1 10.7 9.2 9.0 8.8 10.1 10.6 10.2 10.0 10.1 10.7 10.2 10.0 9.8 9.7	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1 10.9 11.1 10.9 11.1 10.9 11.1 10.3 9.6 11.0 10.3 9.6 11.0 10.3 9.6 10.5 10.8 10.5 10.8 10.1 9.9	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8 9.5 9.6 9.2 8.3 7.4 7.8 7.9 7.7 6.0 3.6 4.3 5.8 7.0 6.6 6.6 7.2 7.7 8.6	7.7 7.8 7.8 7.8 9.6 10.2 9.6 8.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.1 1.1 1.6 3.0 4.3 5.7 6.3 6.4 6.9 7.1	8.4 8.6 8.4 9.3 10.7 11.2 10.3 9.1 8.2 8.3 7.6 6.7 6.7 5.9 6.7 6.7 5.3 6.4 6.5 6.8 7.3 7.5 6.8	9.0 9.6 9.3 8.0 6.7 6.7 5.5 6.0 6.2 5.6 8.7 9.7 10.2 9.9 8.9 9.8 8.0 7.1 10.5 10.6 8.5 8.9 7.2 7.1 6.7 6.4 6.4 6.4	7.9 8.8 7.6 6.5 6.5 5.5 4.7 5.2 4.9 4.9 8.7 9.7 8.7 9.7 8.7 9.7 8.7 9.7 8.7 5.9 5.7 9.8 10.0 8.5 7.1 6.9 6.6 6.2 5.9 5.8	9.2 8.7 6.8 6.6 6.5 5.1 5.3 5.6 5.3 5.4 10 9.5 7.1 8.0 10.2 9.5 7.7 7.4 7.1 6.5 6.5 6.5 6.5 10 9.5 7.7 7.4 6.5 6.5 6.5 6.5 6.5 6.5 5.3 5.4 10 9.5 7.7 6.8 9.4 10 9.5 7.7 6.8 9.4 10 9.5 7.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
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	12.2 13.2 14.2 14.3 14.3 14.3 14.5 15.1 14.9 14.2 14.1 15.6 16.1 16.3 16.3 16.3 16.3 16.3 16.3 16	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2 10.8 10.9 12.2 12.8 13.5 13.4 12.7 12.8 13.1 12.7 10.0 10.6 12.0 12.8 13.1 	10.5 11.1 11.9 13.0 13.1 12.9 13.5 13.5 13.5 13.5 13.1 12.6 12.5 14.0 14.5 14.6 14.3 12.5 11.3 12.7 13.7 14.4 14.3	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.4 11.2 12.2 11.9 13.0 12.8 12.2 12.1 10.6 11.6 11.6 11.9 11.1 10.3 10.3 10.7 10.3 10.1 10.2	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4 9.6 10.3 11.1 10.7 9.2 9.0 8.8 10.1 10.6 10.2 10.0 10.1 10.7 10.2 10.0 9.7 9.4 2	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1 10.3 9.6 11.0 10.3 9.6 11.0 10.5 10.5 10.5 10.5 10.5 10.5 10.1 9.9 9.8	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8 9.5 9.6 9.2 8.3 7.4 7.8 7.9 7.7 6.0 3.6 4.3 5.8 7.0 6.6 6.6 7.2 7.7 8.6 9.3 8.7	7.7 7.8 7.8 7.8 9.6 10.2 9.6 8.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.4 8.6 8.4 9.3 10.7 11.4 11.2 10.3 9.1 8.2 8.3 7.6 6.7 6.7 6.7 5.9 8.5 5.3 6.4 6.5 6.8 7.5 8.4	9.0 9.6 9.3 8.0 6.7 6.7 5.5 6.0 6.2 5.6 8.7 9.7 9.7 10.2 9.9 8.9 9.8 10.7 10.5 10.6 8.5 8.9 7.2 7.1 6.7 6.4 6.4 6.4	7.9 8.8 7.6 6.5 6.3 5.5 4.8 4.7 5.2 4.9 8.7 9.7 8.7 9.7 9.8 10.0 8.5 7.1 6.9 6.6 6.2 5.8 2.5 5.8 2.5 5.8 2.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	9.2 8.7 6.8 6.6 5.1 5.8 9.4 10 9.5 7.0 10.2 9.5 7.4 10 9.5 7.4 10 9.5 7.4 10 9.5 7.4 10 10.2 9.5 7.4 10 10.2 9.5 7.4 10 10.2 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
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	12.2 13.2 14.2 14.3 14.3 14.3 14.5 15.1 14.9 14.9 14.2 14.1 15.4 16.3 16.3 16.3 16.3 16.3 16.3 16.3 15.6 15.6 13.3 15.1 15.8 16.5 15.9 1.5 15.9	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2 10.8 10.9 12.2 12.8 13.5 13.4 12.7 12.8 13.1 12.7 10.0 12.8 13.1 12.0 12.8 13.1 12.0 12.8 13.1 12.0 12.5 12.7 10.0 12.7 12.8 13.1 10.0 12.0 12.7 10.5 12.7 12.8 13.1 10.0 12.0 12.7 12.8 13.1 10.5 12.0 12.7 10.5 12.7 12.8 13.1 10.5 12.0 12.7 12.8 13.1 10.5 12.0 12.7 12.8 13.1 10.6 12.0 12.0 12.7 12.8 13.1 10.6 12.0 12.0 12.7 12.8 13.1 10.0 10.0 12.0 12.7 10.8 13.1 10.0 10.0 10.5 12.7 10.8 13.1 10.5 12.0 10.8 13.1 10.5 12.0 10.5 12.0 10.5 12.7 10.5 12.7 10.5 12.0 10.5 12.7 10.5 12.0 10.5 12.0 10.5 12.0 10.0 10.0 10.0 10.0 10.6 12.0 12.8 13.1	10.5 11.1 11.9 13.0 13.1 12.9 13.1 12.5 13.5 13.1 12.5 13.5 14.5 14.5 14.7 14.2 12.7 13.7 14.4 14.3	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.2 11.9 13.0 12.8 12.2 12.1 10.6 11.6 11.9 11.1 10.3 10.3 10.3 10.3 10.3 10.3 10.2 9.9 9.3	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4 9.6 10.3 11.1 10.7 9.0 8.8 10.1 10.6 10.2 10.0 10.1 10.7 10.2 10.0 9.8 9.7 9.4 9.2 8.2	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1 10.9 11.1 10.9 11.1 10.9 11.1 10.9 11.0 10.1 10.5 10.5 10.5 10.5 10.5 10.1 9.9 9.8 9.6 8.8	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8 9.5 9.6 9.2 8.3 7.4 7.8 7.9 7.7 6.0 3.6 4.3 5.8 7.0 6.6 6.6 7.2 7.7 8.6 9.3 9.7 7.7	7.7 7.8 7.8 7.8 9.6 10.2 9.6 9.6 9.6 9.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	8.4 8.6 8.4 9.3 10.7 11.4 11.2 10.3 9.1 8.2 8.3 7.6 6.9 6.7 5.9 3.9 2.8 3.5 5.3 6.4 6.5 6.8 7.5 5.8.9 9.4 6.5 6.8 7.5 8.9 9.4 4.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 8.9 9.5 7.5 7.5 8.9 9.5 7.5 7.5 8.9 9.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	9.0 9.6 9.3 8.0 6.7 6.7 5.5 6.0 6.2 5.6 8.7 9.7 10.2 9.9 8.9 9.8 10.7 10.5 10.6 8.5 8.9 7.2 7.1 6.7 6.4 6.4 6.2 6.1 10.2	7.9 8.8 7.6 6.5 6.3 5.5 4.8 4.7 5.2 4.9 8.7 9.7 8.7 9.7 9.7 9.8 7.9 5.7 9.8 10.0 8.5 7.1 6.9 6.6 6.2 5.5 8.5 5.2 5.1	9.2 8.7 6.8 6.6 6.5 5.1 5.6 5.3 9.4 10 9.5 7.1 10.2 9.5 7.7 4.9 6.5 6.1 0 5.7 6.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5
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 31	12.2 13.2 14.2 14.3 14.3 14.5 15.1 14.9 14.9 14.9 14.2 14.1 15.4 16.3 16.3 16.3 16.3 16.3 16.3 16.3 15.6 14.9 13.3 15.1 15.8 16.5 15.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	9.4 10.5 10.8 12.0 12.3 12.4 12.5 12.5 12.6 12.2 10.8 10.9 12.2 12.8 13.5 13.4 12.7 12.8 13.1 10.0 10.6 12.0 12.8 13.1 	10.5 11.1 11.9 13.0 13.1 12.9 13.1 12.5 13.1 12.5 13.1 12.5 13.1 12.5 13.1 12.5 13.1 12.5 13.5 14.0 14.5 14.7 14.2 12.7 13.7 14.4 14.3	17.5 16.3 13.5 10.7 11.6 12.8 12.4 12.2 11.2 12.2 11.9 13.0 12.8 12.2 12.1 10.6 11.6 11.6 11.9 11.1 10.3 10.3 10.3 10.7 10.3 10.3 10.7	14.3 12.5 9.8 9.9 10.6 11.1 10.5 9.8 9.4 9.6 10.3 11.1 10.7 9.2 9.0 8.8 10.1 10.6 10.2 10.0 10.1 10.7 10.2 10.0 9.8 9.7 9.4 9.2 8.2 8.2	16.3 14.5 10.7 10.3 11.0 11.8 11.5 11.0 10.1 10.9 11.1 10.9 11.1 10.3 9.6 11.0 10.5 10.5 10.5 10.5 10.5 10.5 10.1 9.9 9.8 9.6 8.8	9.5 9.6 9.2 10.4 11.9 13.1 13.0 12.1 10.8 9.5 9.6 9.2 8.3 7.4 7.8 7.9 7.7 6.0 3.6 4.3 5.8 7.0 6.6 7.2 7.7 8.6 9.3 9.7 	7.7 7.8 7.8 7.8 8.1 9.6 8.5 7.6 7.5 7.6 7.1 6.5 5.8 4.7 1.1 1.6 3.0 4.3 5.7 6.3 6.4 6.9 7.1 8.5 9.1 	8.4 8.6 8.4 9.3 10.7 11.4 11.2 10.3 9.1 8.2 8.3 7.6 6.9 6.7 6.7 6.7 5.9 3.9 2.8 3.5 5.3 6.4 6.5 6.8 7.3 7.59 9.4 	9.0 9.6 9.3 8.0 6.7 6.9 5.5 6.0 6.2 5.6 8.7 9.7 10.2 9.9 8.9 9.8 10.7 10.5 10.6 8.5 8.9 7.2 7.1 6.7 6.4 6.2 6.1 6.0	$\begin{array}{c} 7.9\\ 8.8\\ 7.6\\ 6.5\\ 6.5\\ 4.8\\ 4.7\\ 5.2\\ 4.9\\ 8.7\\ 9.7\\ 8.7\\ 9.7\\ 8.7\\ 9.8\\ 10.0\\ 8.5\\ 7.3\\ 7.1\\ 6.9\\ 6.6\\ 6.2\\ 5.9\\ 5.2\\ 5.1\\ 5.2\\ 5.1\end{array}$	9.2 8.7 6.8 6.6 6.5 5.1 5.3 5.6 5.3 9.4 10 9.5 7.1 8.00 10.2 9.5 7.7 7.4 7.1 6.9 6.5 6.1 6.5 5.5 5.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		5	SEPTEMBE	R
1	5.6	5.1	5.3	7.2	5.1	6.2	16.7	10.2	13.1	6.3	5.6	5.9
2	5.3	4.4	4.8	7.2	5.1	6.0	15.6	8.3	12.4	6.6	5.7	6.1
3	6.0	4.6	5.3	7.3	5.0	6.0	8.3	5.0	5.9	6.8	6.0	6.4
4	6.3	5.0	5.5	8.0	4.8	6.2	8.5	4.8	6.4	7.0	5.6	6.3
5	9.5	5.3	7.8	7.9	4.7	6.3	10.1	5.7	7.7	7.5	5.2	6.2
6	7.2	6.3	6.7	8.6	5.5	6.8	10.7	6.3	8.3	7.5	5.1	6.0
7	8.7	6.7	7.9	9.0	5.4	7.1	11.8	6.4	8.7	7.8	5.0	6.1
8	9.4	8.0	8.7	9.9	5.7	7.5	11.9	7.6	9.4	8.2	5.2	6.3
9	8.8	8.1	8.5	9.2	6.2	7.5	13.8	8.8	10.7			
10	8.5	7.5	7.8	7.8	5.1	6.3	13.5	9.2	11.0			
11	7.9	7.0	7.4	8.2	5.7	6.7	13.8	9.2	11.1			
12	7.5	5.9	6.8	7.5	5.2	6.3	14.9	9.0	11.7			
13	6.4	5.9	6.2	7.0	5.2	5.9	15.4	9.5	12.0			
14	6.8	5.9	6.3	6.9	5.0	5.7	14.9	9.8	12.2	9.7	6.0	7.6
15	8.1	6.8	7.7	7.7	5.0	6.3	14.8	9.7	11.8	8.3	6.5	7.2
16	8.4	8.0	8.2	8.8	5.3	6.9	13.5	9.2	11.0	7.0	4.8	5.9
17	8.9	8.1	8.4	9.0	5.9	7.1	13.8	8.7	11.0	5.5	4.8	5.1
18	9.3	8.1	8.6	8.8	5.6	6.7	13.4	7.9	10.3	5.9	4.6	5.1
19	9.1	8.0	8.6	7.8	5.2	6.4	13.2	7.9	10.3	6.6	4.9	5.5
20	9.4	7.8	8.6	5.6	4.1	4.9	12.6	7.7	10	7.1	4.9	5.8
21	9.9	7.8	8.8	9.4	5.6	7.3	12.6	7.7	9.9	7.1	5.3	6.0
22	8.5	5.5	6.6	9.3	5.4	7.1	10.9	7.8	9.2	7.3	5.2	6.0
23	7.1	5.4	6.1	10.0	4.2	6.7	9.3	7.2	8.1	7.6	5.2	6.0
24	8.7	5.2	6.6	7.3	4.8	5.5	7.5	5.3	6.4	9.5	5.1	6.2
25	8.7	5.2	6.6	6.8	4.5	5.7	7.3	5.3	6.1	7.6	5.1	6.1
26	7.9	5.2	6.2	10.0	6.0	7.8	7.7	5.8	6.7	7.3	5.4	6.2
27	8.6	4.5	6.5	9.1	6.1	7.5	9.5	7.0	8.1	7.3	6.2	6.7
28	6.2	4.2	5.6	9.3	6.7	7.9	10.2	7.5	8.6	7.2	6.6	7.0
29	5.9	4.2	5.1	12.6	7.5	9.6	8.0	7.0	7.5	6.7	6.2	6.5
30	6.3	5.1	5.6	14.0	8.4	10.6	7.9	6.5	7.2	7.1	6.2	6.5
31				15.1	9.2	11.7	6.8	5.9	6.3			
MONTH	9.9	4.2	7.0	15.1	4.1	7.0	16.7	4.8	9.3	9.7	4.6	6.2
YEAR	17.5	1.1	9.0									

OXYGEN DISSOLVED FROM LEFT INTAKE, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	OXYGEN	I DISSOLVE	ED FROM	MIDDLE IN	TAKE, in	(MG/L),	WATER YEAR	OCTOBER	2001 ТО	SEPTEMBER	2002	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER		D	ECEMBER			JANUARY	
1	9.2	7.5	8.2	9.7	7.6	8.4	8.7	6.1	7.0			
2	9.8	7.7	8.8	9.4	7.6	8.1	8.5	6.6	7.4			
3	10.0	8.6	9.2	9.0	7.6	8.1	9.4	7.2	8.2	13.0	12.2	12.7
4	10.0	8.4	9.1	8.1	6.7	7.4	10.6	7.9	9.2	13.1	12.2	12.7
5	9.7	8.1	8.8	7.1	6.0	6.6	11.3	9.0	10	13.2	12.2	12.6
6	9.1	7.5	8.1	7.8	6.0	6.9	11.6	9.7	10.4	12.6	12.0	12.3
7	8.7	7.3	7.9	8.9	7.4	7.9	11.6	9.1	10.4	12.7	11.8	12.1
8	9.5	7.5	8.3	9.8	7.7	8.6	9.6	8.1	8.9	12.7	11.2	11.9
9	9.9	8.1	8.9	10.6	8.3	9.3	9.1	8.1	8.7	12.6	11.2	11.7
10	10.6	8.8	9.6	11.1	8.3	9.5	10.3	9.0	9.7	13.0	11.3	11.8
11	11.2	9.2	9.9	12.0	9.1	10.4	11.3	9.5	10.2	12.3	11.3	11.6
12	11.0	9.5	10.1	12.8	9.6	11.0	10.7	9.4	10.0	12.4	10.9	11.5
13	10.8	9.2	9.8	12.4	9.8	11.1	11.6	9.3	10.1	12.1	10.7	11.3
14	9.8	8.0	9.1	12.6	10.1	11.3	10.7	9.2	9.7	12.1	10.9	11.3
15	9.4	7.2	8.2	12.7	10.3	11.2	10.4	8.5	9.3	12.5	11.0	11.6
16	7.6	6.1	6.9	12.9	10.2	11.4	9.9	8.4	8.9	13.0	11.5	12.0
17	6.9	5.5	6.2	12.7	9.4	10.8	10.0	8.4	9.2	13.0	11.4	12.0
18	8.0	6.2	7.1	12.3	8.9	10.3	11.4	9.2	9.9	13.4	11.4	12.2
19	8.8	7.3	7.9	12.0	8.4	9.7	10.4	9.4	9.8	13.0	11.7	12.2
20	9.7	7.7	8.5	12.1	8.5	10.0	10.1	9.5	9.6	13.7	11.7	12.5
21	10.1	8.3	9.0	12.2	9.3	10.4	11.0	9.6	10.0	13.7	11.8	12.6
22	9.9	8.2	8.9	12.1	9.0	10.4	11.1	9.8	10.3	14.3	12.1	13.0
23	8.7	7.4	8.2	12.7	9.2	10.6	11.9	10.2	11.0	14.2	12.0	12.9
24	8.4	6.4	7.5	12.7	10.2	11.2	12.3	10.7	11.2	13.3	11.9	12.5
25	7.6	6.1	6.6	13.6	10.0	11.4	11.3	10.2	10.7	12.4	9.9	11.4
26	7.4	5.9	6.4	10.7	7.8	9.8	11.2	10.2	10.6	10.9	9.9	10.4
27	7.4	5.8	6.4	8.3	5.6	7.0	11.5	10.6	10.9	11.7	10.7	11.1
28	7.8	6.1	6.7	6.9	5.6	6.1				12.8	11.1	11.7
29	8.5	6.4	7.4	7.4	6.0	6.7						
30	9.1	7.3	8.0	7.8	6.0	6.6						
31	8.8	7.6	8.1							11.1	9.6	10.6
MONTH	11.2	5.5	8.2	13.6	5.6	9.3	12.3	6.1	9.7	14.3	9.6	11.9

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

OXYGEN DISSOLVED	FROM MIDDLE	INTAKE,	in	(MG/L),	WATER	YEAR	OCTOBER	2001	то	SEPTEMBER	2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.9	9.3	9.5	15.4	12.8	14.2	9.0	7.8	8.4	6.7	6.4	6.6
2	12.4	9.4	10.5	16.3	14.3	15.5	9.2	7.8	8.3	6.6	6.2	6.5
3	11.7	10.6	11.1	16.1	12.8	14.7	9.4	7.8	8.3	6.8	6.2	6.6
4 5	12.8 14.0	11.0 12.2	12.0 13.0	13.4 10.7	9.8 10.0	10.7 10.3	9.3 8.7	7.9 7.9	8.5 8.2	6.9 6.7	6.5 6.5	6.8 6.6
6	14 1	12 4	12 1	11 4	10.7	11 0	10.2	8.2	9.4	6.9	6 5	5 5
7	14.3	12.4	12.9				11.8	9.7	10.7	6.7	6.3	6.5
8	14.3	12.6	13.4	11.9	11.2	11.7	12.7	10.4	11.3	6.9	5.7	6.3
9	14.8	12.6	13.5	12.0	10.5	11.4	12.9	9.7	11.2	5.7	5.0	5.3
10	14.7	12.7	13.5	11.9	9.9	10.9	11.7	8.6	10.2	6.0	4.8	5.4
11	14.5	12.2	13.1	10.8	9.4	10.0	10.3	7.8	9.1	6.2	5.3	5.6
13	13.8	11.0	12.4	11.8	10.4	11.1	8.9	7.6	8.0	8.2	5.0	5.7
14	15.2	12.3	13.6	12.8	11.2	11.9	8.9	7.7	8.2	9.4	8.2	9.1
15	15.5	12.9	14.1	12.4	10.9	11.7	8.0	7.1	7.6	9.3	7.3	8.5
16	16.1	13.6	14.6	12.0	9.1	11.0	7.2	6.5	6.8	7.3	6.6	7.0
17	16.2	13.5	14.5	11.9	8.7	10.1	7.5	5.9	6.6	6.6	5.8	6.2
10	15.8	12.9	14.2	11.5	8.7	9.6	8.3	5.4	5.7	6.5 7 1	5.7	6.1
20	16.0	13.4	14.8	11.8	10.8	11.3	6.1	1.1	3.8	7.3	6.9	7.1
21	15.7	12.8	14.2	11.1	10.2	10.5	3.5	1.6	2.8	7.5	7.1	7.3
22	14.9	10.2	12.5	10.3	10.1	10.2	4.5	3.1	3.6	7.4	7.0	7.3
23	13.0	10.1	11.3	10.8	10.1	10.5	5.9	4.5	5.3	7.5	7.2	7.3
24	14.9	10.7	12.7	11.0	10.8	10.9	6.8	5.9	6.4	7.3	7.0	7.2
25	12.0	12.1	13.0	10.8	10.3	10.5	0./	0.4	0.5	/.1	0.0	7.0
26	16.4	13.0	14.5	10.3	10.0	10.2	7.1	6.5	6.8	6.7	6.2	6.5
27	15.9	13.2	14.4	10.3	9.8	10.1	7.6	7.1	7.4	6.4 6 1	5.9	6.2
29				10.2	9.5	9.8	8.1	7.4	7.9	6.2	5.2	5.8
30				9.9	9.3	9.6	7.4	6.7	6.9	6.2	5.4	5.7
31				9.3	8.3	8.8				6.0	5.2	5.6
MONTH	16.4	9.3	13.1	16.3	8.3	11.0	12.9	1.1	7.5	9.4	4.8	6.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY 1	MAX 5.6	MIN JUNE 5.2	MEAN	MAX 6.0	MIN JULY 5.1	MEAN 5.5	MAX 16.2	MIN AUGUST 8.4	MEAN 11.3	MAX 6.2	MIN SEPTEMBI 5.8	MEAN ER 5.9
DAY 1 2	MAX 5.6 5.2	MIN JUNE 5.2 4.4	MEAN 5.3 4.8	MAX 6.0 6.9	MIN JULY 5.1 5.1	MEAN 5.5 5.8	MAX 16.2 13.5	MIN AUGUST 8.4 8.2	MEAN 11.3 10.6	MAX 6.2 6.4	MIN SEPTEMBI 5.8 5.8	MEAN ER 5.9 6.0
DAY 1 2 3	MAX 5.6 5.2 5.9	MIN JUNE 5.2 4.4 4.7	MEAN 5.3 4.8 5.3	MAX 6.0 7.6	MIN JULY 5.1 5.1 4.9	5.5 5.8 6.1	MAX 16.2 13.5 8.2	MIN AUGUST 8.4 8.2 5.1	MEAN 11.3 10.6 5.9	MAX 6.2 6.4 6.6	MIN SEPTEMBI 5.8 5.8 6.1	MEAN ER 5.9 6.0 6.4
DAY 1 2 3 4 5	MAX 5.6 5.2 5.9 6.2	MIN JUNE 5.2 4.4 4.7 5.1 5.5	MEAN 5.3 4.8 5.3 5.5 5.7	MAX 6.0 6.9 7.6 9.1 9.0	MIN JULY 5.1 5.1 4.9 5.1 5.1	MEAN 5.5 5.8 6.1 6.7 6.8	MAX 16.2 13.5 8.2 8.0 9.6	MIN AUGUST 8.4 8.2 5.1 4.6 5.3	MEAN 11.3 10.6 5.9 6.1 7 2	MAX 6.2 6.4 6.6 6.9 7.3	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.8 5.4	MEAN 5.9 6.0 6.4 6.2 6.2
DAY 1 2 3 4 5	MAX 5.6 5.2 5.9 6.2 6.2	MIN JUNE 5.2 4.4 4.7 5.1 5.5	5.3 4.8 5.3 5.5 5.7	MAX 6.0 6.9 7.6 9.1 9.0	MIN JULY 5.1 5.1 4.9 5.1 5.3	MEAN 5.5 5.8 6.1 6.7 6.8	MAX 16.2 13.5 8.2 8.0 9.6	MIN AUGUST 8.4 8.2 5.1 4.6 5.3	MEAN 11.3 10.6 5.9 6.1 7.2	MAX 6.2 6.4 6.6 6.9 7.3	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.4	MEAN 5.9 6.0 6.4 6.2 6.2
DAY 1 2 3 4 5 6 7	MAX 5.6 5.2 5.9 6.2 6.2 6.8	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6 5	5.3 4.8 5.5 5.7 6.2 7 8	MAX 6.0 6.9 7.6 9.1 9.0 8.0 8.0	MIN JULY 5.1 5.1 4.9 5.1 5.3 5.7	5.5 5.8 6.1 6.7 6.8 6.7 7.0	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10 0	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8	MAX 6.2 6.4 6.6 7.3 7.2 7.2	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.4 5.2 5.2	MEAN 5.9 6.0 6.4 6.2 6.2 6.0
DAY 1 2 3 4 5 6 7 8	MAX 5.6 5.2 5.9 6.2 6.2 6.8 8.6 8.1	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 10.2	MIN JULY 5.1 5.1 4.9 5.1 5.3 5.7 5.6 6.0	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6	MAX 16.2 13.5 8.2 9.6 9.3 10.0 9.9	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4	MAX 6.2 6.4 6.9 7.3 7.2 7.5 7.8	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.4 5.2 5.1 5.5	MEAN ER 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.0 6.0
DAY 1 2 3 4 5 6 7 8 9	MAX 5.6 5.2 5.9 6.2 6.2 6.8 8.6 8.6 8.1 6.8	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2	5.3 4.8 5.3 5.5 5.7 6.2 7.8 7.6 6.6	MAX 6.0 7.6 9.1 9.0 8.0 9.4	MIN JULY 5.1 5.1 4.9 5.1 5.3 5.7 5.6 6.0 6.7	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6 7.7	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.4 5.2 5.1 5.5 5.5	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.0 6.0 6.3
DAY 1 2 3 4 5 6 7 8 9 10	MAX 5.6 5.2 6.2 6.2 6.2 6.8 8.6 8.1 6.8 6.3	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.8 7.6 6.6 6.1	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0	MIN JULY 5.1 5.1 5.3 5.7 5.6 6.0 6.7 5.9	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6 7.7 7.0	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 	MIN SEPTEMBI 5.8 5.8 5.4 5.2 5.1 5.5 	MEAN ER 5.9 6.0 6.4 6.2 6.2 6.2 6.2 6.2 6.0 6.0 6.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 5.6 5.2 5.9 6.2 6.2 6.2 6.8 8.6 8.1 6.8 6.3 6.2	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7 5.6	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 10.2 9.4 8.0 8.3	MIN JULY 5.1 4.9 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6 7.7 7.0 6.9	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.2 10.2	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.2 5.1 5.5 	MEAN 5.9 6.0 6.4 6.2 6.2 6.0 6.0 6.0 6.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 5.6 5.9 6.2 6.2 6.8 8.6 8.1 6.8 6.3 6.2 6.1	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7 5.6 5.5	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.9 5.8	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.6 7.7 7.0 6.9 6.4	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 	MIN SEPTEMBI 5.8 5.4 5.4 5.2 5.1 5.5 	MEAN ER 5.9 6.0 6.2 6.2 6.2 6.0 6.0 6.0 6.3
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 5.6 5.9 6.2 6.2 6.8 8.6 8.6 8.6 8.6 6.3 6.2 6.1 5.6	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7 5.6 5.5 5.1	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0 6.9	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.6 7.7 7.0 6.9 6.4 6.1 6.0	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.5	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 9.5	MIN SEPTEMBI 5.8 5.8 6.1 5.8 5.4 5.2 5.1 5.5 6.2	MEAN 5.9 6.0 6.4 6.2 6.2 6.0 6.0 6.0 6.3 7.6
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 5.6 5.2 5.9 6.2 6.2 6.8 8.6 8.1 6.8 6.3 6.2 6.1 5.8 5.8 6.5	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7 5.6 5.5 5.1 5.1 5.6	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3 5.3 6.0	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0 6.9 7.9	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6 7.7 7.0 6.9 6.4 6.1 6.0 6.6	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.3 8.5 9.0	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7	MEAN ER 5.9 6.0 6.4 6.2 6.2 6.2 6.2 6.2 6.0 6.3 7.6 7.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 5.6 5.2 5.9 6.2 6.2 6.2 6.2 6.3 6.3 6.3 6.2 6.1 5.6 5.8 6.5 7.0	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 5.7 5.6 5.5 5.1 5.1 5.6 6.4	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.8 6.6 6.1 5.9 5.8 5.3 5.3 6.0 6.8	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0 6.9 7.9 9.0	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7 5.8	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.6 7.7 7.0 6.9 6.4 6.0 6.6 7.2	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.5 9.0 8.5	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.3 7.6 7.4 6.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 5.6 5.2 6.2 6.2 6.8 8.6 8.6 8.6 6.3 6.2 6.1 5.6 5.8 6.5 7.0 8.6	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.2 5.7 5.6 5.5 5.1 5.6 6.4 6.6	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 9.4 8.0 8.3 7.6 7.0 6.9 7.9 9.0 9.4	MIN JULY 5.1 4.9 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7 5.8 6.2	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.0 7.0 7.0 6.9 6.4 6.1 6.0 6.6 7.2 7.5	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 12.9 12.9	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.3 8.3 8.5 9.0 8.5 7.8	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.0 6.0 6.3 7.6 7.4 6.0 5.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10	MAX 5.6 5.2 5.9 6.2 6.2 6.2 6.2 6.2 6.3 6.3 6.3 5.6 5.6 5.5 7.0 8.6 5.8 6.5	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.2 5.7 5.6 5.5 5.1 5.1 5.1 5.6 6.4 6.6 7.9	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.8 7.6 6.2 7.8 7.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7 8.3 0	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0 6.9 7.9 9.0 9.4 9.3	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.5 5.7 5.8 6.2 6.1	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.0 7.0 7.0 6.9 6.4 6.1 6.0 6.6 7.2 7.5 7.2 7.2	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 12.9 14.2 12.9 14.2	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 8.1 8.2 8.3 8.3 8.3 8.3 8.5 9.0 8.5 7.8 7.6 2	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7	MIN SEPTEMBI 5.8 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 4.8 4.8	MEAN 5.9 6.0 6.4 6.2 6.2 6.0 6.0 6.0 6.0 6.0 6.3 7.6 7.4 6.0 5.1 5.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 5.6 5.9 6.2 6.2 6.8 8.6 8.1 6.8 6.3 6.2 6.1 5.6 5.8 6.5 7.0 8.6 8.3 8.3	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.8 6.2 5.7 5.6 5.5 5.1 5.6 6.4 6.6 7.9 7.4 7.2	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7 8.3 7.9 7.7	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 10.2 9.4 8.0 8.3 7.6 7.0 6.9 7.9 9.0 9.4 9.3 8.1 6.0	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7 5.8 6.2 6.1 5.4 3.8	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.0 7.0 7.0 7.0 6.9 6.4 6.0 6.6 7.2 7.5 7.2 6.7 5.3	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 12.9 14.2 13.6 13.2	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.5 9.0 8.5 7.8 7.6 8.2 8.3	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7 10.4	MAX 6.2 6.4 6.6 6.9 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7 6.2 6.8	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 4.8 5.2	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.3 7.6 7.4 6.0 5.1 5.1 5.5 5.8
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 5.6 5.9 6.2 6.2 6.8 8.6 8.6 8.1 5.6 5.8 6.3 6.2 6.1 5.6 5.8 6.5 7.0 8.8 8.3 8.3 8.3 8.6	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 5.5 5.1 5.1 5.1 5.1 5.6 6.4 6.6 7.9 7.4 7.2 5.7	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7 8.3 7.9 7.7 7.8	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.0 8.3 7.6 7.0 6.9 7.9 9.0 9.4 9.3 8.1 6.0 5.0	MIN JULY 5.1 4.9 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.4 5.5 5.7 5.8 6.2 6.1 5.4 3.8 2.5	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.6 7.7 7.0 6.9 6.4 6.0 6.6 7.2 7.5 7.2 6.7 5.3 3.6	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 14.2 13.6 13.2 14.2 13.6 13.2 14.2 13.6	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.7 8.1 8.2 8.3 8.3 8.5 9.0 8.5 7.8 7.6 8.2 8.3 8.2 8.2	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7 10.4 10	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7 6.2 6.8 6.8	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 4.8 5.2 5.1 5.5 5.1 5.5 5.1 5.5 5.1 5.5 5.2 5.2 6.7 4.8 4.8 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	MEAN ER 5.9 6.0 6.4 6.2 6.2 6.0 6.3 7.6 7.4 6.0 5.1 5.1 5.5 5.8 5.9
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DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30	MAX 5.6 5.29 6.2 6.8 8.61 6.8 6.3 6.2 6.1 5.68 5.6 5.6 5.6 7.0 6.8 8.3 8.3 8.6 7.0 5.2 7.9 5.1 9.5 1.5.1	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 8.2 5.7 5.6 5.5 5.1 5.6 6.4 6.6 9 7.2 5.5 5.1 5.5 5.4 2.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7 8.3 7.9 7.7 7.8 6.0 6.1 6.2 6.1 5.9 5.3 6.0 6.8 7.7 8.3 5.5 5.7 6.2 7.8 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 6.0 6.2 7.7 8 5.3 7.7 7.7 7.8 6.2 7.7 8 5.3 7.7 7.7 7.8 6.2 7.7 8 5.3 7.7 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 10.2 9.4 8.0 8.3 7.6 6.9 7.9 9.0 9.4 9.3 8.1 6.0 5.0 7.4 7.0 10.0 8.9 9.5 10.8 10.2	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7 5.8 6.2 6.1 5.4 3.8 2.5 3.9 4.5 3.9 4.5 4.7 4.7 5.9 6.0 6.7 5.4 3.8	MEAN 5.5 5.8 6.1 6.7 7.0 7.0 7.7 7.0 6.9 6.4 6.0 6.6 7.2 7.5 5.3 3.6 5.2 5.5 5.9 7.8 7.4 7.9 8.9 9.8	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 14.2 13.6 13.2 14.2 13.6 13.2 14.2 13.6 13.2 12.4 9.8 9.0 6.7 6.6 7.1 8.7 10.0 7.9 6.9	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.7 8.1 8.2 8.3 8.3 8.5 9.0 8.5 7.8 7.6 8.2 8.3 8.3 8.2 7.1 6.6 5.4 5.4 5.4 5.4	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7 10.4 10 8.3 7.5 6.2 5.8 6.2 7.3 8.1 7.3 6.7	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7 6.8 6.8 6.8 6.8 8.2 7.3 7.1 7.4 7.2 6.9	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 4.8 5.0 5.2 5.4 5.5 6.2 6.7 6.7 6.7 5.2 5.4 5.3 5.3 5.3 5.3 5.3 5.4 5.4 5.3 5.3 5.3	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.2 6.0 6.3 7.4 6.0 5.1 5.5 5.8 5.1 5.1 5.5 5.8 5.9 6.0 5.9 6.0 5.9 6.0 5.1 5.5 5.8 5.9 6.0 6.1 6.3 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2
DAY 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	MAX 5.6 5.29 6.2 6.8 8.61 5.6 6.3 6.3 6.3 6.2 6.16 5.8 5.6 7.0 6.8 8.3 8.6 6.70 5.2 7.0 8.3 8.6 7.05 8.5 7.5 9.5 1.2 7.5 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.0 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.5 6.2 5.7 5.6 5.5 5.1 5.6 6.4 6.6 7.9 7.4 7.2 5.7 5.4 5.5 5.4 5.5 5.1 5.5 5.4 6.6 7.9 7.4 7.2 5.7 5.5 5.4 6.5 5.5 5.4 6.5 5.5 5.1 5.5 5.4 6.5 5.5 5.1 5.5 5.5	MEAN 5.3 4.8 5.5 5.7 6.2 7.8 7.6 6.2 7.8 5.7 6.6 6.1 5.9 5.8 5.3 6.0 6.8 7.7 8.3 5.3 6.0 6.8 7.7 8.3 5.5 5.7 7.8 6.2 6.4 5.5 5.7 7.7 8.2 5.5 5.7 7.6 6.2 7.7 6 6.2 7.7 7.7 6 6.2 7.7 7.7 6 6.2 7.7 8 5.3 5.3 6.0 6 6.2 7.7 7.7 6 6.2 7.7 7.7 6 6.2 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 8.3 7.6 7.0 6.9 7.9 9.0 9.4 9.3 8.1 6.0 5.0 7.3 9.0 7.4 7.0 10.0 8.9 9.5 10.8 12.3 14.0	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.4 5.5 5.7 5.8 6.2 6.1 5.4 3.8 2.5 3.9 4.5 3.9 4.5 4.7 4.7 5.9 6.0 6.7 7.0 7.6 8.2	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.7 7.0 6.9 6.4 6.0 6.6 7.2 7.5 7.2 6.7 5.3 3.6 5.2 5.6 5.9 7.8 7.4 9.8 10.6	MAX 16.2 13.5 8.2 8.0 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 14.2 13.6 13.2 12.4 9.8 9.0 6.7 6.6 7.1 8.7 10.0 7.9 6.9 6.6	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 6.0 7.7 8.1 8.2 8.3 8.5 9.0 8.5 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7 10.4 10 8.3 7.5 6.2 5.8 6.2 7.3 8.1 7.3 6.7 6.4	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7 6.2 6.8 6.8 6.9 6.8 8.2 7.3 7.1 7.4 7.2 7.5 7.5 7.0 5.4 6.9 6.7 6.9 7.3	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 4.8 4.8 5.4 5.2 5.1 6.2 6.7 4.8 4.8 4.8 5.2 5.4 5.2 5.5 6.2 6.7 4.8 5.2 5.2 5.5 6.2 6.7 4.8 5.2 5.2 5.2 5.5 6.2 6.7 4.8 5.2 5.2 5.2 5.5 6.2 6.7 4.8 5.2 5.2 5.2 5.2 5.5 6.2 6.7 4.8 5.3 5.2 5.2 5.2 5.5 5.2 5.5 5.2 5.5 5.5	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.0 6.3 7.6 6.0 5.1 5.5 5.8 5.9 6.0 5.1 5.5 5.8 5.9 6.0 5.1 5.5 5.8 5.9 6.0 6.1 6.1 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2
DAY 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 MONTH	MAX 5.6 5.2 6.2 6.2 6.2 6.3 6.3 6.3 6.3 6.3 6.4 5.8 6.5 7.0 8.6 8.3 8.3 8.6 6.70 7.5 8.2 7.9 8.51 7.5 8.51 7.5 8.53 8.63 8.63 8.63 8.63 7.0 8.64 8.63 8.63 8.63 7.0 8.64 8.63 8.63 8.64 7.0 8.64 8.63 8.64 8.63 8.64 8.64 8.65 7.0 8.68 8.63 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.64 8.64 8.65 7.0 8.68 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.63 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.64 8.65 8.64 8.54 8.554 8.554 8.554 8.554 8.554 8.554 8.554 8.555 8.554 8.5555 8.5555 8.5555 8.5555 8.55555 8.5555555555	MIN JUNE 5.2 4.4 4.7 5.1 5.5 5.4 6.8 6.2 5.7 5.6 5.1 5.1 5.6 6.4 6.6 7.9 7.4 7.2 5.7 5.5 5.1 5.2 5.1 5.2 4.6 2.5 7.4 7.2 5.5 5.1 5.2 4.6 7.2 5.1 5.5 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	MEAN 5.3 4.8 5.3 5.5 5.7 6.2 7.6 6.2 7.6 6.6 6.1 5.9 5.3 5.3 6.0 6.8 7.7 7.8 6.0 6.8 7.7 7.7 7.8 6.0 6.1 6.2 6.3 6.2 6.3 5.5 5.7	MAX 6.0 6.9 7.6 9.1 9.0 8.0 9.4 10.2 9.4 8.0 8.3 7.6 7.9 9.4 9.3 8.1 6.0 5.0 7.3 9.0 7.4 7.0 10.0 8.9 9.5 10.8 12.3 14.0 14.0	MIN JULY 5.1 5.3 5.7 5.6 6.0 6.7 5.9 6.0 5.5 5.7 5.9 6.0 5.5 5.7 5.8 6.2 6.1 5.4 5.5 5.7 5.8 6.2 6.1 5.4 3.8 2.5 3.9 4.5 4.7 4.7 4.7 5.9 6.0 6.7 7.0 7.6 8.2 2.5	MEAN 5.5 5.8 6.1 6.7 6.8 6.7 7.0 7.0 7.0 6.9 6.4 6.1 6.0 6.6 7.2 7.5 7.2 6.7 5.3 3.6 5.2 6.5 5.6 9 7.8 7.4 7.9 8.9 9.8 10.6 6.8	MAX 16.2 13.5 8.2 8.0 9.6 9.3 10.0 9.9 12.6 12.3 13.2 14.1 14.0 13.7 13.5 12.9 12.9 12.9 12.9 12.9 12.9 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.5 12.9 14.2 13.6 13.2 13.2 13.2 13.5 12.9 14.2 13.6 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.5 13.9 14.0 13.7 13.5 12.9 14.2 13.6 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.5 13.9 14.0 13.7 13.6 13.2 13.2 13.2 13.2 13.2 13.2 13.6 13.2 13.2 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.2 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.6 13.7 13.6 13.7 13.6 13.6 13.7 13.6 13.7 13.6 13.7 10.0 7.9 6.6 16.2	MIN AUGUST 8.4 8.2 5.1 4.6 5.3 6.0 7.0 7.7 8.1 8.2 8.3 8.3 8.5 9.0 8.5 7.6 8.2 8.3 8.2 7.1 6.5 4.5 5.4 5.4 5.4 5.4 5.4 5.4 5	MEAN 11.3 10.6 5.9 6.1 7.2 7.6 7.8 8.4 9.7 9.9 10.2 10.5 10.8 11.2 11.1 10.4 9.9 10.2 10.7 10.2 10.7 10.4 10.2 10.7 10.4 9.9 9.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.5 10.2 10.7 10.2 10.7 10.4 9.9 9.9 9.9 9.9 9.9 9.9 9.0 10.2 10.5 10.2 10.7 10.4 9.5 10.2 10.7 10.4 9.6 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.2 7.3 8.1 7.5 6.4 8.7	MAX 6.2 6.4 6.6 7.3 7.2 7.5 7.8 9.5 8.5 7.0 5.4 5.7 6.2 6.8 6.8 6.9 6.8 8.2 7.3 7.1 7.2 6.7 6.9 6.8 8.2 7.3 7.1 7.2 6.7 6.9 9.5	MIN SEPTEMBI 5.8 5.4 5.2 5.1 5.5 6.2 6.7 4.8 4.8 4.8 5.0 5.2 5.4 5.2 5.4 5.3 5.3 5.3 5.3 5.3 5.3 5.4 5.3 5.3 5.4 5.3 5.3 5.4 5.3 5.3 5.4 5.3 5.3 5.3 5.4 5.3 5.3 5.4 5.3 5.3 5.3 5.4 5.3 5.3 5.4 5.3 5.4 5.3 5.3 5.3 5.4 5.3 5.3 5.3 5.3 5.3 5.4 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	MEAN 5.9 6.0 6.4 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2

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

OXYGEN DISSOLVED FROM RIGHT INTAKE, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER		D	ECEMBER			JANUARY	
1	8.8	7.5	8.1	9.7	7.2	8.3	8.5	5.9	6.9			
2	9.2	7.8	8.6	8.9	7.2	7.8	9.4	6.8	7.8			
3	9.4	8.2	8.9	8.9	7.3	8.0	9.8	7.2	8.4	13.0	12.3	12.8
4	9.1	7.9	8.7	8.0	6.1	7.1	10.7	8.0	9.2	13.1	12.3	12.7
5	9.0	/./	0.4	0.7	5.9	0.5	11.5	9.1	10.0	12.7	12.2	12.4
6	8.5	7.2	7.8	7.3	5.9	6.5	11.8	9.7	10.5	12.6	12.0	12.3
7	8.0	7.1	7.6	8.3	7.2	7.7	11.9	9.2	10.5	12.8	11.8	12.3
8	8.9	7.4	8.1	9.9	7.7	8.6	10.0	8.2	9.2	12.9	11.3	12.1
10	9.9	8.4	9.1	10.4	8.4	9.2	9.5	8.2	8.8	12.9	11.2	11.8
10	11.0	J.1	10.1	11.5	0.5	9.5	10.5	9.0	9.0	13.3	11.1	12.0
11	11.8	9.9	10.7	11.8	9.0	10.3	11.4	9.5	10.2	12.3	11.3	11.7
12	11.8	10.2	10.9	12.7	9.6	11.0	11.3	9.4	10.2	12.6	10.9	11.5
13	10.9	9.5	10.4	12.3	9.8	11.1	11.4	9.3	10.2	12.2	10.7	11.4
15	9 1	7.8 6.8	9.3	12.8	10.1	11 2	10.7	9.3	9.8	12.2	11 0	11 7
15	J.1	0.0	0.1	12.0	10.5	11.2	10.4	0.0	5.1	12.7	11.0	±±•,
16	7.7	5.9	6.8	13.4	10.2	11.4	10.0	8.5	9.0	13.2	11.5	12.1
17	6.7	5.2	5.9	13.0	9.6	11.0	10.1	8.5	9.3	13.2	11.4	12.1
18	7.0	5.7	6.4	12.7	8.8	10.5	11.5	9.2	10.0	13.5	11.4	12.3
20	7.9	6.7 7 /	7.2 9.1	12.5	8.3	10	10.5	9.4	9.9	13.1	11.8	12.3
20	0.0	/.1	0.1	12.1	0.5	10.1	10.5	9.5	9.7	13.0	11./	12.0
21	9.6	8.2	8.8	12.3	9.3	10.4	11.1	9.6	10.1	13.8	11.8	12.6
22	9.8	7.9	8.8	12.4	8.9	10.5	11.2	9.9	10.4	14.3	12.1	13.0
23	8.6	6.8	8.0	13.0	9.0	10.7	11.9	10.3	11.0	14.3	12.1	13.0
24	7.9	5.4	6.9	13.2	10.0	11.0	12.3	10.7	11.2	13.4	11.9	12.6
25	0.5	4.9	5.7	13.5	9.9	11.4	11.5	10.2	10.0	12.4	10.0	11.5
26	6.5	5.0	5.6	10.8	7.8	9.9	11.3	10.2	10.7	11.2	10.0	10.5
27	6.4	5.0	5.5	8.2	5.5	7.2	11.7	10.7	11.0	11.9	10.7	11.2
28	6.7	5.0	5.8	7.2	5.5	6.1				13.1	11.1	11.7
29	7.7	5.5	6.7	7.6	5.9	6.7						
31	9.0	0./ 7.6	8.4	8.2	5.8	0.0				11.3	9.8	10.6
											510	
MONTH	11.8	4.9	8.0	13.5	5.5	9.2	12.3	5.9	9.8	14.3	9.8	12.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.0	9.4	9.7	15.4	12.9	14.3	9.2	8.0	8.5	6.7	6.5	6.7
2	13.0	9.6	10.8	16.4	14.4	15.7	9.4	7.9	8.4	6.8	6.3	6.5
3	11.9	10.7	11.2	16.2	12.6	14.8	9.5	7.9	8.4	6.9	6.3	6.6
4	13.0	11.1	12.0	13.6	9.9	10.8	9.4	8.0	8.6	6.9	6.6	6.8
5	14.1	12.2	13.1	10.8	10.1	10.4	8.9	8.0	8.4	6.8	6.5	6.7
6	14.1	12.5	13.2	11.6	10.8	11.2	10.4	8.3	9.4	6.8	6.6	6.7
7	15.1	12.6	13.1				11.8	9.8	10.7	6.7	6.4	6.6
8	14.4	12.7	13.5	12.1	11.5	11.8	12.9	10.5	11.4	7.0	5.8	6.4
9	14.8	12.7	13.6	12.2	10.6	11.5	13.0	9.8	11.3	5.8	5.1	5.3
TO	14.9	12.8	13.7	12.2	10.1	TT.0	11.8	8.7	T0.3	6.0	4.9	5.4
11	14.6	12.4	13.2	11.0	9.5	10.2	10.3	7.9	9.2	6.4	5.3	5.8
12	14.1	11.1	12.7	12.1	9.8	11.0	9.3	7.7	8.2	5.8	5.0	5.4
13	13.8	11.1	12.5	11.9	10.5	11.2	9.1	7.7	8.2	6.4	5.0	5.7
14	15.2	12.4	13.6	12.9	11.4	12.0	9.2	7.8	8.4	8.0	6.3	7.3
15	12.0	13.0	14.2	12.7	10.9	11.9	8.2	7.3	/./	7.9	/.3	/./
16	16.0	13.7	14.7	12.2	9.3	11.1	7.4	6.7	7.0	7.3	6.7	7.1
17	16.1	13.6	14.6	12.8	9.2	10.5	7.8	6.1	6.8	6.7	5.9	6.3
18	15.6	13.0	14.2	10.7	9.1	9.7	7.7	5.4	6.8	6.5	5.9	6.2
19	15.9	13.0	14.5	11.8	10.2	11.1	7.0	4.8	5.7	7.1	6.5	6.7
20	10.2	13.5	14.9	11.8	10.8	11.3	5.0	1.2	3.8	7.3	7.1	7.2
21	15.5	12.9	14.3	11.2	10.3	10.6	3.6	1.6	2.8	7.6	7.2	7.3
22	15.1	10.2	12.7	10.4	10.2	10.3	4.6	3.2	3.7	7.5	7.1	7.4
23	13.0	10.2	11.4	10.9	10.2	10.6	5.9	4.6	5.4	7.5	7.2	7.4
24	14.9	10.8	12.8	11.1	10.9	11.0	6.9	5.9	6.5	7.4	7.1	7.2
25	12.8	12.2	13.8	10.9	10.4	T0.6	6.7	6.5	0.0	7.2	6.7	7.0
26	16.3	13.0	14.5	10.4	10.2	10.3	7.2	6.5	6.9	6.8	6.3	6.6
27	15.8	13.3	14.4	10.4	9.9	10.2	7.7	7.0	7.4	6.6	6.0	6.2
28				10.2	9.9	10.1	7.4	7.1	7.2	6.2	5.9	6.0
29				10.3	9.5	9.9	7.4	7.0	7.3	6.5	5.3	6.0
30				σ 4 10.0	9.3	9.7 8 0	7.0	6.7	6.9	0.5 6 2	5.4	5.8
31				2.1	3.1	0.9				0.2	5.2	5.7
MONTH	16.3	9.4	13.2	16.4	8.4	11.1	13.0	1.2	7.6	8.0	4.9	6.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	5.6	5.2	5.4	6.1	5.2	5.5	7.9	5.2	6.3	6.2	5.8	5.9
2	5.4	4.5	4.9	7.0	5.1	5.9	9.8	5.0	6.6	6.5	5.8	6.1
3	6.2	4.7	5.4	8.2	4.9	6.3	8.3	5.0	6.0	6.7	6.1	6.4
4	6.6	5.0	5.7	10.2	5.0	7.2	5.5	3.6	4.5	6.7	5.8	6.2
5	6.3	5.4	5.7	9.5	5.3	7.1	7.4	3.5	5.4	7.1	5.4	6.1
6	5.9	5.5	5.6	8.6	5.6	7.0	7.8	4.5	5.8	7.0	5.2	5.9
7	6.7	5.6	6.0	9.4	5.4	7.2	8.4	5.1	6.6	7.4	5.1	6.0
8	7.1	6.7	6.9	10.0	5.9	7.7	8.1	5.1	6.3	7.9	5.4	6.3
9	6.8	6.3	6.7	9.4	6.7	7.8	8.1	4.9	6.0			
10	6.3	5.8	6.2	8.5	6.8	7.5	8.9	5.3	6.6			
11	6.3	5.7	6.0	8.2	6.0	6.9	8.6	5.6	7.0			
12	6.2	5.6	5.9	7.6	5.3	6.4	10.3	5.7	7.4			
13	5.7	5.1	5.4	7.1	5.3	6.2	10.5	5.8	7.8			
14	5.7	5.1	5.3	6.9	5.4	6.0	12.0	6.2	8.5	9.5	6.2	7.5
15	6.6	5.7	6.1	7.7	5.8	6.7	13.7	7.4	9.9	8.5	6.7	7.5
16	7.1	6.5	6.8	8.9	6.0	7.2	9.6	6.9	8.2	7.0	4.8	6.0
17	7.0	6.6	6.7	9.2	6.3	7.6	10.0	5.6	7.8	5.5	4.9	5.2
18	6.7	6.3	6.5	9.3	6.1	7.3	18.9	7.1	12.2	5.9	4.7	5.2
19	6.6	6.0	6.3	8.5	5.9	6.9	19.4	10.9	14.2	6.4	5.0	5.5
20	6.4	5.9	6.2	6.6	3.0	5.5	16.6	9.8	12.7	6.8	5.2	5.8
21	6.4	5.7	6.0	4.5	2.3	3.3	13.0	8.0	10.5	6.6	5.4	5.9
22	6.8	5.6	6.1	7.1	3.8	5.3	8.0	5.8	7.1	6.7	5.4	5.9
23	7.0	5.4	6.1	8.5	4.4	6.0	6.5	5.2	5.8	6.8	5.3	5.9
24	7.7	5.1	6.2	7.2	5.3	6.1	5.3	4.4	5.0	6.9	5.3	5.9
25	8.5	5.1	6.5	8.3	4.8	6.3	5.3	4.2	4.7	7.2	5.3	6.1
26	7.9	5.2	6.3	6.4	4.8	5.6	6.0	4.6	5.2	7.0	5.6	6.3
27	8.6	4.3	6.4	6.6	5.4	6.0	6.8	4.7	5.6	7.5	6.3	6.9
28	6.1	4.3	5.6	6.7	5.3	5.8	6.3	4.9	5.5	7.2	6.7	7.1
29	5.9	4.2	5.2	7.4	5.2	6.1	7.9	4.9	6.0	6.7	6.3	6.5
30	6.2	5.2	5.6	8.9	5.4	6.8	6.8	6.4	6.7	6.9	6.3	6.5
31				8.2	5.5	6.6	6.7	6.0	6.4			
MONTH	8.6	4.2	6.0	10.2	2.3	6.4	19.4	3.5	7.2	9.5	4.7	6.2
YEAR	19.4	1.2	8.5									

OXYGEN DISSOLVED FROM RIGHT INTAKE, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	210001110	0111-0111			• •							-
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	٤	N	OVEMBER		DI	ECEMBER			JANUARY	
1				89	69	76	88	53	66			
2	105	77	91	89	71	77	84	62	71			
3	109	90	98	88	73	78	93	65	76	94	85	89
4	112	91	100	83	69	74	99	71	82	95	85	89
5	112	90	98	86	70	77	104	78	88	102	86	94
6	102	82	91	93	74	81	110	85	93	96	85	90
7	94	77	83	90	73	79	110	82	94	93	85	88
8	93	74	81	99	71	82	89	71	80	93	80	86
9	93	75	82	108	74	88	80	71	75	94	80	85
10	98	77	85	112	76	90	86	76	81	99	82	87
11	103	82	90	120	82	97	96	77	85	94	82	86
12	106	85	94	121	84	99	89	76	82	102	80	87
13	104	88	94	117	84	97	96	75	83	96	81	86
14	101	85	92	115	85	98	91	76	81	96	81	86
15	96	81	86	120	86	97	94	72	81	100	81	88
16	82	72	77	126	85	103	88	71	76	105	85	92
17	86	74	79	122	82	98	83	70	76	103	85	91
18	89	73	79	112	78	92	97	76	81	105	85	92
19	95	73	82	109	72	87	90	77	81	99	85	91
20	101	77	86	114	68	87	86	76	79	103	84	91
21	100	79	86	115	78	91	96	76	81	99	84	90
22	97	80	86	112	74	89	95	77	82	108	85	94
23	92	77	83	110	74	89	98	78	85	108	87	96
24	94	75	82	111	80	92	99	82	87	101	89	93
25	93	70	78	119	85	97	91	79	84	101	78	91
26	86	67	75	93	71	87	91	78	82	97	77	83
27	80	66	71	75	50	65	89	78	82	102	83	88
28	84	63	72	65	48	56				113	83	93
29	83	64	72	66	52	60						
30	82	68	72	72	53	60				106	86	93
31	76	68	71							94	81	87
MONTH	I 112	63	84	126	48	85	110	53	81	113	77	90

dissolved oxygen from left intake, in % of saturation, water year october 2001 to september 2002

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

DISSOLVED OXYGEN FROM LEFT INTAKE, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	86	76	79	134	101	119	92	74	82	92	83	87
2	101	76	84	142	114	131	93	74	80	87	75	81
3	97	82	86	137	105	121	94	73	80	92	82	87
4 5	105	90	97	86	80	90 84	86	73	78	78	65	68
6	109	90	97	92	83	87	95	72	84	70	65	67
7	109	92	96	109			109	82	94	72	65	68
9	121	93	101	110	92	100	120	91	101	61	50	55
10	118	97	106	113	86	98	121	83	100	67	49	56
11	120	96	104	101	81	89	111	75	91	68	54	59
12	115	85	100	104	81	92	96	73	81	59	50	55
14	124	93	104	114	91	101	94	73	83	95	83	91
15	123	97	108	115	95	103	88	76	80	99	92	95
16	130	103	114	112	82	99	83	69	76	96	88	94
17	136	107	119	110	79	92	91	66	77	90	61	72
18	141	103	119	91	76	82	95	61	79	95	60	79
19 20	142 139	105 110	122 126	97 97	84 87	92 92	91 69	55 12	71 45	105 101	94 94	99 97
21	132	106	118	91	85	88	39	18	30	102	81	90
22	130	86	107	87	82	84	42	31	36	82	70	74
23	119	85	98	88	80	85	58	42	51	90	68	73
24 25	132	90 100	109 115	90 89	84 84	87 87	71 64	54 60	62 62	75 77	71 70	73 73
20	140	100	100	05		07	F0	60	64			75
26	143	106	123	85	82	83	69 76	60 65	64 69	72	66 62	68 66
28				89	81	85	80	68	72	70	63	65
29				91	81	86	88	79	84	71	58	64
30				92	84	87	91	84	87	72	59	64
31				89	77	83				71	59	64
MONTH	143	76	105	142	76	93	124	12	75	105	49	74
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY 1 2	MAX 66 63	MIN JUNE 59 51	MEAN 62 57	MAX 90 93	MIN JULY 62 62	MEAN 76 75	MAX 214 203	MIN AUGUST 126 104	MEAN 165 157	MAX 68 72	MIN SEPTEMBI 60 61	MEAN ER 64
DAY 1 2 3	MAX 66 63 71	MIN JUNE 59 51 53	MEAN 62 57 62	MAX 90 93 95	MIN JULY 62 62 60	MEAN 76 75 76	MAX 214 203 104	MIN AUGUST 126 104 61	MEAN 165 157 73	MAX 68 72 77	MIN SEPTEMBI 60 61 65	MEAN ER 64 66 70
DAY 1 2 3 4	MAX 66 63 71 73	MIN JUNE 59 51 53 53 57	MEAN 62 57 62 63	MAX 90 93 95 107	MIN JULY 62 62 60 59	MEAN 76 75 76 80	MAX 214 203 104 109	MIN AUGUST 126 104 61 59	MEAN 165 157 73 81	MAX 68 72 77 83	MIN SEPTEMB 60 61 65 63	MEAN ER 64 66 70 71
DAY 1 2 3 4 5	MAX 66 63 71 73 110	MIN JUNE 59 51 53 57 60	MEAN 62 57 62 63 89	MAX 90 93 95 107 103	MIN JULY 62 62 60 59 60	MEAN 76 75 76 80 81	MAX 214 203 104 109 129	MIN AUGUST 126 104 61 59 72	MEAN 165 157 73 81 97	MAX 68 72 77 83 91	MIN SEPTEMBI 60 61 65 63 60	MEAN ER 64 66 70 71 72
DAY 1 2 3 4 5 6	MAX 66 63 71 73 110 82	MIN JUNE 59 51 53 57 60 72	MEAN 62 57 62 63 89 77	MAX 90 93 95 107 103 111	MIN JULY 62 62 60 59 60 69	MEAN 76 75 76 80 81 87	MAX 214 203 104 109 129 135	MIN AUGUST 126 104 61 59 72 72 78	MEAN 165 157 73 81 97 104	MAX 68 72 77 83 91 90	MIN SEPTEMBI 60 61 65 63 60 58	MEAN ER 64 66 70 71 72 70
DAY 1 2 3 4 5 6 7	MAX 66 63 71 73 110 82 96	MIN JUNE 59 51 53 57 60 72 75	MEAN 62 57 62 63 89 77 86	90 93 95 107 103 111 116	MIN JULY 62 60 59 60 69 68	MEAN 76 75 76 80 81 87 89	MAX 214 203 104 109 129 135 145	MIN AUGUST 126 104 61 59 72 72 78 77	MEAN 165 157 73 81 97 104 106	68 72 77 83 91 90 93	MIN SEPTEMBI 60 61 65 63 60 58 57	MEAN ER 64 66 70 71 72 70 70 71
DAY 1 2 3 4 5 6 7 8	MAX 66 63 71 73 110 82 96 104	MIN JUNE 59 51 53 57 60 72 75 87	MEAN 62 57 62 63 89 77 86 95	90 93 95 107 103 111 116 124	MIN JULY 62 62 60 59 60 69 68 69 68	MEAN 76 75 76 80 81 87 89 93	MAX 214 203 104 109 129 135 145 144 144	MIN AUGUST 126 104 61 59 72 78 77 90	MEAN 165 157 73 81 97 104 106 113	68 72 77 83 91 90 93 98	MIN SEPTEMBI 60 61 65 63 60 58 57 59	MEAN ER 64 66 70 71 72 70 71 73
DAY 1 2 3 4 5 6 7 8 9 10	MAX 66 63 71 73 110 82 96 104 98 95	MIN JUNE 59 51 53 57 60 72 75 87 87 87 84	MEAN 62 57 62 63 89 77 86 95 93 88	90 93 95 107 103 111 116 124 116 99	MIN JULY 62 62 60 59 60 69 68 69 75 62	MEAN 76 75 80 81 87 89 93 93 78	MAX 214 203 104 109 129 135 145 144 168 165	MIN AUGUST 126 104 61 59 72 78 77 90 102 108	MEAN 165 157 73 81 97 104 106 113 128 132	MAX 68 72 77 83 91 90 93 98 	MIN SEPTEMBI 60 61 65 63 60 58 57 59 	MEAN ER 64 66 70 71 72 70 71 71
DAY 1 2 3 4 5 6 7 8 9 10	MAX 66 63 71 73 110 82 96 104 98 95 93	MIN JUNE 59 51 53 57 60 72 75 87 87 84 80	MEAN 62 63 89 77 86 95 93 88 88	90 93 95 107 103 111 116 124 116 99	MIN JULY 62 62 60 59 60 69 68 69 75 62 68	MEAN 76 75 76 80 81 87 89 93 93 78 82	MAX 214 203 104 109 129 135 145 144 168 165	MIN AUGUST 126 104 61 59 72 78 77 90 102 108	MEAN 165 157 73 81 97 104 106 113 128 132	MAX 68 72 77 83 91 90 93 98 98 	MIN SEPTEMB 60 61 65 63 60 58 57 59 	MEAN SR 64 66 70 71 72 70 71 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 66 63 71 73 110 82 96 104 96 104 95 95 93 89	MIN JUNE 59 51 57 60 72 75 87 87 87 84 84 80 70	MEAN 62 57 62 63 89 77 86 95 93 88 85 81	90 93 95 107 103 111 116 124 116 99 103 93	MIN JULY 62 62 60 59 60 69 68 69 68 69 75 62 62 68 62	MEAN 76 75 76 80 81 87 89 93 93 78 82 76	MAX 214 203 104 109 129 135 145 144 168 165 171 187	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109	MEAN 165 157 73 81 97 104 106 113 128 132 132 135 144	MAX 68 72 77 83 91 90 93 98 	MIN SEPTEMBJ 60 61 65 63 60 58 57 59 	MEAN SR 64 66 70 71 72 70 71 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73	MIN JUNE 59 51 57 60 72 75 87 87 87 84 80 80 69	MEAN 62 57 62 63 89 77 86 95 93 88 85 81 71	90 93 95 107 103 111 116 124 116 99 103 93 85	MIN JULY 62 62 60 59 60 69 68 69 68 69 75 62 68 62 61	MEAN 76 75 80 81 87 89 93 78 82 78 82 76 71	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150	MAX 68 72 77 83 91 90 93 98 	MIN SEPTEMBJ 60 61 65 63 60 58 57 59 	MEAN SR 64 66 70 71 72 70 71 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 14 14 14 14 14 14 14 14 14	MAX 66 63 71 73 110 82 96 104 98 95 93 89 93 89 73 73 73 73	MIN JUNE 59 51 53 57 60 72 75 87 87 84 80 70 69 66	MEAN 62 57 62 63 89 77 86 93 88 85 81 71 69	90 93 95 107 103 111 116 124 116 99 103 85 85 84	MIN JULY 62 60 59 60 69 68 69 75 62 68 69 75 62 68 69 75 62 61 59	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 71 68	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152	MAX 68 72 77 83 91 90 93 98 113 37	MIN SEPTEMBI 60 61 65 63 60 58 57 59 67	MEAN SR 64 66 70 71 73 86 86
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 66 63 71 73 110 82 96 104 96 104 95 95 93 89 73 73 86	MIN JUNE 59 51 53 57 60 72 75 87 75 87 84 84 80 70 69 66 73	MEAN 62 57 62 63 89 77 86 95 93 88 85 81 71 69 82	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96	MIN JULY 62 62 69 60 69 68 69 75 62 62 62 61 59 59	MEAN 76 75 76 80 81 87 89 93 78 82 76 71 68 76 71	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 108 109 108 116 120 120	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149	MAX 68 72 77 83 91 90 93 98 113 95	MIN SEPTEMBJ 60 61 65 63 60 58 57 59 67 74	MEAN SR 64 66 70 71 72 70 71 73 86 82
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 66 63 71 73 110 82 96 104 98 95 93 89 93 89 73 73 86 92	MIN JUNE 59 51 53 57 60 72 75 87 87 84 80 70 66 73 84	MEAN 62 57 62 63 89 77 86 93 88 85 81 71 69 82 88	90 93 95 107 103 111 116 124 116 99 103 85 84 96 111	MIN JULY 62 60 59 60 69 68 69 75 62 68 62 61 59 59 59 63	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 71 68 76 71 68 76 84	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 190	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 115	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139	MAX 68 72 77 83 91 90 93 98 113 95 79	MIN SEPTEMBI 60 61 65 63 60 58 57 59 67 74 56	MEAN ER 64 66 70 71 72 70 71 73 86 82 68 82
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8	MAX 66 63 71 73 110 82 96 104 98 95 93 89 93 89 73 86 92 98 80 73 86	MIN JUNE 59 51 53 57 60 72 75 87 87 84 80 70 69 66 73 84 84 86 73	MEAN 62 57 63 89 77 86 95 93 88 85 81 69 82 82 88 91	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71	MEAN 76 75 76 80 81 87 89 93 93 93 93 78 82 76 76 84 84 88 84	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 190 173 179	MIN AUGUST 126 104 59 72 78 77 90 102 108 109 108 110 120 120 120	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69	MIN SEPTEMBJ 60 61 65 63 60 58 57 59 9 67 74 56 56 52	MEAN ER 64 66 70 71 72 70 71 73 86 82 68 59
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 89 73 86 92 98 104 102	MIN JUNE 59 51 57 60 72 75 87 87 84 80 70 69 66 73 84 84 84 86 83 77	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 59 63 71 63	MEAN 76 75 76 80 81 87 89 93 93 93 78 82 76 71 68 76 84 88 84 81	MAX 214 203 104 109 129 135 145 145 144 168 165 171 187 195 190 190 190 173 179 174	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 110 120 120 115 109 99	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 132	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 52 55	MEAN GR 64 66 70 71 72 70 71 73 82 68 59 58 63 58 63
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 66 63 71 73 110 82 96 104 98 95 93 89 93 89 73 86 92 98 104 102 107	MIN JUNE 59 51 53 57 60 72 75 87 87 87 84 80 70 69 66 73 84 84 86 87 87 87	MEAN 62 57 63 89 77 86 93 88 85 81 71 69 82 82 88 91 95 95 96	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 63 71 63 50	MEAN 76 75 76 80 81 87 89 93 93 93 78 82 76 71 68 76 84 88 84 81 60	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 190 173 179 174 171 162	MIN AUGUST 126 104 59 72 78 77 90 102 108 109 108 110 120 120 120 115 109 99 99 99	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 132 126	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83	MIN SEPTEMBI 60 61 63 63 60 58 57 59 99 67 74 56 56 55 55	MEAN ER 64 66 70 71 72 70 71 73 86 82 68 59 58 63 66
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 66 63 71 73 110 82 96 104 98 95 93 89 93 89 93 89 93 86 92 98 102 107 114	MIN JUNE 59 51 53 57 60 72 75 87 87 84 80 70 69 66 73 84 86 87 87 86 86	MEAN 62 57 63 89 77 86 93 88 85 81 71 69 82 88 91 95 95 96 99	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 63 50 63 50 68	MEAN 76 75 76 80 81 87 93 93 93 78 82 76 71 68 76 84 88 84 88 84 81 60 91	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 109 108 110 120 120 120 115 109 99 99 96 94	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 132 132 132 132 132 132 132	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83	MIN SEPTEMBI 60 61 65 63 60 58 57 59 67 74 56 56 55 55 55 60	MEAN CR 64 66 70 71 72 70 71 73 86 82 68 59 58 63 66 68
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 89 73 86 92 98 104 102 107 114 97	MIN JUNE 59 51 57 60 72 75 87 87 87 84 80 70 69 66 73 84 84 86 87 83 84 84 86 86 86 65	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95 95 96 99 77	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 63 50 63 50 68 63 50	MEAN 76 75 76 80 81 87 89 93 93 93 93 78 82 76 76 84 88 84 88 84 84 81 60 91 89	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159 135	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 115 109 99 99 99 96 94 94	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 122 126 123 112	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 83	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 55 55 55 60 60 60	MEAN ER 64 66 70 71 72 70 71 73 86 82 68 59 58 63 66 68 70 68 70 71 73 86 82 68 59 58 66 66 66 66 66 67 70 71 72 70 71 73 73 73 73 73 73 73 73 73 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 89 73 86 92 98 104 102 107 114 97 88 80 2	MIN JUNE 59 51 57 60 72 75 87 87 84 80 70 69 66 69 66 73 84 84 86 87 78 84 86 85 65 65	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 95 95 95 95 95 95 95 97 74	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 128	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 69 63 50 68 63 50 68 67 52	MEAN 76 75 76 80 81 87 93 93 93 78 82 76 71 68 76 84 88 84 81 60 91 89 85 9	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159 135 144	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 115 109 99 99 99 96 94 94 87 22	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 126 123 112 98 97	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 83 83	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 52 55 55 60 60 60 60 60 60	MEAN ER 64 66 71 72 70 71 73 82 68 59 58 63 66 68 70 70 71 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 73 73 74 75 70 71 73 75 75 75 75 75 75 75 75 75 75
DAY 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	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 89 93 89 73 86 92 98 104 102 107 114 97 88 80 9110	MIN JUNE 59 51 57 60 72 75 87 87 87 84 80 70 69 66 73 84 86 87 83 84 86 86 85 65 63 63 63	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95 96 95 96 99 77 74 81 82	MAX 90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 118 128 93 84	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 63 50 63 50 63 50 63 50 63 50 63 50 63 50 63 50 59 59 59 63 71	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 78 82 76 71 68 76 84 88 84 84 84 81 60 91 89 85 69	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159 135 114 87 195 190 190 173 179 174 171 162 159 135 145 145 145 146 168 169 190 190 190 190 190 190 190 19	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 120 115 109 99 99 99 96 94 94 87 62 62	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 122 126 123 112 98 76 72	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 83 87 92 112 88	MIN SEPTEMBJ 60 61 63 63 60 58 57 59 67 74 56 56 55 55 55 60 60 60 60 60 858	MEAN CR 64 66 700 71 73 86 82 68 59 58 63 366 68 70 70 70 71 73 86 82 68 59 58 66 70 70 71 73 86 82 68 59 58 66 70 70 71 73
DAY 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	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 86 92 98 104 102 107 114 97 88 109 110 102 102	MIN JUNE 59 51 57 60 72 75 87 87 87 87 84 80 70 69 66 73 84 86 87 87 84 86 87 87 87 86 83 63	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95 96 95 96 99 77 74 81 82 78	90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 128 93 84 121	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 63 50 63 50 63 50 63 71 22 59 53 71	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 78 82 76 71 68 76 84 88 84 81 60 91 89 85 69 69 93	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159 135 114 90 87 91	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 120 115 109 99 99 99 99 99 99 99 99 99 99 99 99 9	MEAN 165 157 73 81 97 104 106 113 128 132 144 150 152 149 139 140 132 132 126 123 112 98 76 72 78	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 83 83 83 83 83 83 83 8	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 55 55 55 60 60 60 60 858 858	MEAN R 64 66 700 71 73 86 82 68 59 58 63 366 68 59 58 63 66 68 70 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 71 72 70 71 73 70 71 73 70 71 73 70 71 73 70 71 73 70 71 73 70 71 73 70 71 73 70 71 73 70 70 71 73 70 70 71 73 70 70 70 71 70 70 70 70 70 70 70 70 70 70
DAY 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	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 86 92 98 104 102 107 114 97 88 109 110 102 113	MIN JUNE 59 51 57 60 72 75 87 87 84 80 70 69 66 73 87 84 88 80 70 69 66 65 65 65 63 83 57	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95 95 96 99 77 74 81 82 78 82	MAX 90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 128 93 84 121	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 69 63 50 63 50 63 50 63 50 63 71 69 59 59 59 63 71 71	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 71 68 76 84 88 84 84 80 91 89 85 69 93 88	MAX 214 203 104 109 129 135 145 144 168 165 171 187 190 190 190 173 179 174 171 162 159 135 114 90 87 91 114	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 120 115 109 99 99 99 96 94 87 62 62 62 67 81	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 126 123 112 98 76 72 78 96	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 87 92 112 88 81 79	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 52 55 55 60 60 60 60 88 88 88 57 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MEAN CR 64 66 71 72 70 71 73 82 68 59 58 63 66 68 70 70 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 73 70 71 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 70 70 73 70 70 70 70 70 70 70 70 70 70
DAY 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	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 86 92 98 104 102 107 114 97 88 109 110 102 113 78	MIN JUNE 59 51 57 60 72 75 87 84 80 70 69 66 63 86 86 86 65 63 63 63 57 51	MEAN 62 57 62 63 89 77 86 95 93 88 81 71 69 82 88 91 95 95 96 99 77 74 81 82 78 82 70	MAX 90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 118 128 93 84 121 107 107	MIN JULY 62 60 59 60 69 68 69 62 61 59 59 63 71 69 63 50 63 50 68 67 52 59 59 59 63 71 69 63 50 71 89 63 50 71 89 63 75 80 75 80 75 80 75 80 80 80 80 80 80 80 80 80 80 80 80 80	MEAN 76 75 76 80 81 87 93 93 78 82 76 71 68 76 84 88 84 81 60 91 89 85 69 93 85 93	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 170 170 174 162 159 135 114 90 87 91 114 120	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 115 109 99 99 96 94 94 87 62 62 62 67 81 88	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 126 123 112 98 76 72 78 96 101	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 83 83 87 92 112 88 81 79 77	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 55 55 60 60 60 60 60 88 88 88 60 67 70	MEAN ER 64 66 71 72 70 71 73 82 68 59 58 63 66 68 70 70 70 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 73 70 71 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 73 70 70 70 71 72 70 70 70 70 70 70 70 70 70 70
DAY 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 20 20 20 20 20 20 20 20 20 20	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 73 86 92 98 104 102 107 114 97 88 109 110 102 110 102 110 78 78 73 73 73 73 73 73 73 73 73 73	MIN JUNE 59 51 53 57 60 72 75 87 87 87 87 87 84 80 70 69 66 73 84 86 65 65 63 63 63 63 63 57	MEAN 62 57 63 89 77 86 93 88 85 81 71 69 82 88 91 95 95 96 95 95 96 97 77 81 82 78 82 70 63	90 93 95 107 103 111 116 124 116 124 116 124 116 124 116 124 116 124 116 103 85 84 93 85 84 93 81 118 118 128 93 84 121 107 110 155	MIN JULY 62 62 60 59 60 69 75 62 68 69 75 62 61 59 59 63 71 69 63 50 63 69 63 50 68 67 75 59 59 59 75	MEAN 76 75 76 80 81 87 93 93 78 82 76 71 68 76 71 68 76 71 68 84 84 81 60 91 89 85 69 93 85 69 93 81	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 170 170 179 174 171 162 159 135 114 90 87 91 114 120 93 93 93	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 110 120 120 120 120 120 120 120 120 120	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 152 149 139 140 152 123 126 123 112 98 76 72 78 96 101 84 76 101 84 76 73 73 73 73 73 73 73 73 73 73	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 87 92 112 88 81 79 77 72 27	MIN SEPTEMBI 60 61 65 63 60 58 57 9 67 74 56 56 55 55 55 55 55 60 60 60 60 60 60 60 60 60 60 60 60 60	MEAN CR 64 66 70 71 72 70 71 73 86 82 68 59 58 63 66 68 70 70 72 74 68 70 72 70 68 70 72 70 70 71 72 70 70 71 72 70 71 73 72 70 70 71 73 72 70 70 71 73 70 71 73 70 71 73 70 71 73 70 70 71 73 70 70 71 73 70 70 70 70 70 70 70 70 70 70
DAY 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 31	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 89 73 88 92 98 104 102 107 114 97 88 109 110 102 113 78 74 78 74 78 74 78 70 70 70 70 70 70 70 70 70 70	MIN JUNE 59 51 53 57 60 72 75 87 84 80 70 69 66 73 84 86 87 84 86 86 65 65 63 63 57 51 57 57 57 57 57 57 57 57 57 57	MEAN 62 57 62 63 89 77 86 95 93 88 81 71 69 82 88 91 95 96 96 99 77 74 81 82 78 82 70 63 69 9	90 93 95 107 103 111 116 124 116 124 116 124 116 124 116 124 116 103 101 115 113 101 68 118 128 93 84 121 107 110 107 110 107	MIN JULY 62 60 59 60 69 75 62 68 62 61 59 59 59 63 71 69 63 50 63 50 68 67 52 59 54 71 71 78 89 101	MEAN 76 75 76 80 81 87 89 93 78 82 76 71 68 82 76 71 68 84 88 84 81 60 91 89 85 69 93 85 69 93 85 69 93 81 11 131 147	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 173 179 174 171 162 159 135 114 162 159 135 114 114 203 87 74	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 120 115 109 99 99 99 99 99 99 99 99 99 99 92 4 87 62 62 67 81 88 87 67 64	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 152 149 139 140 152 123 112 98 76 72 78 96 101 84 79 69	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 87 79 64 69 78 88 81 79 77 72 77 72 77 77 72 77 77 77	MIN SEPTEMBI 60 61 65 63 60 58 57 9 67 74 56 56 55 55 55 55 55 55 60 60 60 60 60 60 60 60 60 60 60 60 60	MEAN R 64 66 70 71 72 70 71 73 86 82 68 59 58 66 68 70 70 72 74 66 82 66 70 70 71 73 86 82 66 70 70 71 73 86 82 66 70 70 71 73 86 82 66 70 70 71 73 86 82 66 70 71 73 86 82 70 70 70 70 70 71 73 86 82 70 70 70 70 70 70 70 70 70 70
DAY 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 31 24 25 26 27 28 29 30 31 20 20 21 22 23 24 25 20 20 21 22 23 24 20 20 20 20 20 20 20 20 20 20	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 86 92 98 104 102 107 114 97 88 109 110 102 113 78 74 78 74 78 74 78 74 78 74 78 74 78 74 76 77 73 73 73 73 73 73 73 73 73	MIN JUNE 59 51 57 60 72 75 87 87 84 80 70 69 66 67 3 87 87 87 87 87 87 87 87 87 87 87 87 87	MEAN 62 57 62 63 89 77 86 95 93 88 81 71 69 82 88 91 95 95 96 99 77 74 81 82 78 82 70 63 69 80	<pre>90 93 95 107 103 111 116 124 116 99 103 93 85 84 96 111 115 113 101 68 118 118 128 93 84 121 107 110 155 176 193</pre>	MIN JULY 62 62 60 59 60 69 68 69 69 68 62 61 59 59 63 71 69 63 50 63 50 63 50 63 71 69 63 50 63 71 71 75 59 59 63 71 13 50	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 71 68 76 84 88 84 81 60 91 89 85 69 93 85 69 93 81 116 131 147 86	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 170 170 174 171 162 159 135 114 90 87 91 114 120 93 87 74 214	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 115 109 99 99 96 94 94 87 62 62 62 62 67 81 88 76 64	MEAN 165 157 73 81 97 104 106 113 128 132 135 144 150 152 149 139 140 132 126 123 112 98 76 72 78 96 101 84 79 69	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 87 92 112 88 81 79 77 77 72 77 72 77 113	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 55 55 60 60 60 60 60 60 58 858 55 55 55 55 55 55 55 55 60 60 60 60 61 67 70 66 57 57 55 55 55 55 55 55 55 55 55 55 55	MEAN ER 64 66 71 72 70 71 73 82 68 59 58 63 66 68 70 70 70 68 70 70 71 72 70 71 72 70 71 72 70 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 73 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 71 73 70 71 72 70 71 72 70 71 72 70 71 72 70 71 72 70 70 71 72 70 70 71 72 70 70 71 72 70 70 71 72 70 70 70 71 72 70 70 71 72 70 70 70 70 70 70 70 70 70 70
DAY 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 MONTH	MAX 66 63 71 73 110 82 96 104 98 95 93 89 73 86 92 98 104 102 107 114 97 88 109 102 107 114 97 88 109 102 110 102 113 78 78 71 102 110 102 113 78 78 70 73 73 73 73 73 73 73 73 73 73	MIN JUNE 59 51 57 60 72 75 87 87 84 80 70 69 66 73 84 86 87 83 84 86 85 65 63 63 63 63 57 51 51 51	MEAN 62 57 63 89 77 86 95 93 88 85 81 71 69 82 88 91 95 96 97 74 81 82 70 63 69 80	MAX 90 93 95 107 103 111 116 124 114 116 99 103 93 85 103 93 84 96 111 115 113 101 68 118 128 93 84 121 107 110 155 176 193 193	MIN JULY 62 62 60 59 60 69 68 69 75 62 68 62 61 59 59 63 71 69 63 50 63 50 63 71 69 59 54 71 71 78 89 101 113 50	MEAN 76 75 76 80 81 87 89 93 93 78 82 76 71 68 76 84 88 84 80 91 85 69 93 85 69 93 85 69 93 81 106 131 147 86	MAX 214 203 104 109 129 135 145 144 168 165 171 187 195 190 190 170 170 170 171 162 159 135 114 90 87 91 114 120 93 87 74 214	MIN AUGUST 126 104 61 59 72 78 77 90 102 108 109 108 116 120 120 120 115 109 99 99 99 99 96 94 87 62 62 62 67 81 88 670 64 59	MEAN 165 157 73 81 97 104 106 113 128 132 144 150 152 149 139 140 132 126 123 112 98 76 72 78 96 101 84 79 99 114	MAX 68 72 77 83 91 90 93 98 113 95 79 64 69 78 83 83 87 92 112 88 81 79 77 72 113	MIN SEPTEMBI 60 61 63 63 60 58 57 59 67 74 56 56 55 55 55 60 60 60 60 60 858 60 67 70 66 55 55	MEAN R 64 66 70 71 72 70 71 73 86 82 68 59 58 63 66 68 70 70 70 70 68 70 70 69 69 69 69 69 70 70 70 71 72 70 70 71 72 70 70 71 72 70 70 71 72 70 70 71 72 70 70 70 71 72 70 70 71 72 70 70 70 70 71 72 70 70 70 70 70 70 70 70 70 70

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

DISSOLVED OXYGEN FROM MIDDLE INTAKE, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
-					70	76	0.2	57	CP			
2				89	70	76	83	57	67			
3	102	85	93	87	72	77	87	65	75	91	85	89
4	105	85	95	79	64	71	96	70	82	93	85	89
5	104	84	93	73	61	67	101	79	88	95	86	90
6	98	80	86	79	59	68	105	86	93	91	86	89
7	91	75	82	87	71	77	106	82	94	93	86	88
8	97	75	83	94	72	82	87	71	80	93	81	87
9	97	78	86	101	77	87	80	72	76	92	81	85
10	102	84	91	105	77	89	85	77	81	97	82	87
11	109	87	95	111	84	95	95	78	84	92	83	86
13	110	93	98	114	85	96	98	77	84	90	82	86
14	101	82	93	111	86	97	91	78	82	93	81	86
15	99	75	85	112	88	97	90	73	80	97	82	88
16	79	62	71	116	89	101	84	71	75	100	86	91
17	70	55	63	115	82	95	83	71	77	101	86	91
18	79	61	70	112	78	91	94	77	82	102	86	93
19	85	69	75	109	73	86	87	78	82	97	86	91
20	93	72	81	106	74	87	84	77	79	101	85	91
21	97	79	86	106	79	88	90	78	81	99	85	90
22	97	80	86	104	75	88	89	78	81	105	86	94
23	85	73	80	108	76	89	93	79	85	107	88	96
24	85	65	76	108	84	94	96	83	87	102	90	95
25	78	62	68	120	88	99	88	80	84	96	79	91
26	75	58	65	94	72	88	88	80	83	88	79	82
27	73	57	62	77	52	65 E <i>C</i>	87	79	82	93	84	87
20	75	50	69	65	55	50				103		91
30	84	59	73	74	55	62				101	88	94
31	79	69	73							92	81	88
MONTH	110	55	81	120	51	83	106	57	81	107	79	89
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
		FEBRUARY			MARCH			APRIL			MAY	
1	83	FEBRUARY	79	125	MARCH	117	87	APRIL 75	81	64	MAY 61	62
1 2	83 100	FEBRUARY 77 76	79 84	125 132	MARCH 103 114	117 125	87 89	APRIL 75 74	81 79	64 64	MAY 61 59	62 62
1 2 3	83 100 92	FEBRUARY 77 76 83 84	79 84 86	125 132 134	MARCH 103 114 107 82	117 125 121	87 89 92	APRIL 75 74 74 74	81 79 80	64 64 66	MAY 61 59 59	62 62 63
1 2 3 4 5	83 100 92 99 106	FEBRUARY 77 76 83 84 91	79 84 86 91 97	125 132 134 114 87	MARCH 103 114 107 83 81	117 125 121 91 84	87 89 92 89 81	APRIL 75 74 74 74 74 73	81 79 80 81 77	64 64 66 67 69	MAY 61 59 59 63 63	62 62 63 66
1 2 3 4 5	83 100 92 99 106	FEBRUARY 77 76 83 84 91	79 84 86 91 97	125 132 134 114 87	MARCH 103 114 107 83 81	117 125 121 91 84	87 89 92 89 81	APRIL 75 74 74 74 73	81 79 80 81 77	64 64 66 67 69	MAY 61 59 63 63	62 62 63 66 66
1 2 3 4 5	83 100 92 99 106	FEBRUARY 77 76 83 84 91 92	79 84 86 91 97 97	125 132 134 114 87 90	MARCH 103 114 107 83 81 84	117 125 121 91 84 87	87 89 92 89 81 94	APRIL 75 74 74 74 73 74	81 79 80 81 77 84	64 66 67 69 71	MAY 61 59 63 63 63	62 62 63 66 66 68
1 2 3 4 5 6 7	83 100 92 99 106 107 108	FEBRUARY 77 76 83 84 91 92 92	79 84 86 91 97 97 96	125 132 134 114 87 90	MARCH 103 114 107 83 81 84 	117 125 121 91 84 87 	87 89 92 89 81 94 107	APRIL 75 74 74 74 73 74 84	81 79 80 81 77 84 94	64 66 67 69 71 72	MAY 61 59 63 63 65 65	62 63 66 66 68 68
1 2 3 4 5 6 7 8 9	83 100 92 99 106 107 108 110	FEBRUARY 77 76 83 84 91 92 92 95	79 84 86 91 97 97 96 101	125 132 134 114 87 90 100	MARCH 103 114 107 83 81 84 93	117 125 121 91 84 87 97	87 89 92 89 81 94 107 116	APRIL 75 74 74 74 73 74 84 91	81 79 80 81 77 84 94 100	64 66 67 69 71 72 75	MAY 59 53 63 63 65 65 65 63	62 63 66 66 68 68 67
1 2 3 4 5 6 7 8 9 10	83 100 92 99 106 107 108 110 116 116	FEBRUARY 77 76 83 84 91 92 92 92 95 95 98	79 84 86 91 97 97 96 101 104 106	125 132 134 114 87 90 100 106 108	MARCH 103 114 107 83 81 84 93 93 87	117 125 121 91 84 87 97 99 97	87 89 92 89 81 94 107 116 122 117	APRIL 75 74 74 73 74 84 91 92 84	81 79 80 81 77 84 94 100 103 99	64 66 67 69 71 72 75 63 66	MAY 61 59 63 63 65 65 65 63 53 50	62 63 66 68 68 67 57
1 2 3 4 5 6 7 8 9 10	83 100 92 99 106 107 108 110 116 116	FEBRUARY 77 76 83 84 91 92 92 95 95 98	79 84 86 91 97 97 96 101 104 106	125 132 134 114 87 90 100 106 108	MARCH 103 114 107 83 81 84 93 93 87	117 125 121 91 84 87 97 99 97	87 89 92 89 81 94 107 116 122 117	APRIL 75 74 74 73 74 84 91 92 84	81 79 80 81 77 84 94 100 103 99	64 66 67 69 71 72 75 63 66	MAY 61 59 63 63 65 65 65 53 50	62 63 66 68 68 67 57 57
1 2 3 4 5 7 8 9 10 11	83 100 92 99 106 107 108 110 116 116 116	FEBRUARY 77 83 84 91 92 92 95 95 95 98 97	79 84 86 91 97 97 96 101 104 106	125 132 134 114 87 90 100 106 108 96	MARCH 103 114 107 83 81 84 93 93 87 81	1117 125 121 91 84 87 97 99 97 88	87 89 92 89 81 94 107 116 122 117 106	APRIL 75 74 74 73 74 84 91 92 84 78	81 79 80 81 77 84 94 100 103 99 90	64 64 66 67 69 71 72 75 63 66 67	MAY 61 59 63 63 65 65 65 53 50 55	62 62 63 66 68 68 67 57 57 57
1 2 3 4 5 6 7 8 9 10 11 12	83 100 99 106 107 108 110 116 116 116	FEBRUARY 77 76 83 84 91 92 92 92 95 95 95 95 98 97 86	79 84 86 91 97 96 101 104 106 104 99	125 132 134 114 87 90 100 106 108 96 101	MARCH 103 114 107 83 81 84 93 93 87 81 82 57	1117 125 121 91 84 87 97 99 97 88 92	87 89 92 89 81 94 107 116 122 117 106 91	APRIL 75 74 74 74 73 74 84 91 92 84 91 92 84 78 74	81 79 80 81 77 84 94 100 103 99 90 80	64 66 67 69 71 72 75 63 66 67 60	MAY 61 59 63 63 65 65 65 53 50 55 50	62 63 66 68 68 67 57 57 60 55
1 2 3 4 5 6 7 8 9 10 11 12 13	83 100 92 99 106 107 108 110 116 116 116 113 110 120	FEBRUARY 77 76 83 84 91 92 92 95 95 95 98 95 98 97 86 86 86	79 84 86 91 97 97 96 101 104 106 104 99 97 104	125 132 134 114 87 90 100 106 108 96 101 98	MARCH 103 114 107 83 81 84 93 87 81 82 85 82 85 85	1117 125 121 91 84 87 97 99 97 88 92 92 92	87 89 92 89 81 94 107 116 122 117 106 91 89	APRIL 75 74 74 74 73 74 84 91 92 84 78 74 78 74 74	81 79 80 81 77 84 94 100 103 99 90 80 79	64 66 67 69 71 72 75 63 66 66 67 60 80	MAY 61 59 63 63 65 63 50 50 55 50 55 90	62 63 66 68 67 57 57 60 55 58
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	83 100 92 99 106 107 108 110 116 116 113 110 120 121	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 95 95 95 95 95 95 95 95	79 84 86 91 97 96 101 104 106 104 99 97 104 108	125 132 134 114 87 90 100 106 108 96 101 98 111 110	MARCH 103 114 107 83 81 84 93 87 81 82 85 92 97	117 125 121 91 84 87 97 99 97 88 92 92 92 100 103	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83	APRIL 75 74 74 73 73 74 84 91 92 84 74 74 74 74 74 75 76	81 79 80 81 77 84 94 100 103 99 90 80 79 80 79 82 79	64 66 67 69 71 72 75 63 66 66 60 80 91 89	MAY 61 59 63 65 65 65 65 50 55 50 55 50 51 80 71	62 62 63 66 68 68 67 57 57 60 55 58 87 82
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	83 100 92 99 106 107 108 110 116 116 116 113 110 120 121	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 95 98 97 86 86 94 98	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108	125 132 134 114 87 90 100 106 108 96 101 98 111 110	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81	117 125 121 91 84 87 97 99 97 88 92 92 92 100 103 99	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81	APRIL 75 74 74 73 74 84 91 92 84 74 74 74 74 75 76	81 79 80 81 77 84 94 100 103 99 90 80 79 80 79 82 79 74	64 66 67 69 71 72 75 63 66 60 80 91 91 89	MAY 61 59 63 63 65 65 65 65 50 55 50 51 80 71	62 62 63 66 66 67 57 57 60 55 58 87 82 70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	83 100 92 99 106 107 108 110 116 116 113 110 120 121 129 134	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 98 97 86 86 86 94 98 105 108	79 84 86 91 97 96 101 104 106 104 99 97 104 108 114	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 83 81	APRIL 75 74 74 73 73 74 84 91 92 84 74 74 75 76 69 67	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 72 79	64 66 67 69 71 72 75 63 66 66 80 91 89 72 66	MAY 61 59 63 63 65 63 53 50 55 50 51 80 71 66 60	62 63 66 66 68 67 57 57 60 55 58 87 82 63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	83 100 92 99 106 107 108 110 116 116 116 116 110 120 121 129 134	FEBRUARY 77 83 84 91 92 92 95 95 95 95 95 95 98 97 86 86 94 98 105	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118	125 132 134 114 87 90 100 106 108 96 101 98 111 110 110 108 91	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 75	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92	APRIL 75 74 74 74 74 84 91 92 84 78 74 74 74 75 76 69 63	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63	MAY 61 59 59 63 63 65 65 63 50 55 50 51 80 71 66 60 60	62 63 66 66 68 68 67 57 57 60 55 58 87 82 70 63 62
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	83 100 92 99 106 107 108 110 116 116 113 110 120 121 129 134 134 135	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 95 95 98 97 86 86 94 98 105 108 105 106	79 84 86 91 97 97 96 101 104 106 104 108 114 118 118 118 121	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76 75 85	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86	APRIL 75 74 74 74 73 74 84 91 92 84 78 74 74 75 76 69 67 63 56	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70	64 64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69	MAY 61 59 63 63 65 63 53 50 55 50 55 50 51 80 71 66 60 60 63	62 62 63 66 66 68 67 57 57 60 55 58 87 82 70 63 62 66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	83 100 92 99 106 107 108 110 116 116 113 110 120 121 129 134 134 135 136	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 98 97 86 86 94 98 105 108 105 106 112	79 84 86 91 97 97 96 101 104 106 104 108 114 118 114 118 121 125	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 76 75 85 85 89	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71	APRIL 75 74 74 74 73 73 74 84 91 92 84 78 74 74 75 76 69 67 69 67 63 56 12	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70	MAY 61 59 63 63 65 63 53 50 55 50 55 50 51 80 71 66 60 60 60 63 66	62 63 66 68 68 67 57 57 60 55 58 87 82 70 63 66 68
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	83 100 92 99 106 107 108 110 116 116 116 113 110 120 121 129 134 135 136 132	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 95 98 97 86 94 98 105 108 105 106 112 107	79 84 86 91 97 97 96 101 104 106 104 108 114 118 118 121 125 118	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 76 75 85 89 85	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 89 81 91 93 88	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38	APRIL 75 74 74 74 74 84 91 92 84 78 74 74 74 75 76 69 67 63 56 12 18	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72	MAY 61 59 59 63 65 65 63 50 55 50 51 80 71 66 60 63 66 66 66	62 63 66 68 68 67 57 57 60 55 58 87 82 70 63 62 66 68 69
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22	83 100 92 99 106 107 108 110 116 116 113 110 120 121 129 134 135 136 132	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88	79 84 86 91 97 97 96 101 104 106 104 108 114 108 114 118 121 125 118 107	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 97 92 87	MARCH 103 114 107 83 81 93 93 87 81 82 85 89 85 82	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44	APRIL 75 74 74 74 73 74 84 91 92 84 74 74 74 74 74 75 76 69 67 63 52 12	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 79 74 76 78 70 45 30 36	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 99 70 72 72	MAY 61 59 59 63 65 65 65 50 51 80 71 66 60 60 63 66 66 66	62 62 63 66 66 68 67 57 57 60 55 58 87 82 70 63 62 66 88 70 63 62 66 89 70
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	83 100 92 99 106 107 108 110 116 116 116 113 110 121 129 134 134 135 136 132	FEBRUARY 77 76 83 84 91 92 92 95 95 98 97 86 86 86 94 98 105 108 105 106 112 107 88 86	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 118 121 125 118 107 98	125 132 134 114 87 90 100 106 108 96 101 98 111 110 110 108 91 96 97 97 92 87 88	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76 75 85 89 85 89 85 85 89 85 89 85 89 85 85 89 85 85 85 85 85 85 85 85 85 85	1117 125 121 91 84 87 97 99 97 88 92 99 97 88 92 100 103 99 89 81 91 93 88 85 85	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57	APRIL 75 74 74 74 73 74 84 91 92 84 74 74 74 75 76 69 67 63 56 12 18 82 44	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 72 76 78 70 45 30 36 51	64 66 67 69 71 72 75 63 66 66 67 60 80 91 89 72 66 63 69 70 72 72 75	MAY 61 59 59 63 65 65 63 50 50 51 80 60 60 60 60 66 66 66 66 66 69	62 63 66 68 68 67 57 57 57 60 55 58 87 82 70 63 56 66 68 97 72
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24	83 100 92 99 106 107 108 110 116 116 116 116 1110 120 121 129 134 134 135 136 132 129 129	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 118 118 121 125 118 107 98 109	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 87 88 90	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 76 85 89 85 89 85 82 85 85 89	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 88	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68	APRIL 75 74 74 74 73 73 74 84 91 92 84 74 74 74 75 76 69 67 63 56 12 18 322 18 324 457	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 72 75 75	MAY 61 59 59 63 65 65 63 50 55 50 51 80 71 66 60 60 66 66 66 66 66 71	62 63 66 66 68 67 57 57 60 55 58 87 82 70 63 62 66 68 69 702 73
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	83 100 92 99 106 107 108 110 116 116 116 116 111 120 121 129 134 134 135 136 132 129 135	FEBRUARY 77 83 84 91 92 92 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 88 86 91 100	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 121 125 118 107 98 109 116	125 132 134 114 87 90 100 106 108 96 101 98 111 110 100 108 91 96 97 92 87 87 88 90 89	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 76 85 89 85 89 85 82 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 85 85 88 85 85 88 87	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64	APRIL 75 74 74 74 74 74 84 91 92 84 78 74 74 74 75 76 69 67 63 56 12 18 32 2 18 32 44 57 61	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 75 75 75	MAY 61 59 59 63 65 65 63 50 55 50 51 80 71 66 60 60 60 66 66 66 69 71 70	62 63 66 66 68 68 67 57 57 57 60 55 58 87 82 70 62 66 68 69 70 72 73 73
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	83 100 92 99 106 107 108 110 116 116 116 116 111 120 121 129 134 134 135 136 132 129 135 125	FEBRUARY 77 83 84 91 92 92 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 88 86 91 100 108	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 121 125 118 107 98 109 116 123	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 99 91 96 97 92 87 87 88 90 89 86	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76 75 85 89 85 85 89 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 85 85 88 85 88	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64	APRIL 75 74 74 74 74 74 74 91 92 84 74 74 74 74 75 76 69 67 63 56 12 18 32 2 18 32 44 57 61 15	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63 64	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 75 75 76 71	MAY 61 59 63 63 65 63 53 50 55 50 51 80 71 66 66 66 66 66 66 67 71 70 66 61 66 66 66 66 66 66 66 66 66 66 66	62 63 66 66 68 68 67 57 57 57 60 55 58 87 82 70 63 55 88 70 63 62 66 68 69 70 72 73 73 69
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	83 100 92 99 106 107 108 110 116 116 116 113 120 121 129 134 135 136 132 129 135 135	FEBRUARY 77 76 83 84 91 92 92 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91 100 108 112	79 84 86 91 97 97 96 101 104 106 104 108 114 118 121 125 118 107 98 109 116 123 122	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 88 89 90 89 89 89	MARCH 103 114 107 83 81 93 93 87 81 82 85 89 85 89 85 89 85 89 85 89 85 89 85 89 85 89 85 89 85 80 81 85 80 81 81 81 81 81 81 81 81 81 81	1117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 88 85 88 87 84 84	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64 67 73	APRIL 75 74 74 74 74 91 92 84 91 92 84 78 74 74 75 76 69 67 63 56 12 18 322 44 45 12 18 32 57 61 61 66	81 79 80 81 77 84 94 100 103 99 90 80 79 90 80 79 82 79 74 76 70 45 30 36 51 62 63 64 70	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 72 75 75 75 76 71 69	MAY 61 59 59 63 65 65 63 55 50 55 50 51 80 71 66 60 60 63 66 66 66 69 71 70 66 62 22	62 63 66 66 68 68 67 57 57 60 55 58 87 70 63 66 66 68 69 700 723 73 69 66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28	83 100 92 99 106 107 108 110 116 116 113 110 120 121 129 134 134 135 136 132 129 115 129 135	FEBRUARY 77 76 83 84 91 92 92 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91 100 108 112 	79 84 86 91 97 97 96 101 104 106 104 108 114 108 114 118 121 125 118 107 98 109 116 123 122 	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 88 90 89 89 89 89	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76 75 85 89 85 89 85 85 89 85 85 89 85 85 89 85 85 89 85 85 89 85 85 89 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 85 88 87 84 84 84 86 67	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64 67 73 72	APRIL 75 74 74 74 74 74 84 91 92 84 74 74 74 74 75 76 69 67 63 56 69 67 63 56 12 18 32 44 57 61 61 66 66 68 82	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63 64 70 70	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 75 75 75 76 71 69 67	MAY 61 59 59 63 65 65 63 50 51 80 71 66 66 66 66 66 69 71 70 66 62 63 63 63 66 66 66 66 66 66 66 66 66 66	62 63 66 66 68 68 68 67 57 57 57 57 57 57 57 57 57 57 57 57 57
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 9 20	83 100 92 99 106 107 108 110 116 116 116 116 113 110 120 121 129 134 134 134 134 135 136 132 129 135 140 135	FEBRUARY 77 76 83 84 91 92 92 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91 100 108 112 	79 84 86 91 97 96 101 104 106 104 99 97 104 108 114 118 118 121 125 118 107 98 109 116 123 122 	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 87 88 90 89 89 89 89 89	MARCH 103 114 107 83 81 84 93 93 87 81 82 85 92 97 81 76 75 85 89 85 89 85 85 89 85 82 81 85 86 83 80 82 83 83 84 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 100 103 99 81 91 93 88 85 85 88 85 85 88 87 84 84 86 87	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64 67 73 72 70	APRIL 75 74 74 74 74 74 84 91 92 84 74 74 74 75 76 69 67 63 56 12 18 82 44 57 61 61 66 68 70 2	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63 64 70 70 74 5	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 72 75 75 76 71 69 67 71	MAY 61 59 59 63 65 63 55 50 51 80 71 66 60 60 60 66 66 66 69 71 70 66 62 63 55 50 51 80 66 65 65 65 65 65 65 65 65 65 65 65 65	62 63 66 66 68 68 68 68 67 57 57 60 55 88 70 65 58 87 82 70 66 56 68 69 70 72 73 73 69 66 55 66 66 66 66 66 66 66 66 66 66 66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 4 25 26 27 28 29 30	83 100 92 99 106 107 108 110 116 116 116 116 1110 120 121 129 134 134 135 136 132 129 135 140 136 	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91 100 108 112 	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 121 125 118 107 98 109 116 123 122 	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 87 88 90 89 89 89 89 89 89 89 89 89 89 89 89 89	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 76 75 85 89 85 82 85 82 85 85 86 83 80 82 82 82 82 83 84 85 85 85 89 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 85 85 88 87 84 84 84 86 87 87 83	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 44 57 68 64 67 73 72 76 70	APRIL 75 74 74 74 74 74 74 91 92 84 91 92 84 78 74 74 74 75 76 63 56 12 18 322 44 57 61 61 66 68 70 62 70	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63 64 70 74 65	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 72 75 75 76 71 69 67 71 20	MAY 61 59 59 63 65 63 55 50 51 80 71 66 60 66 66 66 66 66 67 71 70 66 62 63 58 60 60 62 64 65 65 65 65 65 65 65 65 65 65 65 65 65	62 63 66 66 68 68 67 57 57 60 55 88 70 62 66 66 68 69 702 73 73 69 66 55 56 66 66 68 67 70 73 73 69 66 55 56 66 66 66 66 66 66 66 66 66 66
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 32 4 25 26 27 28 29 30 31	83 100 92 99 106 107 108 110 116 116 116 116 1110 120 121 129 134 134 135 136 132 129 135 140 136 	FEBRUARY 77 76 83 84 91 92 92 95 95 95 95 98 97 86 86 94 98 105 108 105 106 112 107 88 86 91 100 108 112 	79 84 86 91 97 97 96 101 104 106 104 99 97 104 108 114 118 118 118 121 125 118 107 98 109 116 123 122 	125 132 134 114 87 90 100 106 108 96 101 98 111 110 108 91 96 97 92 87 87 88 90 89 89 89 89 89 89 89 89 91 90 88	MARCH 103 114 107 83 81 93 93 87 81 82 85 92 97 81 75 85 89 85 82 85 85 82 85 85 86 83 80 82 82 84 78 75 85 89 85 85 86 85 85 86 85 85 86 85 85 86 85 85 85 85 85 86 85 85 85 85 85 85 85 85 85 85	117 125 121 91 84 87 97 99 97 88 92 92 100 103 99 89 81 91 93 88 85 85 85 85 85 88 87 84 84 84 86 87 87 83	87 89 92 89 81 94 107 116 122 117 106 91 89 90 83 81 87 92 86 71 38 84 44 57 68 64 67 73 72 76 70 	APRIL 75 74 74 74 74 74 74 91 92 84 74 74 75 76 69 67 63 56 12 18 322 44 57 61 61 66 68 70 62 	81 79 80 81 77 84 94 100 103 99 90 80 79 82 79 74 76 78 70 45 30 36 51 62 63 64 70 74 65 	64 66 67 69 71 72 75 63 66 67 60 80 91 89 72 66 63 69 70 72 72 75 75 76 71 69 67 71 72 70	MAY 61 59 63 65 63 55 50 51 80 71 66 60 63 66 66 66 69 71 70 66 62 63 58 60 60 60 63 66 66 69 60 60 63 66 66 60 60 60 60 60 60 60 60 60 60 60	62 63 66 66 68 67 57 57 60 55 88 70 63 66 66 68 69 702 73 73 69 66 65 64

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		i	AUGUST		:	SEPTEMBE	R
1	66	60	62	74	62	67	208	104	143	67	62	64
2	61	51	56	88	62	73	176	103	136	70	62	66
3	69	55	62	98	59	77	103	62	74	74	66	70
4	72	58	63	121	65	87	102	58	77	81	66	71
5	72	62	65	118	68	88	123	67	92	87	63	72
6	78	62	72	103	71	85	118	75	95	86	59	69
7	94	74	86	121	69	88	124	73	95	89	58	70
8	89	74	83	128	73	94	121	83	101	92	62	73
9	74	69	73	119	81	94	153	90	116			
10	72	65	69	101	73	87	149	95	118			
11	73	63	68	103	73	85	163	97	123			
12	73	64	68	94	66	78	176	99	129			
13	67	60	62	85	64	74	177	101	134			
14	64	57	60	84	65	71	175	105	140	110	69	86
15	69	61	65	98	67	80	173	112	140	97	76	84
16	76	68	72	112	70	88	165	107	131	79	56	69
17	95	71	84	119	74	93	167	98	127	63	56	59
18	98	85	91	119	75	90	185	95	131	66	55	58
19	93	81	88	103	66	84	176	103	137	72	56	62
20	94	80	87	75	47	66	170	104	131	79	58	66
21	99	67	89	62	31	45	158	101	125	79	61	68
22	79	64	71	93	48	65	121	87	102	82	62	69
23	86	65	73	114	56	82	110	80	92	81	62	69
24	94	63	76	94	58	70	81	63	73	97	61	71
25	103	62	78	87	57	72	79	63	69	84	60	70
26	101	63	78	121	71	94	84	60	73	79	63	70
27	111	58	81	105	71	87	104	73	87	79	68	73
28	76	51	68	113	78	93	118	79	95	77	70	74
29	73	51	63	132	82	107	89	76	82	71	67	69
30	75	62	68	155	92	121	76	71	73	74	65	69
31				179	100	133	72	65	69			
MONTH	111	51	73	179	31	84	208	58	107	110	55	70
YEAR	208	12	84									

dissolved oxygen from middle intake, in % of saturation, water year october 2001 to september 2002

DAY	MAX	MIN	MEAN									
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
1				87	65	75	81	55	66			
2	92	76	85	83	65	72	88	63	72			
3	95	81	89	85	69	76	90	65	76	91	86	89
4	94	80	89	76	59	69	96	71	82	92	86	89
5	96	80	88	64	56	60	101	80	89	90	86	88
6	90	76	83	66	56	60	106	86	93	91	86	88
7	84	73	79	76	65	70	109	82	95	94	86	89
8	90	75	81	89	68	76	90	72	82	95	81	88
9	96	81	88	92	74	82	84	72	77	94	81	86
10	105	89	95	101	73	85	85	77	81	99	83	88
11	113	92	101	103	79	89	96	78	84	92	83	87
12	116	99	106	107	81	93	94	76	84	97	81	87
13	110	95	103	104	82	93	96	77	85	94	82	87
14	104	80	95	107	83	94	91	78	82	94	82	86
15	95	71	84	108	86	94	89	73	80	98	82	88
16	80	61	71	119	87	99	85	72	76	101	86	92
17	68	52	60	115	82	96	84	71	77	103	86	92
18	69	55	62	114	77	92	94	77	83	104	86	93
19	76	63	68	111	72	87	89	78	82	98	87	92
20	84	69	76	109	72	87	87	77	80	102	85	92
21	91	76	83	106	78	89	90	78	82	100	85	91
22	95	76	85	106	74	88	89	78	82	105	87	94
23	84	67	78	110	74	89	93	80	85	107	88	96
24	80	54	69	112	82	92	96	83	87	103	90	96
25	67	50	58	120	86	99	89	80	85	97	79	91
26	66	49	56	95	72	88	88	80	83	90	79	83
27	63	48	54	76	51	67	88	80	83	95	84	88
28	64	48	54	67	50	57				105	86	92
29	71	51	61	70	54	61						
30	82	60	71	77	53	62				103	89	94
31	84	68	75							94	82	89
MONTH	116	48	78	120	50	81	109	55	82	107	79	90

DISSOLVED OXYGEN FROM RIGHT INTAKE, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

DISSOLVED OXYGEN FROM RIGHT INTAKE, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	02	77	80	125	104	117	80	76	82	64	62	63
2	104	76	85	132	116	126	91	76	80	66	60	62
3	94	84	87	135	105	122	93	74	81	67	60	64
4	101	84	92	116	84	92	90	74	81	68	64	66
5	106	92	98	88	82	85	83	74	78	69	63	67
6	106	93	98	91	84	88	94	74	85	71	66	68
7	113	93	98				107	85	94	72	66	69
8	110	95	102	102	95	98	117	92	101	77	64	68
9 10	115 118	96 99	105 107	107 110	93 89	100 98	123 118	93 85	104 100	64 65	54 51	58 58
11	116	00	105	00	00	20	106	70	01	60	EE	61
12	113	90 87	105	103	83	03	03 100	76	91 81	61	55	56
13	109	87	97	99	86	93	92	75	81	63	51	57
14	119	95	105	111	94	101	93	76	84	78	61	70
15	121	98	108	113	97	104	85	77	81	76	71	74
16	127	105	114	111	83	100	83	71	77	72	67	70
17	131	108	118	116	81	93	90	68	78	67	61	64
18	128	104	116	92	78	83	94	63	79	63	60	62
19 20	132	106	120	99 97	86 89	93 93	85 58	56 13	68 44	68 70	62 67	65 68
20	155	112	144	57	05		50	15		70		
21	129	108	119	92	86	89	39	18	30	73	67	69 71
22	114	80	108	87	83	86	45	33	57	75	67	71
23	129	92	109	91	86	89	69	57	63	75	72	74
25	134	101	116	90	87	88	64	61	63	70	71	74
26	139	108	123	87	84	85	68	61	65	72	67	69
27	133	113	123	89	82	86	74	66	70	71	63	67
28				89	83	86	71	68	69	68	64	66
29				93	82	87	70	66	69	74	59	67
30				92	85	88	66	62	64	75	61	66
31				89	79	84				73	60	65
MONTH	139	76	106	135	78	94	123	13	74	78	51	66
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMB	MEAN ER
DAY 1	MAX 66	MIN JUNE 60	MEAN	MAX 75	MIN JULY 63	MEAN	MAX 102	MIN AUGUST 65	MEAN 81	MAX 67	MIN SEPTEMB	MEAN ER 64
DAY 1 2	MAX 66 64	MIN JUNE 60 52	MEAN 63 58	MAX 75 90	MIN JULY 63 62	MEAN 68 74	MAX 102 124	MIN AUGUST 65 63	MEAN 81 84	MAX 67 71	MIN SEPTEMB 62 62	MEAN ER 64 66
DAY 1 2 3	MAX 66 64 72	MIN JUNE 60 52 55	MEAN 63 58 63	MAX 75 90 106	MIN JULY 63 62 59	MEAN 68 74 80	MAX 102 124 104	MIN AUGUST 65 63 63	MEAN 81 84 76	MAX 67 71 75	MIN SEPTEMB 62 62 66	MEAN ER 64 66 70
DAY 1 2 3 4	MAX 66 64 72 77	MIN JUNE 60 52 55 57	MEAN 63 58 63 65	MAX 75 90 106 135	MIN JULY 63 62 59 63	MEAN 68 74 80 94	MAX 102 124 104 71	MIN AUGUST 65 63 63 46	MEAN 81 84 76 58	MAX 67 71 75 78	MIN SEPTEMB 62 62 66 66	MEAN ER 64 66 70 71
DAY 1 2 3 4 5	MAX 66 64 72 77 73	MIN JUNE 60 52 55 57 61	MEAN 63 58 63 65 66	MAX 75 90 106 135 125	MIN JULY 63 62 59 63 63 68	MEAN 68 74 80 94 92	MAX 102 124 104 71 95	MIN AUGUST 65 63 63 46 44	MEAN 81 84 76 58 68	MAX 67 71 75 78 84	MIN SEPTEMB 62 62 66 66 63	MEAN ER 64 66 70 71 71
DAY 1 2 3 4 5 6	MAX 66 64 72 77 73 69	MIN JUNE 60 52 55 57 61 63	MEAN 63 63 65 66 65	MAX 90 106 135 125 110	MIN JULY 63 62 59 63 68 71	MEAN 68 74 80 94 92 88	MAX 102 124 104 71 95 99	MIN AUGUST 65 63 63 46 44 57	MEAN 81 84 76 58 68 74	MAX 67 71 75 78 84 83	MIN SEPTEMB 62 62 66 63 59	MEAN ER 64 66 70 71 71 69
DAY 1 2 3 4 5 6 7	MAX 66 64 72 77 73 69 73	MIN JUNE 60 52 55 57 61 63 63	MEAN 63 58 63 65 66 65 67	MAX 75 90 106 135 125 110 120	MIN JULY 63 62 59 63 68 71 68	MEAN 68 74 80 94 92 88 90	MAX 102 124 104 71 95 99 105	MIN AUGUST 65 63 63 46 44 57 62	MEAN 81 84 76 58 68 74 82	MAX 67 71 75 78 84 84 83 88	MIN SEPTEMB 62 66 66 63 59 58	MEAN 64 66 70 71 71 69 70
DAY 1 2 3 4 5 6 7 8	MAX 66 64 72 77 73 69 73 78	MIN JUNE 60 52 55 57 61 63 63 72	MEAN 63 63 65 66 65 67 75	MAX 75 90 106 135 125 110 120 125	MIN JULY 63 62 59 63 68 71 68 72	MEAN 68 74 80 94 92 88 90 95	MAX 102 124 104 71 95 99 105 100	MIN AUGUST 65 63 63 46 44 57 62 61	MEAN 81 84 76 58 68 74 82 77	MAX 67 71 75 78 84 83 88 94	MIN SEPTEMB 62 66 66 63 59 58 61	MEAN 64 66 70 71 71 69 70 70 73
DAY 1 2 3 4 5 6 7 8 9 9	MAX 66 64 72 77 73 69 73 78 75	MIN JUNE 60 52 55 57 61 63 63 72 70	MEAN 63 65 66 65 67 75 74	MAX 75 90 106 135 125 110 120 125 119	MIN JULY 63 62 59 63 63 68 71 68 72 81	MEAN 68 74 80 94 92 88 90 95 96	MAX 102 124 104 71 95 99 105 100 100	MIN AUGUST 65 63 63 46 44 57 62 61 58	MEAN 81 84 76 58 68 74 82 77 72 72	MAX 67 71 75 78 84 83 88 94 	MIN SEPTEMB 62 62 66 66 63 59 58 61 	MEAN 64 66 70 71 71 69 70 73
DAY 1 2 3 4 5 6 7 8 9 10	MAX 66 64 72 77 73 69 73 78 75 73	MIN JUNE 60 52 55 57 61 63 63 72 70 66	MEAN 63 65 66 65 67 75 74 70	MAX 75 90 106 135 125 110 120 125 119 107	MIN JULY 63 62 59 63 68 71 68 72 81 82	MEAN 68 74 80 94 92 88 90 95 96 92	MAX 102 124 104 71 95 99 105 100 100 100	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61	MEAN 81 84 76 58 68 74 82 77 72 80	MAX 67 71 75 78 84 83 88 94 	MIN SEPTEMB 62 62 66 66 63 59 58 61 	MEAN 64 66 70 71 71 71 69 70 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 66 64 77 73 69 73 78 75 73 73 74	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64	63 63 65 66 65 66 75 74 70 69	MAX 75 90 106 135 125 110 120 125 119 107	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 73	MEAN 68 74 80 94 92 88 90 95 96 92 85 85	MAX 102 124 104 71 95 99 105 100 100 100 110	MIN AUGUST 65 63 46 44 44 57 62 61 58 62 61 58 62	MEAN 81 84 76 58 68 74 82 77 77 72 80 84 84	MAX 67 71 75 78 84 83 88 94 	MIN SEPTEMB 62 66 66 63 59 58 61 	MEAN ER 64 66 70 71 71 69 70 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 2	MAX 66 64 72 77 73 69 73 73 75 73 74 74	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65	MEAN 63 65 65 66 65 67 75 74 70 69 69	MAX 75 90 106 135 125 110 120 125 119 107 103 94	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63	MEAN 68 74 80 94 92 88 90 95 96 92 85 78	MAX 102 124 104 71 95 99 105 100 100 100 110 110	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 66 68 87	MEAN 81 84 76 58 68 74 82 77 77 72 80 80 84 90	MAX 67 71 75 78 84 83 88 94 	MIN SEPTEME 62 66 66 63 59 58 61 	MEAN ER 64 66 70 71 71 71 69 70 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 66 64 72 77 73 69 73 78 75 73 75 73 74 74 63	MIN JUNE 60 52 55 57 61 63 63 63 72 70 66 64 65 60 58	MEAN 63 58 65 66 65 67 75 74 70 69 69 63 60	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87	MIN JULY 63 62 59 63 68 71 68 71 68 72 81 82 73 63 63 63 63	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71	MAX 102 124 104 71 95 99 105 100 100 100 110 106 129 134 155	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61 58 62 66 68 77	MEAN 81 84 76 58 68 74 82 77 72 80 80 84 90 97 90 97	MAX 67 71 75 78 84 83 88 94 	MIN SEPTEMB 62 66 66 63 59 58 61 	MEAN ER 64 66 700 71 71 69 70 70 73
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 66 64 72 77 73 69 73 73 75 73 74 74 68 63 70	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62	MEAN 63 58 65 66 65 75 74 70 69 69 63 60 65	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 64 68	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 74 80	MAX 102 124 104 71 95 99 105 100 100 100 110 106 129 134 155 177	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 66 8 62 66 8 71 77 93	MEAN 81 84 76 58 68 74 82 77 72 80 80 84 90 97 107 126	MAX 67 71 75 78 84 83 88 94 10 97	MIN SEPTEME 62 66 66 63 59 58 61 61 69 76	MEAN ER 64 66 70 71 71 71 69 70 73 85 85
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 66 64 72 77 73 69 73 73 75 73 74 74 68 63 70 78	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69	MEAN 63 58 63 65 66 65 75 74 70 69 69 63 60 65 73	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 63 64 68 72	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89	MAX 102 124 104 71 95 99 105 100 100 100 100 100 110 106 129 134 155 177 124	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 66 68 71 79 3 87	MEAN 81 84 76 58 68 74 82 77 72 80 80 84 90 97 107 126	MAX 67 71 75 78 84 83 88 94 10 97 79	MIN SEPTEME 62 66 66 63 59 58 61 69 76 56	MEAN ER 64 66 70 71 71 71 71 71 71 71 71 71 71 71 71 71
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 66 64 72 77 73 69 73 78 75 73 75 73 74 68 63 70 74 78 878	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 62 71	MEAN 63 58 63 65 66 65 75 74 70 69 69 69 63 60 65 73 74	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 63 63 64 68 72 76	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94	MAX 102 124 104 71 95 99 105 100 100 100 100 106 129 134 155 177 124 129	MIN AUGUST 65 63 46 44 57 62 61 58 62 66 68 71 73 93 87	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100	MAX 67 71 75 78 84 83 84 94 110 97 79 64	MIN SEPTEMB 62 66 66 63 99 59 61 69 76 57	MEAN ER 64 66 70 71 71 71 69 70 73 85 85 85 69 60
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 66 72 77 73 69 78 75 73 74 74 74 68 63 70 78 78 78 78 78 78	MIN JUNE 60 52 55 57 61 63 72 70 66 64 65 60 58 62 69 71 69	MEAN 63 58 63 65 66 65 74 70 69 63 60 65 73 74 72	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 64 63 72 76 75	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92	MAX 102 124 104 71 95 99 105 100 100 100 100 100 129 134 155 177 124 129 247	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61 58 62 61 58 62 87 77 93 87 77 93	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157	MAX 67 71 75 78 84 83 94 110 97 79 64 68	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53	MEAN ER 64 66 70 70 71 71 71 69 70 73 85 85 85 85 69 60 59
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 66 64 72 77 73 69 73 73 75 73 74 74 63 70 78 78 78 76 75	MIN JUNE 60 52 55 57 61 63 63 63 72 70 66 64 65 60 58 62 69 71 69 67	MEAN 63 65 65 66 65 74 70 69 69 63 60 65 73 74 72 72	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 71 80 89 94 92 87	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 66 68 71 77 93 87 71 93 87 139	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56	MEAN ER 64 64 70 70 71 71 69 70 73 3 85 85 85 85 69 60 59 63
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 66 64 72 77 73 69 73 78 75 73 74 74 63 70 78 78 78 78 78 78 75 74	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68	MEAN 63 65 65 66 65 74 70 69 69 69 63 60 65 73 74 72 72 72 71	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74 37	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 78 71 80 89 94 92 87 68	MAX 102 124 104 71 95 99 105 100 100 100 100 110 106 129 134 155 177 124 129 247 253 215	MIN AUGUST 65 63 46 44 57 62 61 58 62 61 58 62 61 77 93 87 77 93 87 71 90 139 124	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56 57 53 56 58	MEAN ER 64 64 70 70 71 71 71 69 70 73 85 85 85 85 69 60 59 60 59 63 67
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 66 72 77 73 69 73 78 75 73 74 74 63 70 78 78 78 78 78 78 75 74 75	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 68 67	MEAN 63 65 65 66 65 74 70 69 69 63 60 65 73 74 72 72 71 70	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83 56	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 63 63 72 75 74 37 28	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41	MAX 102 124 104 71 95 99 105 100 100 100 100 110 106 129 134 155 177 124 129 247 253 215 167	MIN AUGUST 65 63 46 44 57 62 61 58 62 61 58 62 61 58 62 61 77 93 87 77 93 87 71 90 139 124 100	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133	MAX 67 71 75 78 84 83 84 110 97 79 64 68 74 79 77	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56 58 61	MEAN ER 64 64 670 70 71 71 71 69 70 73 85 85 85 85 69 60 59 60 59 63 67 68
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 66 72 77 73 69 73 78 75 73 74 74 63 70 78 76 63 70 78 76 75 74 75 82	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 65	MEAN 63 58 63 65 66 65 74 70 69 69 63 60 65 74 72 72 71 70 72	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83 56 91	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 64 68 72 76 75 74 37 28 47	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 71 80 89 94 92 87 68 41 66	MAX 102 124 104 71 95 99 105 100 100 100 110 106 129 134 155 177 124 129 247 253 215 167 100	MIN AUGUST 65 63 46 44 57 62 61 58 62 66 8 62 66 8 71 93 87 71 90 139 124 100 71	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79 77 80	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56 57 53 56 58 61 62	MEAN ER 64 64 70 70 71 71 69 70 73 85 85 85 85 85 69 60 59 63 3 67 68 86 85
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 3	MAX 66 64 72 77 73 69 73 78 75 73 74 74 68 63 70 78 78 76 75 74 75 82 86	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 68 65 64	MEAN 63 58 65 66 65 75 74 70 69 69 69 69 63 60 65 73 74 72 71 70 72 71	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83 56 91 111	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 64 68 72 76 75 74 37 28 47 55	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 46 44 57 62 61 58 62 66 68 71 93 87 71 90 139 124 100 71 63	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71	MAX 67 71 75 78 84 83 84 94 110 97 79 64 68 74 79 77 80 81	MIN SEPTEMB 62 66 66 63 99 861 69 76 56 57 53 56 88 61 26 262	MEAN ER 64 66 70 70 71 71 71 69 70 73 85 85 85 85 85 85 69 60 63 67 63 67 68 68 68 68 68
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 5	MAX 66 72 77 73 69 73 78 75 73 74 74 74 68 63 70 78 78 78 78 78 75 74 75 82 97	MIN JUNE 60 52 55 57 61 63 63 70 66 64 65 60 58 62 69 71 69 67 68 67 68 67 68 61	MEAN 63 58 63 65 66 67 75 74 70 69 63 60 65 73 74 72 72 71 70 72 71	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83 56 91 111	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 64 63 63 64 68 72 76 75 74 37 28 47 75 55 67	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 676 77 77	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 129 134 155 177 124 129 247 253 215 167 100 80 64 51	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61 58 62 61 58 62 87 77 93 87 71 93 87 71 93 124 100 71 63 52	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60	MAX 67 71 75 78 84 83 84 94 110 97 79 64 68 74 79 77 80 81 82 82	MIN SEPTEMB 62 66 66 66 63 59 58 61 69 76 56 56 58 61 62 56 58 61 62 62 62 61	MEAN ER 664 666 70 70 71 71 71 69 70 73 85 85 85 85 85 69 60 59 63 67 68 68 68 69 69 63
DAY 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	MAX 66 72 77 73 69 73 78 75 73 74 74 75 86 76 75 74 75 82 86 97 107	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 68 67 65 64 61 62	MEAN 63 58 65 66 65 74 70 69 63 60 65 73 74 72 72 71 70 72 71 70 72 74 76 81	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 87 84 95 111 116 116 116 119 109 83 56 91 111 91 104	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 63 63 64 68 72 76 75 74 37 28 47 55 55 67 59	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76 77 78	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 129 134 155 177 124 129 247 253 215 167 100 80 64 64	MIN AUGUST 65 63 64 44 57 62 61 58 62 61 58 62 61 58 62 87 77 93 87 71 93 87 71 93 124 100 71 63 52 49	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56	MAX 67 71 75 78 84 83 84 94 110 97 79 64 68 74 79 77 80 81 82 83	MIN SEPTEMB 62 66 66 63 59 58 61 69 76 56 56 58 61 62 62 62 61 60	MEAN ER 64 66 70 71 71 71 9 70 70 73 85 85 85 85 85 85 85 85 85 85 85 69 63 67 68 86 89 69 9 63 9 70
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26	MAX 66 64 72 77 73 69 78 75 73 74 74 68 63 70 78 78 78 74 75 74 75 74 75 82 86 97 107 102	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 65 64 61 62 63	MEAN 63 58 63 65 66 65 74 70 69 69 63 60 65 73 74 72 72 71 70 72 71 70 72 71 70 72 71 70 72 71 70 72 71 70 72 71 70 72 74 76 81 78	MAX 75 90 106 135 125 110 120 125 119 107 103 94 95 111 116 119 109 83 56 91 111 119 109 83	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 63 64 68 72 76 75 74 37 28 47 75 55 74 37 55 59 58	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76 77 78 68	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 129 134 155 177 124 129 247 253 215 167 100 80 64 64 71	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61 58 62 61 58 62 87 77 93 87 71 93 87 71 93 87 71 93 124 100 71 139 124 100 52 49 54	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62	MAX 67 71 75 78 84 83 84 110 97 79 64 68 74 79 77 80 81 82 83 78	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56 58 61 62 261 60 63	MEAN ER 64 64 70 70 71 71 71 69 73 85 85 85 85 69 60 59 60 59 63 67 63 67 63 67 63 67 70 70 70 70 70 70 70 71 71 71 71 71 71 71 71 71 71 71 71 71
DAY 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 26 27	MAX 66 64 72 77 73 69 73 78 75 73 74 74 63 70 78 78 74 75 74 75 74 75 74 75 74 75 71 70 70 70 70 70 70 70 70 70 70	MIN JUNE 60 52 55 57 61 63 63 70 66 64 65 60 58 62 69 71 69 71 69 67 68 67 65 64 62 62 63 54	MEAN 63 58 65 66 65 74 70 69 63 60 65 73 74 72 71 70 72 71 70 72 71 70 72 71 70 72 74 76 81 78	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 83 56 91 111 116 119 109 109 83	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74 37 28 47 75 55 67 59 58 64	MEAN 68 74 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76 77 78 68 71	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 46 44 57 62 61 58 62 61 58 62 66 68 87 77 93 87 71 90 90 139 90 124 100 71 63 52 49 54 55	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66	MAX 67 71 75 78 84 83 84 110 97 79 64 68 74 79 77 80 81 82 83 78 80	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 57 53 56 58 61 62 62 61 62 60 63 69	MEAN ER 64 64 70 70 71 71 69 70 73 85 85 85 85 69 60 59 60 59 63 67 68 85 85 70 70 70 70 70 70
DAY 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 28 28 28 28 28 28 28 28 28	MAX 66 64 72 77 73 69 73 74 75 73 74 74 63 70 78 76 75 74 75 72 74 75 72 107 102 112 76 76 76 76 77 73 75 73 75 75 73 75 75 75 73 75 75 75 75 75 75 75 75 75 75	MIN JUNE 60 52 55 57 61 63 63 70 66 64 65 60 62 67 68 67 68 67 68 67 68 67 63 64 62 63 52 57	MEAN 63 58 65 66 65 67 74 70 69 69 63 60 65 74 72 71 70 72 74 72 71 70 72 74 81 81 81 69	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 84 95 111 116 119 109 109 109 83 56 91 111 91 104 78 79 80	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 63 63 63 63 63 63 63 63 72 76 75 74 37 28 47 55 67 59 58 64 62	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76 77 78 68 71 68 71 80 87 68 74 80 89 85 74 80 80 95 96 92 85 74 71 80 87 68 41 66 77 77 80 87 87 87 87 87 87 87 87 87 87	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 46 44 57 62 61 58 62 66 8 71 58 62 66 8 71 93 87 71 90 139 124 100 71 63 52 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66 66 64	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79 77 80 81 82 83 78 80 76	MIN SEPTEMB 62 66 66 66 63 99 86 1 69 76 56 57 53 56 58 61 62 62 61 60 60 61 60 63 89 71	MEAN ER 64 66 64 66 69 70 73 85 85 85 85 85 63 67 63 67 63 67 63 67 63 67 70 70 74 72 57 57
DAY 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 20	MAX 66 72 77 73 69 73 78 75 73 74 74 74 68 63 70 78 78 76 75 74 75 82 697 107 102 1122 76 73	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 68 61 62 63 54 52 51	MEAN 63 58 65 66 65 77 74 70 69 63 60 65 73 74 72 71 70 72 74 76 81 78 81 69 63 63 65 75 74 76 75 74 70 72 74 76 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 72 71 70 72 71 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 72 71 70 72 74 70 72 74 76 81 78 78 78 78 78 76 76 81 78 78 78 78 78 76 76 76 76 76 76 76 76 76 76	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 87 84 95 111 116 116 116 116 119 109 83 56 91 111 91 104 78 79 80 91	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74 37 28 47 75 74 37 28 47 55 55 67 59 58 64 62 61	MEAN 68 74 80 94 92 88 90 95 96 92 85 74 71 80 89 94 92 87 68 41 666 77 78 68 71 80 87 87 87 87 87 87 87 87 87 87	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 61 58 62 66 66 871 77 93 87 71 93 87 71 90 139 124 100 711 63 52 49 54 55 75 757	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66 64 68	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79 77 80 81 82 83 78 80 76 77 77 80 77 79 79 79 79 79 79 79 79 79	MIN SEPTEMB 62 66 66 66 63 59 58 61 69 76 56 56 58 61 62 62 62 61 60 63 69 71 67	MEAN ER 64 64 70 70 71 71 71 89 70 70 73 85 85 85 85 85 85 85 85 85 85 85 85 85
DAY 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 34 34 34 55 55 26 27 28 29 30 31 20 20 20 20 20 20 20 20 20 20	MAX 66 64 72 77 73 69 73 78 75 73 74 76 75 74 75 82 86 97 107 102 1102 76 73 76 75 74 75 75 74 75 75 74 75 75 75 75 75 75 75 75 75 75	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 68 61 62 63 54 51 62 53 54 51 63 54 55 53 57 53 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 55 55 57 61 63 55 55 61 63 55 55 61 66 55 55 70 66 55 55 70 66 55 55 70 66 55 55 70 66 55 55 70 66 55 55 70 66 64 55 55 70 66 55 55 70 66 64 55 60 55 55 70 66 64 55 67 67 66 67 67 67 67 67 67 67 67 67 67	MEAN 63 58 65 66 65 77 74 70 69 63 60 65 73 74 72 71 70 72 71 70 72 71 70 72 74 76 81 78 81 69 63 63 9 63	MAX 75 90 106 135 125 110 120 125 119 107 103 94 87 87 84 95 111 116 119 109 83 56 91 111 104 78 79 91 111	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 63 63 64 68 72 76 75 74 37 28 47 55 57 74 37 55 55 67 59 58 64 62 61 65 68	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 77 78 68 71 83 83	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 63 46 44 57 62 61 58 62 66 68 71 77 93 87 71 93 87 71 93 124 100 71 39 124 100 71 52 49 55 55 57 57 57 57	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66 64 64 68 73 69	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79 77 80 81 82 83 78 81 82 83 78 81 82 83 75 78 83 75 75 78 84 75 78 84 75 78 85 86 75 78 86 75 78 87 75 78 87 75 78 87 75 78 87 75 78 87 75 78 87 75 78 87 75 78 87 75 78 87 79 79 64 68 74 79 77 80 77 79 79 64 68 74 79 77 80 77 79 77 80 77 79 77 80 77 79 77 79 77 80 81 82 83 77 77 80 81 82 83 76 77 77 80 77 77 80 81 82 83 76 77 77 80 81 82 83 76 77 77 70 77 79 77 77 77 79 77 80 81 82 83 76 76 77 77 77 77 78 77 77 77 77 77	MIN SEPTEMB: 62 66 66 63 59 58 61 69 76 56 56 58 61 62 62 61 60 63 69 71 67 66	MEAN ER 64 64 70 70 71 71 71 69 70 70 73 85 85 85 85 85 85 85 85 85 85 85 85 85
DAY 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 V V N N N N N N N N N N N N N	MAX 66 64 72 77 73 69 73 78 75 73 74 68 63 70 78 76 75 74 75 86 97 107 102 112 76 73 76 107 102 102 102 102 102 102 102 103 103 103 103 103 103 103 103	MIN JUNE 60 52 55 57 61 63 63 72 70 66 64 65 60 58 62 69 71 69 67 68 67 64 62 63 54 52 51 63 54 52 51 63 72 70 66 70 66 72 70 67 67 67 70 67 70 67 67 67 70 67 67 67 70 67 67 67 70 67 67 67 67 67 67 67 67 67 67 67 67 67	MEAN 63 58 63 65 66 65 77 74 70 69 69 69 63 60 65 73 74 72 71 70 72 74 76 81 78 81 69 63 63 65 75 74 70 72 74 76 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 75 74 70 72 71 70 72 74 70 72 71 70 72 74 70 75 74 70 75 74 70 72 71 70 72 74 70 72 74 70 72 74 76 81 78 78 78 78 78 79 72 72 74 76 81 78 78 76 75 76 75 74 70 72 72 74 76 70 72 74 76 81 78 79 70 75 76 75 76 77 72 74 76 76 77 77 76 77 77 76 77 77	MAX 75 90 106 135 125 119 107 103 94 87 87 84 95 111 116 119 109 83 56 91 111 104 78 80 91 111 105	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74 37 28 47 55 67 75 55 84 64 65 68	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 666 77 78 68 73 83 83 83	MAX 102 124 104 71 95 99 105 100 100 100 100 100 106 129 134 155 177 124 129 247 253 215 167 100 64 64 64 71 80 64 71 80 75 90 75 90 75 90 75 90 75 100 100 100 100 100 100 100 10	MIN AUGUST 65 63 64 44 57 62 61 58 62 61 58 62 61 58 62 61 58 62 71 73 93 87 71 93 87 71 93 87 71 93 124 100 71 63 52 49 54 55 57 57 75 75 75 75 75 75 75 75 75 75	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66 64 68 73 69	MAX 67 71 75 78 84 83 88 94 110 97 79 64 68 74 79 77 80 81 82 83 78 81 82 83 78 81 79 77 80 79 79 79 79 79 79 79 79 79 79	MIN SEPTEMB 62 66 66 66 63 99 58 61 69 76 56 57 53 56 58 61 62 62 61 60 63 69 71 67 67 67 67	MEAN ER 64 64 67 70 71 71 71 69 70 73 85 85 85 85 85 85 85 69 60 9 60 9 63 67 63 67 68 88 69 60 70 70 70 71 71 71 71 71 71 71 71 71 71 71 71 71
DAY 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 MONTH YEAD	MAX 66 64 72 77 73 69 73 78 75 73 74 74 74 63 70 78 78 76 75 74 75 82 86 97 107 102 112 76 73 76 71 75 72 75 73 76 76 77 78 78 76 76 76 77 78 78 78 78 78 78 78 78 78	MIN JUNE 60 52 55 57 61 63 63 70 66 64 65 60 58 62 69 71 69 67 68 67 65 64 62 54 251 63 51	MEAN 63 58 65 66 65 74 70 69 63 60 65 73 74 72 71 70 72 74 81 63 69 70 81 63 63 63 72 74 72 74 70 72 74 76 81 70 82 70 83 70 72 74 76 81 70 82 70 83 70 70 72 74 76 81 70 70 70 70 70 72 76 81 70 70 70 70 70 70 70 70 70 70	MAX 75 90 106 135 125 119 107 103 94 87 84 95 111 116 119 109 83 56 91 111 109 83 56 91 111 104 78 79 80 91 111 105 135	MIN JULY 63 62 59 63 68 71 68 72 81 82 73 63 63 64 68 72 76 75 74 37 28 47 75 55 67 59 58 64 62 61 65 68 28	MEAN 68 74 80 94 92 88 90 95 96 92 85 78 74 71 80 89 94 92 87 68 41 66 76 77 78 68 71 68 73 83 83 80	MAX 102 124 104 71 95 99 105 100 100 100 100 100 100 100	MIN AUGUST 65 63 46 44 57 62 66 68 71 77 93 87 71 90 90 90 139 124 100 71 63 52 49 54 55 57 71 65 44	MEAN 81 84 76 58 68 74 82 77 72 80 84 90 97 107 126 105 100 157 183 162 133 88 71 60 56 62 66 64 68 73 69 89	MAX 67 71 75 78 84 83 84 83 84 110 97 79 64 68 74 79 77 80 81 82 83 78 80 76 71 110 97 77 110 97 77 110 97 79 110 110 110 110 110 110 110 11	MIN SEPTEMB: 62 66 66 66 63 59 58 61 69 76 56 57 53 56 58 61 62 62 61 60 63 69 711 67 53	MEAN ER 64 64 67 70 71 71 71 69 70 73 85 85 85 69 60 59 63 63 67 68 85 69 60 59 63 60 70 70 70 70 70 70 70 70 70 70 71 71 71 71 71 71 71 71 71 71 71 70 70 70 70 70 70 70 70 70 70 70 70 70

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

SPECIFIC CONDUCTANCE FROM LEFT INTAKE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	ECEMBER			JANUARY	
1	637	575	601	529	473	494	718	666	694			
2	040 487	468	527 479	545	469	495	738	709	720	736	690	720
4	514	470	492	484	457	472	769	721	754	744	721	736
5	500	477	492	481	462	475	774	737	759	734	553	622
6	504	475	491	488	466	479	771	750	766	763	562	692
7	505	475	491	721	475	598	790	760	779	774	749	764
8	496	468	485	751	714	734	802	778	790	776	739	759
9	523	467	485	755	727	745	792	748	775	894	736	784
10	589	469	517	754	656	695	748	528	617	1320	894	1120
11	609	472	539	683	640	656	589	524	561	1320	1100	1240
12	609	486	561	683	643	662	589	579	582	1300	1220	1260
13	591	490	552	687	647	666	642	567	603	1280	1200	1230
14	571	477	519	689	645	669	676	636	655	1240	1170	1200
15	551	464	480	693	671	681	695	659	678	1180	1020	1130
16	471	450	459	717	693	710	712	677	696	1020	976	993
17	471	453	464	742	706	732	709	658	684	976	947	960
18	477	448	465	771	716	738	739	689	705	947	899	911
19	500	468	486	843	768	805	739	605	691	908	878	889
20	535	474	496	849	816	835	605	561	582	894	863	879
21	561	469	499	846	808	828	600	586	593	889	847	868
22	537	459	498	839	811	829	662	580	624	893	855	877
23	546	463	492	831	813	823	682	645	665	1100	888	964
24	506	459	481	836	815	825	680	647	668	1200	1100	1180
25	519	469	491	853	822	833	694	547	629	1400	1200	1260
26	505	479	497	827	699	776	560	503	525	1400	1180	1250
27	513	480	498	783	563	678	567	530	556	1180	1090	1140
28	548	482	500	656	566	610				1090	983	1020
29	630	488	541	681	656	672						
30	552	467	491	678	648	662						
31	570	471	505							891	869	880
MONTH	646	448	502	853	457	679	802	503	670	1400	553	975
									MEAN	MAN	MTN	
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAA	MIN	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN	MEAN	MAA	MAY	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX 912	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	225	MAY	MEAN
DAY 1 2	MAX 885	MIN FEBRUARY 846 861	MEAN 867	MAX 813	MIN MARCH 762 735	800	MAX 582	MIN APRIL 545	569	335	MAY 317 293	MEAN 325
DAY 1 2 3	MAX 885 884 916	MIN FEBRUARY 846 861 866	MEAN 867 866 893	MAX 813 800 778	MIN MARCH 762 735 509	800 773 678	MAX 582 633 650	MIN APRIL 545 568 621	569 614	335 335 307	MAY 317 293 289	325 319 296
DAY 1 2 3 4	MAX 885 884 916 882	MIN FEBRUARY 846 861 866 860	MEAN 867 866 893 872	MAX 813 800 778 763	MIN MARCH 762 735 509 470	800 773 678 541	MAX 582 633 650 665	MIN APRIL 545 568 621 626	569 614 639 647	335 335 307 330	MAY 317 293 289 303	325 319 296 317
DAY 1 2 3 4 5	MAX 885 884 916 882 890	MIN FEBRUARY 846 861 866 860 856	MEAN 867 866 893 872 873	MAX 813 800 778 763 529	MIN MARCH 762 735 509 470 444	800 773 678 541 474	MAX 582 633 650 665 678	MIN APRIL 545 568 621 626 625	569 614 639 647 658	335 335 307 330 350	MAY 317 293 289 303 330	325 319 296 317 340
1 2 3 4 5	MAX 885 884 916 882 890	MIN FEBRUARY 846 861 866 860 856	MEAN 867 866 893 872 873	MAX 813 800 778 763 529	MIN MARCH 762 735 509 470 444	800 773 678 541 474	MAX 582 633 650 665 678	MIN APRIL 545 568 621 626 625	569 614 639 647 658	335 335 307 330 350	MAY 317 293 289 303 330	325 319 296 317 340
1 2 3 4 5 6	MAX 885 884 916 882 890 883	MIN FEBRUARY 846 861 866 860 856 844	MEAN 867 866 893 872 873 856	MAX 813 800 778 763 529 500	MIN MARCH 762 735 509 470 444 480	800 773 678 541 474 488	MAX 582 633 650 665 678 671	MIN APRIL 545 568 621 626 625 625	569 614 639 647 658 654	335 335 307 330 350 373	MAY 317 293 289 303 330 348	325 319 296 317 340 360
DAY 1 2 3 4 5 6 7	MAX 885 884 916 882 890 883 850 822	MIN FEBRUARY 846 861 866 860 856 844 822 793	MEAN 867 866 893 872 873 856 839 807	MAX 813 800 778 763 529 500 	MIN MARCH 762 735 509 470 444 480 	800 773 678 541 474 488 	MAX 582 633 650 665 678 671 709	MIN APRIL 545 568 621 626 625 625 625 625 661	569 614 639 658 658 654	335 335 307 330 350 373 396 443	MAY 317 293 289 303 330 348 365 292	325 319 296 317 340 360 381
DAY 1 2 3 4 5 6 7 8 9	MAX 885 884 916 882 890 883 850 822 828	MIN FEBRUARY 846 861 866 860 856 844 822 793 801	MEAN 867 866 893 872 873 856 839 807 815	MAX 813 800 778 763 529 500 588 658	MIN MARCH 762 735 509 470 444 480 548 583	800 773 678 541 474 488 574 632	MAX 582 633 650 665 678 671 706 709 718	MIN APRIL 545 568 621 626 625 625 661 662 677	569 614 639 647 658 654 684 684 689 701	335 335 307 330 350 373 396 443 485	MAY 317 293 289 303 330 348 365 392 443	325 319 296 317 340 360 381 409 455
DAY 1 2 3 4 5 6 7 8 9 10	MAX 885 884 916 882 890 883 850 822 828 844	MIN FEBRUARY 846 861 866 856 856 844 822 793 801 818	MEAN 867 866 893 872 873 856 839 807 815 831	MAX 813 800 778 763 529 500 588 658 658	MIN MARCH 762 735 509 470 444 480 548 583 637	800 773 678 541 474 488 574 632 663	MAX 582 633 650 665 678 706 709 718 714	MIN APRIL 545 568 621 626 625 625 661 662 662 677 676	569 614 639 647 658 654 684 684 689 701 690	335 335 307 330 350 373 396 443 485 556	MAY 317 293 289 303 330 348 365 392 443 485	325 319 296 317 340 360 381 409 455 518
1 2 3 4 5 6 7 8 9 10	MAX 885 884 916 882 890 883 850 822 828 844	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818	MEAN 867 866 893 872 873 856 839 807 815 831	MAX 813 800 778 763 529 500 588 658 658 678	MIN MARCH 762 735 509 470 444 480 548 583 637	800 773 678 541 474 488 574 632 663	582 633 650 665 678 671 706 709 718 714	MIN APRIL 545 568 621 626 625 625 661 662 661 662 677 676	569 614 639 647 658 654 684 684 689 701 690	335 335 307 330 350 373 396 443 485 556	MAY 317 293 289 303 330 348 365 392 443 485	325 319 296 317 340 360 381 409 455 518
1 2 3 4 5 6 7 8 9 10 11	MAX 885 884 916 882 890 883 850 822 828 844 858 844	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 818 824	MEAN 867 866 893 872 873 856 839 807 815 831 843 843	MAX 813 800 778 763 529 500 588 658 678 709 709	MIN MARCH 762 735 509 470 444 444 444 480 548 583 637 655	MEAN 800 773 678 541 474 474 474 632 663 688 635	MAX 582 633 650 665 678 706 709 718 714 715	MIN APRIL 545 568 621 626 625 625 625 661 662 677 676 682 677	569 614 639 647 658 654 684 689 701 690 700	335 335 307 330 350 373 396 443 485 556 591	MAY 317 293 289 303 330 348 365 392 443 485 556	325 319 296 317 340 360 381 409 455 518 577
1 2 3 4 5 6 7 8 9 10 11 12	MAX 885 884 916 882 890 883 850 822 828 844 858 844	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 818 824 762	MEAN 867 866 893 872 873 856 839 815 831 843 827	MAX 813 800 778 763 529 500 588 658 658 678 709 708 709 708	MIN 762 735 509 470 444 480 548 583 637 655 675	MEAN 800 773 678 541 474 488 574 632 663 688 695 675	MAX 582 633 650 665 678 671 706 709 718 714 715 708 712	MIN APRIL 545 568 621 626 625 661 662 677 676 682 675 675	569 614 639 647 658 654 684 684 689 701 690 700 691	335 335 307 330 350 373 396 443 485 556 591 596	MAY 317 293 303 330 348 365 392 443 485 556 559	325 319 296 317 340 360 381 409 455 518 577 589
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 885 884 916 882 890 883 850 822 828 828 824 858 844 858 848 793	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 818 824 764 753	MEAN 867 893 873 873 856 839 807 815 831 843 827 773	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 708	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 655 675 675	800 773 678 541 474 488 574 632 663 632 663 688 695 675 603	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 707	MIN APRIL 545 568 621 622 625 625 661 662 677 676 682 675 675 675	569 614 639 647 658 654 684 689 701 690 700 691 691 692	335 335 307 330 350 373 396 443 485 556 591 596 627 307	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 205	325 319 296 317 340 360 381 409 455 518 577 589 574 204
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 885 884 916 882 890 883 850 822 828 824 828 844 858 844 793 824 823	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 818 824 764 753 790 803	MEAN 867 893 873 873 856 839 807 815 831 843 827 773 805 814	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 704	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 677 672 678	MEAN 800 773 678 541 474 488 574 632 663 688 695 695 695	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 675 675 675 675 695 596	569 614 639 647 658 654 684 684 689 701 690 700 691 694 702 671	335 335 307 330 350 373 396 443 485 556 591 596 627 307 307 282	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255	325 319 296 317 340 360 380 409 455 518 577 589 574 293
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 885 884 916 882 890 883 850 822 828 824 858 844 858 844 858 848 793 824 823	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 824 764 753 790 803	MEAN 867 866 893 873 856 839 807 815 831 843 827 773 805 814	MAX 813 800 778 763 529 500 588 678 678 709 708 691 709 704 704	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 675 675 675 678	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 700	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 675 675 675 695 96 596 596	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255	MEAN 325 319 296 317 340 360 381 409 455 518 578 574 294 263 274
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 858 844 823 824 823 812	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 824 753 790 803 769 769	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 790	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 704 728 748	MIN 762 735 509 470 444 480 548 583 637 655 675 675 657 672 678 678	MEAN 800 773 678 541 474 488 574 632 663 695 675 693 695 702 725	MAX 582 633 650 665 678 709 718 714 715 708 707 731 728 611 611	MIN APRIL 545 568 621 625 625 661 662 677 676 682 675 669 596 596 551	569 614 639 658 654 684 684 689 701 690 700 691 694 702 671 585	335 335 307 330 350 373 396 443 485 556 443 485 556 591 596 627 307 282 280	MAY 317 293 289 303 330 348 365 392 443 485 566 569 300 265 255 255	325 319 296 317 340 360 381 409 455 518 578 574 294 263 270 270
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 858 844 823 824 823 812 822	MIN FEBRUARY 846 861 866 844 856 844 822 793 801 818 824 764 753 790 803 769 798 803	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 809 815	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 704 728 748 748 748	MIN 762 735 509 470 444 480 548 583 637 655 675 675 672 678 674 704	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 742	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 555	MIN APRIL 545 568 621 626 625 662 677 676 682 675 669 596 551 530 530	569 614 639 647 658 654 684 684 689 701 690 700 691 694 702 671 585 556	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 282	MAY 317 293 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 265
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 885 884 916 882 890 883 850 822 828 824 858 844 858 844 858 844 823 812 822 829 844	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 818 824 764 753 790 803 769 798 798 794 754	MEAN 867 866 893 873 873 856 839 807 815 843 827 773 805 814 791 809 815 814	MAX 813 800 778 763 529 500 588 678 709 708 691 709 704 728 748 748 748 765	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 675 677 672 678 674 704 724	800 773 678 541 474 488 574 632 663 688 695 695 695 702 725 743 740	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 675 675 675 675 596 551 530 596	569 614 639 647 658 654 684 684 689 701 690 700 691 694 702 671 585 556 620 640	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 287 286	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 578 574 263 263 270 265 264 264
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 885 884 916 882 890 822 828 848 858 848 848 858 848 823 824 823 824 823 812 829 849	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 764 753 790 803 799 803 799 798 794 759	MEAN 867 866 893 872 873 856 839 807 815 843 827 773 805 814 791 809 815 815 815 815	MAX 813 800 778 763 529 500 588 678 678 678 678 709 708 691 709 704 728 748 748 765 755 906	MIN MARCH 762 735 509 470 444 480 548 583 637 655 657 672 678 674 704 726 724 731	MEAN 800 773 678 541 474 488 574 632 663 695 695 695 702 725 743 740 809	MAX 582 633 650 665 678 706 709 718 714 715 708 707 731 728 611 596 655 682 663	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 675 669 596 551 530 596 423 374	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 6483	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 282 280 277 287 263	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 265 264 264 262 259
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 858 844 823 812 822 829 844 809	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 764 753 790 803 769 798 794 764 759 798	MEAN 867 866 893 873 873 856 839 807 815 831 843 827 773 805 814 791 809 815 816 790	MAX 813 800 778 763 529 500 588 678 678 678 709 708 691 709 704 728 748 748 748 748 765 755 906	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 657 672 678 674 704 726 724 731	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 743 740 809	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 677 676 682 675 669 596 551 530 596 423 374	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 287 266 263	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 265 264 262
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 22 22 22 23 24 25 23 24 25 25 25 25 20 20 20 20 20 20 20 20 20 20	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 823 812 822 829 844 809 845	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 769 798 794 764 759 784 759	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 805 815 816 790 832 815	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 704 728 748 748 765 755 906 765 765	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 678 674 704 726 724 731 518	MEAN 800 773 678 541 474 488 574 632 663 695 675 693 695 702 725 743 740 809 627 472	MAX 582 633 650 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 561	MIN APRIL 545 568 621 625 625 661 662 677 676 682 675 669 596 551 530 596 423 374 417 27	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495	335 335 307 330 350 373 396 443 445 556 627 307 282 280 277 282 280 277 287 266 263 263	MAY 317 293 289 303 330 348 365 392 443 485 569 300 265 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 265 264 262 259 266
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	MAX 885 884 916 882 890 883 858 844 858 844 858 844 823 812 822 822 824 823 812 829 844 809 845 845 852 824 825 824 825 824 826 826 827 828 828 828 828 828 828 828	MIN FEBRUARY 846 861 866 844 822 793 801 818 824 753 790 803 764 759 798 794 764 759 784 759	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 809 816 790 832 852	MAX 813 800 778 763 529 500 588 658 678 678 679 709 708 691 709 704 728 748 748 748 748 765 755 906 765 566 566 566	MIN MARCH 762 735 509 470 444 480 548 583 637 655 657 672 678 674 704 726 724 731 518 437	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 743 740 809 627 479	MAX 582 633 650 665 678 709 718 714 715 708 707 731 728 611 596 655 682 663 554 554	MIN APRIL 545 568 621 626 625 625 662 662 677 676 682 675 669 596 551 530 596 423 374 417 433	569 614 639 647 658 654 684 689 701 690 700 691 690 700 691 585 556 620 640 583 495 498	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 282 280 277 286 263 277 287	MAY 317 293 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 265 264 262 259 266 269 266 269
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 858 844 823 812 822 829 844 809 845 845 761 761	MIN FEBRUARY 846 861 866 856 844 822 793 801 818 824 764 753 764 753 790 803 769 798 794 764 759 798 794 759 784 761 714	MEAN 867 866 893 873 856 839 807 815 843 827 773 805 814 791 809 815 816 790 832 815 727	MAX 813 800 778 763 529 500 588 678 709 708 691 709 704 728 748 748 748 748 748 748 755 906 765 566 443 443	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 675 675 677 672 678 674 704 726 724 731 518 437 437	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 743 740 809 627 479 441	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 702	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 677 676 682 551 530 596 423 374 417 433 460 592	569 614 639 647 658 654 684 684 689 701 690 700 691 690 700 691 694 702 671 585 556 620 640 583 498 550	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 287 280 277 287 266 263 263 277 274 312	MIN MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 578 578 263 263 265 264 265 264 265 264 265 264 265 269 286 269 286
DAY 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 23 24 25 20 21 22 23 24 25 20 20 20 20 20 20 20 20 20 20	MAX 885 884 916 882 890 883 850 822 828 844 858 848 793 824 823 812 822 829 844 809 845 845 845 845 845 845 845 845	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 769 798 794 764 759 784 761 714 737 757	MEAN 867 866 893 872 873 856 839 807 815 814 791 809 815 816 790 832 815 816 790 832 815 836 790 832 832 832 832 833 834 843 843 843 843 843 843	MAX 813 800 778 763 529 500 588 678 678 678 709 708 691 709 704 728 748 748 765 556 566 443 453 453 453	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 675 672 677 672 678 674 704 726 724 731 518 437 437 437	MEAN 800 773 678 541 474 488 574 632 663 632 663 695 675 693 695 702 725 743 740 809 627 479 440 440 440 440 440 440 440 44	MAX 582 633 650 665 678 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 717	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 675 669 596 423 374 417 433 460 539 625	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495 550 640 583	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 282 280 277 287 266 263 277 287 263 277 314	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 574 264 263 270 265 264 262 259 266 269 286 305 207
DAY 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	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 823 812 829 844 809 845 845 845 814	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 764 753 790 803 769 798 794 764 759 794 764 759 784 761 714 737 793	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 809 815 816 790 832 815 816 790 832 815 832 815 816 790 832 815 832 815 815 815 815 815 815 815 815	MAX 813 800 778 763 529 500 588 678 678 678 709 708 691 709 704 728 748 748 748 748 765 556 443 453 482	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 675 672 672 672 674 704 726 724 731 518 437 437 430 453	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 743 740 809 627 479 440 441 465	MAX 582 633 650 665 678 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 677 676 682 675 675 669 596 551 530 596 423 374 417 433 460 539 698	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495 498 550 684 734	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 287 266 263 277 287 263 277 314 312 314 337	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 574 294 265 264 262 259 266 269 286 305 327
DAY 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	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 824 823 812 822 829 844 809 845 845 845 845 845 845 845 844 800 812 824 824 824 824 824 825 824 824 824 825 824 824 825 824 824 825 824 826 826 827 828 828 844 850 822 828 844 850 822 828 844 850 824 825 824 825 824 825 824 824 825 825 826 826 826 827 826 827 826 827 826 827 826 827 827 827 827 827 827 827 827	MIN FEBRUARY 846 861 866 840 856 844 822 793 801 818 824 753 790 803 769 798 794 764 759 784 761 714 737 793 775	MEAN 867 866 893 872 873 856 839 807 815 831 843 843 805 814 791 805 814 791 805 815 816 790 832 832 832 832 777 776 802 797	MAX 813 800 778 763 529 500 588 678 678 709 708 691 709 704 728 748 765 765 566 443 453 482 494	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 678 674 704 726 724 731 518 437 430 453 469	800 773 678 541 474 488 574 632 663 695 702 725 743 740 809 627 479 440 441 465 479	MAX 582 633 650 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 741	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 675 669 596 551 530 596 423 374 417 433 675 698 698 698 676	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495 498 550 684 734 725	335 335 307 330 350 373 396 443 485 556 627 307 282 280 277 282 280 277 287 266 263 277 274 312 314 337 363	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 264 263 270 264 262 259 266 269 286 305 327 348
DAY 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 26 27 26 27 27 26 27 27 27 27 27 27 27 27 27 27	MAX 885 884 916 882 890 883 858 844 858 844 858 844 823 812 822 822 824 823 812 825 844 809 845 845 845 844 809 845 844 809 845 844 809 844 822 828 844 855 844 855 845 84	MIN FEBRUARY 846 861 866 844 822 793 801 818 824 753 790 803 769 798 799 709 709 709 709 709 709 709 709 709	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 809 815 809 816 790 832 815 727 802 797 805	MAX 813 800 778 763 529 500 588 678 709 708 691 709 704 728 748 765 765 765 566 443 453 482 494 546	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 675 675 677 678 674 704 726 724 731 518 437 437 437 437 437 437	800 773 678 541 474 488 574 663 688 695 672 693 695 702 725 743 740 809 627 479 441 465 479 511	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 741 676	MIN APRIL 545 568 621 622 625 625 661 662 677 676 682 677 676 682 677 596 596 596 551 530 596 596 5423 374 417 433 4609 598 679 698 669 669 555	569 614 639 647 658 654 684 684 690 700 691 690 700 691 690 700 691 585 556 620 640 583 495 498 550 684 734 725 598	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 287 287 287 282 280 277 287 280 277 287 280 277 287 307 307 307 307 307 307 307 307 307 30	MAY 317 293 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 263 263 270 265 264 263 270 265 264 265 264 265 269 266 305 327 348 379
DAY 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 20 28 28 28 28 28 28 28 28 28 28	MAX 885 884 916 882 890 883 850 822 828 844 858 844 858 844 823 812 822 829 844 809 845 845 845 845 845 845 845 845	MIN FEBRUARY 846 861 866 844 822 793 801 818 824 764 753 790 803 769 798 794 764 759 784 764 759 784 761 714 737 793 775 786 	MEAN 867 866 893 873 873 856 839 807 815 831 843 827 773 805 816 790 832 815 816 790 832 815 727 776 802 797 805 	MAX 813 800 778 763 529 500 588 678 709 708 691 709 704 728 748 748 748 748 765 556 566 443 453 482 494 546 559	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 675 675 675 675 677 672 678 674 704 726 724 731 518 8437 430 453 469 494 505	MEAN 800 773 678 541 474 488 574 632 663 688 695 675 693 695 702 725 743 740 809 627 479 440 441 465 479 511 532	MAX 582 633 650 665 678 671 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 751 741 676 628	MIN APRIL 545 568 621 626 625 625 661 662 677 676 682 677 676 556 559 559 559 423 374 417 433 460 539 698 676 555 353 530	569 614 639 647 658 654 684 684 690 700 691 690 700 691 694 702 671 585 556 620 640 583 498 550 684 734 725	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 287 282 280 277 287 266 263 277 274 312 314 337 363 405 444	MIN MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 263 264 263 270 265 264 262 259 266 269 286 305 327 348 379 2425
DAY 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 20	MAX 885 884 916 882 890 883 850 822 828 844 858 848 793 824 823 812 829 844 809 845 845 845 845 814 815 814 815 823 	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 769 794 764 759 794 764 759 784 761 714 759 784 761 714 737 793 775 786 	MEAN 867 866 893 872 873 856 839 807 815 831 843 827 773 805 814 791 809 815 816 790 832 815 816 790 832 815 815 816 790 832 815 815 816 790 832 815 815 815 816 790 832 815 815 815 815 815 815 815 815	MAX 813 800 778 763 529 500 588 678 678 678 709 708 691 709 704 728 748 748 765 556 443 453 482 494 546 559 547 547	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 677 672 678 674 704 726 724 731 518 437 430 453 469 453 469 455 517	800 773 678 541 474 488 574 632 663 688 695 702 725 743 740 809 627 440 441 465 479 511 532 528	MAX 582 633 650 665 678 711 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 741 676 628 353 353	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 675 675 669 596 551 530 596 423 374 417 433 460 539 698 676 553 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 306 535 307 535 535 536 536 536 536 536 536	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495 498 550 684 734 725 598 551 335	335 335 307 330 350 373 396 443 485 556 627 307 282 280 287 282 280 277 287 263 277 287 263 277 314 312 314 337 363 405 444 488	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 574 294 264 262 259 266 269 266 269 286 305 327 348 379 425 465
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30	MAX 885 884 916 882 890 863 850 822 828 844 858 844 858 844 823 812 822 824 829 844 809 845 845 845 845 845 845 845 845	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 764 753 790 803 769 798 794 764 759 784 764 759 784 764 759 784 761 714 737 793 775 786 	MEAN 867 866 893 872 873 856 839 807 815 831 843 843 843 843 843 843 843 843	MAX 813 800 778 763 529 500 588 658 678 709 708 691 709 704 728 748 748 765 755 906 765 566 443 453 482 494 546 559 547 547 547	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 678 674 704 726 724 731 518 437 437 437 437 430 453 469 494 505 517 515 517 515	MEAN 800 773 678 541 474 488 574 632 663 695 675 693 695 702 725 743 740 809 627 479 440 441 465 479 511 532 528 528 526 526 526	MAX 582 633 650 665 678 711 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 741 676 628 353 340	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 675 669 596 596 423 374 417 433 460 539 698 676 555 353 306 324	569 614 639 647 658 654 684 689 701 690 700 691 702 671 585 556 620 640 583 495 498 550 684 734 725 598 551 335 332	335 335 307 330 350 373 396 443 485 556 591 596 627 307 282 280 277 287 266 263 277 287 266 263 277 274 312 314 337 363 405 444	MAX 317 293 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 263 270 264 263 270 264 269 266 269 286 269 286 305 327 348 379 425 529 266 266 269 286 269 266 269 266 269 266 269 266 269 266 265 265 265 265 265 265 265
DAY 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 Verticitatione Control of Control	MAX 885 884 916 882 890 883 850 822 828 844 858 848 793 824 823 812 829 844 809 845 845 845 814 815 814 815 814 815 814	MIN FEBRUARY 846 861 866 860 856 844 822 793 801 818 824 753 790 803 769 794 764 759 784 761 714 759 784 761 714 759 784 761 714 759 784 761 714 759 784 761 714 759 784 761 714 759	MEAN 867 866 893 872 873 856 839 807 815 831 843 843 827 773 805 814 791 809 815 816 790 832 815 815 816 790 832 815 815 816 790 832 815 815 816 790 832 815 815 816 790 832 815 815 816 790 832 815 815 815 815 815 815 815 815	MAX 813 800 778 763 529 500 588 678 678 678 709 708 691 709 704 728 748 765 506 443 453 482 494 546 559 547 547 545 545 545 545 545 545	MIN MARCH 762 735 509 470 444 480 548 583 637 655 675 672 672 672 672 672 672 672 672 672 672	800 773 678 541 474 488 574 632 663 688 695 702 725 743 740 809 627 440 441 465 479 511 532 528 526 538	MAX 582 633 650 665 678 711 706 709 718 714 715 708 707 731 728 611 596 655 682 663 561 554 689 710 751 741 676 628 353 340 	MIN APRIL 545 568 621 625 625 625 661 662 677 676 682 677 676 682 675 675 669 596 423 374 417 433 460 539 698 678 678 698 676 553 306 324 	569 614 639 647 658 654 684 689 701 690 700 691 694 702 671 585 556 620 640 583 495 498 550 684 734 725 598 551 335 332 	335 335 307 330 350 373 396 443 485 556 627 307 282 280 280 287 282 280 287 286 263 277 287 266 263 277 314 312 314 337 363 405 444 488 517 540	MAY 317 293 289 303 330 348 365 392 443 485 556 569 300 265 255 255 255 255 255 255 255 255 255	MEAN 325 319 296 317 340 360 381 409 455 518 577 589 574 294 264 262 259 266 269 266 269 286 305 327 348 379 425 465 496 512 512 512 512 512 512 512 512

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		5	SEPTEMBE	R
1	574	525	542	440	411	429	537	507	524	456	339	401
2	565	504	521	453	438	445	534	455	517	527	456	501
3	505	484	496	469	451	459	455	278	350	563	421	506
4	512	487	503	528	468	496	397	353	371	530	445	507
5	512	424	447	641	480	531	452	396	422	527	472	500
6	448	313	385	681	562	642	472	448	460	597	515	538
7	329	246	295	721	654	694	612	469	520	661	597	640
8	332	315	326	751	693	726	569	490	514	730	658	705
9	326	308	317	746	505	711	548	492	513			
10	345	318	330	618	471	526	553	497	518			
11	364	341	351	762	563	678	556	496	522			
12	389	356	369	777	726	754	558	502	528			
13	397	369	385	777	742	765	554	509	532			
14	403	349	379	757	742	752	560	513	533	844	569	793
15	349	321	336	760	740	751	546	516	534	864	569	766
16	353	337	345	780	751	766	551	515	533	856	408	731
17	340	320	333	802	763	783	540	507	528	444	351	409
18	348	332	342	806	786	796	559	511	529	439	365	401
19	358	344	351	813	393	727	550	518	532	489	383	436
20	369	352	361	438	310	381	544	524	530	584	489	535
21	404	364	375	466	421	442	602	511	535	604	578	591
22	541	404	508	591	464	532	553	526	543	635	604	625
23	579	535	569	593	485	543	546	513	529	703	635	682
24	577	524	554	485	453	472	524	486	512	745	588	702
25	652	573	603	475	460	468	488	454	473	794	731	762
26	678	623	650	498	468	483	479	445	463	802	762	783
27	680	649	667	507	479	493	513	479	492	788	621	752
28	694	528	638	511	489	500	516	493	505	621	378	419
29	528	387	436	536	499	510	512	305	426	410	316	366
30	427	406	417	568	506	522	407	321	367	414	393	404
31				544	505	518	407	324	344			
MONTH	694	246	438	813	310	590	612	278	490	864	316	578
YEAR	1400	246	605									

SPECIFIC CONDUCTANCE FROM LEFT INTAKE, IN US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	2	N	OVEMBER		DI	ECEMBER			JANUARY	z
1	723	645	691	654	603	633	719	669	698			
2	744	605	671	704	612	668	728	709	720			
3	649	619	636	714	626	679	740	722	730	727	690	719
4	643	616	630	812	666	725	769	728	754	745	721	735
5	660	628	642	797	648	727	775	737	761	741	672	712
6	703	609	654	761	645	706	772	753	767	764	680	735
7	747	609	687	756	647	701	790	760	780	782	749	766
8	771	627	680	753	712	735	802	777	790	776	738	759
9	674	624	653	756	731	745	793	743	776	902	734	789
10	666	624	644	754	653	694	743	521	612	1320	902	1130
11	686	625	648	684	639	656	589	522	560	1320	1230	1270
12	666	634	652	684	642	661	589	575	581	1310	1230	1260
13	684	634	658	689	647	666	644	566	605	1280	1200	1230
14	702	641	675	691	644	669	679	637	656	1240	1170	1200
15	754	497	642	700	671	682	695	659	678	1180	1010	1130
16	811	738	778	719	700	712	711	676	696	1010	973	990
17	739	648	680	742	706	733	709	658	684	973	943	958
18	664	573	606	774	716	743	740	685	705	943	897	910
19	658	621	640	844	773	810	740	606	691	903	878	889
20	641	585	620	852	813	835	606	562	582	897	868	882
21	641	581	613	846	810	830	601	587	594	892	849	870
22	649	600	625	839	812	829	661	580	625	896	858	880
23	701	607	648	830	815	824	683	645	666	1100	892	971
24	697	615	651	837	814	826	683	647	668	1210	1100	1180
25	706	644	669	853	819	833	696	546	628	1410	1190	1270
26	807	664	700	832	774	800	561	504	525	1400	1180	1250
27	702	648	679	782	562	671	568	529	557	1180	1080	1130
28	716	645	681	662	563	613				1080	976	1020
29	719	606	679	682	662	673						
30	648	590	627	675	648	661						
31	656	614	637							891	869	880
MONTH	811	497	658	853	562	725	802	504	670	1410	672	982

SPECIFIC CONDUCTANCE FROM MIDDLE INTAKE, IN US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

SPECIFIC CONDUCTANCE FROM MIDDLE INTAKE, IN US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
-	005	051	067	01.2	702	800	F02	E 4 0	E 70	21.0	074	205
T	885	851	867	813	783	800	583	549	570	318	274	295
2	886	855	868	804	784	796	634	570	616	333	318	326
3	916	867	893	800	704	765	652	623	640	351	318	332
4	883	859	872	782	468	540	666	625	648	336	317	327
5	890	856	873	530	444	474	678	624	658	353	333	343
6	882	843	855	500	480	488	672	624	654	377	349	365
7	849	821	838				707	661	684	398	368	384
8	821	794	807	587	549	575	709	662	689	447	393	414
9	830	800	815	659	584	633	718	676	701	489	447	458
10	844	817	832	679	640	664	715	675	691	559	489	521
11	858	828	845	711	655	688	715	681	701	595	559	581
12	849	762	825	708	674	695	708	676	692	600	572	591
13	793	752	774	691	655	674	708	675	695	629	354	584
14	825	789	806	709	672	693	733	667	704	354	282	310
15	824	804	814	705	678	696	730	596	672	282	255	264
15	024	004	014	700	070	050	750	550	072	202	255	204
16	810	769	790	728	674	704	613	551	586	266	257	263
17	823	797	810	746	706	727	599	532	558	261	259	260
18	838	793	816	765	728	744	641	599	621	261	250	255
19	846	804	827	754	723	739	686	468	649	254	249	252
20	829	798	817	905	733	812	665	483	618	253	251	252
21	845	819	835	764	517	626	568	418	496	260	251	255
22	846	756	814	565	436	478	560	431	496	275	260	267
23	756	715	728	442	437	440	690	460	546	295	275	286
24	815	738	778	453	429	440	707	537	683	316	294	307
25	815	791	803	483	452	465	750	698	735	341	315	330
26	817	773	797	495	469	479	739	676	722	365	337	350
20	017	796	905	±33 E47	405	£11	676	550	F06	406	365	201
27	023	/00	805	547	495	511	676	330	590	400	305	301 427
28				556	506	532	020	4/1	221	445	406	427
29				547	517	528	471	295	351	490	441	467
30				547	515	528	295	269	275	518	484	498
31				549	533	540				541	508	518
MONTH	916	715	822	905	429	616	750	269	618	629	249	370
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBI	MEAN ER
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN ER
DAY 1	MAX	MIN JUNE 527	MEAN 544	MAX 468	MIN JULY 416	MEAN 446	MAX 626	MIN AUGUST 527	MEAN 592	MAX 459	MIN SEPTEMBE 340	MEAN ER 405
DAY 1 2	MAX 577 567	MIN JUNE 527 504	MEAN 544 522	MAX 468 513	MIN JULY 416 468	MEAN 446 496	MAX 626 634	MIN AUGUST 527 458	MEAN 592 582	MAX 459 529	MIN SEPTEMBH 340 459	MEAN ER 405 504
DAY 1 2 3	MAX 577 567 505	MIN JUNE 527 504 484	MEAN 544 522 496	MAX 468 513 573	MIN JULY 416 468 512	MEAN 446 496 536	MAX 626 634 547	MIN AUGUST 527 458 278	MEAN 592 582 415	MAX 459 529 565	MIN SEPTEMBI 340 459 423	MEAN ER 405 504 507
DAY 1 2 3 4	MAX 577 567 505 518	MIN JUNE 527 504 484 488	MEAN 544 522 496 504	MAX 468 513 573 651	MIN JULY 416 468 512 561	MEAN 446 496 536 582	MAX 626 634 547 556	MIN AUGUST 527 458 278 418	MEAN 592 582 415 494	MAX 459 529 565 534	MIN SEPTEMBH 340 459 423 455	MEAN ER 405 504 507 510
DAY 1 2 3 4 5	MAX 577 567 505 518 555	MIN JUNE 527 504 484 488 518	MEAN 544 522 496 504 545	MAX 468 513 573 651 684	MIN JULY 416 468 512 561 646	MEAN 446 496 536 582 667	MAX 626 634 547 556 518	MIN AUGUST 527 458 278 418 434	MEAN 592 582 415 494 464	MAX 459 529 565 534 527	MIN SEPTEMBE 340 459 423 455 471	MEAN SR 405 504 507 510 501
DAY 1 2 3 4 5	MAX 577 567 505 518 555	MIN JUNE 527 504 484 488 518 373	MEAN 544 522 496 504 545 462	MAX 468 513 573 651 684 719	MIN JULY 416 468 512 561 646 673	MEAN 446 496 536 582 667 699	MAX 626 634 547 556 518 565	MIN AUGUST 527 458 278 418 434 434	MEAN 592 582 415 494 464 530	MAX 459 529 565 534 527 602	MIN SEPTEMBE 340 459 423 455 471 516	MEAN ER 405 504 507 510 501 501
DAY 1 2 3 4 5 6 7	MAX 577 567 505 518 555 553 386	MIN JUNE 527 504 484 488 518 373 261	MEAN 544 522 496 504 545 462 309	MAX 468 513 573 651 684 719 738	MIN JULY 416 468 512 561 646 673 673	MEAN 446 496 536 582 667 699 716	MAX 626 634 547 556 518 565 586	MIN AUGUST 527 458 278 418 434 434 490 548	MEAN 592 582 415 494 464 530	MAX 459 529 565 534 527 602 662	MIN SEPTEMBH 340 459 423 455 471 516 602	MEAN ER 405 504 507 510 501 501 540 641
DAY 1 2 3 4 5 6 7 8	MAX 577 567 505 555 555 386 326	MIN JUNE 527 504 484 488 518 373 261 269	MEAN 544 522 496 504 545 462 309	MAX 468 513 573 651 684 719 738 768	MIN JULY 416 468 512 561 646 673 679 715	MEAN 446 496 536 536 567 667 699 716 741	MAX 626 634 547 556 518 565 586 582	MIN AUGUST 527 458 278 418 434 434 490 548 527	MEAN 592 582 415 494 464 530 569	MAX 459 565 534 527 602 662 730	MIN SEPTEMBI 340 459 423 455 471 516 602 662	MEAN ER 405 504 507 510 501 540 641 707
DAY 1 2 3 4 5 6 7 8	MAX 577 567 505 518 555 553 386 326	MIN JUNE 527 504 484 488 518 373 261 261 267	MEAN 544 522 496 504 545 462 309 305	MAX 468 513 573 651 684 719 738 768 762	MIN JULY 416 468 512 561 646 673 679 715 552	MEAN 446 496 536 582 667 699 716 741 741	MAX 626 634 547 556 518 565 586 582 582	MIN AUGUST 527 458 278 418 434 434 490 548 527 524	MEAN 592 582 415 494 464 530 569 560	MAX 459 565 534 527 602 662 730	MIN SEPTEMBE 340 459 423 455 471 516 602 662	MEAN ER 405 504 507 510 501 540 641 707
DAY 1 2 3 4 5 6 7 8 9	MAX 577 567 505 518 555 553 386 326 288	MIN JUNE 527 504 484 488 518 373 261 269 269 269	MEAN 544 522 496 504 545 462 309 305 275 209	468 513 573 651 684 719 738 768 763 748	MIN JULY 416 468 512 561 646 673 679 715 552 546	MEAN 446 496 536 582 667 699 716 741 731 678	MAX 626 634 547 556 518 565 586 582 594 630	MIN AUGUST 527 458 278 418 434 434 490 548 527 548 527 524 516	MEAN 592 582 415 494 464 530 569 560 559 560	459 529 565 534 527 602 662 730 	MIN SEPTEMBR 340 459 423 455 471 516 602 662 	MEAN ER 405 504 507 510 501 501 540 641 707
DAY 1 2 3 4 5 6 7 8 9 10	MAX 577 505 518 555 326 288 326 288 326	MIN JUNE 527 504 484 488 518 373 261 269 267 288	MEAN 544 522 496 504 545 462 309 305 275 309	468 513 573 651 684 719 738 768 763 748	MIN JULY 416 468 512 561 646 673 679 715 552 546	MEAN 446 496 536 582 667 699 716 741 731 678	MAX 626 634 547 556 518 565 586 586 582 594 630	MIN AUGUST 527 458 278 418 434 434 490 548 527 524 516	MEAN 592 582 415 494 464 530 569 560 559 581	459 529 565 534 527 602 662 730 	MIN SEPTEMBR 340 459 423 455 471 516 602 662 	MEAN ER 405 504 507 501 540 641 707
DAY 1 2 3 4 5 6 7 8 9 10 11	MAX 577 505 518 555 326 326 288 326 326 3356	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326	MEAN 544 522 496 504 545 462 309 305 275 309 341	MAX 468 513 573 651 684 719 738 768 763 748 772	MIN JULY 416 468 512 561 646 673 679 715 552 546 731	MEAN 446 496 536 582 667 699 716 741 731 678 750	MAX 626 634 547 556 518 565 586 586 586 582 594 630 637	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527	MEAN 592 582 415 494 464 530 569 560 559 581 580	459 529 565 534 527 602 662 730 	MIN SEPTEMBI 340 459 423 455 471 516 602 662 662 	MEAN ER 405 504 507 510 511 707
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 577 567 518 555 553 386 326 288 326 326 336 401	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347	MEAN 544 522 496 504 545 462 309 305 275 309 305 275 309 341 376	MAX 468 513 573 651 684 719 738 768 763 748 772 778	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724	MEAN 446 496 536 582 667 699 716 741 731 678 750 760	MAX 626 634 547 556 518 565 582 594 630 637 649	MIN AUGUST 527 458 278 418 418 434 434 490 548 527 524 516 527 529	MEAN 592 582 415 494 464 530 569 569 560 559 581 580 596	459 529 565 534 527 602 662 730 	MIN SEPTEMBE 340 459 423 455 471 516 602 662 662 	MEAN 405 504 501 501 501 540 641 707
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 577 567 505 555 553 386 326 288 326 326 356 401 441	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 288 326 347 401	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604	459 529 565 534 527 602 730 	MIN SEPTEMBH 340 459 423 455 471 516 602 662 	MEAN ER 405 504 507 510 501 540 641 707
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 577 567 505 518 555 386 326 326 326 326 401 441 482	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460	MAX 468 513 573 651 684 719 738 768 768 763 748 772 778 779 760	MIN JULY 416 468 561 646 673 679 715 552 546 731 724 744 744	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 767 754	MAX 626 634 547 556 518 565 586 586 582 594 630 637 649 636 651	MIN AUGUST 527 458 278 418 434 434 490 548 527 524 516 527 529 549 526	MEAN 592 582 415 494 464 530 569 569 569 559 581 580 596 604	MAX 459 529 565 534 527 602 662 730 844	MIN SEPTEMBI 340 459 423 455 471 516 602 662 637	MEAN 405 504 507 510 501 540 641 707 807
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 577 567 505 518 555 386 326 288 326 326 326 401 441 482 496	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 460	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 760 766	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688	MIN AUGUST 527 458 278 418 434 434 490 548 527 524 516 527 529 549 526 561	MEAN 592 582 415 494 464 530 569 569 569 581 580 596 604 604 612	MAX 459 529 565 534 527 602 662 730 844 873	MIN SEPTEMBI 340 459 423 455 471 516 602 662 662 662 662 662 662 662 662 66	MEAN 405 504 507 510 501 540 641 707 807 782
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 577 567 505 518 555 553 386 326 326 326 326 326 401 441 482 496	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 271	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 745	MEAN 446 496 582 667 699 716 741 731 678 750 760 760 767 754 756	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688	MIN AUGUST 527 458 278 418 418 434 490 548 527 524 516 527 529 549 526 561	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604 604 604 612	MAX 459 565 534 527 602 662 730 844 873 857	MIN SEPTEMBE 340 459 423 455 471 516 602 662 662 662 662 662 662 662 663 665 637 615	MEAN 405 504 501 501 540 641 707 777 782 722
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 17 16 16 16 16 16 16 16 16 16 16	MAX 577 567 505 518 555 386 326 288 326 288 326 288 326 288 326 401 441 482 496 402	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 371	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 766 788	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 636 651 688 624	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 526	MEAN 592 582 415 494 464 530 569 560 559 581 580 595 581 580 596 604 604 612 591	MAX 459 529 565 534 527 602 730 844 873 857 857	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407	MEAN SR 405 507 510 501 540 641 701 807 782 732 732
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 577 567 505 518 555 386 326 326 326 326 401 442 496 402 371	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352	MAX 468 513 573 651 684 719 738 768 768 763 748 779 760 760 766 788 809	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 767 754 756 772 788	MAX 626 634 547 556 518 565 586 586 582 594 630 637 649 636 651 688 624 682	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 536	MEAN 592 582 415 494 464 530 569 569 569 569 581 580 596 604 612 591 612	MAX 459 529 565 534 527 602 662 730 844 873 857 444	MIN SEPTEMBR 340 459 423 455 471 516 602 662 662 662 663 615 407 351	MEAN 405 504 507 510 510 540 641 707 807 782 732 409
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 577 567 505 518 555 386 326 288 326 326 356 401 441 482 496 402 371 366	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 460 383 352 355	MAX 468 513 573 651 684 719 738 763 748 779 760 766 766 788 809 809	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 743 755 766 789	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 752 788 800	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 651 688 624 682 682 682	MIN AUGUST 527 458 278 418 434 434 490 548 527 524 516 527 529 549 526 561 546 536 536 570	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604 604 604 612 591 612 623	MAX 459 529 565 534 527 602 662 730 662 730 844 873 857 444 439	MIN SEPTEMBE 340 459 423 455 471 516 602 662 662 662 662 662 662 662 662 66	MEAN 405 504 501 501 540 641 707 807 782 732 409 400
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 577 565 518 555 553 386 326 326 326 401 441 482 496 402 371 366 398	MIN JUNE 527 504 484 488 518 373 261 267 288 326 347 401 439 402 371 338 343 343 363	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 355 355 378	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 766 788 809 818	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 769 445	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 682 688 624 682 688 693	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 529 529 526 561 526 561 546 536 536 536	MEAN 592 582 415 494 464 530 569 560 559 581 580 595 604 604 612 591 612 623 637	MAX 459 529 565 534 527 602 662 730 844 873 857 444 873 857 444 9491	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385	MEAN 405 507 510 501 540 641 707 807 782 732 409 409 438
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 577 567 518 555 553 386 326 326 326 326 401 441 482 496 402 371 366 402 371 368 427	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 352 378 403	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 766 788 809 809 818 727	MIN JULY 416 468 551 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735 677	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 682 682 682 682 683 685	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 524 516 527 529 529 526 561 546 536 536 591 562	MEAN 592 582 415 494 464 530 569 560 559 581 580 595 604 604 612 591 612 623 637 638	MAX 459 529 565 534 527 602 662 730 844 873 857 444 873 857 444 91 586	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491	MEAN 405 504 507 510 540 641 707 807 782 732 409 409 438 540
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 577 567 505 518 555 553 386 326 326 326 401 442 496 402 371 366 402 371 366 402 371 368 427 517	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 460 467 383 352 355 378 403 427	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 766 788 809 809 809 809 818 727	MIN JULY 416 468 551 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 789 445 509	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 735 677 521	MAX 626 634 547 556 518 565 586 586 582 594 630 637 649 636 651 688 624 688 693 685 761	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 546 561 526 561 546 536 570 591 562 626	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604 612 591 612 623 637 638 702	MAX 459 529 565 534 527 602 662 662 662 730 844 873 857 444 873 857 444 439 491 586 613	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581	MEAN 405 504 507 510 540 641 707 807 782 732 409 408 540 535 540 541 541 541 741 752 752 752 752 752 752 752 752
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 577 567 505 518 555 386 326 326 326 326 401 441 482 496 402 371 366 398 427 551	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 467 383 352 355 378 403 427 538	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 760 766 788 809 809 809 818 727 614 632	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 735 677 521 607	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 631 688 624 688 624 682 688 693 685 761 754	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 536 551 546 536 570 591 562 626 620	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604 604 612 591 612 623 637 637 638 702 695	MAX 459 529 565 534 527 602 662 730 730 730 730 730 730 730 730 730 730	MIN SEPTEMBE 340 459 423 455 471 516 602 662 662 662 662 662 662 662 662 66	MEAN 405 504 507 510 501 540 641 707 807 782 732 409 400 438 540 5540 555 630
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MAX 577 565 518 555 553 386 326 288 326 326 401 442 496 402 371 366 402 371 366 402 371 366 402 371 557 517 557	MIN JUNE 527 504 484 488 518 373 261 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 809 818 727 614 632 604	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 789 445 509 439 576 488	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735 677 521 607 521	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 688 693 685 761 754 688	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 524 516 527 529 549 549 549 546 561 546 536 561 546 536 561 562 626 620 626 620 623	MEAN 592 582 415 494 464 530 569 560 559 581 580 595 604 604 612 591 612 623 637 638 702 695 633	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 439 491 586 613 643 707	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643	MEAN 405 507 510 507 510 641 707 807 782 732 409 409 409 438 540 595 630 688
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MAX 577 567 505 518 555 386 326 326 326 401 442 496 402 371 366 402 371 366 402 371 366 517 551 567 551	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 512 512 512 512	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 467 383 352 3578 403 427 538 576 596	MAX 468 513 573 651 684 719 738 768 763 748 779 760 766 788 809 809 809 809 818 727 614 632 604 528	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 789 445 509 439 576 488 479	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 735 677 521 607 521 607 5498	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 693 685 761 754 688 677	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 524 516 527 529 549 526 561 546 5561 546 536 570 591 562 626 620 563	MEAN 592 582 415 494 464 530 569 569 581 580 596 604 612 623 637 638 702 638 702 695 638	MAX 459 529 565 534 527 602 662 662 662 730 844 873 857 444 439 491 586 613 643 707 749	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643	MEAN 405 504 507 510 540 641 707 807 782 732 409 400 438 540 535 630 638 515
DAY 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	MAX 577 567 505 518 555 386 326 288 326 326 401 441 482 496 402 371 366 398 427 551 567 551	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 596 596	MAX 468 513 573 651 684 719 738 768 763 748 772 778 772 778 779 760 766 788 809 809 818 727 614 632 604 528 548	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 735 677 521 607 548 498 521	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 688 693 685 761 754 688 677	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 556 561 546 536 570 59 526 262 620 563 503 503	MEAN 592 582 415 494 464 530 569 569 581 580 596 604 612 623 637 638 702 633 598 633 599	MAX 459 529 565 534 527 602 662 730 844 873 857 444 439 491 586 613 643 707 749 797	MIN SEPTEMBR 340 459 423 455 471 516 602 662 615 407 351 365 385 491 581 613 643 643 646 733	MEAN 405 504 507 510 510 540 641 707 782 732 409 400 438 540 595 630 688 540
DAY 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	MAX 577 567 505 518 555 386 326 326 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 467 383 352 355 378 403 427 538 576 596 627	MAX 468 513 573 651 684 719 738 768 763 748 779 760 766 788 809 809 818 727 614 632 604 528 548	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 455 509	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 735 677 521 607 548 498 521	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 631 688 624 688 693 685 761 754 688 693 685	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 551 546 536 551 546 536 562 620 563 501 476	MEAN 592 582 415 494 464 530 569 581 580 596 604 604 612 591 612 623 637 638 702 695 633 598 559	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 439 491 586 613 643 707 749 797	MIN SEPTEMBR 340 459 423 455 471 516 602 662 662 662 662 662 662 662 662 66	MEAN 507 507 500 501 540 640 641 707 807 782 732 400 438 540 638 740 648 715 766
DAY 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	MAX 577 567 518 555 518 326 326 326 326 401 442 496 402 371 366 401 442 496 402 371 368 517 551 587 626 657 687	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603 623	MEAN 544 522 402 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 627 654	MAX 468 513 573 651 684 719 738 768 763 748 763 748 772 778 779 760 766 766 788 809 809 818 727 614 632 604 632 804 805 818 727	MIN JULY 416 468 552 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735 677 521 607 521 607 548 498 521 509	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 682 688 693 685 761 754 688 677 672 685	MIN AUGUST 527 458 418 434 490 548 527 524 516 527 524 516 527 529 529 526 561 546 536 561 546 536 591 562 626 620 591 562 626 620 591 562 521 521	MEAN 592 582 415 494 464 530 569 560 559 581 580 595 604 604 612 591 612 623 637 638 702 695 638 599 608	MAX 459 529 565 534 527 602 662 730 844 873 857 444 873 857 444 873 857 444 91 586 613 643 707 749 797 807	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643 643 646 733 763	MEAN 405 504 507 510 540 641 707 807 782 732 409 409 409 438 540 595 630 685 716 787
DAY 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	MAX 577 567 505 518 555 386 326 326 326 401 442 496 402 371 366 398 427 517 551 587 626 57 687 690	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603 623 651	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 467 383 352 355 378 403 427 538 576 596 627 654 674	MAX 468 513 573 651 684 719 738 768 763 748 779 760 766 788 809 809 818 727 614 632 604 528 548 530	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495 494 510	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 755 677 521 607 548 498 521 509 533	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 693 685 761 754 688 677 672 685 611	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 524 516 527 529 549 526 561 546 536 570 591 562 626 620 563 501 476 521 563	MEAN 592 582 415 494 464 530 569 569 560 559 581 580 596 604 612 612 623 637 638 702 633 595 633 559 608 559	MAX 459 529 565 534 527 602 662 730 730 730 857 444 439 491 586 613 643 707 749 797 807 790	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643 643 643 643 643 643 643 643 64	MEAN 405 504 501 510 510 540 641 707 807 782 732 409 400 438 540 595 630 688 716 787 766
DAY 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	MAX 577 567 505 518 555 386 326 326 326 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657 687 690 370	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603 623 651 526	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 627 654 674 662	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 818 727 614 632 604 528 548 548	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 789 445 509 439 576 488 445 509 439 576 488 445 509	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735 677 521 607 548 498 521 509 533 524	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 624 688 682 688 693 685 761 754 688 688 677 672 672 685 611 578	MIN AUGUST 527 458 418 434 490 548 527 524 516 527 529 529 529 526 561 526 561 546 5360 591 562 626 620 501 476 521 562 626 620 521	MEAN 592 582 415 494 464 530 559 581 580 595 581 580 596 604 612 591 612 623 637 638 702 695 633 598 559 608 555	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 873 857 444 439 491 586 613 643 707 749 797 807 790 617	MIN SEPTEMBR 340 459 423 455 471 516 602 662 637 615 365 385 491 581 613 643 643 643 643 643 643 643 643 643 64	MEAN 405 507 510 501 540 641 707 807 782 732 409 400 438 540 638 595 630 688 715 766 787 733 420
DAY 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	MAX 577 567 505 518 555 553 386 326 326 326 401 442 496 402 371 366 402 371 366 517 551 551 551 551 567 626 657 690 703 526	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 439 402 371 338 343 363 390 411 517 542 530 603 623 651 526 390	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 627 654 674 674 662	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 809 809 809 818 727 614 632 604 4528 548 548 530 553 577 613	MIN JULY 416 468 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495 494 510 505 516	MEAN 446 496 536 582 667 699 716 731 678 750 760 760 767 754 756 772 788 800 735 677 521 607 548 498 521 509 533 524 565	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 637 649 636 651 688 693 685 685 761 754 688 677 672 685 611 758	MIN AUGUST 527 458 418 434 490 548 527 524 516 527 524 516 527 529 546 561 546 561 546 536 570 591 562 626 620 563 501 476 521 562 521 563 501 572 522 522 526 531 562 521 562 521 562 563 501 572 521 562 563 501 572 563 501 572 563 501 572 563 501 572 563 501 575 563 577 572 576 576 577 577 577 577 577 577 577 577	MEAN 592 582 415 494 464 530 569 560 559 581 580 596 604 612 591 612 623 637 638 702 638 702 638 559 608 559 559 608 585 553	MAX 459 529 565 534 527 602 662 730 844 873 857 444 873 857 444 439 491 586 613 643 707 749 797 807 790 617	MIN SEPTEMBR 340 459 423 455 471 516 602 62 637 615 407 351 365 385 491 581 613 643 643 643 643 643 763 617 378 317	MEAN 405 504 507 510 540 641 707 807 782 732 409 409 408 540 638 715 766 787 753 420 367
DAY 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	MAX 577 567 505 518 555 386 326 326 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657 687 620 703 526 6433	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603 623 651 526 341	MEAN 544 522 496 504 545 462 309 305 375 309 341 376 420 460 467 383 352 355 378 403 427 538 576 596 627 654 674 662 439 422	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 809 809 818 727 614 632 604 528 548 530 553 553 577 613	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495 495	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 755 677 521 607 548 498 521 509 533 524 565 579	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 693 685 761 754 688 693 685 761 754 685 611 578 637 637 639 635 637	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 561 546 561 546 561 546 561 546 561 546 561 524 350 562 626 620 563 501 476 521 476 521 522 522 526 520 522 526 520 526 527 526 527 526 527 527 529 526 527 529 526 527 529 526 527 529 526 527 529 526 527 527 529 526 527 524 527 524 527 524 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 526 527 526 526 526 527 526 526 526 527 526 526 526 527 526 526 526 526 527 526 526 526 527 526 526 526 526 526 526 526 526 527 526 526 526 527 526 526 527 526 526 526 527 526 526 526 527 526 526 527 526 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 527 526 527 526 526 527 526 527 526 527 526 527 526 527 527 526 527 526 527 527 526 527 527 526 527 527 526 527 526 527 527 527 527 527 526 527 527 526 527 527 527 527 527 527 527 527 527 527	MEAN 592 582 415 494 464 530 569 569 581 580 596 604 612 612 623 637 638 702 633 598 559 608 555 633 598 555 608	MAX 459 529 565 534 527 602 662 730 844 873 857 444 439 491 586 613 643 707 749 797 807 797 807 790 617 412	MIN SEPTEMBI 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643 643 643 643 643 643 643 643 733 763 617 378 397	MEAN 405 504 501 510 510 510 540 641 707 782 732 409 400 438 540 595 630 688 715 766 630 688 715 763 420 367 407
DAY 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	MAX 577 567 505 518 555 386 326 326 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657 690 703 526 433 526 433 526	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 439 402 371 338 343 363 390 411 517 542 530 603 623 651 526 390 411 	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 596 627 654 674 662 439 422 	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 818 727 614 528 548 548 530 553 577 613 614	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 445 509 439 576 488 479 495 494 510 505 516 534 528	MEAN 446 496 536 582 667 699 716 741 731 678 750 760 760 767 754 756 772 788 800 735 677 521 607 548 498 521 509 533 545 579 571	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 688 693 685 761 754 688 688 693 685 761 754 688 688 677 672 672 638 631	MIN AUGUST 527 458 418 434 490 548 527 524 516 527 529 529 526 561 546 536 561 546 536 561 546 536 561 562 626 620 620 591 562 626 620 620 591 562 626 620 501 476 521 521 522 522 522 522 522 522 522 522	MEAN 592 582 415 494 464 530 559 581 580 596 604 612 591 612 623 637 638 702 695 633 598 559 608 559 633 598 559 608 555 342 553 429	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 873 857 444 873 857 444 873 857 444 873 857 613 643 707 790 617 412 418	MIN SEPTEMBI 340 459 423 455 471 516 602 662 637 615 365 385 491 581 613 643 643 643 643 643 643 643 643 643 64	MEAN 405 507 510 501 540 640 641 707 807 782 409 409 438 540 6388 715 766 787 766 787 762 409 438 540 648 745 740 648 740 740 740 740 740 740 740 740
DAY 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 VIIII	MAX 577 567 505 518 555 386 326 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657 690 703 526 433 703	MIN JUNE 527 504 484 488 518 373 261 269 267 288 326 347 401 439 402 371 338 3363 390 411 517 542 530 603 623 661 526 390 411 	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 378 403 427 538 576 627 654 677 654 672 627 654	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 818 727 614 632 604 528 548 548 530 553 577 613 614 614	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 744 743 755 766 789 445 509 439 576 488 445 509 439 576 488 479 495 494 510 505 516 516 534 528	MEAN 446 496 536 582 667 699 716 731 678 750 760 760 754 756 772 788 800 735 677 521 607 548 498 521 509 533 524 565 579 571	MAX 626 634 547 556 518 565 586 582 594 630 637 649 636 651 688 624 688 688 693 685 761 754 688 688 693 685 761 754 688 688 693 685 761 754 636 637 638 635 761 754 638 635 638 635 761 754 638 635 638 635 638 635 638 635 638 635 635 638 635 638 635 638 635 635 635 635 635 635 635 635 635 635	MIN AUGUST 527 458 418 434 490 548 527 524 516 527 529 529 526 561 546 536 561 546 536 561 546 536 561 542 562 626 620 501 476 521 562 626 620 501 476 521 521 522 522 522 522 522 522 522 522	MEAN 592 582 415 494 464 530 559 581 580 595 581 580 595 604 604 612 591 612 623 637 638 702 695 633 598 559 608 555 553 429 502 553 553 555 555 555 555 555 555 555 55	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 873 857 444 873 857 444 873 857 444 873 857 843 613 643 707 790 617 412 418 418 418 418 418 418 418 418 418 418	MIN SEPTEMBI 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643 643 643 643 643 643 643 643 64	MEAN 405 504 501 501 540 640 640 640 640 640 640 640 6
DAY 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 MONTH	MAX 577 567 505 518 553 386 326 288 326 326 401 441 482 496 402 371 366 398 427 517 551 587 626 657 687 626 657 687 626 433 703	MIN JUNE 527 504 488 518 373 261 269 267 288 326 347 401 402 371 338 343 363 390 411 517 542 530 603 623 621 526 390 411 261	MEAN 544 522 496 504 545 462 309 305 275 309 341 376 420 460 467 383 352 355 378 403 427 538 576 596 627 654 674 662 439 422 461	MAX 468 513 573 651 684 719 738 768 763 748 772 778 779 760 766 788 809 809 809 818 727 614 632 604 528 548 548 530 553 557 613 613 614 818	MIN JULY 416 468 512 561 646 673 679 715 552 546 731 724 744 744 743 755 766 789 439 576 488 479 495 439 576 488 479 495 510 505 516 516 505 516 516 528 416	MEAN 446 496 582 667 699 716 741 731 678 750 760 767 754 756 772 788 800 755 677 521 607 548 498 521 509 533 524 565 579 571 640	MAX 626 634 547 556 518 565 586 630 637 649 630 637 649 636 651 688 624 688 693 685 761 754 688 693 685 754 685 611 578 552 638 408 761	MIN AUGUST 527 458 278 418 434 490 548 527 524 516 527 529 549 526 561 546 561 546 561 546 561 546 561 546 561 524 562 626 620 563 501 476 521 562 626 620 563 501 476 521 478 522 524 522 526 526 526 527 529 526 527 529 526 526 527 529 526 527 529 526 527 529 526 527 529 526 527 529 526 527 529 526 527 529 526 527 529 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 524 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 526 527 526 526 526 526 527 526 526 526 527 526 526 526 526 526 526 527 526 526 526 526 527 526 526 526 527 526 526 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 526 526 527 529 526 526 527 529 526 527 529 526 526 527 527 526 527 527 527 526 527 527 526 527 527 527 527 527 527 527 527 527 527	MEAN 592 582 415 494 464 530 569 569 581 580 596 604 612 623 637 638 702 623 637 638 702 633 598 559 608 555 3475 429 569	MAX 459 529 565 534 527 602 730 844 873 857 444 873 857 444 873 857 444 873 857 444 439 491 586 613 643 707 797 807 797 807 797 807 797 807 790 617 412 418 873	MIN SEPTEMBI 340 459 423 455 471 516 602 662 637 615 407 351 365 385 491 581 613 643 643 643 643 643 643 643 643 643 64	MEAN 405 507 510 501 540 641 707 807 782 732 409 400 438 540 688 715 766 787 766 787 767 767 767 762 400 595 630 648 715 766 787 787 755 787 755 787 787 755 787 755 582

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

SPECIFIC CONDUCTANCE FROM RIGHT INTAKE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	Z
1	724	673	694	858	817	840	719	667	693			
2	758	710	732	856	829	844	728	709	721	720	602	
4	752	724	743	863	803	839	739	725	755	729	726	739
5	759	736	749	824	752	798	774	738	760	755	732	747
e	772	744	760	790	701	756	770	751	767	760	740	750
о 7	770	744	762	760	721	736	772	751	767	709	740	720
2	905	745	700	769	715	740	203	775	701	707	734	765
9	806	750	783	757	728	746	791	748	775	896	740	788
10	789	745	774	757	658	697	748	524	618	1320	896	1130
11	817	761	793	684	641	658	589	522	558	1320	1230	1280
12	799	761	793	685	644	663	592	578	583	1320	1220	1260
13	811	770	797	689	648	667	639	568	605	1280	1210	1240
14	826	788	811	692	647	671	679	632	656	1240	1160	1200
15	835	785	814	695	672	683	696	660	680	1180	1020	1130
16	820	766	707	720	695	710	71 2	677	697	1020	072	001
17	702	690	797	720	707	712	713	659	695	1020	9/3	951
18	759	676	719	733	716	740	739	681	703	948	899	910
19	783	719	764	845	772	807	739	606	693	921	879	892
20	751	717	739	852	811	835	606	561	582	927	870	893
01	760	710	741	0.47	01.0	020	600	F 0 7	504		840	969
21	760	718	741	84/	810	830	600	567	594	889	849	203
22	799 917	752	782	839	813	830	692	501	645	1090	860	064
23	826	775	904	937	915	826	682	647	667	1200	1090	1190
25	828	792	812	854	818	835	695	546	630	1410	1190	1260
26	820	000	826	022	701	004	FCO	504	500	1 4 1 0	1100	1000
20	039	808	820 010	833 703	781	804 690	560	504	520	1100	1080	11200
27	853	801	818	/83	565	680	208	530	557	1080	1080	1020
20	861	839	853	682	555	671				1000	970	964
30	856	825	842	675	648	661				930	891	899
31	848	805	829							892	870	881
MONTH	861	673	780	863	565	753	803	504	670	1410	692	982
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	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
DAY 1	MAX 888	MIN FEBRUARY 848	MEAN 867	MAX 813	MIN MARCH 782	MEAN 800	MAX 584	MIN APRIL 548	MEAN 571	MAX 318	MIN MAY 271	MEAN 292
DAY 1 2	MAX 888 886	MIN FEBRUARY 848 850	MEAN 867 868	MAX 813 804	MIN MARCH 782 784	MEAN 800 796	MAX 584 632	MIN APRIL 548 570	MEAN 571 615	MAX 318 332	MIN MAY 271 315	MEAN 292 325
DAY 1 2 3	MAX 888 886 917	MIN FEBRUARY 848 850 868	MEAN 867 868 894	MAX 813 804 801	MIN MARCH 782 784 696	MEAN 800 796 763	MAX 584 632 652	MIN APRIL 548 570 622	MEAN 571 615 640	MAX 318 332 350	MIN MAY 271 315 318	MEAN 292 325 331
DAY 1 2 3 4	MAX 888 886 917 884 801	MIN FEBRUARY 848 850 868 860 855	MEAN 867 868 894 873	MAX 813 804 801 785 531	MIN MARCH 782 784 696 467	MEAN 800 796 763 541	MAX 584 632 652 665	MIN APRIL 548 570 622 624	MEAN 571 615 640 646	MAX 318 332 350 336	MIN MAY 271 315 318 316 232	MEAN 292 325 331 327 242
DAY 1 2 3 4 5	MAX 888 886 917 884 891	MIN FEBRUARY 848 850 868 860 855	MEAN 867 868 894 873 873	MAX 813 804 801 785 531	MIN MARCH 782 784 696 467 444	MEAN 800 796 763 541 474	MAX 584 632 652 665 678	MIN APRIL 548 570 622 624 624	MEAN 571 615 640 646 658	MAX 318 332 350 336 353	MIN MAY 271 315 318 316 333	MEAN 292 325 331 327 343
DAY 1 2 3 4 5 6	MAX 888 886 917 884 891 884	MIN FEBRUARY 848 850 868 860 855 844	MEAN 867 868 894 873 873 856	MAX 813 804 801 785 531 500	MIN MARCH 782 784 696 467 444 479	MEAN 800 796 763 541 474 488	MAX 584 632 652 665 678 672	MIN APRIL 548 570 622 624 624 624	MEAN 571 615 640 646 658 654	MAX 318 332 350 336 353 376	MIN MAY 271 315 318 316 333 350	MEAN 292 325 331 327 343 363
DAY 1 2 3 4 5 6 7	MAX 888 886 917 884 891 884 884 849	MIN FEBRUARY 848 850 868 860 855 844 823	MEAN 867 868 894 873 873 856 839	MAX 813 804 801 785 531 500 	MIN MARCH 782 784 696 467 444 479 	MEAN 800 796 763 541 474 488 	MAX 584 632 652 665 678 672 708	MIN APRIL 548 570 622 624 624 624 624 661	MEAN 571 615 640 646 658 654 684	MAX 318 332 350 336 353 376 399	MIN MAY 271 315 318 316 333 350 368	MEAN 292 325 331 327 343 363 384
DAY 1 2 3 4 5 6 7 8	MAX 888 886 917 884 891 884 884 849 823	MIN FEBRUARY 848 850 868 860 855 844 823 793	MEAN 867 868 873 873 873 856 839 807	MAX 813 804 801 785 531 500 587	MIN MARCH 782 784 696 467 444 479 548	800 796 763 541 474 488 574	MAX 584 632 655 678 678 708 709	MIN APRIL 548 570 622 624 624 624 661 662	MEAN 571 615 640 646 658 654 684 690	MAX 318 332 350 336 353 376 399 445	MIN MAY 271 315 318 316 333 350 368 395	MEAN 292 325 331 327 343 363 384 412
DAY 1 2 3 4 5 6 7 8 9 9	MAX 888 886 917 884 891 884 884 849 823 829	MIN FEBRUARY 848 850 868 860 855 844 823 793 801	MEAN 867 868 894 873 873 856 839 807 815	MAX 813 804 801 785 531 500 587 658	MIN MARCH 782 784 696 467 444 479 548 583	800 796 763 541 474 488 574 632	MAX 584 632 652 665 678 672 708 709 718	MIN APRIL 548 570 622 624 624 624 624 661 662 676	MEAN 571 615 640 646 658 654 684 684 690 702	MAX 318 332 350 336 353 376 399 445 486	MIN MAY 271 315 318 316 333 350 368 395 445	MEAN 292 325 331 327 343 363 384 412 457
DAY 1 2 3 4 5 6 7 8 9 10	MAX 888 886 917 884 891 884 849 823 829 844	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817	MEAN 867 868 894 873 873 856 839 807 815 831	MAX 813 804 801 785 531 500 587 658 679	MIN MARCH 782 784 696 467 444 479 548 583 638	800 796 763 541 474 488 574 632 663	MAX 584 632 652 665 678 672 708 709 718 715	MIN APRIL 548 570 622 624 624 624 624 661 662 676 675	MEAN 571 615 640 646 658 654 654 654 690 702 690	MAX 318 332 350 336 353 376 399 445 486 556	MIN MAY 271 315 318 316 333 350 368 395 445 486	MEAN 292 325 331 327 343 363 384 412 457 519
DAY 1 2 3 4 5 6 7 8 9 10 11	MAX 888 886 917 884 891 884 849 823 829 844 857	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828	MEAN 867 868 894 873 873 856 839 807 815 831 845	MAX 813 804 801 785 531 500 587 658 679 710	MIN 782 784 696 467 444 479 548 583 638 655	800 796 763 541 474 488 574 632 663 688	MAX 584 632 652 665 678 672 708 709 718 715	MIN APRIL 548 570 622 624 624 624 624 624 661 662 675 681	MEAN 571 615 640 646 658 654 654 654 690 702 690 702	MAX 318 332 350 336 353 376 399 445 486 556 593	MIN MAY 271 315 318 316 333 350 368 395 445 486 556	MEAN 292 325 331 327 343 363 384 412 457 519 580
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 888 886 917 884 891 884 849 823 823 823 823 824 857 849	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 817 828 764	MEAN 867 868 894 873 873 856 839 807 815 831 845 827	MAX 813 804 801 785 531 500 587 658 679 710 708	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 675	MEAN 800 796 763 541 474 488 574 632 663 688 695	MAX 584 632 665 678 672 708 709 718 715 715 707	MIN APRIL 548 570 622 624 624 661 662 676 675 681 675	MEAN 571 615 640 646 658 654 684 690 702 690 700 691	MAX 318 332 350 336 353 376 399 445 486 556 593 599	MIN MAY 271 315 318 316 333 350 368 395 486 556 571	MEAN 292 325 331 327 343 363 384 412 457 519 580 590
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 888 886 917 884 891 884 823 829 844 857 849 792	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 817 817 828 764 751	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773	MAX 813 804 801 785 531 500 587 658 679 710 708 691	MIN MARCH 782 784 696 467 444 479 548 583 638 638 638 635 675 655	MEAN 800 796 763 541 474 488 574 632 663 688 695 674	MAX 584 632 655 678 672 708 709 718 715 715 707 707 707	MIN APRIL 548 570 622 624 624 624 661 662 676 675 681 675 674	MEAN 571 615 640 646 658 654 684 690 702 690 702 691 691 694	MAX 318 332 350 336 353 376 399 445 486 556 556 593 599 627	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 556 571 546	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 888 886 917 884 891 884 849 823 829 844 857 849 857 849 857 849 857 849	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 202	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 675 656 656 656 671	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 695 674 695	MAX 584 632 655 678 709 718 709 718 715 715 707 707 707 732 732	MIN APRIL 548 570 622 624 624 624 661 662 675 675 681 675 674 665 675	MEAN 571 615 640 646 658 654 684 690 702 690 702 690 701 694 702 702	MAX 318 332 350 336 353 376 399 445 486 556 593 599 627 576 576	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 556 5571 546 228	MEAN 292 325 331 327 343 363 384 412 457 519 580 598 396 598
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 888 886 917 884 891 884 849 823 829 844 857 849 857 849 857 848 857 849 828 826	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806 816	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 675 655 655 656 671 678	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 693 695	MAX 584 632 655 678 672 708 709 718 715 715 715 707 707 707 732 728	MIN APRIL 548 570 622 624 624 624 661 662 675 681 675 681 675 681 675 681 675 681 675 681 675 681 675 681 674 685 674 685 674 685 674 675 685 674 685 675 685 675 685 675 685 675 685 675 685 675 685 675 685 675 685 675 685 675 685 675 675 685 675 675 675 675 675 675 675 67	MEAN 571 615 640 646 658 654 684 690 702 690 700 691 700 694 702 672	MAX 318 332 350 336 353 376 399 445 486 556 593 599 627 576 275	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 556 556 556 571 546 228 251	MEAN 292 325 331 327 343 363 384 412 457 519 580 598 396 261
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 888 886 917 884 891 884 849 823 829 844 857 849 857 849 826 826 811	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 903	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806 816	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728	MIN 782 784 696 467 444 479 548 583 638 655 675 655 655 656 656 671 678 673	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 693 695 702	MAX 584 632 655 678 672 708 709 718 715 715 707 707 707 707 732 728 613	MIN APRIL 548 570 622 624 624 624 624 661 662 675 681 675 681 675 674 668 596 551	MEAN 571 615 640 646 658 654 684 690 702 690 700 691 700 694 702 672 586	MAX 318 332 350 336 353 376 399 445 486 556 593 599 627 576 275 266	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 556 556 5571 546 228 251 258	MEAN 292 325 331 327 343 363 384 412 457 519 580 598 396 261 264
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17 10	MAX 888 886 917 884 891 884 823 829 844 857 849 792 828 826 811 823 826 811	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806 816 790 810	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 705 728 747	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 656 675 656 671 678 673 704	MEAN 800 796 763 541 474 488 574 663 688 695 693 695 702 725	MAX 584 632 665 678 672 708 709 718 715 707 715 707 707 732 728 613 599	MIN APRIL 548 570 622 624 624 624 661 662 675 676 675 681 675 681 675 676 675 596 596	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 691 691 692 672 586	MAX 318 332 350 336 353 376 399 445 486 556 593 599 627 576 275 266 260	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 571 546 228 251 258 258	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 0	MAX 888 886 917 884 891 884 849 823 823 844 857 849 792 828 826 811 823 839	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 790 810 810	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 675 656 671 678 673 704 726	MEAN 800 796 763 541 474 488 574 632 663 695 674 695 702 725 744	MAX 584 632 665 678 672 708 709 718 715 715 707 707 707 707 702 728 613 599 639	MIN APRIL 548 570 622 624 624 661 662 675 681 675 681 675 674 668 551 530 599	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 694 702 672 586 556 621	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 275 266 260 261	MIN MAY 271 315 318 316 333 350 368 395 486 556 571 546 228 251 258 251 258 258 250	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 888 886 917 884 891 884 823 829 844 857 849 792 828 826 811 823 839 846	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 804 804	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 816 816 816 827	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 87	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 673 704 726 725	MEAN 800 796 763 541 474 488 574 632 663 695 674 695 702 725 744 740 709	MAX 584 632 655 678 672 708 709 718 715 707 707 732 728 613 599 639 639 639	MIN APRIL 548 570 622 624 624 661 662 676 675 681 675 681 675 674 668 596 551 530 599 622 522 522 530 599 622 522 522 530 539 530 539 530 539 530 539 530 539 530 539 530 530 530 530 530 530 530 530	MEAN 571 615 640 658 654 684 690 702 690 702 691 694 702 672 586 556 621 663	MAX 318 332 350 353 376 399 445 486 556 556 576 275 266 260 261 255	MIN MAY 271 315 318 316 333 350 368 395 445 546 228 256 258 251 258 258 250 249	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 264 260 255 252 252
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 888 886 917 884 891 884 823 829 844 857 849 792 828 826 811 823 839 846 828	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 798	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 816 827 810 816 827 817	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 673 704 726 725 731	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 693 695 702 725 744 740 798	MAX 584 632 655 678 672 708 709 718 715 707 707 732 728 613 599 639 685 715	MIN APRIL 548 570 622 624 624 624 661 662 676 675 681 675 681 675 674 668 596 551 530 599 622 508	MEAN 571 615 640 658 654 684 690 702 690 702 691 694 702 672 586 556 621 663 628	MAX 318 332 350 353 376 399 445 486 556 556 556 275 266 260 261 255 254	MIN MAY 271 315 318 316 333 350 368 395 445 546 571 546 228 251 258 250 249 252	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 264 260 255 252 252 253
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 12 13 14 19 20 21 10 10 11 12 13 14 15 10 10 10 10 10 10 10 10 10 10	MAX 888 886 917 884 891 884 823 829 844 857 849 792 828 826 811 823 839 846 828 846 828 846	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 798 819 9=-	MEAN 867 868 894 873 873 875 839 807 815 831 845 827 773 806 816 816 816 827 810 816 827 817 814	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 673 704 673 704 726 725 731 518	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 695 702 725 744 740 798 627	MAX 584 632 655 678 708 709 718 715 707 707 732 728 613 599 639 685 715 561	MIN APRIL 548 570 622 624 624 624 661 662 676 675 681 675 681 675 674 668 596 551 530 599 622 508 443	MEAN 571 615 640 646 658 654 684 690 702 690 702 691 694 702 672 586 556 621 663 628 501	MAX 318 332 350 353 376 399 445 486 556 556 575 266 275 266 261 255 254 261	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 571 546 228 258 251 258 250 249 252 252 252	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 264 265 255 252 253 255
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	MAX 888 886 917 884 891 884 849 823 829 844 857 849 844 857 849 828 826 811 823 839 846 828 846 848 846 848	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 793 804 798 819 758	MEAN 867 868 894 873 873 873 873 807 815 831 845 827 773 806 816 816 827 817 814 827	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765 566	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 675 675 675 675 675 675	MEAN 800 796 763 541 474 488 574 663 688 695 663 695 702 725 744 740 798 627 480	MAX 584 632 665 678 672 708 709 718 715 707 707 707 732 728 613 599 639 639 639 635 715 561 551 551	MIN APRIL 548 570 622 624 624 661 662 675 674 675 674 675 674 596 551 530 599 622 508 443 434	MEAN 571 615 640 646 658 654 684 690 702 690 700 691 691 691 691 692 672 586 556 623 628 501 511	MAX 318 322 350 336 353 376 399 445 486 556 593 599 627 576 275 266 260 261 255 254 261 276	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 571 546 228 251 258 251 258 250 249 252 252 261	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 265 253
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 22 23 24 22 23 24 24 25 24 25 26 26 26 26 26 26 26 26 26 26	MAX 888 886 917 884 891 823 829 823 829 844 857 849 792 828 826 811 823 839 846 828 846 848 758	MIN FEBRUARY 848 850 868 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 797 793 804 798 819 758 714	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806 816 790 810 816 827 817 817 834 815 727	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 705 728 747 765 754 897 765 566 443	MIN MARCH 782 784 696 467 444 479 548 583 638 638 635 675 656 671 678 673 704 726 725 731 518 437 437 437	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 693 695 702 725 744 740 798 627 480 4412	MAX 584 632 665 678 672 708 719 718 715 715 715 715 707 707 732 728 613 599 639 639 639 639 635 715 551 551 551	MIN APRIL 548 570 622 624 624 661 662 675 674 668 596 551 530 599 625 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 531 530 599 625 530 599 625 508 508 508 508 508 508 508 50	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 694 702 586 621 663 621 663 628 501 511 578	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 275 266 261 275 254 261 276 296 296	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 571 546 258 251 258 258 251 258 251 258 252 252 261 276	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 268 288 288 288
DAY 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	MAX 888 886 917 884 891 823 829 844 857 849 792 828 826 811 823 839 846 828 846 828 846 828 846 828 815	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 759 797 793 804 798 804 798 819 758 714 737 792	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 790 816 827 817 817 834 815 727 776 802	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765 566 443 456 485	MIN MARCH 782 784 696 467 444 479 548 583 638 638 638 655 675 656 671 678 673 704 725 731 518 437 437 437 435	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 695 702 725 744 740 798 627 480 441 443 467	MAX 584 632 665 678 672 708 709 718 715 715 707 707 732 728 613 599 639 639 639 639 635 715 561 551 696 710 736	MIN APRIL 548 570 622 624 624 661 662 675 674 668 596 551 530 599 622 551 530 599 622 551 530 599 622 508 443 434 461 540 699	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 694 702 691 694 702 586 621 663 628 556 621 556 621 556 621 578 621 578	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 260 261 255 254 261 276 296 318 341	MIN MAY 271 315 318 316 333 350 368 395 486 571 546 228 251 258 258 251 258 258 259 249 252 252 261 276 296 317	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 268 268 268 268 268 309 331
DAY 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	MAX 888 886 917 884 891 884 849 823 823 844 857 849 792 828 826 811 823 839 846 828 846 828 846 828 845 815 815	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 797 793 804 798 819 758 714 737 792	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 790 810 816 827 817 817 817 817 815 727 776 802	MAX 813 804 801 785 531 500 587 679 710 708 691 708 691 708 705 728 747 765 754 897 765 566 443 456 485	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 673 704 725 731 518 437 437 437 431	MEAN 800 796 763 541 474 488 574 632 663 695 674 695 702 725 744 740 798 627 480 441 443 467	MAX 584 632 665 678 672 708 709 718 715 707 707 732 728 613 599 639 685 715 561 551 696 710 736	MIN APRIL 548 570 622 624 624 661 662 675 681 675 681 675 674 668 596 551 530 599 622 551 530 599 622 548 443 434 454	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 694 702 692 586 556 621 663 628 501 511 578 686 720	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 260 261 255 254 261 275 254 261 276 296 318 341	MIN MAY 271 315 318 316 333 350 368 395 486 571 546 228 251 258 258 251 258 258 250 249 252 252 252 261 276 296 317	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 253 256 268 268 268 268 309 331
DAY 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	MAX 888 886 917 884 891 884 849 823 829 844 857 849 792 828 826 811 823 839 846 828 846 848 848 848 848 848 848 84	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 797 793 804 798 819 758 714 737 792	MEAN 867 868 894 873 873 873 873 873 873 873 807 815 827 773 806 816 790 816 827 817 816 827 817 816 827 817 816 827 817 816 827 817 827 827 834 835 827 834 835 827 836 839 837 836 839 831 831 831 831 831 831 831 831 831 831	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765 5566 443 456 485 494	MIN MARCH 782 784 696 467 444 479 548 583 638 655 656 671 678 673 704 726 725 731 518 437 437 437 437 431 455	MEAN 800 796 763 541 474 488 574 632 663 688 695 674 695 702 725 744 740 798 627 480 441 443 467 481 512	MAX 584 632 665 678 672 708 709 718 715 707 707 707 732 728 613 599 639 639 639 635 715 561 551 696 710 736 739 739	MIN APRIL 548 570 622 624 624 661 662 675 681 675 674 668 596 551 530 599 622 508 443 434 461 540 699 682 557	MEAN 571 615 640 646 658 654 684 690 700 691 694 702 672 586 556 621 663 628 511 578 686 720 719	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 261 255 254 261 276 296 318 341 366 276 276 276 276 266 276 276 2	MIN MAY 271 315 318 316 333 350 368 395 486 571 546 228 251 258 251 258 250 249 252 252 252 252 252 252 252 252 252 25	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 268 268 268 268 268 309 331
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28	MAX 888 886 917 884 891 884 823 829 844 857 849 823 826 811 823 839 846 828 846 848 846 848 846 848 815 815 815 815 816 823	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 798 819 758 819 758 819 758 819 758 714 737 792 773 785	MEAN 867 868 894 873 873 875 839 807 815 831 845 827 773 806 816 816 827 817 810 816 827 817 817 816 827 817 816 827 817 816 827 817 816 827 817 816 827 816 827 816 827 816 827 816 827 827 827 827 827 827 827 827 827 827	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765 566 443 456 485 494 547 547	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 673 704 678 673 704 725 731 518 437 437 437 437 455 472 492 492 472 492 472 492 472 492 472 472 472 472 472 472 472 47	MEAN 800 796 763 541 474 488 574 632 663 688 695 702 725 744 740 798 627 480 441 443 467 481 522	MAX 584 632 665 678 672 708 709 718 715 707 707 732 728 613 599 639 645 715 561 551 696 710 736 739 682 634	MIN APRIL 548 570 622 624 624 624 661 662 675 674 668 596 551 530 599 622 508 443 434 4540 699 682 557	MEAN 571 615 640 646 658 654 684 690 702 690 700 691 691 691 691 691 691 692 672 556 621 556 623 556 628 501 511 578 686 720 719 598	MAX 318 322 350 353 376 399 445 486 556 593 599 627 576 275 266 260 261 255 254 261 275 264 261 275 254 261 276 318 341 361 341 341 361 351 353 353 353 353 353 353 35	MIN MAY 271 315 318 316 333 350 368 395 445 486 571 546 228 251 258 258 251 258 259 252 252 252 252 252 252 252 252 252	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 268 288 309 331 351 351
DAY 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	MAX 888 886 917 884 891 884 849 823 829 844 857 849 792 828 826 811 823 839 846 848 758 815 815 815 816 823 	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 803 769 797 793 803 769 797 793 803 769 797 793 804 798 819 758 714 758 714 758 714 758 714 758 714 758	MEAN 867 868 894 873 873 856 839 807 815 831 845 827 773 806 816 816 816 816 816 816 817 817 834 815 727 776 802 796 805 	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 705 728 747 765 728 747 765 728 747 765 566 443 497 566 445 454 454 547 560 548	MIN MARCH 782 784 696 467 444 479 548 583 638 655 675 656 671 678 675 656 671 678 673 704 726 725 731 518 437 437 437 437 437 437 437 437	MEAN 800 796 763 541 474 488 574 663 695 702 725 744 740 798 627 480 441 443 467 481 512 533 529	MAX 584 632 665 678 709 718 715 707 707 732 728 613 599 639 645 715 561 551 696 710 736 739 682 624 546	MIN APRIL 548 570 622 624 624 624 661 662 675 674 675 674 675 674 530 599 622 508 443 434 461 540 699 682 557 5286	MEAN 571 615 640 646 658 654 684 690 702 690 700 691 691 691 692 672 586 556 621 556 623 556 623 556 623 572 578 628 571 578 628 572 719 598 592 374	MAX 318 332 350 336 353 376 399 445 56 593 599 627 576 275 266 260 261 255 254 261 276 296 318 341 366 407 446 491	MIN MAY 271 315 318 316 333 350 368 395 445 486 556 571 546 228 251 258 251 258 250 252 252 261 276 296 317 338 366 407 442	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 252 253 256 268 288 309 331 351 382 428
DAY 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	MAX 888 886 917 884 891 884 849 823 823 844 857 849 792 828 826 811 823 839 846 823 846 848 758 815 815 815 816 823 	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 799 797 793 804 798 819 758 714 737 792 773 792 773 758 714	MEAN 867 868 894 873 873 873 856 839 807 815 831 845 827 773 806 816 790 810 816 827 817 817 834 815 727 776 802 796 805 	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 705 728 747 765 754 897 765 566 443 456 485 494 547 560 548 548	MIN MARCH 782 784 696 467 444 479 548 583 638 638 655 675 656 671 678 673 704 726 725 731 518 437 437 437 437 435 435 472 494 505 517	MEAN 800 796 763 541 474 488 574 663 688 695 674 693 695 702 725 744 740 798 627 480 441 443 467 481 512 533 529 529	MAX 584 632 665 678 672 708 719 718 715 715 715 707 707 732 728 613 599 639 639 639 639 639 639 635 715 551 551 551 551 551 551 55	MIN APRIL 548 570 622 624 624 661 662 675 681 675 681 675 674 668 596 551 530 599 622 508 443 434 461 540 699 622 508 443 434 461 540 699 622 557 521 286 265	MEAN 571 615 640 646 658 654 690 700 691 694 700 691 694 700 691 694 702 586 621 663 628 501 511 578 686 720 719 598 592 374	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 261 255 254 261 276 296 318 341 366 407 446 491 519	MIN MAY 271 315 318 316 333 350 368 395 445 486 571 546 258 251 258 258 251 258 252 261 276 296 317 338 366 407 442 486	MEAN 292 325 331 327 343 363 384 457 519 580 590 590 590 598 396 261 264 260 255 252 253 256 268 268 288 309 331 351 382 428 467 498
DAY 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	MAX 888 886 917 884 891 884 849 823 829 844 857 849 792 828 826 811 823 839 846 828 846 828 846 848 815 815 815 815 815 815 815 81	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 797 793 804 798 819 758 714 737 792 773 785 773	MEAN 867 868 894 873 873 873 873 873 873 807 815 827 773 806 816 790 816 827 817 816 827 817 816 827 817 816 827 817 816 827 817 816 827 817 816 827 817 816 827 817 816 816 827 817 816 816 816 827 817 816 827 817 816 816 827 817 816 827 816 816 827 817 827 827 817 827 827 817 827 827 827 827 827 827 827 827 827 82	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 691 708 705 728 747 765 754 897 765 5566 443 456 485 494 547 560 548 548 548	MIN MARCH 782 784 696 467 444 479 548 583 638 655 656 671 678 673 704 726 725 731 518 437 437 437 437 437 437 437 437	MEAN 800 796 763 541 474 488 574 632 663 688 674 693 695 702 725 744 740 798 627 480 441 443 467 481 512 533 529 541	MAX 584 632 665 678 672 708 709 718 715 707 707 732 728 613 599 639 685 715 561 551 696 710 736 739 682 624 546 289 	MIN APRIL 548 570 622 624 624 661 662 675 674 668 596 551 530 599 622 508 443 434 461 540 699 682 557 521 286 265 557 521 286 265 	MEAN 571 615 640 646 658 654 684 690 700 690 700 691 694 702 694 702 586 556 621 663 628 501 511 578 686 720 719 598 592 374 271	MAX 318 332 350 336 353 376 399 445 556 593 599 627 576 275 266 260 261 255 254 261 276 276 276 276 276 318 341 366 407 446 407 446 407 446 519 538	MIN MAY 271 315 318 316 333 350 368 395 486 571 546 228 251 258 251 258 250 249 252 252 252 252 252 252 252 252 252 25	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 264 266 265 255 252 253 256 268 268 288 309 331 351 382 428 467 488 517
DAY 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	MAX 888 886 917 884 891 884 849 823 829 844 857 849 792 828 826 811 823 839 846 828 846 848 848 845 815 815 815 816 823 815 815 815 815 815 815 815 815	MIN FEBRUARY 848 850 868 860 855 844 823 793 801 817 828 764 751 790 803 769 797 793 804 759 803 819 758 714 737 792 773 785 	MEAN 867 868 894 873 873 873 873 873 873 873 807 815 827 773 806 816 790 816 827 817 816 827 817 834 815 727 776 802 796 805 	MAX 813 804 801 785 531 500 587 658 679 710 708 691 708 691 708 705 728 747 765 754 897 765 5566 443 456 485 494 547 560 548 548 548	MIN MARCH 782 784 696 467 444 479 548 583 638 655 656 671 678 673 704 726 725 731 518 437 437 437 437 437 437 437 437 437 437	MEAN 800 796 763 541 474 488 574 632 663 688 695 702 725 744 740 798 627 480 441 443 467 481 512 533 529 541	MAX 584 632 655 678 672 708 709 718 715 707 707 732 728 613 599 639 639 639 639 635 715 561 551 696 710 736 739 685 696 710 736 739 685 696 710 736 739 685 696 710 736 737 732 728 639 645 645 645 645 645 645 645 645	MIN APRIL 548 570 622 624 624 661 662 675 681 675 674 668 596 551 530 599 622 508 443 434 461 540 699 682 557 286 265 	MEAN 571 615 640 646 658 654 684 690 700 691 694 702 672 586 556 621 663 628 511 578 686 720 719 598 592 374 271 -	MAX 318 332 350 336 353 376 399 445 56 593 599 627 576 275 266 260 261 255 254 261 276 276 276 276 276 318 341 366 407 446 407 446 407 446 558 341 366 353 376 377 376 376 275 266 275 254 261 276 318 341 366 353 377 376 377 376 377 376 377 376 376	MIN MAY 271 315 318 316 333 350 368 395 486 571 546 228 251 258 251 258 250 249 252 252 252 252 252 252 252 252 252 25	MEAN 292 325 331 327 343 363 384 412 457 519 580 590 598 396 261 264 260 255 252 253 256 268 268 268 268 268 309 331 351 382 428 309

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

SPECIFIC CONDUCTANCE FROM RIGHT	INTAKE, in US/CM @ 25C, WAT	TER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY		1	AUGUST		5	SEPTEMBE	R
1	575	526	543	466	413	443	809	750	788	457	339	402
2	568	506	523	509	466	496	804	463	752	527	457	502
3	506	485	497	570	509	542	820	409	711	563	421	506
4	518	488	504	654	570	594	830	673	784	530	448	508
5	558	518	550	703	654	677	710	611	652	527	472	501
6	589	532	563	713	683	703	712	641	691	601	516	541
7	587	253	428	734	683	718	672	606	648	664	601	641
8	294	251	280	766	712	742	733	604	662	730	664	707
9	288	267	275	754	727	741	782	700	742			
10	326	288	309	765	723	743	811	738	778			
11	350	326	339	774	730	754	815	717	792			
12	396	347	371	778	733	761	830	749	801			
13	437	396	415	779	744	767	838	730	818			
14	493	436	466	758	741	753	847	766	825	876	834	846
15	497	403	467	763	740	753	847	791	830	880	717	836
16	403	373	384	786	753	771	842	808	828	857	410	735
17	398	355	376	804	760	783	894	786	859	444	350	409
18	415	392	404	807	782	797	914	893	904	440	365	402
19	443	408	424	816	478	755	920	896	909	491	385	437
20	483	440	457	813	601	765	933	807	908	586	491	541
21	515	479	494	616	437	526	916	871	896	614	580	595
22	545	515	534	631	578	606	915	886	900	641	614	628
23	580	536	569	600	548	569	936	875	899	704	641	685
24	622	572	599	677	577	649	933	810	897	749	691	726
25	656	601	625	771	671	727	898	817	852	795	731	764
26	678	625	651	756	584	641	817	784	802	804	762	785
27	681	641	667	685	620	665	816	685	748	789	631	752
28	698	530	659	771	679	737	718	674	701	631	381	421
29	530	388	437	802	754	778	743	471	651	411	317	366
30	429	407	418	794	771	784	737	320	452	416	394	405
31				802	770	788	407	324	345			
MONTH	698	251	474	816	413	694	936	320	769	880	317	586
YEAR	1410	228	677									

WATER TEMPERATURE FROM LEFT INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAY MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN MAX MIN MEAN OCTOBER NOVEMBER DECEMBER TANTIARY ----1 2 15.5 14.5 15.0 12.0 10.5 11.5 14.5 12.0 13.0 ------------14.0 15.0 13.0 14.0 11.5 10.5 12.0 11.0 16.5 15.0 11.5 12.0 12.5 3 17.0 16.0 13.0 13.5 12.5 1.0 0.5 0.5 4 5 18.5 16.5 17.5 14.0 12.5 13.0 11.0 9.5 10.0 1.5 0.5 0.5 19.0 17.5 18.0 13.0 11.5 12.5 10.5 9.5 10.0 3.0 0.5 2.0 6 7 19.0 17.5 18.0 12.0 10.5 11.0 11.5 9.5 10.0 2.5 1.0 2.0 11.5 10.0 10.0 2.5 17.5 15.5 16.5 11.0 11.5 10.5 1.5 2.0 8 16.0 14.0 15.0 11.0 9.5 10.0 11.0 9.5 10.0 2.5 1.5 2.0 9 14.5 13.0 13.5 11.0 9.5 9.5 10.0 10.0 8.5 9.5 7.0 2.5 1.5 2.0 10 3.0 14.0 13.0 11.0 10.0 8.5 6.5 1.5 2.5 12.5 11 12 13 8.5 7.5 7.0 6.5 6.0 7.0 3.5 5.5 2.5 2.5 15.0 13.0 13.5 10.5 9.5 8.0 3.0 8.5 13.5 14.5 9.5 7.0 6.5 3.5 15.5 16.5 15.0 15.5 9.0 7.5 8.0 6.5 7.5 5.0 3.0 4.0 14 15 17.0 16.0 16.5 8.5 6.5 7.0 7.0 7.5 8.5 7.5 8.0 4.5 3.0 3.5 17.5 17.0 9.0 9.0 8.0 8.5 5.0 3.0 3.5 16.0 16 17 18 3.5 17.0 15.5 16.0 10.5 8.0 9.0 8.5 7.5 8.0 5.0 3.0 8.5 7.5 14.5 15.5 10.5 9.5 7.0 7.0 5.0 3.5 4.0 16.0 15.0 13.5 14.0 10.5 9.5 6.5 7.0 4.5 3.0 3.5 19 7.5 14.0 12.5 13.0 10.5 8.5 9.0 8.0 7.0 3.0 2.0 3.0 20 12.5 13.0 10.0 8.0 9.0 7.5 6.0 7.0 3.0 2.0 2.5 14.5 21 14.5 12.5 13.5 10.0 7.5 8.5 7.0 5.5 6.0 2.0 1.5 1.5 22 13.5 7.0 4.5 3.0 1.5 2.0 15.0 14.0 9.0 8.0 6.0 5.5 23 15.0 14.0 14.5 9.0 6.5 7.5 5.5 3.5 4.5 3.5 2.0 3.0 24 25 14.5 15.5 7.0 7.5 5.0 16.5 8.5 4.5 4.5 4.0 3.5 4.0 15.5 7.5 4.5 4.0 5.5 17.0 16.0 10.0 9.0 6.0 5.0 6.5 26 16.0 14.5 15.0 11.5 9.5 10.5 5.0 3.5 4.5 7.0 5.0 5.5 7.0 27 14.5 13.0 13.5 12.5 11.5 12.0 4.0 2.5 3.5 4.0 5.0 28 13.0 11.5 12.5 12.5 11.5 12.0 -----------4.0 5.0 ---29 12.0 10.5 11.5 11.0 11.5 ---------30 12.5 11.0 11.5 13.0 11.5 12.0 ------___ ---___ 7.5 7.0 ---------8.0 31 11.0 10.5 11.0 ---------MONTH 19.0 10.5 14.7 14.0 6.5 10.0 14.5 2.5 7.8 8.0 0.5 3.2

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

WATER TEMPERATURE FROM LEFT INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.5	6.5	7.5	8.0	6.0	7.0	14.5	12.5	13.5	13.5	11.5	12.5
2	6.5	5.0	5.5	6.5	5.5	6.0	14.0	12.5	13.0	13.5	12.5	13.0
4	5.5	3.5	4.5	8.5	7.5	8.0	14.5	12.0	13.0	14.5	12.0	13.5
5	4.0	2.0	3.0	7.5	5.5	6.5	13.0	10.5	12.0	16.0	14.0	15.0
6	4.0	2.0	3.0	5.5	4.5	5.0	12.0	9.0	10.5	17.5	15.5	16.5
7	4.0	2.5	3.0	 0 E	 6 E	 7 E	11.0	8.5	9.5	18.5	17.0	18.0
9	5.0	2.5	4.0	10.5	0.5	9.0	13.5	10.0	11.5	20.0	17.5	18.0
10	6.0	4.0	5.0	11.5	9.5	10.0	16.0	12.0	14.0	20.0	17.0	18.0
11	6.0	5.0	5.5	10.5	8.0	9.5	17.0	14.0	15.0	20.0	17.0	18.0
12	6.5	5.0	5.5	8.5	7.0	8.0	15.5	14.0	15.0	18.0	16.5	17.5
14	5.5	3.0	4.0	9.5	6.5	8.0	16.5	14.0	15.5	14.0	13.5	13.5
15	4.5	2.5	3.5	11.0	8.0	9.5	19.0	16.0	17.5	14.0	12.5	13.5
16	5.5	3.0	4.0	12.0	10.0	10.5	20.5	18.5	19.5	16.0	13.5	14.5
17	6.0	4.5	5.0	11.0	9.5	10.0	23.0	20.5	21.5	17.0	15.5	16.5
19	7.0	5.0	5.5	9.5	7.5	8.5	24.5	22.0	23.0	17.0	14.0	13.5
20	7.0	5.5	6.0	7.0	6.5	7.0	23.5	20.5	22.0	14.0	13.0	13.5
21	8.0	6.5	7.5	8.0	6.5	7.5	20.5	17.5	19.0	13.5	12.5	13.0
22	9.5	7.5	8.5	7.5	6.5	7.0	17.5	14.0	16.0	14.5	12.5	13.5
23	10.5	8.5	9.0	6.5	5.0	6.0	15.5	12 5	14.0	17.5	15.5	14.5
25	8.5	7.0	8.0	7.5	6.5	7.0	14.0	12.0	13.5	19.0	17.0	18.0
26	9.0	7.0	8.0	7.0	7.0	7.0	13.5	12.0	12.5	18.5	17.5	18.0
27	8.5	7.5	8.0	8.5	7.0	7.5	14.5	11.0	13.0	19.5	17.5	18.5
28				9.5	7.5	8.5	14.0	12.0	13.5	20.5	19.0	19.5
30				12.5	10.5	11.5	12.5	11.5	12.0	23.0	20.0	22.0
31				13.0	12.0	12.5				23.5	22.0	22.5
MONTH	10.5	2.0	5.6	13.0	4.5	8.1	25.5	8.5	14.9	23.5	11.5	16.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN IR
DAY 1	MAX 24.0	MIN JUNE 22.5	MEAN 23.0	MAX 26.5	MIN JULY 24.5	MEAN 25.5	MAX 28.5	MIN AUGUST 26.0	MEAN 27.0	MAX 19.5	MIN SEPTEMBE 18.5	MEAN IR 19.0
DAY 1 2	MAX 24.0 24.0	MIN JUNE 22.5 22.5	MEAN 23.0 23.0	MAX 26.5 27.5	MIN JULY 24.5 24.5	MEAN 25.5 26.0	MAX 28.5 29.0	MIN AUGUST 26.0 26.5	MEAN 27.0 27.5	MAX 19.5 19.5	MIN SEPTEMBE 18.5 18.5	MEAN IR 19.0 19.0
DAY 1 2 3	MAX 24.0 24.0 23.5	MIN JUNE 22.5 22.5 22.0 21.0	MEAN 23.0 23.0 22.5	MAX 26.5 27.5 29.0	MIN JULY 24.5 24.5 26.0	MEAN 25.5 26.0 27.5	MAX 28.5 29.0 27.0	MIN AUGUST 26.0 26.5 25.0	MEAN 27.0 27.5 26.0	MAX 19.5 19.5 21.0 23.5	MIN SEPTEMBE 18.5 18.5 19.0	MEAN IR 19.0 19.0 20.0
DAY 1 2 3 4 5	MAX 24.0 24.0 23.5 23.0 22.5	MIN JUNE 22.5 22.5 22.0 21.0 20.5	MEAN 23.0 23.0 22.5 22.0 21.5	MAX 26.5 27.5 29.0 30.5 30.0	MIN JULY 24.5 24.5 26.0 27.0 27.5	MEAN 25.5 26.0 27.5 28.5 28.5	MAX 28.5 29.0 27.0 28.0 28.0	MIN AUGUST 26.0 26.5 25.0 26.0 27.0	MEAN 27.0 27.5 26.0 27.0 27.5	MAX 19.5 19.5 21.0 23.5 24.5	MIN SEPTEMBE 18.5 18.5 19.0 20.5 21.5	MEAN R 19.0 19.0 20.0 22.0 22.5
DAY 1 2 3 4 5	MAX 24.0 23.5 23.0 22.5	MIN JUNE 22.5 22.5 22.0 21.0 20.5	MEAN 23.0 22.5 22.0 21.5	MAX 26.5 27.5 29.0 30.5 30.0	MIN JULY 24.5 24.5 26.0 27.0 27.5	MEAN 25.5 26.0 27.5 28.5 28.5 28.5	MAX 28.5 29.0 27.0 28.0 28.0	MIN AUGUST 26.0 26.5 25.0 26.0 27.0	MEAN 27.0 27.5 26.0 27.0 27.5	MAX 19.5 19.5 21.0 23.5 24.5	MIN SEPTEMBE 18.5 18.5 19.0 20.5 21.5	MEAN IR 19.0 20.0 22.0 22.5
DAY 1 2 3 4 5 6 7	MAX 24.0 23.5 23.0 22.5 22.5 21.0	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0	MIN JULY 24.5 26.0 27.0 27.5 26.5 25.5	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5	MAX 28.5 29.0 27.0 28.0 28.0 27.5 26.5	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0	MEAN 27.0 27.5 26.0 27.0 27.5 26.5 25.0	MAX 19.5 21.0 23.5 24.5 24.5	MIN SEPTEMBE 18.5 18.5 19.0 20.5 21.5 21.5 21.5	MEAN TR 19.0 20.0 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8	MAX 24.0 23.5 23.0 22.5 22.5 21.0 20.5	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0	MIN JULY 24.5 24.5 26.0 27.0 27.5 26.5 25.5 24.5	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5 25.5	MAX 28.5 29.0 27.0 28.0 28.0 28.0 28.0 26.5 26.5	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0 23.0	MEAN 27.0 27.5 26.0 27.0 27.5 26.5 25.0 24.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.5	MIN SEPTEMBE 18.5 18.5 19.0 20.5 21.5 21.5 21.5 21.0	MEAN R 19.0 19.0 20.0 22.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9	MAX 24.0 23.5 23.0 22.5 22.5 21.0 20.5 21.0	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 19.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.0	MIN JULY 24.5 24.5 26.0 27.0 27.5 26.5 25.5 24.5 24.5 24.5	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5 25.5 25.5	MAX 28.5 29.0 27.0 28.0 28.0 27.5 26.5 25.5 25.5	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0 23.0 22.5	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0	MAX 19.5 21.0 23.5 24.5 24.5 24.5 24.0	MTN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 	MEAN IP.0 19.0 20.0 22.0 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10	MAX 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 19.5 21.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5	MIN JULY 24.5 24.5 26.0 27.0 27.5 26.5 25.5 24.5 24.5 24.5 24.5	MEAN 25.5 26.0 27.5 28.5 28.5 28.5 26.5 25.5 25.5 26.0	MAX 28.5 29.0 27.0 28.0 27.5 26.5 25.5 25.5	MIN AUGUST 26.0 26.5 25.0 27.0 25.0 24.0 23.0 22.5 23.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.0	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.5 24.0 	MIN SEPTEMBE 18.5 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 	MEAN R 19.0 20.0 22.0 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 24.0 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 22.0 23.0	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 19.5 21.5 22.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.0 27.5 27.0	MTN JULY 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 25.0 24.5 25.0	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5 25.5 25.5 26.0 25.5 26.0	MAX 28.5 29.0 27.0 28.0 27.5 26.5 25.5 25.5 25.5 25.5 26.0	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0 23.0 22.5 23.0 23.5 23.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.5 24.0 24.5	MAX 19.5 21.0 23.5 24.5 24.5 24.5 24.0 	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 	MEAN R 19.0 20.0 22.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 24.0 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 22.5 21.0	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 22.5 22.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.0 27.5 27.0 26.5 25.5	MTN JULY 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 25.0 24.5 24.5 24.5 24.5 25.0 24.5 24.5 24.5 25.0	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5 25.5 26.0 25.5 25.0 25.5 24.5	MAX 28.5 29.0 27.0 28.0 28.0 27.5 26.5 25.5 25.5 25.5 25.5 26.0 27.0	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0 23.0 22.5 23.0 23.5 24.0 25.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.0 24.5 25.5 26.0	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 	MEAN R 19.0 19.0 22.0 22.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 24.0 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5 24.0 23.5 21.0	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 21.5 22.5 23.5 22.0 20.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5 27.0 26.5 25.5	MIN JULY 24.5 26.0 27.0 27.5 26.5 25.5 24.5 24.5 24.5 24.0 23.5 23.5	MEAN 25.5 26.0 27.5 28.5 28.5 26.5 25.5 25.5 25.5 25.0 25.5 25.0 24.5 24.0	MAX 28.5 29.0 27.0 28.0 27.5 26.5 25.5 25.5 25.5 25.5 25.5 26.0 27.0 27.5 28.0	MIN AUGUST 26.0 26.5 25.0 26.0 27.0 25.0 24.0 22.5 23.0 22.5 23.0 23.5 24.0 25.5	MEAN 27.0 27.5 26.0 27.0 27.5 26.5 25.0 24.5 24.0 24.0 24.5 25.5 26.0 26.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 20.5	MEAN R 19.0 20.0 22.5 22.5 22.5 22.5 22.5 21.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5 21.0 18.5	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0	MEAN 23.0 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 21.5 23.5 23.5 22.0 20.0 18.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.0 27.5 25.5 25.5 25.5 25.5 26.5	MTN JULY 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 24.5 24.0 24.5 24.0 23.5 23.5 23.0	MEAN 25.5 26.0 27.5 28.5 28.5 27.5 26.5 25.5 25.5 25.5 25.0 25.0 24.5 24.0 24.5	MAX 28.5 29.0 27.0 28.0 28.0 27.5 25.5 25.5 25.5 25.5 26.0 27.0 27.5 28.0 28.0	MIN AUGUST 26.0 25.0 26.0 27.0 25.0 23.0 23.0 23.0 23.5 24.0 25.5 26.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.5 24.0 24.5 25.5 26.0 26.5 27.0	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 20.5 21.0	MEAN 19.0 19.0 20.0 22.5 22.5 22.5 22.5 21.5 21.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 24.0 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5 24.0 18.5 19.5	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 23.5 22.5 23.5 22.0 20.0 18.0 18.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5 27.0 26.5 25.5 25.5 26.5 27.0	MTN JULY 24.5 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 23.5 23.0 24.0	MEAN 25.5 26.0 27.5 28.5 28.5 25.5 25.5 25.5 25.0 25.5 25.0 24.5 24.0 24.5 25.0	MAX 28.5 29.0 27.0 28.0 28.0 27.5 25.5 25.5 25.5 25.5 26.0 27.0 27.5 28.0 28.0 28.0	MIN AUGUST 26.0 26.0 25.0 26.0 27.0 25.0 24.0 23.0 23.5 23.0 23.5 24.0 25.5 26.0 27.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.5 24.0 24.5 25.5 26.0 26.5 27.0 27.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.0 20.5 21.0 20.5 21.0 21.5	MEAN R 19.0 20.0 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 0	MAX 24.0 24.0 23.5 23.0 22.5 21.0 22.5 21.0 22.0 23.5 24.0 23.5 24.0 23.5 21.0 18.5	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5 18.0	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 22.5 22.5 22.5 22.0 18.0 18.5 19.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5 27.0 26.5 25.5 26.5 27.0 27.0 27.5	MIN JULY 24.5 24.5 24.5 26.0 27.0 27.5 26.5 25.5 24.5 24.5 24.5 24.0 23.5 23.0 24.0 24.0 24.0 24.0	MEAN 25.5 26.0 27.5 28.5 28.5 25.5 25.5 25.5 25.0 24.5 24.0 24.5 25.0 25.5	MAX 28.5 29.0 27.0 28.0 28.0 27.5 26.5 25.5 25.5 25.5 25.5 25.5 25.5 26.0 27.0 27.0 27.0 28.0 28.0 28.0 29.0	MIN AUGUST 26.0 26.5 25.0 27.0 25.0 24.0 22.5 23.0 23.5 24.0 25.5 26.0 25.5 26.0 25.5 26.0	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.0 24.5 24.0 24.5 25.5 26.0 24.5 25.5 26.0 24.5 27.5 26.0 24.5 25.5 26.0 24.5 25.5 27.5 25.5 25.5 27.5 25.5 27.5 27.5 26.5 27.5 25.5 27.5 27.5 27.5 27.5 27.5 25.5 27.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0 23.0 23.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.0 20.5 21.0 21.5 21.0 21.5 21.0	MEAN R 19.0 20.0 22.5 22.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 20.5 21.0 20.5 21.0 21.5 21.0 22.0 21.5 21.0 22.0 22.5 21.0 22.5 21.0 22.0 22.5 21.0 22.5 21.0 22.0 22.5 21.0 22.5 21.0 22.5 21.0 22.0 22.5 21.0 20.5 21.0 22.5 21.0 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5 18.0 18.5 18.0	MEAN 23.0 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 23.5 22.0 0 20.0 18.0 18.5 19.0 19.0 20.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5 25.5 26.5 27.0 27.0 27.5 27.0 27.5 26.5	MIN JULY 24.5 24.5 24.5 26.0 27.0 27.5 25.5 24.5 24.5 24.5 24.5 24.5 24.5 23.5 23.0 24.0 24.0 25.5 5	MEAN 25.5 26.0 27.5 28.5 28.5 25.5 25.5 25.5 26.0 25.5 25.0 24.5 24.0 24.5 25.5 26.5 25.5 26.5 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.5 25.5 26.0 25.5 26.5 25.5 26.5 25.5 26.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 25	MAX 28.5 29.0 27.0 28.0 28.0 27.5 26.5 25.5 25.5 25.5 26.0 27.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0	MIN AUGUST 26.0 26.5 25.0 27.0 25.0 24.0 22.5 23.0 23.5 24.0 25.5 26.0 25.5 26.0 27.0 25.5 26.0 27.0 25.5 26.0 27.0 25.5 26.0 27.0 25.5 26.0 27.0 25.0 25.0 25.0 25.0 25.0 27.0 25.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27	MEAN 27.0 27.5 26.0 27.5 25.0 24.5 24.0 24.5 25.5 26.5 25.5 26.5 27.0 24.5 25.5 26.5 27.0 24.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 25.5 27.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.0 20.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0	MEAN R 19.0 20.0 22.5 25 25 25 25 25 25 25
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 24.0 24.0 23.5 23.0 22.5 21.0 22.5 21.0 22.0 23.5 24.0 23.5 21.0 18.5 19.5 20.0 20.5 21.0 21.5	MIN JUNE 22.5 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5 18.0 18.5 19.5 20.0	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 23.5 22.0 20.0 18.0 18.5 19.0 19.5 20.0 20.5	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.5 27.0 26.5 25.5 25.5 26.5 27.0 27.5 28.0 27.5 28.0 27.5 28.0	MTN JULY 24.5 24.5 26.0 27.0 27.5 26.5 25.5 24.5 24.5 24.5 24.5 23.5 23.0 24.0 24.0 23.5 23.5 23.0 24.5 25.5 24.5 24.5 24.5 24.5 25.5 24.5 24.5 24.5 24.5 25.5 24.5 24.5 24.5 24.5 24.5 25.5 24.5 2	MEAN 25.5 26.0 27.5 28.5 27.5 26.5 25.5 25.5 25.0 24.5 24.0 24.5 25.0 24.5 25.0 25.5 25.0 25.5 25.5 25.5 25.5 25	MAX 28.5 29.0 27.0 28.0 28.0 27.5 25.5 25.5 25.5 25.5 25.5 25.5 26.0 27.0 27.0 27.0 28.0 28.0 28.0 28.0 29.0 29.0 29.0 28.5	MIN AUGUST 26.0 26.0 27.0 25.0 24.0 22.5 23.0 23.5 24.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.0 24.5 25.5 26.5 25.5 26.5 27.0 27.5 27.5 27.5 27.5 27.0	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 20.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0 21.5 21.0	MEAN P 19.0 19.0 20.0 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 24.0 24.0 23.5 23.0 22.5 21.0 20.5 21.0 22.0 23.5 24.0 23.5 21.0 18.5 19.5 20.0 20.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 23.5 21.0 22.0 23.5 21.0 22.0 22.5 21.0 23.5 21.0 20.5 21.0 23.5 21.0 20.5 22.0 20.5 20.5	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5 18.0 17.5 18.0 18.5 19.5 20.0 20.0	MEAN 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 22.0 20.0 18.0 18.5 19.0 18.5 19.0 20.0 20.5 21.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.0 27.5 25.5 25.5 26.5 27.0 27.5 27.0 27.5 26.5 27.0 27.5 26.5 27.0 27.5 26.5 27.5 26.5 27.5 27.5 27.5 27.5 26.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27	MTN JULY 24.5 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 24.5 24.5 23.5 23.5 23.0 24.0 24.0 25.5 25.5 25.5 24.5 25.5 2	MEAN 25.5 26.0 27.5 28.5 28.5 25.5 25.5 25.5 25.5 25.0 24.5 24.0 24.5 25.0 25.5 26.5 25.5 25.5 26.5 25.5 26.5 25.5 26.5 26	MAX 28.5 29.0 27.0 28.0 28.0 27.5 25.5 25.5 25.5 25.5 25.5 26.0 27.0 27.0 27.0 28.0 28.0 29.0 29.0 28.5 28.5 28.5	MIN AUGUST 26.0 26.0 27.0 25.0 24.0 23.5 23.0 23.5 24.0 25.5 26.0 25.5 26.0 27.0 26.5 27.0 26.5 27.0 26.5	MEAN 27.0 27.5 26.0 27.5 26.5 25.0 24.5 24.0 24.5 24.0 24.5 25.5 26.5 27.0 27.5 27.5 27.5 27.5 27.0 26.5	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0 24.0 23.0	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.0 20.5 21.0 21.5 21.0 21.5 21.0 21.5 22.0 21.5 22.0 21.5 22.0 21.5 22.5 21.5	MEAN P 19.0 19.0 20.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5 22.5 22.5 21.5 21.5 22.5 22.5 22.5 21.5 21.5 22.5 22.5 22.5 21.5 21.5 22.5 22.5 22.5 21.5 21.5 22.5 22.5 22.5 21.5 22.5 22.5 22.5 21.5 21.5 22.5
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DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 29 30 31 MONTH	MAX 24.0 24.0 23.5 21.0 22.5 21.0 22.0 23.5 21.0 23.5 21.0 18.5 19.5 21.0 18.5 19.5 21.0 23.5 21.0 25.5 21.0 25.5 22.0 25.5 22.0 25.5 22.0 25.5 27.5 27.5 27.5 27.5 27.5 27.5 27.5	MIN JUNE 22.5 22.0 21.0 20.5 21.0 18.5 19.0 18.5 20.5 21.5 22.5 21.0 18.5 18.0 17.5 18.0 17.5 18.0 17.5 18.0 20.0 22.0 23.5 24.0 25.0 24.0 25.5 26.0 24.0 25.5 26.0 25.5 26.0 27.0 27.5	MEAN 23.0 23.0 22.5 22.0 21.5 22.0 19.5 19.5 21.5 22.5 23.0 20.0 18.0 18.5 19.0 20.0 18.5 19.5 20.0 18.5 19.5 20.0 20.5 21.0 20.5 21.5 22.5 22.0 20.5 21.5 22.5 22.5 22.0 20.5 21.5 22.5 22.5 22.5 22.5 20.0 19.5 19.5 20.0 19.5 19.5 20.0 19.5 20.0 20.5 20.0 20.5 20.0 20.5 20.0 20.5 20.0 20.5 20.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 27.0 25.5 26.0 25.5 27.0 25.5 26.0 25.5 27.0 25.0	MAX 26.5 27.5 29.0 30.5 30.0 28.5 28.0 27.0 27.0 27.5 25.5 25.5 26.5 27.0 27.5 28.0 28.0 28.0 28.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.5 27.5 26.5 27.5 26.5 27.0 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.0 27.5 26.5 27.0 27.5 26.5 27.5 26.5 26.5 27.0 27.5 26.5 26.5 27.0 27.5 26.5 26.5 27.0 27.5 26.5 26.5 27.0 27.5 26.5 26.5 26.5 27.0 27.5 26.5 26.5 27.0 27.5 26.5 26.5 26.0 27.5 26.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 27.5 26.0 24.0 24.0 25.5 27.5 27.5 26.0 24.0 24.0 25.5 27.5 27.5 27.5 26.5 27.5 26.5 27.5 26.0 24.0 25.5 27.5 27.5 27.5 26.5 27.5 27.5 26.5 27.5 27.5 26.5 27.5 27.5 26.5 27.5 2	MTN JULY 24.5 24.5 26.0 27.0 27.5 26.5 24.5 24.5 24.5 24.5 23.5 23.0 24.0 24.0 24.0 24.5 25.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 23.5 23.5 24.5 25.5 24.5 25.5 23.5 23.5 24.5 25.5 24.5 23.5 23.5 24.5 25.5 24.5 23.5 23.5 24.5 25.5 24.5 25.5 24.5 23.5 23.5 24.5 25.5 24.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 2	MEAN 25.5 26.0 27.5 28.5 28.5 25.5 25.5 25.5 25.0 24.5 25.5 25.0 24.5 25.5 25.5 26.5 25.5 26.5 25.5 26.5 25.5 26.5 27.0 26.5 25.0 26.5 25.0 24.0 26.5 25.0 26.5 25.0 26.5 25.0 26.5 25.5 25.5 25.5 25.5 26.5 25.5 25.5	MAX 28.5 29.0 27.0 28.0 27.5 25.5 25.5 25.5 25.5 26.0 27.0 27.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.5 28.5 28.0 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.5 28.5 29.5 28.5 28.0 28.0 28.0 28.5 28.5 28.0 28.0 28.0 28.5 28.5 28.5 28.0 28.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 20.0 19.5 24.5 24.5 24.5 20.0 19.5 24.5 20.0 19.5 24.5 20.0 19.5 29.5 20.5 2	MIN AUGUST 26.0 25.0 25.0 25.0 25.0 23.0 23.5 23.0 25.5 24.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.0 25.0 25.0 23.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 25.5 26.0 27.0 26.5 27.0 26.5 27.0 26.5 27.0 26.5 27.0 26.5 27.0 26.5 27.0 25.5 24.0 25.5 27.0 26.5 27.0 25.5 24.5 27.0 25.5 24.5 23.0 25.0 25.0 25.0 25.5 27.0 26.5 27.0 25.5 24.5 23.0 25.0 25.5 24.5 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.5 26.0 25.0 25.0 25.5 26.0 25.0 25.5 25.0 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 25.5 25.0 25.5 25.5 25.0 25.5 25.5 25.0 25.5 25.0 25.5	MEAN 27.0 27.5 26.0 27.5 26.5 24.0 24.5 24.0 24.5 25.5 26.0 24.5 27.0 26.5 27.0 27.5 27.5 27.5 27.5 27.5 27.5 27.5 27.0 26.5 27.5 23.0 24.0 24.5 25.5 27.5 27.5 27.5 27.5 25.5 25.0 24.0 24.5 25.5 27.5 27.5 27.5 27.5 27.5 23.0 24.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 25.5 25.5 25.5 25.0 24.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.0 24.0 23.0 23.0 21.0 19.5 19.0 25.1	MAX 19.5 19.5 21.0 23.5 24.5 24.5 24.5 24.5 24.0 23.0 22.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.5 24.0 23.0 23.0 23.0 23.0 23.0 23.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.0 23.0 23.0 23.0 23.5 24.	MIN SEPTEMBE 18.5 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.0 20.5 21.0 21.5 21.0 21.5 22.0 21.0 20.5 21.0 20.5 21.0 20.5 21.0 20.5 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 21.5 21.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN 19.0 19.0 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 21.5 22.5 22.5 22.5 21.5 22.0 21.5 22.5 22.5 22.5 21.5 22.5 22.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 22.5 21.5 22.5 21.5 22.5 21.5 22.5 22.5 22.5 21.5 22.0 23.0 23.0 23.0 23.0 18.5 18.5 18.0 19.0

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

WATER TEMPERATURE FROM MIDDLE INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		1	NOVEMBER		D	ECEMBER			JANUARY	<u>r</u>
1	15.5	14.5	15.0	12.0	10.0	11.0	13.5	12.5	12.5			
2	16.0	14.0	15.0	12.5	11.0	12.0	12.5	11.5	12.0			
3	16.5	14.5	15.5	13.5	12.5	13.0	12.0	10.5	11.0	1.0	0.5	0.5
4	18.0	16.0	17.0	14.0	13.0	13.5	11.0	9.5	10.0	1.0	0.5	0.5
5	18.5	17.0	18.0	13.5	12.5	13.0	10.5	9.5	10.0	2.0	0.5	1.5
6	19.0	17.5	18.0	12.5	11.0	12.0	10.5	9.5	10.0	2.0	1.0	1.5
7	17.5	16.0	17.0	11.5	10.5	11.0	11.5	10.0	11.0	2.5	1.5	2.0
9	14 5	13 0	13.5	10 5	10.0	10.0	10.0	9.5	9 5	2.5	2.0	2.0
10	14.0	12.5	13.0	10.5	9.5	10.0	8.5	6.5	7.5	3.0	1.5	2.5
11	14.5	12.5	13.5	10.0	9.0	9.5	7.5	6.5	7.0	3.5	2.5	3.0
12	15.0	13.5	14.0	9.0	8.0	8.5	7.0	6.0	6.5	4.5	2.5	3.5
13	16.0	14.5	15.5	8.5	7.0	7.5	8.0	7.0	7.5	4.5	3.5	4.0
14	17.0	16.0	16.5	8.0	7.0	7.0	8.5	7.5	8.0	4.0	3.0	3.5
15	18.0	16.5	17.0	8.5	7.0	7.5	8.5	8.0	8.5	4.5	3.0	3.5
16	17.0	16.5	17.0	10.0	8.0	9.0	8.5	8.0	8.0	4.5	3.0	4.0
17	16.5	14.5	15.5	10.0	8.5	9.5	8.0	7.0	7.5	4.5	3.5	4.0
18	15.0	13.5	14.0	10.5	8.5	9.5	7.0	7.0	7.0	4.5	3.5	4.0
20	13.5	12.5	13.0	10.5	8.5	9.5	8.0	7.0	7.5	3.5	2.0	3.0
20	13.5	12.5	13.0	9.5	8.0	9.0	7.5	0.5	7.0	2.5	2.0	2.5
21	13.5	12.0	13.0	9.0	7.5	8.5	6.5	5.5	6.0	2.0	1.5	1.5
22	14.5	13.0	14.0	9.0	7.0	8.0	6.0	4.5	5.5	2.5	1.5	2.0
23	15.0	14.0	14.5	8.5	7.0	7.5	5.0	4.0	4.5	3.5	2.0	3.0
24	17 0	14.5	15.5	8.5	7.0	7.5	5.0	4.5	4.5	4.0	3.5	4.0
25	17.0	13.5	10.0	10.0	0.0	5.0	5.5	1.5	5.0	0.0	4.0	5.5
26	16.5	14.5	15.5	11.5	9.0	10.5	5.0	3.5	4.5	6.0	5.0	5.5
27	14.5	13.5	14.0	12.5	11.5	12.0	4.0	3.0	3.5	5.5	4.5	5.0
20	12 0	11.5	11 5	11 5	11.5	11 5				6.0	4.5	5.0
30	12.0	10.5	11.0	12.5	11.5	12.0						
31	11.0	10.5	10.5							8.0	7.0	7.5
MONTH	19.0	10.5	14.7	14.0	7.0	10.0	13.5	3.0	7.8	8.0	0.5	3.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
DAY 1	MAX 7.5	MIN FEBRUARY 6.5	MEAN	MAX 7.5	MIN MARCH 6.0	MEAN	MAX 14.0	MIN APRIL 13.0	MEAN	MAX 13.5	MIN MAY 11.5	MEAN 12.5
DAY 1 2	MAX 7.5 6.5	MIN FEBRUARY 6.5 4.5	MEAN 7.5 5.5	MAX 7.5 6.0	MIN MARCH 6.0 5.5	MEAN 6.5 6.0	MAX 14.0 13.5	MIN APRIL 13.0 12.5	MEAN 13.5 13.0	MAX 13.5 13.5	MIN MAY 11.5 13.0	MEAN 12.5 13.5
DAY 1 2 3	MAX 7.5 6.5 5.0	MIN FEBRUARY 6.5 4.5 4.0	MEAN 7.5 5.5 4.5	MAX 7.5 6.0 8.5	MIN MARCH 6.0 5.5 6.0	MEAN 6.5 6.0 7.0	MAX 14.0 13.5 14.5	MIN APRIL 13.0 12.5 12.0	MEAN 13.5 13.0 13.0	MAX 13.5 13.5 14.0	MIN MAY 11.5 13.0 13.0	MEAN 12.5 13.5 13.5
DAY 1 2 3 4	MAX 7.5 6.5 5.0 4.5	MIN FEBRUARY 6.5 4.5 4.0 3.5	MEAN 7.5 5.5 4.5 4.0	MAX 7.5 6.0 8.5 8.5	MIN MARCH 6.0 5.5 6.0 7.5	MEAN 6.5 6.0 7.0 8.0	MAX 14.0 13.5 14.5 14.0	MIN APRIL 13.0 12.5 12.0 12.0	MEAN 13.5 13.0 13.0 13.0	MAX 13.5 13.5 14.0 14.5	MIN MAY 11.5 13.0 13.0 13.0	MEAN 12.5 13.5 13.5 13.5
DAY 1 2 3 4 5	MAX 7.5 6.5 5.0 4.5 3.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5	MEAN 7.5 5.5 4.5 4.0 3.0	MAX 7.5 6.0 8.5 8.5 7.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0	MEAN 6.5 6.0 7.0 8.0 6.5	MAX 14.0 13.5 14.5 14.0 13.0	MIN APRIL 13.0 12.5 12.0 12.0 10.5	MEAN 13.5 13.0 13.0 13.0 12.0	MAX 13.5 13.5 14.0 14.5 16.0	MIN MAY 11.5 13.0 13.0 13.0 14.0	MEAN 12.5 13.5 13.5 13.5 13.5
DAY 1 2 3 4 5 6	MAX 7.5 6.5 5.0 4.5 3.5 3.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0	MAX 6.0 8.5 8.5 7.5 6.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.5	MEAN 13.5 13.0 13.0 12.0 10.5	MAX 13.5 13.5 14.0 14.5 16.0 17.0	MIN MAY 11.5 13.0 13.0 13.0 14.0 15.5	MEAN 12.5 13.5 13.5 13.5 15.0 16.5
DAY 1 2 3 4 5 6 7	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 2.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0	MAX 7.5 6.0 8.5 8.5 7.5 6.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 	MEAN 6.5 6.0 7.0 8.0 6.5 5.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.5 9.0	MEAN 13.5 13.0 13.0 13.0 12.0 10.5 9.5	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5	MIN MAY 11.5 13.0 13.0 13.0 14.0 15.5 16.5	MEAN 12.5 13.5 13.5 15.0 16.5 17.5
DAY 1 2 3 4 5 6 7 8 9	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5 4.0	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 2.5 2.5 2.5	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.0 3.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.5 9.0 9.0 9.0	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5	MTN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5	MEAN 12.5 13.5 13.5 13.5 15.0 16.5 17.5 19.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5 4.0 5.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.5 2.0 2.5 2.5 3.5 4.0	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.5 4.0 5.0	MAX 7.5 6.0 8.5 8.5 7.5 6.0 8.0 10.0 11.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 9.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 9.0 10.0 12.0	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0	MTN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5 4.0 5.0 5.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.5 2.0 2.5 2.5 3.5 4.0	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.0 3.5 4.0 5.0	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 9.0 9.0 10.0 12.0	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.5 19.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0
DAY 1 2 3 4 5 6 7 8 9 10	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5 3.5 5.0 5.0 5.5 6.0	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 2.5 3.5 4.0 5.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.5 4.0 5.0 5.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 7.5 9.5 8.0	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5 16.5	MIN APRIL 13.0 12.5 12.0 10.5 9.0 9.0 9.0 9.0 10.0 12.0 14.0	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.5 19.0 19.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 3	MAX 7.5 6.5 3.5 3.5 3.5 4.0 5.0 5.5 6.0 6.0	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 2.5 3.5 4.0 5.0 5.0 5.0	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.0 3.5 4.0 5.0 5.5 5.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 7.5 9.5 8.0 7.0 7.0	MEAN 6.5 6.0 7.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5 16.5 15.5	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 9.0 10.0 12.0 14.0 14.0 14.5	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.0 14.5	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 18.0 19.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 16.5 17.0 17.0 16.5 17.0	MEAN 12.5 13.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 18.0 17.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 7.5 5.0 4.5 3.5 3.5 4.0 5.5 6.0 6.0 5.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 2.5 2.5 3.5 4.0 5.0 5.0 4.0 3.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 5.0 5.5 5.5 5.5 5.0	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 7.0 6.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 8.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5 16.5 15.5 15.5 16.5	MIN APRIL 13.0 12.5 12.0 10.5 9.0 9.0 10.0 12.0 14.0 14.5 14.0 14.5	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.5 14.5	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 18.0 16.5 14.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 16.5 14.0 13.5	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.5 18.0 17.5 16.0 13.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 7.5 6.5 5.0 4.5 3.5 3.5 3.5 4.0 5.5 6.0 5.5 4.0	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 2.5 3.5 4.0 5.0 5.0 5.0 5.0 3.0 3.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.0 3.0 3.0 5.0 5.5 5.5 5.5 5.5 5.0 4.0 3.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0 10.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 7.0 6.5 8.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.0 8.0 7.0 8.0 9.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5 16.5 15.5 16.5 19.0	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 9.0 10.0 12.0 14.0 14.5 14.0 14.0 14.0	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.5 17.5	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.0 19.0 19.0 18.0 16.5 14.0 14.5	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 16.5 14.0 13.5 13.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 17.5 16.0 13.5 13.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 7.5 6.5 5.0 4.5 3.5 3.5 4.0 5.5 6.0 6.0 5.5 4.0 5.5 4.0 5.5	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 2.5 3.5 4.0 5.0 5.0 5.0 4.0 3.0 3.0 3.0	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 5.0 5.5 5.5 5.0 4.0 3.5 4.0	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0 10.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 7.5 9.5 8.0 7.0 7.0 6.5 8.5 10.0	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.0 8.0 7.0 8.0 7.0 8.0 9.5 10.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 15.5 15.5 15.5 16.5 19.0 20.5	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 10.0 12.0 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.5 17.5 19.5	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.0 19.0 19.0 18.0 14.5 14.0 14.5 19.5 19.5 19.5 19.0 19.0 14.0 14.0 14.5 19.5 1	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 16.5 14.0 13.5 13.0 14.0	MEAN 12.5 13.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 17.5 16.0 13.5 13.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 7.5 5.0 4.5 3.5 3.5 4.0 5.5 6.0 6.0 5.5 4.5 4.0 5.5 4.0 5.5 4.0 5.5	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.5 2.5 2.5 3.5 4.0 5.0 5.0 4.0 3.0 3.0 3.0 4.5	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.0 3.0 3.5 5.5 5.0 4.0 3.5 5.5 5.0 4.0 3.0	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0 10.5 12.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 7.0 6.5 8.5 10.0 9.0	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.0 8.0 7.0 8.0 10.5 10.5 10.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 11.0 11.5 13.0 15.5 15.5 15.5 15.5 15.5 19.0 20.5 22.5	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.0 9.0 10.0 12.0 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 12.5 14.0 14.5 14.0 14.5 12.5 12.	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 14.5 15.5 17.5 19.5 21.5	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.0 19.0 18.0 16.5 14.0 14.5 14.5 17.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 16.5 14.0 13.5 13.0 14.0 15.5	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 17.5 16.0 13.5 13.5 13.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 7.5 5.0 4.5 3.5 3.5 5.5 6.0 5.5 6.0 5.5 4.5 4.0 5.0 5.0 6.0 5.5 4.5	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 3.5 4.0 5.0 4.0 3.0 3.0 3.0 4.5 5.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.5 4.0 5.0 5.5 5.5 4.0 3.5 4.0 3.5 4.0 3.5 4.0 5.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0 10.5 12.0 9.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 7.0 6.5 8.5 10.0 9.0 7.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 9.0 10.0 9.5 8.0 9.5 10.5 10.5 8.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 13.0 15.5 16.5 15.5 16.5 19.0 20.5 22.5 24.0	MIN APRIL 13.0 12.5 12.0 10.5 9.0 9.0 10.0 12.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 14.5 15.5 17.5 19.5 21.5 23.0	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 18.0 16.5 14.0 14.5 15.5 17.0 17.0 17.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 16.5 14.0 13.5 13.0 14.0 15.5 14.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 17.5 16.0 13.5 13.5 13.5 15.0 16.5 16.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 7.5 6.5 4.5 3.5 3.5 4.0 5.5 6.0 5.5 6.0 5.5 4.0 5.0 5.0 6.0 5.5 6.0 5.5	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 2.5 3.5 4.0 5.0 5.0 3.0 3.0 4.5 5.0 5.0	MEAN 7.5 5.5 4.5 4.0 3.0 3.0 3.0 3.5 4.0 5.5 5.5 5.5 5.5 4.0 3.5 4.0 3.5 4.0 5.5 5.0 4.0 3.5	MAX 7.5 6.0 8.5 7.5 6.0 8.0 10.0 11.0 10.0 8.5 7.5 9.0 10.5 12.0 11.0 9.5 7.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 6.5 8.5 10.0 9.0 7.5 7.5	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 9.5 8.0 9.5 10	MAX 14.0 13.5 14.5 14.0 13.0 11.5 13.0 15.5 16.5 15.5 16.5 19.0 20.5 22.5 24.0 25.0	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 9.0 10.0 12.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.0 15.5 17.5 19.5 21.5 23.5	MAX 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 16.5 14.0 14.5 15.5 17.0 14.5	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 16.5 14.0 13.5 13.0 14.0 15.5 14.0 15.5 13.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 18.0 18.5 16.0 13.5 13.5 15.0 16.5 16.0 13.5
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DAY 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 20	MAX 7.5 5.5 4.5 3.5 3.5 5.5 6.0 5.5 6.0 5.5 4.5 5.5 6.0 5.5 4.5 5.5 6.5 6.5 6.5 8.0 9.0 9.0 8.5 8.5 8.5 9.0 9.0	MIN FEBRUARY 6.5 4.5 4.0 3.5 2.5 2.0 2.5 3.5 4.0 5.0 5.0 4.0 3.0 3.0 4.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	MEAN 7.5 5.5 4.0 3.0 3.0 3.5 4.0 5.0 5.5 5.5 5.5 4.0 3.5 4.0 3.5 4.0 3.5 4.0 3.5 4.0 5.5 5.5 5.5 8.0 8.0 8.0 8.0 8.0 8.0	MAX 7.5 6.0 8.5 7.5 7.5 6.0 10.0 10.0 10.0 10.0 10.0 10.0 10.5 12.0 10.5 7.5 7.0 8.0 7.5 7.5 7.0 7.5 7.5 7.5 7.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 6.5 7.5 9.5 8.0 7.0 7.0 7.0 6.5 8.5 10.0 9.0 7.5 6.5 5.5 6.5 5.5 6.5 7.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 9.0 10.0 9.5 8.0 9.5 10.5 10.5 10.5 10.5 10.5 10.5 7.0 8.5 7.0 6.5 7.0 8.5 7.0 7.0 8.5 7.0 7.5 7.0 6.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	MAX 14.0 13.5 14.5 14.0 13.0 11.5 13.0 11.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5 24.0 25.0 23.0 20.5 14.5 14.5 14.5 14.5 14.0 13.0 20.5 14.5 14.0 13.0 20.5 14.5 14.0 13.0 20.5 24.0 25.5 14.5 14.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 15.5 14.5 15.5 14.5 15.5 15.5 14.5 15.5 14.5 15.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 15.5 14.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 14.5 15.5 14.5 14.5 15.5 14.5 15.5 14.5 14.5 15.5 14.5 14.5 14.5 14.5 14.5 15.5 14.5 15.5 14.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 15.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.5 15.5 14.0 13.0 13.5 14.0 13.0 13.5 14.0 13.0	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.0 9.0 10.0 12.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.5 12.0 12.5 13.5 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.5 13.0 12.5 13.5 13.0 12.5 13.5 13.0 12.5 13.5 13.5 13.0 12.5 13.5 13.5 13.5 13.5 13.5 13.0 12.5 13	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 14.5 15.5 17.5 19.5 23.0 23.5 22.0 19.0 14.0 14.0 14.0 14.0 13.5 13.0 14.0 14.0 15.5 14.0 15.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 14.5 15.5 17.5 19.5 10.5 12.5 12.0 14.5 15.0 14.5 15.5 1	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 18.0 16.5 14.0 14.5 15.5 17.0 17.0 14.5 13.5 13.5 14.0 14.5 15.5 14.0 14.5 15.5 19.0 18.0 16.5 19.0 18.0 14.5 19.0 18.0 14.5 19.5 19.0 18.0 14.5 19.5 19.0 19.0 18.0 14.5 19.5 19.0 18.0 14.5 19.5 19.0 18.0 14.5 19.5 19.0 18.0 14.5 19.5 19.0 18.0 14.5 19.5 19.0 14.5 19.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 15.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.0 15.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 13.5 19.0 14.5 19.0 15.5 19.0 15.5 19.0 14.5 19.5 19.0 14.5 19.5 19.0 15.5 19.0 15.5 19.0 15.5 19.0 15.5 19.0 15.5 19.0 19.0 15.5 19.0 19.5 10.5 1	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 18.0 17.5 17.0 17.0 17.0 17.0 14.0 13.5 14.0 13.5 14.0 13.5 14.0 12.5 13.0 14.5 13.0 14.5 13.0 14.5 13.0 12.5 13.5 15.0 16.5 17.5 19.0 20.0	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 18.0 18.5 18.0 18.5 16.0 13.5 13.5 15.0 16.0 13.5 13.0 12.5 13.0 12.5 14.5 14.5 14.5 16.0 17.5 19.0 19.5 19.0 19.0 19.0 19.5 19.5 20.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31	MAX 7.5 5.5 4.5 3.5 3.5 4.5 5.5 6.0 5.5 6.0 5.5 6.0 5.5 6.5 6.5 8.0 9.0 9.0 9.0 8.5 8.5 8.5 9.0 9.0 9.0 9.0 8.5 8.5	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 3.5 4.0 5.0 5.0 4.0 3.0 3.0 3.0 3.0 3.0 3.0 5.5 6.5 8.0 8.5 7.5 7.0 7.0 8.0 8.5 7.5 7.0 7.0 8.0 8.5 7.5 7.0 7.0 8.0 8.5 7.5 7.0 7.0 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.5 4.0 5.5 5.5 5.5 5.5 5.5 4.0 3.5 4.0 3.5 4.0 5.5 5.5 5.5 5.5 5.5 5.5 8.0 8.0 8.0 8.0 8.0 8.0	MAX 7.5 6.0 8.5 7.5 7.5 6.0 10.0 11.0 10.0 11.0 10.0 11.0 10.5 12.0 11.0 9.5 7.5 7.0 8.0 7.5 7.0 8.0 7.5 7.0 8.0 7.5 7.0 8.5 7.5 7.5 7.5 12.5 7.5	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 7.5 9.5 8.0 7.0 7.0 6.5 8.5 10.0 9.0 7.5 6.5 5.5 5.5 6.5 7.0 7.0 6.5 7.5 9.0 10.0 7.5 9.0 10.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 9.0 7.5 7.5 9.5 10.0 7.5 7.5 9.5 10.0 7.5 7.5 9.5 10.0 7.5 7.5 9.5 10.0 7.5 7.5 9.5 10.0 7.5 7.5 9.5 10.0 7.0 7.5 7.0 10.0 7.5 7.0 7.5 9.5 7.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 9.0 10.0 9.5 8.0 7.0 9.5 10.0 8.0 9.5 10.5 10.5 10.5 10.0 7.5 7.0 6.0 7.0 9.5 10.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.5 7.0 7.5 7.0 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.5 7.5 7.5 7.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 13.0 15.5 16.5 15.5 16.5 19.0 20.5 22.5 24.0 25.0 23.0 20.5 14.0 13.0 20.5 24.0 25.0 23.0 10.5 14.0 13.5 14.5 14.0 13.5 14.5 14.0 13.5 14.5 14.5 14.0 13.5 14.5 14.5 14.5 14.5 14.5 14.0 14.5 1	MIN APRIL 13.0 12.5 12.0 12.0 10.5 9.5 9.0 10.0 12.0 14.5 13.5 13.5 13.0 12.5 13.0 12.0 12.0 13.0 13.0 12.0 13.0 13.0 13.0 13.0 12.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 12.0 13	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.5 17.5 19.5 22.0 23.5 22.0 19.0 16.0 14.0 14.0 15.5 12.5 13.0 13.0 14.5 15.5 1	MAX 13.5 13.5 14.0 14.5 16.0 17.0 19.5 19.5 19.5 19.0 19.0 18.0 16.5 14.0 14.5 15.5 17.0 14.5 13.5 14.0 14.5 15.5 17.0 18.5 19.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 19.5 19.0 14.5 19.5 19.0 19.0 19.0 14.5 19.5 19.0 19.0 19.0 19.0 14.5 19.5 19.0 19.0 19.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 13.5 14.0 14.5 13.5 14.0 14.5 15.5 17.0 15.5 17.0 14.5 13.5 14.0 15.5 17.0 15.5 17.0 15.5 17.0 15.5 17.0 15.5 17.0 15.5 17.5 19.0 15.5 17.5 19.0 15.5 17.5 19.0 15.5 17.5 19.5 19.0 15.5 17.5 19.0 15.5 17.5 19.0 18.5 19.5 19.0 15.5 17.5 19.0 18.5 19.5 17.5 19.0 18.5 19.5 19.5 19.0 15.5 17.5 19.0 18.5 19.5 10.5 1	MIN MAY 11.5 13.0 13.0 13.0 14.0 15.5 16.5 17.0 17.0 17.0 17.0 17.0 13.5 13.0 14.0 13.5 13.0 14.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 13.0 13.0 17.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 13.5 13.0 12.5 13.0 13.5 13.0 12.5 13.0 12.5 13.0 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.5 15.0 12.5 15.0 12.5 13.0 12.5 13.5 15.0 12.5 13.5 15.0 12.5 15.0 12.5 13.5 15.0 12.5 15.0 12.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 16.5 17.5 15.0 15.5 15.0 15.5 15.0 16.5 17.5 17.0 12.5 15.0 15.5 15.0 15.5 15.0 16.5 17	MEAN 12.5 13.5 13.5 15.0 16.5 17.5 19.0 18.5 18.0 18.0 13.5 16.0 13.5 13.5 15.0 13.5 15.0 13.5 16.0 13.5 13.0 12.5 13.5 14.5 14.5 16.0 17.5 14.5 15.0 15.5 15.0 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 15.0 15.5 16.0 13.5 16.0 13.5 16.0 17.5 16.0 13.5 16.0 17.5 16.0 13.5 16.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 13.5 16.5 16.5 16.0 17.5 16.5 16.5 16.5 16.0 17.5 16.5 16.0 17.5 16.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5 18.0 17.5 18.0 17.5 18.0 17.5 18.0 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 19.5
DAY 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	MAX 7.5 6.5 5.0 4.5 3.5 3.5 4.0 5.5 6.0 5.5 6.0 5.5 4.0 5.0 5.5 6.5 8.0 9.0 9.0 8.5 8.5 8.5 8.5 9.0 10.0 9.0 8.5	MIN FEBRUARY 6.5 4.0 3.5 2.5 2.0 2.5 3.5 4.0 5.0 5.0 4.0 3.0 3.0 3.0 4.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	MEAN 7.5 5.5 4.0 3.0 3.0 3.0 3.5 4.0 5.5 5.5 5.5 4.0 3.5 4.0 3.5 4.0 5.5 5.5 6.0 6.0 6.0 7.5 8.5 8.0 8.0 8.0 8.0	MAX 7.5 6.0 8.5 7.5 7.5 6.0 10.0 11.0 10.0 11.0 10.0 11.0 10.5 12.0 11.0 11.0 9.5 7.5 7.0 8.0 7.5 7.0 8.0 7.5 7.5 7.0 8.5 7.5 12.5 13.0	MIN MARCH 6.0 5.5 6.0 7.5 6.0 4.5 7.5 9.5 8.0 7.0 6.5 8.5 10.0 9.0 7.5 7.5 6.5 5.5 6.5 5.5 6.5 7.0 6.5 7.5 9.0 10.0 7.5 9.0 10.0 7.5 12.0	MEAN 6.5 6.0 7.0 8.0 6.5 5.0 7.0 9.0 10.0 9.5 8.0 7.5 7.0 7.5 7.0 6.0 7.5 7.0 6.0 7.5 7.0 6.0 7.5 7.0 6.5 10.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 7.0 8.0 7.0 8.0 7.0 8.0 7.5 7.0 7.5 7.0 7.0 8.0 7.5 7.0 7.5 7.0 7.0 8.0 7.5 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.0 7.0 7.5 7.5 7.0 7.5 7.5 7.0 7.5 7.5 7.5 7.0 7.5 7.5 7.5 7.5 7.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MAX 14.0 13.5 14.5 14.0 13.0 11.5 13.0 15.5 16.5 15.5 16.5 19.0 20.5 22.5 24.0 23.0 20.5 17.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.0 13.0 20.5 24.0 25.0 23.0 23.0 13.5 14.5 14.5 14.5 14.5 14.0 15.5 16.5 19.0 10.5 11.5 10.5 1	MIN APRIL 13.0 12.5 12.0 10.5 9.5 9.0 10.0 12.0 10.0 12.0 14.0 14.0 14.0 14.5 14.0 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 14.0 14.5 14.5 15.5 13.0 12.5 12.5 13.0 12.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.5 12.0 10.0 12.0 10.0 12.0 10.0 12.0 10.0 12.0 12.0 12.0 10.0 12.0 14.0 14.5 14.0 14.5 14.5 14.5 13.0 12.5 12.5 12.5 12.5 12.5 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.0 12.0 12.5 13.0 12.0 12.0 12.5 13.0 12.5 13.0 12.0 12.0 12.5 12.5 13.0 12.0 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12	MEAN 13.5 13.0 13.0 12.0 10.5 9.5 10.0 11.5 14.0 15.0 15.5 17.5 19.5 21.5 23.5 22.0 19.0 16.0 14.0 14.0 14.0 15.5 12.5 12.0 12.5 12.0 12.5 12.0 12.0 12.0 14.0 14.5 15.0 15.5 12.5 12.5 12.0 15.5 12.5 12.0 15.5 12.5 12.5 12.5 12.5 12.0 15.5 12.5 12.5 12.5 12.5 12.0 15.5 12.5 12.5 12.0 15.5 12.5 12.5 12.0 15.5 12.5 12.0 15.5 12.5 12.0 15.5 12.5 12.0 15.5 12.0 15.5 12.0 15.5 12.5 12.0 15.5 12.5 12.0 15.5 12.0 15.5 12.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 12.0 15.5 1	MAX 13.5 13.5 14.0 14.5 16.0 17.0 18.5 19.5 19.5 19.0 19.0 18.0 16.5 14.0 14.5 15.5 17.0 14.5 13.5 14.0 14.5 13.5 13.5 14.0 14.5 13.5 13.5 14.0 14.5 15.5 17.0 19.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 15.5 17.0 14.5 19.5 19.0 14.5 19.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.0 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.0 19.0 19.0 19.0 19.0 19.0 19.5 19.5 19.5 19.5 20.0 21.5 23.0 23.0 23.0	MIN MAY 11.5 13.0 13.0 14.0 15.5 16.5 17.0 17.0 17.0 17.0 17.0 16.5 14.0 13.5 13.0 14.0 13.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 15.0 16.5 17.5 17.5 17.5 17.5 19.0 20.0 20.5 22.0	MEAN 12.5 13.5 13.5 15.0 16.5 19.0 18.5 18.0 18.0 13.5 16.0 13.5 13.5 15.0 13.5 13.0 12.5 13.5 14.5 15.5 15.0 15.5 14.5 15.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	2R
1	23.5	22.5	23.0	26.0	25.0	25.5	28.5	26.0	27.0	19.5	19.0	19.0
2	23.5	22.5	23.0	27.5	25.0	26.0	29.0	26.5	27.5	19.5	19.0	19.0
3	23.0	22.0	22.5	29.0	26.0	27.5	27.0	25.0	26.0	20.5	19.0	20.0
4	22.5	21.0	22.0	30.0	27.5	28.5	28.0	26.5	27.5	23.0	20.5	21.5
5	22.5	21.0	21.5	29.5	28.0	28.5	28.0	27.0	27.5	24.5	21.5	22.5
6	22.5	21.5	22.0	28.5	26.5	27.5	27.5	25.5	27.0	24.0	21.5	22.5
7	21.5	18.5	19.5	27.5	25.5	26.5	26.5	24.5	25.5	24.0	21.5	22.5
8	20.0	19.0	19.5	27.0	25.0	26.0	25.5	24.0	24.5	23.5	21.5	22.5
9	20.5	19.0	20.0	27.0	25.0	25.5	25.5	23.0	24.0			
10	22.5	20.0	21.0	27.0	25.0	26.0	25.5	23.0	24.0			
11	23.5	21.5	22.5	26.5	25.0	25.5	26.0	23.5	24.5			
12	24.0	22.5	23.5	26.0	24.0	25.0	26.5	24.5	25.5			
13	24.0	22.5	23.0	25.0	23.5	24.5	27.5	25.0	26.0			
14	22.5	19.5	21.0	25.0	23.5	24.0	28.0	25.5	26.5	22.5	20.5	21.5
15	20.0	18.0	18.5	26.0	23.5	24.5	28.0	26.0	27.0	22.0	21.0	21.5
16	19.5	17.5	18.5	26.5	24.0	25.0	28.0	27.0	27.5	23.0	21.5	22.5
17	20.0	18.5	19.5	27.5	24.5	26.0	28.5	26.5	27.5	23.0	22.0	22.5
18	20.5	19.0	20.0	27.5	26.0	26.5	29.0	26.5	27.5	22.5	21.0	22.0
19	21.0	19.5	20.5	28.0	25.5	26.5	28.5	27.0	27.5	23.0	21.0	21.5
20	21.5	20.5	21.0	27.0	25.5	26.5	28.5	26.5	27.0	22.5	20.5	21.5
21	23.0	21.0	21.5	26.5	25.5	26.0	28.0	26.0	26.5	22.5	21.5	22.0
22	24.5	23.0	23.5	28.0	25.5	26.5	26.0	25.0	25.5	24.0	22.0	23.0
23	26.0	23.5	24.5	28.5	26.0	27.0	25.5	24.5	25.0	24.0	22.5	23.0
24	27.0	24.5	25.5	27.5	25.5	26.5	24.5	23.0	24.0	23.5	22.0	22.5
25	27.5	25.0	26.0	26.0	25.0	25.5	24.0	22.5	23.5	22.0	21.0	21.5
26	28.0	25.5	26.5	25.0	24.0	24.5	23.5	22.5	23.0	21.0	19.5	20.5
27	29.0	25.5	27.0	24.0	23.0	23.5	24.5	22.5	23.5	19.5	18.0	18.5
28	26.5	25.0	26.0	23.5	23.0	23.0	23.5	22.5	23.0	18.5	17.0	18.0
29	25.5	24.0	25.0	25.5	23.5	24.5	22.5	19.5	21.0	18.5	17.5	18.0
30	25.5	24.5	25.5	27.0	24.5	25.5	20.5	18.5	19.5	18.5	17.5	18.0
31				28.0	25.5	26.5	19.5	18.5	19.0			
MONTH	29.0	17.5	22.4	30.0	23.0	25.8	29.0	18.5	25.2	24.5	17.0	21.1
YEAR	30.0	0.5	14.8									

WATER TEMPERATURE FROM MIDDLE INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	2	N	OVEMBER		D	ECEMBER			JANUARY	
1	15.5	14.5	15.0	11.0	10.0	10.5	13.5	12.5	12.5			
2	15.5	14.0	14.5	12.0	10.5	11.5	12.5	11.5	12.0			
3	16.0	14.5	15.5	13.5	12.0	12.5	11.5	10.5	11.0	1.0	0.5	0.5
4	17.0	16.0	16.5	14.0	13.0	13.5	10.5	9.5	10.0	1.0	0.5	0.5
5	18.0	17.0	17.5	13.5	12.5	13.0	10.5	9.5	10.0	1.5	1.0	1.0
6	18.5	17.5	18.0	12.5	11.0	12.0	10.5	9.5	10.0	2.0	1.0	1.5
7	17.5	16.0	17.0	11.0	10.5	10.5	11.5	10.0	10.5	2.5	1.5	2.0
8	16.0	14.0	15.5	11.0	9.5	10.0	11.0	9.5	10.0	2.5	1.5	2.0
9	14.0	13.0	13.5	10.0	9.5	10.0	10.0	8.5	9.5	2.5	2.0	2.0
10	13.0	12.0	12.5	10.0	9.5	9.5	8.5	6.5	7.5	3.0	2.0	2.5
11	13.5	12.0	12.5	9.5	8.5	9.0	7.5	6.5	7.0	3.5	2.5	3.0
12	14.5	13.0	13.5	8.5	8.0	8.0	7.0	6.0	6.5	4.5	3.0	3.5
13	15.5	14.0	15.0	8.0	7.0	7.5	8.0	7.0	7.5	4.5	3.0	4.0
14	17.0	15.5	16.0	7.5	6.5	7.0	8.5	7.5	8.0	4.0	3.0	3.5
15	17.5	16.5	17.0	8.5	7.0	7.5	8.5	8.0	8.5	4.5	3.0	3.5
16	17.0	16.5	17.0	10.0	8.0	9.0	8.5	8.0	8.0	4.5	3.0	3.5
17	16.5	15.0	16.0	10.0	8.5	9.0	8.0	7.0	7.5	4.5	3.5	4.0
18	15.0	13.5	14.0	10.5	8.5	9.5	7.0	6.5	7.0	4.0	3.5	3.5
19	13.5	12.5	13.0	10.0	8.5	9.0	8.0	7.0	7.5	3.5	2.5	3.0
20	13.0	12.0	12.5	9.5	8.0	9.0	7.5	6.5	7.0	2.5	2.0	2.5
21	13.0	12.0	12.5	9.0	7.5	8.0	6.5	5.5	6.0	2.0	1.5	2.0
22	14.0	12.5	13.5	8.5	7.0	7.5	5.5	4.5	5.5	2.5	1.5	2.0
23	15.0	13.5	14.0	8.0	6.5	7.5	4.5	4.0	4.5	3.5	2.0	3.0
24	16.5	14.5	15.5	8.0	7.0	7.5	5.0	4.5	4.5	4.0	3.5	4.0
25	16.5	15.5	16.0	10.0	7.5	9.0	5.5	4.5	5.0	6.0	4.0	5.5
26	16.0	15.0	15.5	11.5	9.0	10.5	5.0	3.5	4.5	6.0	5.0	5.5
27	15.0	13.5	14.0	12.5	11.5	12.0	4.0	3.0	3.5	5.5	4.5	5.0
28	13.5	11.5	12.5	12.5	11.5	12.0				6.0	4.5	5.0
29	11.5	10.5	11.0	11.5	11.0	11.5						
30	11.0	10.0	10.5	12.5	11.5	12.0						
31	10.5	10.0	10.0							7.5	7.0	7.5
MONTH	18.5	10.0	14.4	14.0	6.5	9.8	13.5	3.0	7.8	7.5	0.5	3.2

WATER TEMPERATURE FROM RIGHT INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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WATER TEMPERATURE FROM RIGHT INTAKE, in (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	75	6 5	75	7 0	6 5	6 5	14 0	13 0	13.0	13 5	11 5	12 5
2	6.5	4.0	5.0	6.5	5.5	6.0	13.5	12.5	13.0	13.5	13.0	13.5
3	5.0	4.0	4.5	8.5	6.0	7.0	14.5	12.0	13.0	14.0	13.0	13.5
4	4.5	3.5	4.0	8.5	7.5	8.0	14.0	12.0	13.0	14.5	13.0	13.5
5	3.5	2.5	3.0	7.5	6.0	6.5	13.0	10.5	12.0	16.0	14.0	15.0
6	3.5	2.5	3.0	6.0	5.0	5.5	11.5	9.5	10.5	17.0	15.5	16.0
7	3.5	2.5	3.0				11.0	8.5	9.5	18.5	16.5	17.5
8	4.0	2.5	3.5	8.0	6.5	7.0	11.5	9.0	10.0	19.5	18.0	18.5
9 10	5.0	3.5	4.0	10.0	7.5	9.0	13.0	10.0	11.5	19.5	17.5	18.0
10	0.0	1.0	5.0	11.0	5.5	10.0	13.5	12.0	10.0	19.0	1/10	10.0
11	6.0	5.0	5.5	10.0	8.0	9.5	16.5	14.0	15.0	19.0	16.5	17.5
12	6.U	5.0	5.5	8.5	7.0	8.0	15.5	14.0	14 5	16.0	16.5	17.5
14	4 5	3.0	4 0	9.0	6.5	8.0	16 5	14.0	15 5	15.0	13.5	14 0
15	4.0	3.0	3.5	10.5	8.5	9.5	18.5	16.0	17.5	14.5	13.0	14.0
16	5.0	3.0	4.0	11.5	10.0	10.5	20.0	18.5	19.5	15.5	14.0	15.0
17	5.5	4.5	5.0	11.0	9.5	10.0	22.5	20.0	21.5	17.0	15.5	16.5
10	6.0	5.0	5.5	9.5	7.5	8.5	24.0	22.0	23.U	14 5	12.0	12 5
20	6.5	5.5	6.0	7.0	6.5	7.0	23.0	20.5	22.0	13.5	12.5	13.0
21	8.0	6.5	7.0	8.0	6.5	7.5	20.5	17.5	18.5	13.5	12.0	12.5
22	9.0	8.0	8.5	7.5	6.5	7.0	17.5	14.5	16.0	14.0	12.5	13.5
23	9.5	0.5	9.0	0.5	5.5	6.0	14.5	13.5	12.5	17.5	15.5	16.0
25	8.0	7.0	7.5	7.5	6.5	7.0	14.0	12.5	13.5	19.0	16.5	17.5
26	8.5	7.5	8.0	7.0	7.0	7.0	13.0	12.0	12.5	18.5	17.5	18.0
27	8.5	8.0	8.0	8.5	7.0	7.5	13.5	11.5	12.5	19.0	17.5	18.5
20				9.5	7.5	0.5	12.0	12.0	12.5	20.0	20.0	20 5
30				12.0	10.5	11.0	12.5	12.0	12.5	22.5	20.5	21.5
31				13.0	12.0	12.5				23.5	21.5	22.5
MONTH	0 5	2 5		12 0	E O	° 0	25 0	0 E	14 0	22 E	11 E	16.0
MONTH	3.5	2.5	5.5	13.0	5.0	8.0	25.0	0.5	14.0	23.5	11.5	10.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN R
DAY	MAX	MIN JUNE 22.0	MEAN	MAX	MIN JULY 25.0	MEAN	MAX	MIN AUGUST 27.0	MEAN	MAX	MIN SEPTEMBE	MEAN R 19.0
DAY 1 2	MAX 23.5 23.5	MIN JUNE 22.0 22.5	MEAN 23.0 23.0	MAX 26.0 27.0	MIN JULY 25.0 25.0	MEAN 25.5 26.0	MAX 29.5 29.5	MIN AUGUST 27.0 27.0	MEAN 28.0 28.0	MAX 19.5 19.5	MIN SEPTEMBE 19.0 19.0	MEAN R 19.0 19.0
DAY 1 2 3	MAX 23.5 23.5 23.0	MIN JUNE 22.0 22.5 22.0	MEAN 23.0 23.0 22.5	MAX 26.0 27.0 29.0	MIN JULY 25.0 25.0 26.0	MEAN 25.5 26.0 27.5	MAX 29.5 29.5 28.5	MIN AUGUST 27.0 27.0 26.5	MEAN 28.0 28.0 27.5	MAX 19.5 19.5 20.5	MIN SEPTEMBE 19.0 19.0 19.0	MEAN R 19.0 19.0 20.0
DAY 1 2 3 4	MAX 23.5 23.5 23.0 22.5	MIN JUNE 22.0 22.5 22.0 21.0	MEAN 23.0 22.5 22.0	MAX 26.0 27.0 29.0 30.0	MIN JULY 25.0 25.0 26.0 27.5	MEAN 25.5 26.0 27.5 28.5	MAX 29.5 29.5 28.5 29.0	MIN AUGUST 27.0 27.0 26.5 27.5	MEAN 28.0 28.0 27.5 28.0	MAX 19.5 19.5 20.5 22.5	MIN SEPTEMBE 19.0 19.0 19.0 20.5	MEAN R 19.0 19.0 20.0 21.5
DAY 1 2 3 4 5	MAX 23.5 23.5 23.0 22.5 22.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0	MEAN 23.0 23.0 22.5 22.0 22.0	MAX 26.0 27.0 29.0 30.0 29.5	MIN JULY 25.0 25.0 26.0 27.5 28.0	MEAN 25.5 26.0 27.5 28.5 29.0	MAX 29.5 29.5 28.5 29.0 28.0	MIN AUGUST 27.0 27.0 26.5 27.5 27.0	MEAN 28.0 27.5 28.0 27.5	MAX 19.5 19.5 20.5 22.5 24.0	MIN SEPTEMBE 19.0 19.0 19.0 20.5 21.5	MEAN R 19.0 19.0 20.0 21.5 22.5
DAY 1 2 3 4 5	MAX 23.5 23.5 23.0 22.5 22.5 23.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0	MEAN 23.0 22.5 22.0 22.0 22.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5	MIN JULY 25.0 25.0 26.0 27.5 28.0 27.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5	MAX 29.5 29.5 28.5 29.0 28.0	MIN AUGUST 27.0 27.0 26.5 27.5 27.0 26.5	MEAN 28.0 28.0 27.5 28.0 27.5	MAX 19.5 19.5 20.5 22.5 24.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5	MEAN TR 19.0 19.0 20.0 21.5 22.5
DAY 1 2 3 4 5 6 7	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 22.0 19.0	MEAN 23.0 22.5 22.0 22.0 22.5 20.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5	MAX 29.5 29.5 28.5 29.0 28.0 28.0 28.0	MIN AUGUST 27.0 27.0 26.5 27.5 27.0 26.5 25.0	MEAN 28.0 27.5 28.0 27.5 27.5 26.0	MAX 19.5 20.5 22.5 24.0 24.0 24.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5	MEAN R 19.0 19.0 20.0 21.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0 20.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 22.0 19.0 18.5	MEAN 23.0 23.0 22.5 22.0 22.0 22.5 20.5 19.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.5	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5 25.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0	MAX 29.5 29.5 28.5 29.0 28.0 28.0 26.5 26.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5	MEAN 28.0 27.5 28.0 27.5 27.5 26.0 25.0	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0 20.0 20.0 21.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 22.0 19.0 18.5 19.0	MEAN 23.0 23.0 22.5 22.0 22.0 22.5 20.5 19.5 20.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.5 27.0	MIN JULY 25.0 25.0 26.0 27.5 28.0 27.0 25.5 25.0 25.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5	MAX 29.5 29.5 29.0 28.0 28.0 26.5 26.0 25.5	MIN AUGUST 27.0 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5	MEAN 28.0 27.5 28.0 27.5 27.5 26.0 25.0 24.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 24.0 23.5	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5	MEAN 19.0 19.0 20.0 21.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0 20.0 21.0 22.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 22.0 19.0 18.5 19.0 20.0	MEAN 23.0 22.5 22.0 22.0 22.5 20.5 19.5 20.0 21.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.5 27.0 27.0	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0	MAX 29.5 29.5 28.5 29.0 28.0 28.0 26.5 26.0 25.5 26.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5	MEAN 28.0 27.5 28.0 27.5 27.5 26.0 25.0 24.5 24.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 24.0 24.0 23.5 	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10	MAX 23.5 23.5 23.0 22.5 23.0 22.0 20.0 21.0 22.5 23.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 22.0 19.0 19.0 20.0 21.5	MEAN 23.0 22.5 22.0 22.0 22.5 20.5 20.5 20.0 21.0 22.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.5 27.0 27.0 27.0 27.0	MIN JULY 25.0 25.0 27.0 27.0 25.5 25.0 25.0 25.0 25.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.5 26.0 25.5 26.0	MAX 29.5 29.5 28.5 29.0 28.0 28.0 26.5 26.0 25.5 26.0	MIN AUGUST 27.0 26.5 27.0 26.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5	MEAN 28.0 27.5 28.0 27.5 26.0 25.0 24.5 24.5 24.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 23.5 23.5 22.5 22.5 22.5 23.0 22.0 20.0 21.0 22.5 23.5 24.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 21.0 19.0 19.0 18.5 19.0 20.0 21.5 22.5	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.5 27.0 27.0 27.0 27.0 26.5 26.5	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 24.0	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0	MAX 29.5 29.5 28.5 28.0 28.0 26.5 26.0 26.0 26.0 27.0	MIN AUGUST 27.0 27.0 27.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 24.5	MEAN 28.0 27.5 28.0 27.5 26.0 25.0 25.0 24.5 24.5 24.5 25.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 23.5 23.5 22.5 22.5 22.5 23.0 22.0 20.0 21.0 22.5 23.5 24.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 18.5 19.0 20.0 21.5 22.5 22.5	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5 23.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 27.0 27.0 26.5 26.0 25.5	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0 25.5 25.0 24.5	MAX 29.5 28.5 29.0 28.0 26.5 26.0 25.5 26.0 25.5 26.0 27.0 28.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 23.5 24.5 25.5	MEAN 28.0 27.5 28.0 27.5 26.0 25.0 24.5 24.5 24.5 24.5 25.5 26.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0 20.0 21.0 22.5 23.5 24.0 24.0 22.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 19.0 20.0 21.5 22.5 22.5 20.0	MEAN 23.0 22.5 22.0 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5 23.0 21.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 27.0 26.5 26.0 25.5 25.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0 25.5 25.0 24.5 24.0	MAX 29.5 28.5 29.0 28.0 28.0 26.0 25.5 26.0 25.5 26.0 27.0 28.0 28.0 28.5	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 24.5 25.5 25.5	MEAN 28.0 27.5 28.0 27.5 26.0 24.5 24.5 24.5 24.5 25.5 26.5 27.0	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 2.5	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 20.5	MEAN R 19.0 19.0 20.0 21.5 22.5 22.5 22.5 22.5 21.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 23.5 23.5 23.0 22.5 22.5 23.0 22.0 20.0 21.0 22.5 24.0 24.0 24.0 22.5 20.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 20.0 20.0 21.5 22.5 22.5 20.0 18.0	MEAN 23.0 22.5 22.0 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5 23.5 23.0 21.0 18.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 27.0 26.5 26.0 25.5 25.0 26.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 25.0 24.5 24.0 24.5	MAX 29.5 28.5 29.0 28.0 26.0 25.5 26.0 25.5 26.0 27.0 28.0 28.5 28.5	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 24.5 25.5 24.5 25.5 26.0 26.5	MEAN 28.0 27.5 28.0 27.5 26.0 24.5 24.5 24.5 24.5 25.5 26.5 27.0 27.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 20.5 21.0	MEAN R 19.0 19.0 20.0 21.5 22.5 22.5 22.5 22.5 21.5 21.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 23.5 23.0 22.5 22.5 22.5 23.0 22.0 20.0 21.0 22.5 23.5 24.0 24.0 24.0 22.5 23.5 24.0 24.5 20.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 20.0 21.5 22.5 22.5 20.0 18.0 17.5	MEAN 23.0 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 21.0 22.5 23.5 23.0 21.0 18.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 26.5 25.0 25.5 25.0 26.0 26.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 23.5 23.5 23.5 23.5	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0 24.5 24.0 24.5 25.0	MAX 29.5 29.5 28.0 28.0 28.0 26.5 26.0 26.0 27.0 28.5 26.0 28.5 28.5	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 23.5 23.5 23.5 23.5 23.5 24.5 25.0 24.5 25.0 24.5 25.5 26.0 26.5	MEAN 28.0 27.5 28.0 27.5 26.0 25.0 24.5 24.5 24.5 25.5 26.5 27.0 27.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0 23.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN R 19.0 20.0 21.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 23.5 23.0 22.5 22.5 23.0 22.0 20.0 21.0 22.5 23.5 24.0 24.0 22.5 20.0 21.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 19.0 19.0 18.5 19.0 20.0 21.5 22.5 22.5 20.0 18.0 17.5 19.0	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 21.0 22.5 23.5 23.0 21.0 18.5 20.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 26.5 26.0 26.5 25.0 26.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 23.5 23.5 23.5 23.5 24.0 24.5	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 24.5 24.5 24.5 24.5 25.0 24.5 25.0 26.0	MAX 29.5 29.5 28.5 28.0 28.0 26.5 26.0 26.0 27.0 28.0 28.5 28.5 28.5 28.5 28.5	MIN AUGUST 27.0 27.5 27.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 23.5 24.5 25.5 26.0 26.0 27.5 27.5	MEAN 28.0 28.0 27.5 28.0 27.5 26.0 25.0 24.5 24.5 24.5 24.5 25.5 26.5 27.5 26.5 27.5 26.5 27.5 26.0 27.5 24.5 24.5 24.5 25.5 26.0 25.5 26.0 25.5 24.5 24.5 24.5 24.5 25.5 26.5 27.5 26.5 26.0 25.5 26.5 27.5 27.5 27.5 27.5 27.5 28.0 27.5 28.0	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0 23.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN R 19.0 20.0 21.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 23.5 23.5 22.5 22.5 22.5 23.0 22.0 20.0 21.0 22.5 24.0 24.0 24.0 24.0 24.5 20.0 19.5 21.0 21.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 18.5 19.0 20.0 21.5 22.5 20.0 18.0 17.5 19.0 19.5	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5 23.0 21.0 18.5 18.5 20.0 20.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 27.0 27.0 25.5 25.0 26.0 26.5 25.0 26.0 26.5 27.5 28.0	MIN JULY 25.0 26.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.0 25.5 26.0 25.5 26.0 24.5 24.0 24.5 24.0 24.5 25.0 26.0 26.5	MAX 29.5 28.5 29.0 28.0 28.0 26.5 26.0 25.5 26.0 25.5 26.0 28.0 28.0 28.5 28.5 28.5 28.5 29.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 23.5 23.5 23.5 23.5 23.5 24.5 25.5 26.0 26.5 27.5 27.5 27.5 27.5 27.5 27.5	MEAN 28.0 27.5 28.0 27.5 26.0 25.0 24.5 24.5 24.5 24.5 25.5 26.5 27.0 27.5 28.0 27.5 28.0 24.5 24.5 24.5 26.5 27.5 28.0 27.5 28.0 24.5 26.0 24.5 24.5 24.5 24.5 26.5 27.5 28.0 27.5 28.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 26.5 27.5 28.0 27.5 28.0 24.5 26.5 27.5 28.5 28.5 28.0 24.5 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 28.5 28.5 28.5 27.5 28.5 28.5 28.5 27.5 28.5 27.5 28.5 28.5 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 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.0 27.5 28.5 27.5 28.5 27.5 28.0 27.5 28.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.5 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 27.5 28.0	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0 23.0 23.0 23.0 23.0	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN R 19.0 20.0 21.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 23.5 23.5 22.5 22.5 22.5 22.0 22.0 22.0 22.0 21.0 22.5 24.0 24.0 22.5 20.0 19.5 21.0 21.5 22.0	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 20.0 21.5 22.5 20.0 18.0 17.5 19.0 19.5 21.0	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 22.5 23.5 23.0 21.0 18.5 18.5 20.0 21.5	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 27.0 26.5 25.5 25.0 26.0 26.5 27.5 28.0 26.5 27.5 28.0 28.5 27.5 28.0 28.5 27.0 26.0 26.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.5 28.5 27.5 27.5 28.5 27.5 28.5 27.5 27.0 27.0 27.0 27.5 28.5 27.5 27.5 28.5 27.5 27.0 27.0 27.5 28.5 27.5 28.5 27.5 27.0 27.0 27.5 28.5 27.5 27.5 27.5 27.0 27.0 26.0 26.0 26.0 26.0 26.0 27.0 26.0 26.0 27.0 26.0 26.0 27.0 26.0 26.0 27.0 26.0 26.0 27.0 26.0 26.0 26.0 27.5 25.5 25.0 26.0 27.5 26.0 26.0 26.0 27.5 26.0 27.5 28.0 28.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0 25.5 25.0 24.5 24.0 24.5 25.0 26.5	MAX 29.5 28.5 29.0 28.0 28.0 26.0 25.5 26.0 25.5 26.0 27.0 28.0 28.5 28.5 28.5 28.5 29.0 29.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 24.5 25.5 26.0 26.5 27.5 27.0 26.5	MEAN 28.0 27.5 28.0 27.5 26.0 24.5 24.5 24.5 24.5 25.5 26.5 27.0 27.5 26.5 27.5 26.5 27.5 28.0 27.5 28.0 28.0 28.0 24.5 24.5 24.5 25.5 26.5 27.5 28.0 27.5 28.0 28.0 28.0 28.0 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 24.5 24.5 26.5 27.5 28.0 27.5 28.0 24.5 28.5 27.5 28.0 27.5 28.0 24.5 28.5 27.5 28.5 27.5 28.0 27.5 28.0 24.5 27.5 28.0 27.5 28.0 28.0 24.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.5 27.5 28.0 27.5 28.0 27.5 28.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 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 28.0 28.0 27.5 28.0	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0 23.0 23.0 23.0 23.0 22.5	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN R 19.0 19.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5 21.5 22.5 21.5 21.5 22.5 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 22.5 22.5 21.5 21.5 22.5 21.5 22.5 21.5 22.5 22.5 22.5 21.5 22.5 22.5 21.5 21.5 22.5 21.5 21.5 22.5 21.5 22.5 21.5 21.5 21.5 22.5 21.
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 23.5 23.5 22.5 22.5 22.5 22.0 22.0 22.0 22.0 21.0 22.5 24.0 24.0 22.5 20.0 19.5 21.0 21.5 22.0 0 21.5 22.5	MIN JUNE 22.0 22.5 22.0 21.0 21.0 22.0 19.0 19.0 20.0 21.5 22.5 20.0 18.0 17.5 19.0 19.5 21.0 21.5	MEAN 23.0 22.5 22.0 22.5 20.5 19.5 20.0 21.0 21.0 22.5 23.5 23.0 21.0 18.5 20.0 21.0 18.5 20.0 22.5 22.0	MAX 26.0 27.0 29.0 30.0 29.5 28.5 27.5 27.0 27.0 27.0 26.5 25.5 25.0 26.0 26.0 26.5 27.5 28.0 26.0 26.0 27.5 28.5 27.5 28.5 27.5 27.0 27.0 27.0 27.5 28.5 27.5 27.0 27.0 27.0 27.0 27.0 27.0 27.0 27.5 28.5 27.5 28.0 27.0 27.0 27.0 27.0 26.5 25.5 27.5 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.5 26.0 27.5 26.0 27.5 27.5 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 28.0 27.0	MIN JULY 25.0 25.0 27.5 28.0 27.0 25.5 25.0 25.0 25.0 25.0 25.0 25.0 25	MEAN 25.5 26.0 27.5 28.5 29.0 27.5 26.5 26.0 25.5 26.0 25.5 26.0 25.5 25.0 24.5 24.0 24.5 25.0 26.5 26.5 26.5	MAX 29.5 28.5 29.0 28.0 28.0 26.5 26.0 25.5 26.0 27.0 28.0 28.5 28.5 28.5 28.5 29.0 29.0 29.0	MIN AUGUST 27.0 26.5 27.5 27.0 26.5 25.0 24.5 23.5 23.5 23.5 24.5 25.5 24.5 25.5 26.0 26.5 27.5 27.0 27.5 27.0	MEAN 28.0 28.0 27.5 28.0 27.5 26.0 24.5 24.5 24.5 24.5 25.5 26.5 27.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 24.5 24.5 25.5 26.5 27.5 28.0 27.5 26.0 27.5 24.5 24.5 25.5 26.5 27.5 28.0 27.5 26.0 27.5 24.5 24.5 24.5 25.5 26.5 27.5 26.5 27.5 28.0 27.5 26.0 27.5 24.5 24.5 25.5 26.5 27.5 26.5 27.5 27.5 26.5 27.5 27.5 26.5 27.5 26.5 27.5 27.5 26.5 27.5 26.5 27.5 27.5 28.0 27.5 26.5 27.5 26.5 27.5 27.5 27.5 26.5 27.5 27.5 28.0 27.5 26.5 27.5 27.5 28.0 27.5 26.5 27.5 27.5 28.0 27.5 27.5 26.5 27.5 28.0 27.5 27.5 28.0 27.5 27.5 28.0 27.5 27.5 28.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 27.5 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 27.5 28.0 28.0 27.5 27.5	MAX 19.5 19.5 20.5 22.5 24.0 24.0 24.0 23.5 22.5 22.0 23.0 23.0 23.0 23.0 22.5 22.5 22.5	MIN SEPTEMBE 19.0 19.0 20.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21	MEAN R 19.0 19.0 20.0 21.5 22.5 22.5 22.5 22.5 22.5 21.5 21.5 22.5 21.5 22.5 21.5 22.5 21.5
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Figure 24. Physical characteristics, concentrations of constituents, stage, and daily diversion measured at 01389005 Passaic River below Pompton River, at Two Bridges, water year 2002--continued









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

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



Figure 25. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River, at Two Bridges, June 24, 2002.

at Two Bridges.

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





Water-quality measurements acquired at increments of 10 feet.

Water-quality measurements made during a period when no water was 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.

The approximate daily mean discharge of 154 ft³/s for the Passaic River below Pompton River, at Two Bridges on August 8, 2002, was equalled or exceeded 92 percent of the time by all daily mean discharges for the period of record at Passaic River below Pompton River, at Two Bridges.

Figure 26. Cross sectional water-quality measurements with recorded monitor values, at Passaic River below Pompton River, at Two Bridges, August 8, 2002.

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 198

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). 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: May 6 to May 9, May 12 to May 13, May 28 to Jun. 3, Jun. 24 to Jul. 1, Jul. 16 to Jul. 23.

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DIS- CHARGE	TUR- BTD-	UV ABSORB-	UV ABSORB-	BARO- METRIC	OXYGEN,		PH 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	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	55	9.0	.106	.081	765	99	11.6	7.9	667	13.0	8.5	160
FEB													
05	1000	E34	5.5	.104	.076	765	96	12.8	7.9	910	-7.0	3.5	180
MAY													
01	1015	1140	23	.353	.273	756	70	7.5	7.3	304	16.0	12.0	73
SEP													
05	0900	28	5.4	.132	.098	758	64	5.6	7.5	535	23.5	21.5	130

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 15	40.9	14.0	6.54	61.3	103	110	.1	11.1	42.2	376	366	.080	.59
05	47.7	15.5	5.87	98.8	89	173	E.1	12.1	52.2	494	479	.090	.56
01	18.9	6.19	2.54	28.6	46	50.2	E.1	8.3	17.4	208	165	.105	.63
05	32.7	10.9	4.66	51.0	72	85.2	E.1	12.0	37.2	309	293	.100	.52

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 15	.070	3.84	.013	4.4	.20	.96		1.04	1.1	<.1	4.4	1.1	4.4
FEB						~~	~~~~		-			-	
05 MAY	.090	4.00	.024	4.6	.08	.69	.619	.76	.6	<.1	4.4	.6	E1.7
01 SEP	.140	1.03	.011	1.7	.26	.17	.132	.29	2.1	<.1	8.2	2.1	E1.7
05	.128	3.33	.025	3.9	.07	.55	.529	.56	.5	<.1	4.7	.5	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 15 FEB 05 MAY 01	 7.90	170 170 60	5 3 21	
05	3.20	150	11	

			BERYL-			CHRO-				MANGA-			
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
SEP													
05	0900	E2	21.2	<.06	143	.04	<.8	3.7	280	1	80.4	<.01	4
							SILVER.	ZINC.					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
	DATE		TE	(UG/L	(UG/L	(UG/L							
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					
				SEP									
				0	5	.4	<.05	12					

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 05 12	1150 1149 1135	1700 40 40	1400 200 200	530 10 40	SEP 03	1140	1100	600	260

Remark codes used in this report: < -- Less than E -- Estimated value



Figure 27. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01389500 Passaic River at Little Falls, May 6 to 17, 2002.



Figure 28. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01389500 Passaic River at Little Falls, May 28 to June 3, 2002.



Figure 29. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01389500 Passaic River at Little Falls, June 10 to 14, 2002.



Figure 30. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01389500 Passaic River at Little Falls, June 24 to July 1, 2002.





Figure 31. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01389500 Passaic River at Little Falls, July 16 to 23, 2002.
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.--Water years 1998, 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 08	1030	.8	.055	.043	766	72	8.3	7.6	579	12.5	9.5	190	54.5
14	1000	3.2	.030	.022	772	83	11.2	7.5	606	.0	3.5	210	61.9
29 SEP	1000	2.1	.131	.097	765	81	7.8	7.5	472	24.0	17.5	140	40.3
04	1000	2.2	.051	.039	760	70	6.5	7.2	503	27.5	18.5	190	55.2
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)
NOV 08	12.1	2.12	30.2	151	64.9	E.1	12.5	20.7	304	294	.030	.16	.040
14 MAY	13.1	1.69	34.5	146	80.0	E.1	15.3	22.9	334	325	.030	.14	.030
29 SEP	9.20	2.60	35.9	91	75.9	E.1	8.2	15.3	293	249	<.030	.42	<.030
04	11.7	2.03	28.2	128	66.1	E.1	15.0	22.9	288	285	.038	.16	.047
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
08 FEB	1.44	.014	1.6	<.02	.006		.015	.3	<.1	2.0	.3	E1.4	
14 MAY	1.82	.008	2.0	.03	.007	<.020	.024	.3	<.1	1.2	.3	E1.7	
29 SEP	1.51	.039	1.9	.12	.037	.024	.066	.5	<.1	4.1	.5	E1.4	4.60
04	1,69	.007	1.8	.04	.012	.020	.031	.1	<.1	2.0	.1	<1.0	4.50

Remark codes used in this report:

< -- Less than E -- Estimated value

PASSAIC RIVER BASIN

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 08 FEB 14 MAY	40 40	2 7
29 SEP 04	40 40	4 <1

		1,1,1- TRT-	1.1-DT-	1,1-DI- CHLORO-	1.2-DT-	1.2-DT-	TRANS-	BENZENE 1,3-DI- CHLORO-	BENZENE 1,4-DI- CHLORO-	BENZENE O-DI- CHLORO-			CARBON
ראַיי	ТТМР	CHLORO- ETHANE	CHLORO- ETHANE	ETHYL- ENE TOTAL	CHLORO- ETHANE	CHLORO- PROPANE	CHLORO- ETHENE	WATER UNFLTRD	WATER UNFLTRD	WATER UNFLTRD	BENZENE	BROMO- FORM	CHLO- RIDE
DATE	11115	(UG/L) (34506)	(UG/L) (34496)	(UG/L) (34501)	(UG/L) (32103)	(UG/L) (34541)	(UG/L) (34546)	(UG/L) (34566)	(UG/L) (34571)	(UG/L) (34536)	(UG/L) (34030)	(UG/L) (32104)	(UG/L) (32102)
FEB 14	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	.5	<.2	<.2
		CHLORO- DI-		CIS-1,2 -DI- CHLORO-	BROMO- DI-	DI- CHLORO- DI-	DI-ISO- PROPYL- ETHER,	ETHER ETHYL	ETHER TERT- BUTYL	ETHER TERT- PENTYL		FREON- 113	METHYL TERT- BUTYL
DATE	CHLORO- BENZENE TOTAL	BROMO- METHANE TOTAL	CHLORO- FORM TOTAL	ETHENE WATER TOTAL	CHLORO- METHANE TOTAL	FLUORO- METHANE TOTAL	WATER, UNFLTRD RECOVER	WATER UNFLTRD RECOVER	ETHYL UNFLTRD RECOVER	METHYL UNFLTRD RECOVER	ETHYL- BENZENE TOTAL	WATER UNFLTRD REC	ETHER WAT UNF REC
	(UG/L) (34301)	(UG/L) (32105)	(UG/L) (32106)	(UG/L) (77093)	(UG/L) (32101)	(UG/L) (34668)	(UG/L) (81577)	(UG/L) (81576)	(UG/L) (50004)	(UG/L) (50005)	(UG/L) (34371)	(UG/L) (77652)	(UG/L) (78032)
FEB 14	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	.1	<.1	1.7
				META/									

	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
14	<.2	.3	.1	<.1	<.1	.4	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 29	1000	<.006	<.004	<.005	.051	<.010	E.434	<.007	<.018	<.003	E.021	.114	<.002

PASSAIC RIVER BASIN

01389850 GOFFLE BROOK AT HAWTHORNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
29	<.004	<.035	E.014	<.050	.048	<.006	<.007	E.021	.02	<.011	.016	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л , ;с ,)						

MAY 29... <.010

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 05 12	1120 1121 1106	(31013) 1100 40 2400	2700 100 1300	1800 130 3200	SEP 03	1115	5000	2900	1800

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 .-- For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00631), and total particulate nitrogen (49570). 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: SPECIFIC CONDUCTANCE: Jun. 24 to Jul. 1, Jul. 16 to Jul. 23.

DISSOLVED OXYGEN: May 13 to May 17, May 28 to Jun. 3, Jun. 10 to Jun. 14, Jun. 24 to Jul. 1, Jul. 16 to Jul. 23.

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0800	29	3.3	.127	.101	761		6.1	7.5		5.0	9.5	240
13	0830	31	3.6	.105	.081	758	68	8.9	7.5	1100	3.0	3.5	240
MAY													
09	0715	38	4.5	.126	.096	763	58	5.8	7.6	854	10.0	15.5	220
AUG													
13	0715	28	2.0	.112	.087	753	54	4.5	7.4	922	23.0	23.5	230

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 08 FEB	63.7	19.8	8.20	72.1	114	147	.1	14.5	33.2	506	469	.540	1.2
13 MAY	65.8	18.9	6.57	96.0	137	185	.1	12.1	34.6	540	539	2.35	3.2
09 AUG	62.0	16.4	5.33	66.2	136	144	.1	12.6	31.6	502	450	.290	.87
13	60.7	19.3	7.69	74.6	136	142	E.1	8.5	28.9	541	463	.040	.55

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
08	.510	9.28	.588	10	.15	1.80		1.78	1.1	<.1	5.1	1.1	3.3
FEB													
13	2.30	6.96	.131	10	.10	1.50	1.38	1.49	.9	<.1	4.7	.9	3.1
MAY													
09	.310	5.88	.202	6.7	.14	.95	.940	1.06	1.4	<.1	4.5	1.4	E2.0
AUG													
13	.070	8.00	.171	8.5	.11	1.57	1.55	1.64	.8	<.1	5.0	.8	E1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

PASSAIC RIVER BASIN

01391500 SADDLE RIVER AT LODI, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				Dž	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)					
				NOV	7)8		180	3					
				FEE 1	3 13		170	7					
				MAY	r)9	4.30	110	11					
				AUG	3	7.50	170	4					
		SAM	PLE		PH SED BED MAT	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT	PHOS- PHORUS TOTAL IN BOT. MAT.	CARBON, INORG + ORGANIC TOT. IN BOT MAT	CARBON, INOR- GANIC, TOT IN BOT MAT	ARSENIC	BARIUM, TOTAL RECOV- ERABLE	BERYL- LIUM, TOTAL RECOV- ERBLE	BORON, TOTAL RECOV- ERABLE
DATE	TIME	TY	Υ. Έ		(STD UNITS) (70310)	(MG/KG AS N) (00626)	(MG/KG AS P) (00668)	(GM/KG AS C) (00693)	(G/RG AS C) (00686)	(0G/L AS AS) (01002)	(0G/L AS BA) (01007)	(0G/L AS BE) (01012)	(0G/L AS B) (01022)
AUG													
13 13	0713 0714	SPLITTEN FIELD BI	R BLANK LANK										
13 13	0715 0715	ENVIRONA BED MATH	MENTAL ERIAL		 7,40	 160	 5200			E2	120	<.06	177
	CADMIUM WATER	CHRO- MIUM, TOTAL	COPPER,	COPPER, TOTAL	IRON, TOTAL	LEAD,	LEAD, TOTAL	MANGA- NESE, TOTAL	MERCURY	MERCURY TOTAL	NICKEL,	NICKEL, TOTAL	SELE-
DATE	UNFLTRD TOTAL (UG/L AS CD) (01027)	RECOV- ERABLE (UG/L AS CR) (01034)	DIS- SOLVED (UG/L AS CU) (01040)	RECOV- ERABLE (UG/L AS CU) (01042)	RECOV- ERABLE (UG/L AS FE) (01045)	DIS- SOLVED (UG/L AS PB) (01049)	RECOV- ERABLE (UG/L AS PB) (01051)	RECOV- ERABLE (UG/L AS MN) (01055)	DIS- SOLVED (UG/L AS HG) (71890)	RECOV- ERABLE (UG/L AS HG) (71900)	DIS- SOLVED (UG/L AS NI) (01065)	RECOV- ERABLE (UG/L AS NI) (01067)	NIUM, TOTAL (UG/L AS SE) (01147)
AUG													
13 13			<.2			 <.08			<.01		 <.06		
13	.09	<.8		9.9	140		1	81.1		<.01		2	.4
13				ARSENIC	CADMIUM	CHRO-	COBALT,	COPPER,		LEAD,	MANGA-	MERCURY	NICKEL,
DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, SEDIMT, BED MA- TERIAL AS FE)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	RECOV. FM BOT- TOM MA- TERIAL (UG/G AS NI)
	(01077)	(01090)	(01092)	(01003)	(01028)	(01029)	(01038)	(01043)	(01170)	(01052)	(01053)	(71921)	(01068)
13		6											
13		2											
13				<1	.110	<.4	1.8	9	4400	13	160	.01	3.9
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													
13													
13 13.	 ~1	 41	 <50	 <50	 <50	 <50	 <50	 <50	 <50	150	 150		100
	~+		-50	- 30	- 30	- 30	-30	- 30	-00	100	100	-00	700

PASSAIC RIVER BASIN

01391500 SADDLE RIVER AT LODI, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	BENZO K		DIBENZ	FLUOR-	INDENO		NAPTHAL	NAPTHAL	NAPTHAL	NAPTHAL	NAPTHAL		
	FLUOR-	CHRY-	(AH),AN	ANTHENE	123-CD	ISOPHOR	ENE, 12	ENE, 16	ENE,236	ENE, 26	ENE, 2-	NAPHTH-	PCB,
	ANTHENE	SENE	THRACEN	BED MAT	PYRENE	ONE	DIMETHL	DIMETHL	TRIMETH	DIMETHL	ETHYL-	ALENE,	TOTAL
	SED, BM	SED, BM	SED, BM	WS <2MM	SED, BM	SED BM	SED, BM	IN BOT-					
	WS,<2MM	WS,<2MM	WS,<2MM	DRY WGT	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS <2MM	WS,<2MM	TOM MA-
DATE	DW, REC	DW, REC	DW, REC	REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW REC	DW, REC	TERIAL
	(UG/KG)												
	(49397)	(49450)	(49461)	(49466)	(49390)	(49400)	(49403)	(49404)	(49405)	(49406)	(49948)	(49402)	(39519)
AUG													
13													
13													
13													
13	150	190	<50	380	120	<50	<50	<50	<50	<50	<50	<50	8
				PHENAN		PHENAN-	PYRENE,		BED	BED			
			P-	THRENE	PHENAN	THRI-	1-		MAT.	MAT.			
			CRESOL	1METHYL	THRENE	DINE	METHYL,	PYRENE,	FALL	SIEVE			
			SED, BM	DIAM.	DIAM.								
			WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	% FINER	% FINER			
	DATE	DW, REC	THAN	THAN									
			(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	.004 MM	.062 MM			

	(49451)	(49410)	(49409)	(49393)	(49388)	(49387)	(80157)	(80164)
AUG								
13								
13								
13								
13	<50	<50	190	<50	<50	300	.3	.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					AUG				
10	0835	>16000	120000	4300	07	0940	416	400	420
17	1027	800	500	330					
24	1006	16000	800	1600					
31	1016	270	1200	240					

Remark codes used in this report: < -- Less than > -- Greater than



Figure 32. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, May 6 to 17, 2002.



Figure 33. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, May 28 to June 3, 2002.



Figure 34. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, June 10 to 14, 2002.



Figure 35. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, June 24 to July 1, 2002.



Figure 36. Reconnaissance Study--Physical characteristics and concentrations of constituents measured at 01391500 Saddle River at Lodi, July 16 to 23, 2002.

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. -- Water year 2001 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
20	0900	3.0	.168	.134	758	63	7.0	7.7	780	10.0	10.5	230	62.4
07	0900	2.9	.104	.080	760		9.9	7.5		4.0	4.5	260	72.0
MAY													
28	0900	4.4	.127	.095	766	70	6.6	7.8	629	21.5	18.5	200	57.0
15	1000	2.3	.112	.086	764	68	5.6	7.9	850	25.0	25.0	250	66.5
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)
NOV													
20 FEB	18.4	7.57	67.0	155	138	E.1	12.3	33.3	484	469	.260	.95	.250
07 MAY	19.9	6.16	88.2	157	175	E.1	12.9	37.0	550	545	1.90	2.6	1.90
28	14.3	4.22	58.3	124	118	.1	10.9	26.2	439	386	.260	.80	.260
15	19.4	7.56	73.2	144	151	.2	7.3	34.3	423	484	.040	.57	.040
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
20 FEB	8.32	.174	9.3	.09	1.34		1.41	.7	<.1	7.7	.7	3.5	
07	7.58	.131	10	.12	1.30	1.19	1.43	.8	<.1	4.1	.8	E1.6	
MAY 28	4.55	.145	5.4	.12	.70	.674	.76	.9	<.1	4.4	.9	2.8	4.30
15	7.64	.046	8.2	.07	1.51	1.42	1.52	.3	<.1	4.2	.3	E1.7	5.40

Remark codes used in this report:

< -- Less than E -- Estimated value

PASSAIC RIVER BASIN

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 20 FEB 07 MAY 28 AUG 15	200 160 100 180	2 7 6 9

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)
07	0900	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	.2	.1	<.2	<.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 07	1.5	<.2	.6	7.9	.2	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.8
	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)		
	FEB	3				_							
	0)7	<.2	<.2	<.1	<.1	1.0	.2	1.4	<.2	3.0		

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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 28	0900	<.006	<.004	<.005	.020	<.010	E.171	<.005	<.018	<.003	E.009	.023	.003

PASSAIC RIVER BASIN

01391550 SADDLE RIVER AT GARFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
28	<.004	<.035	<.027	<.050	.025	<.006	<.007	E.020	.03	<.011	.012	E.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л ;с)						

MAY 28... <.010

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	0822	>16000	95000	9000	07	0927	1300	<100	300
17	1011	800	800	380					
24	0951	2200	300	3100					
31	1002	1400	500	180					

Remark codes used in this report: < -- Less than E -- Estimated value > -- Greater than

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 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 05	1000	1.0	.092	.070	760	70	8.1	7.8	877	11.9	8.5	300	74.3
26	1000	1.1	.066	.048	758	125	15.4	8.9	997	11.5	6.0	310	74.8
21	0900	2.0	.102	.075	758	80	9.0	7.9	634	16.0	10.0	180	44.4
20	1000	8.5	.305	.212	752		5.8	7.4		22.5	22.5	230	56.6
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)
DEC 05	27.8	2.75	71.1	98	232	E.1	13.1	45.0	578	527	<.030	.19	<.030
FEB 26 MAY	28.7	2.62	124	90	339	E.1	7.1	50.5	712	685	<.030	.26	.030
21 AUG	17.5	1.72	71.2	74	159	.1	15.0	29.1	448	383	<.030	.24	<.030
20	20.4	3.25	379	58	691	E.1	5.5	27.1	1310	1220	.150	.69	.190
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC								•					
FEB	.53	<.003	.73	.13	.031		.054	.9	<.1	3.2	.9	ET.0	
20 MAY 21	<.04	.014	1.3 	.06	.032	<.020 .041	.051	.5 1.3	<.1 <.1	2.9 3.5	.5 1.3	ыл.3 <1.0	 20.0
AUG 20	.82	.028	1.5	.17	.110	.096	.152	1.0	<.1	10.4	1.0	3.8	5.60

Remark codes used in this report:

< -- Less than E -- Estimated value

RAHWAY RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 05 FEB 26 MAY 21 AUG 20	140 140 90 110	13 7 2 15

		TOTAL (UG/L) (34506)	ETHANE TOTAL (UG/L) (34496)	ETHYL- ENE TOTAL (UG/L) (34501)	CHLORO- ETHANE TOTAL (UG/L) (32103)	CHLORO- PROPANE TOTAL (UG/L) (34541)	CHLORO- ETHENE TOTAL (UG/L) (34546)	WATER UNFLTRD REC (UG/L) (34566)	WATER UNFLTRD REC (UG/L) (34571)	WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CHLO- RIDE TOTAL (UG/L) (32102)
FEB 26	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLIRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLIRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 26	<.1	<.2	.7	<.1	.2	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.4
	DA	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)		
	FEB 2	6	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 21	0900	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

Remark codes used in this report: < -- Less than

RAHWAY RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 21	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л С)						

MAY 21... <.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				
20	1120	800	100	80	02	1030	1300	600	870
27	0940	9000	2600	490	10	0955	16000	1800	300
					17	0940	3000	1800	1300

Remark codes used in this report: < -- Less than

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.

DRAINAGE AREA.--25.5 mi².

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

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1045	E5.7	1.5	.080	.061	767	53	6.2	7.6	710	14.0	9.0	220
28 JUN	1100	5.1	3.3	.059	.044	763	78	10.2	7.8	747	1.0	4.0	230
20	0715	9.8	2.4	.101	.073	768	52	4.9	7.4	643	16.0	18.5	190
15	1000	5.1	2.6	.076	.058	763	53	4.5	7.7	686	30.0	23.5	230

					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													
08	67.5	13.6	2.80	46.7	149	115	.2	16.1	35.3	402	392	.040	.21
FEB													
28	69.1	13.3	2.04	52.1	142	121	.2	8.7	36.6	422	392	.060	.17
JUN													
20	59.2	11.3	2.35	46.5	113	100	.1	13.6	31.1	375	339	.110	.31
AUG													
15	70.2	13.1	2.53	46.0	132	112	.2	11.8	33.0	394	372	.050	.21
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
D3.000	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
DATE	(MG/L					(MG/L	(MG/L	(MG/L				(MG/L	5 DAI
	AS N)	AS P)	AS P)	AS P)		AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
08	.030	1.16	.011	1.4	.05	.026		.047	.4	<.1	2.9	.4	E1.4
FEB													
28	.030	.98	.016	1.2	.08	.020	<.020	.053	.7	<.1	2.6	.6	<1.3
JUN													
20	.120	1.34	.045	1.7	.05	.082	.069	.115	.5	<.1	3.5	.5	<1.0
AUG													

.081

.080 .108

.7

<.1

3.1

.7

E1.1

Remark codes used in this report:

.030

.82

.008

1.0 .09

< -- Less than E -- Estimated value

15...

184

RAHWAY RIVER BASIN

01394500 RAHWAY RIVER NEAR SPRINGFIELD--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 08 FEB		80	1
28		80	2
20 AUG	1.60	80	<1
15	2.30	80	6

		BERYL-			CHRO-				MANGA-				
DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BORON, TOTAL RECOV- ERABLE (UG/L AS B)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD)	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)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG 15	1000	2	92.4	<.06	76	.04	<.8	2.3	200	1	68.6	E.01	3
				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 15... .5 <.05 5

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	0932	>16000	1000000	8800	07	0945	2400	200	330
17	1000	1300	300	430					
25	0940	3000	700	260					
31	0935	800	400	250					

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value

01395000 RAHWAY RIVER AT RAHWAY, NJ

LOCATION.--Lat 40°37'08", long 74°17'01", 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." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC											
05	0800	ENVIRONMENTAL	8.9	3.8	.162	.128	765	51	5.8	7.9	530
05	0830	SPLIT REPLICATE									
05	0831	CONCURRENT REPLICATE									
MAR											
13	0800	ENVIRONMENTAL	7.7	4.2	.083	.059	761	64	7.6	7.5	636
13	0800	SPLIT REPLICATE								7.5	636
13	0801	CONCURRENT REPLICATE								7.5	636
JUN											
05	0830	ENVIRONMENTAL	13	3.7	.168	.123	761	60	5.4	7.4	402
05	0830	SPLIT REPLICATE									
05	0831	CONCURRENT REPLICATE									
AUG											
06	0830	ENVIRONMENTAL	3.3	6.6	.190	.133	750	48	4.0	7.4	433
06	0830	SPLIT REPLICATE									
06	0831	CONCURRENT REPLICATE									

DATE	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)	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)	AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
DEC													
05	12.0	10.0	190	59.8	10.6	3.70	25.6	133	59.8	.1	14.5	40.1	314
05			190	59.0	11.0	3.80	25.0	130	63.0	.24		43.0	460
05			190	59.0	11.0	3.80	25.0	130	64.0	.24		44.0	460
MAR													
13		8.0	200	63.1	11.3	1.81	39.3	129	85.1	.1	9.5	44.8	360
13			210	65.0	12.0	2.00	43.0	130	91.0	.16		48.0	390
13			210	65.0	12.0	2.00	43.0	130	85.0	.13		55.0	380
JUN													
05	20.0	20.5	130	41.4	7.37	2.61	24.0	88	53.0	E.1	8.9	27.2	252
05			130	40.0	7.10	2.70	24.0	85	53.0	.23		28.0	260
05			130	40.0	7.20	2.70	24.0	86	53.0	.22		28.0	270
AUG													
06	21.0	24.0	140	44.9	7.96	2.29	24.0	94	50.9	.1	8.3	33.9	273
06			150	46.0	8.20	2.70	25.0	94	52.0	.32		34.0	290
06			150	47.0	8.30	2.60	25.0	95	51.0	.28		37.0	290

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Remark codes used in this report:

E -- Estimated value

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

RAHWAY RIVER BASIN

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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													
05	296	.110	.41	.100		.42	.007	.82	.08	.051	.040	.08	.139
05	285	.074	.44	.075	.43	.290	.025	.73		.040	.042	.06	.120
05	287	.071	.44	.073	.54	.310	.025	.75		.040	.042	.06	.120
MAR													
13	337	.060	.24	.040		.97	.010	1.2	.07	.025	<.020		.057
13	343	<.050	<.10	.050	.29	.840	.010			.018	.036	.04	.036
13	344	<.050	.17	.060	.19	.850	<.010	1.0		.010	.036	.04	.033
JUN													
05	221	.060	.53	.070		.71	.035	1.2	.17	.080	.051		.137
05	209	.110	.28	.110	.35	.700	.035	.98		.071	.062	.09	.130
05	210	.110	.54	.110	.61	.710	.036	1.2		.071	.061	.10	.120
AUG													
06	234	.070	.52	.120		1.23	.049	1.8	.17	.089	.078		.148
06	230	.190	.39	.180	.64	1.10	.047	1.5		.080	.100	.10	.140
06	234	.140	.22	.140	.58	1.10	.049	1.3		.080	.100	.10	.130

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								
05	.7	<.1	4.8	.7	E1.4		80	8
05			4.1				80	<10
05			4.1				80	<10
MAR								
13	.6	<.1	3.2	.6	E2.0		80	12
13			2.7				90	<10
13			2.7				90	<10
JUN								
05	1.2	<.1	3.9	1.2		14.6	60	14
05			5.5				60	6
05			5.4				60	6
AUG								
06	1.8	<.1	6.7	1.8	2.6	7.50	70	8
06			6.6				70	11
06			6.9				80	10

						NITRO-	PHOS-	CARBON,	CARBON,			BERYL-	
						GEN, NH4	PHORUS	INORG +	INOR-		BARIUM,	LIUM,	BORON,
					PH	+ ORG.	TOTAL	ORGANIC	GANIC,		TOTAL	TOTAL	TOTAL
					SED	TOT IN	IN BOT.	TOT. IN	TOT IN	ARSENIC	RECOV-	RECOV-	RECOV-
		SAMP	PLE		BED MAT	BOT MAT	MAT.	BOT MAT	BOT MAT	TOTAL	ERABLE	ERABLE	ERABLE
DATE	TTME	TYP	 E		(STD	(MG/KG	(MG/KG	(GM/KG	(G/KG	(UG/L	(IIG/L	(UG/L	(IIG/T
DIIID	11111		-		UNTTS)	AS N)	AS P)	AS C)			AS BA)	AS BE)	AS B)
					(70310)	(00626)	(00668)	(00693)	(00686)	(01002)	(01007)	(01012)	(01022)
					(70510)	(00010)	(00000)	(00055)	(00000)	(01001)	(01007)	(01011)	(01011)
AUG													
06	0830	ENVIRONM	ENTAL							2	74.7	<.06	76
06	0830	BED MATE	RIAL		7.60	140	5400	3.1	<.2				
		CHRO-				MANGA-						ARSENIC	CADMIUM
	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,		SILVER,	ZINC,	TOTAL	RECOV.
	WATER	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	SELE-	TOTAL	TOTAL	IN BOT-	FM BOT-
	UNFLTRD	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	RECOV-	NIUM,	RECOV-	RECOV-	TOM MA-	TOM MA-
	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	ERABLE	TERIAL	TERIAL
DATE	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/G	(UG/G
	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)	AS SE)	AS AG)	AS ZN)	AS AS)	AS CD)
	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)	(01147)	(01077)	(01092)	(01003)	(01028)
	(,	(,	(,	(,	(,	(,	(,	(,	(,	(,	(,	(,	(,
AUG													
06	.06	E.6	5.7	440	3	240	E.01	3	.6	E.05	15		
06												1	.090

RAHWAY RIVER BASIN

01395000 RAHWAY RIVER AT RAHWAY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	CHRO- MIUM,	COBALT, RECOV.	COPPER, RECOV.		LEAD, RECOV.	MANGA- NESE,	MERCURY RECOV.	NICKEL, RECOV.	SELE- NIUM,	ZINC, RECOV.	4hCypen phenan	9H-FLU- ORENE,	9H-FLU-
	RECOV.	FM BOT-	FM BOT-	IRON,	FM BOT-	RECOV.	FM BOT-	FM BOT-	TOTAL	FM BOT-	THRENE	1METHYL	ORENE
	TOM MA-	TERIAL	TERIAL	BED MA-	TERIAL	TOM MA-	TERIAL	TERIAL	TOM MA-	TERIAL	WS,<2MM	WS,<2MM	WS,<2MM
DATE	TERIAL	(UG/G	(UG/G	TERIAL	(UG/G	TERIAL	(UG/G	(UG/G	TERIAL	(UG/G	DW, REC	DW, REC	DW, REC
	(UG/G) (01029)	AS CO) (01038)	AS CU) (01043)	AS FE) (01170)	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)
	(0101)	(01050)	(01015)	(011/0)	(01051)	(01055)	(,1)11)	(01000)	(01110)	(01055)	(19111)	(19990)	(19999)
AUG													
06	7.0	2.4	9	8300	27	700	.01	6.9	<1	82	99	E12	E45
			ANTHRA-		BENZ(A)	BENZO	BENZOB	BENZO (G	BENZO K		DIBENZ	FLUOR-	INDENO
	ACENAPH	ACENAPH THYLENE	CENE, 2- METHYL-	ANTHRA-	ANTHRA-	(A) PYRENE	FLUOR-	HI)PERY LENE	FLUOR-	CHRY-	(AH), AN	ANTHENE BED MAT	123-CD PYRENE
	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	WS <2MM	SED, BM
	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	DRY WGT	WS,<2MM
DATE	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	REC	DW, REC
	(49429)	(49428)	(49435)	(49434)	(49436)	(49389)	(49458)	(49408)	(49397)	(49450)	(49461)	(49466)	(49390)
AUG													
06													
06	E21	88	53	190	510	520	530	320	440	550	100	1100	390
		NIA DOTILA I		NADUITAT		NIA DOTILA I				DITENTAN		DUIDNIANI	
	ISOPHOR	ENE, 12	ENE, 16	ENE,236	ENE, 26	ENE, 2-	NAPHTH-	PCB,	P-	THRENE	PHENAN	THRI-	1-
	ONE	DIMETHL	DIMETHL	TRIMETH	DIMETHL	ETHYL-	ALENE,	TOTAL	CRESOL	1METHYL	THRENE	DINE	METHYL,
	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED BM	SED, BM	IN BOT-	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM
DATE	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS < 2MM	WS,<2MM	TOM MA- TERTAL	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	DW. REC
DIIID	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)
	(49400)	(49403)	(49404)	(49405)	(49406)	(49948)	(49402)	(39519)	(49451)	(49410)	(49409)	(49393)	(49388)
AUG													
06													
06	<50	<50	E14	E14	ETA	ETO	ET1	7	E25	58	630	<50	51
							BED	BED					
							MAT.	MAT.					
						PYRENE,	FALL	SIEVE					
						SED, BM	DIAM. % ETNED	DIAM. % EINED					
				DA	TE	DW, REC	7 THAN	7 THAN					
						(UG/KG)	.004 MM	.062 MM					
						(49387)	(80157)	(80164)					
				AUG									
				0	6	890							
				0		0.00	• •	••					

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

DATE TIM	COLI- FORM, FECAL, EC E 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			
10 102	16000	2800	1690	07 1015	800	<100	740
17 103	1300 1300	600	500				
25 101	.5 300	500	360				
31 101	.0 3000	1400	1320				

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. -- Water year 2001 to August 2002.

- REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- 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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and entercocccus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	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)
DEC											
05	0930	ENVIRONMENTAL	6.4	.072	.055	773	77	8.9	7.9	651	15.0
05	0930	CONCURRENT REPLICATE									
05	0931	SPLIT REPLICATE									
MAR											
13	0930	ENVIRONMENTAL	8.6	.094	.067	762	93	11.3	7.9	755	8.0
13	0930	CONCURRENT REPLICATE									
13	0931	SPLIT REPLICATE									
JUN											
05	0830	ENVIRONMENTAL	4.9	.100	.073	761	72	6.7	7.8	760	26.0
05	0830	CONCURRENT REPLICATE									
05	0831	SPLIT REPLICATE									
AUG											
06	0930	ENVIRONMENTAL	9.0	.179	.127	756	72	6.1	7.6	553	26.0
06	0930	CONCURRENT REPLICATE									
06	0931	SPLIT REPLICATE									

							ANC					SOLIDS,	SOLIDS,
		HARD-		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	SUM OF
		NESS	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	CONSTI-
	TEMPER-	TOTAL	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	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													
05	9.5	220	66.8	13.6	2.65	38.4	150	99.4	.1	12.6	28.4	376	354
05		220	65.0	14.0	2.70	37.0	150	110	.25		30.0	540	350
05		220	65.0	14.0	2.70	38.0	140	110	.25		31.0	490	346
MAR													
13	7.0	210	63.5	13.4	2.16	59.1	122	129	E.1	8.1	44.5	430	396
13		220	64.0	14.0	2.40	66.0	120	130	.09		50.0	480	401
13		220	65.0	15.0	2.40	66.0	120	130	.11		52.0	460	405
JUN													
05	18.5	240	69.4	15.2	3.10	56.7	142	130	E.1	12.8	36.8	500	412
05		230	66.0	15.0	3.30	57.0	130	130	.25		39.0	500	392
05		230	66.0	15.0	3.30	56.0	140	130	.25		39.0	490	397
AUG													
06	23.0	170	51.3	10.9	3.13	42.6	108	86.8	.1	12.0	35.2	336	310
06		170	51.0	11.0	3.60	43.0	110	87.0	.36		36.0	380	301
06		170	50.0	11.0	3.60	42.0	100	85.0	.36		35.0	370	290

Remark codes used in this report:

E -- Estimated value

RAHWAY RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)
DEC													
05	<.030	.21	<.030		.51	<.003	.72	.05	.040	.030	.05	.072	.6
05	<.010	.24	<.010	.22	.300	.010	.54		.030	.036	.04	.060	
05	<.010	.23	<.010	.30	.310	.018	.54		.020	.036	.04	.060	
MAR													
13	<.030	.22	<.030		.67	.010	. 89	.07	.021	<.020		.053	.6
13	.050	.10	.050	.27	.600	<.010	.70		<.010	.030	.02	.030	
13	<.050	.18	<.050	.24	.580	<.010	.76		.010	.031	.03	.025	
JUN													
05	.060	.32	.060		.74	.022	1.1	.08	.054	.041		.088	.6
05	.083	.15	.084	.22	.740	.023	.89		.050	.170	.10	.083	
05	.082	<.10	.088	.48	.740	.022			.051	.180	.10	.082	
AUG													
06	<.030	.40	<.030		.75	.019	1.2	.21	.076	.059		.126	1.1
06	.091	.12	.093	.56	.630	<.025	.75		.070	.110	.11	.120	
06	.095	.10	.095	.47	.600	<.025	.70		.100	.110	.11	.120	

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							
05	<.1	2.5	.6	E1.3		70	4
05		1.6				70	<10
05		1.7				70	<10
MAR							
13	<.1	4.2	.6	3.3		100	15
13		3.7				100	<10
13		3.7				110	<10
JUN							
05	<.1	3.3	.6		11.0	100	11
05		3.5				100	6
05		3.4				100	<5
AUG							
06	<.1	5.8	1.1	E1.8	11.9	110	2
06		5.4				120	<10
06		6.0				120	<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 UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD 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 13	0930	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
		CHLORO-		CIS-1,2 -DI- CHLORO-	BROMO-	DI- CHLORO- DI-	DI-ISO- PROPYL- ETHER	ETHER ETHYL	ETHER TERT- BUTYL	ETHER TERT- PENTYL		FREON-	METHYL TERT- BUTYL
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) (81577)	WATER UNFLTRD RECOVER (UG/L) (81576)	ETHYL UNFLTRD RECOVER (UG/L) (50004)	METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	WATER UNFLTRD REC (UG/L) (77652)	ETHER WAT UNF REC (UG/L) (78032)
MAR 13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.7

RAHWAY RIVER BASIN

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		META/							
	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
MAR									
13	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
JUN													
05	0830	<.006	<.004	<.005	.040	<.010	E.116	<.005	<.018	<.003	E.016	.013	<.002
		LIN-		METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-
		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL	SI-	THIURON	BACIL
		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD
	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U	DISS,	0.7 U	0.7 U
DATE	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC
	(UG/L)												
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
JUN													
05	<.004	<.035	<.027	<.050	.014	<.006	<.007	<.022	.13	<.011	.007	<.02	<.034
						TRI-							

FLUR-ALIN WAT FLT 0.7 U GF, REC DATE (UG/L) (82661) JUN 05... <.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				
31	0920	1300	900	820	14	0915	800	<100	610
AUG					21	0920	3000	<100	6300
07	0910	2400	500	620	28	0940	3000	1200	1800

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." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0850	18	1 0	073	057	745	104	12.6	6 9	150	14 5	6.0	54
FEB	0050	1.0	1.0	.075	.057	745	104	12.0	0.5	150	11.5	0.0	54
04	0900	3.5	1.4	.085	.066	738	104	14.5	6.9	128	5.0	.5	40
23	0940	7.5	1.5	.109	.083	752	103	11.5	6.9	119	19.5	10.0	39
15	0950	.50	1.0	.051	.038	751	98	8.4	7.6	161	28.0	22.0	57
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													
07 FEB	12.4	5.64	1.10	7.32	43	11.6	<.1	15.8	12.5	102	93	.040	.14
04 MAY	9.22	4.22	.81	7.03	25	11.2	<.1	15.7	14.3	88	80	<.030	.15
23	8.94	3.95	.76	6.50	26	9.59	E.1	13.9	11.4	76	73	<.030	.16
15	13.2	5.87	1.04	7.30	46	10.4	.1	16.5	11.9	90	96	<.030	.10
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)

NOV 07... .040 .06 <.003 .21 <.02 E.003 --.011 .3 <.1 2.4 .3 FEB 04... <.030 .56 <.003 .72 .03 .005 --.007 .2 <.1 2.5 .1 MAY 23... .040 .50 .003 .66 .04 .007 <.020 .013 .6 <.1 2.8 .6 AUG 15... --<.003 <.02 .014 .040 <.1 .40 .50 .019 <.1 <.1 1.7

<1.0

<1.0

<1.0

<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DAI	E	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 07	· · · ·		E6	1					
				FEB 04	••••		E9	8					
				MAY 23		1.40	E7	1					
				A0G 15	·	1.10	E7	4					
DATE	TIME	SAMP TYP	PLE PE		NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 UNFLIRD TOTAL (UG/L AS CD) (01027)
AUG 15	0830	FIELD BL	ANK										
15 15	0950 0950	ENVIRONM BED MATE	ENTAL RIAL		 70	 1700	 1.8	 <.2	<2	18.5	<.06	E6 	<.04
DATE	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)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)
AUG		5 2			< 08			< 01		< 06			
15 15	<.8		1.0	60		<1	7.1		<.01		<1	<.4	<.05
DATE	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)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G) (01148)
AUG	<i>E</i> 1												
15		3											
13			~1	.102	12	4.4	5	14000	5.5	200	<.UI	2.3	<τ.
DATE	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLU- ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ANTHRA- CENE,2- METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	BENZ(A) ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	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)
AUG 15													
15													
10	22	~ 50	~ 50	N 50	N 30	N 30	N 20	N 00	~ 50	N 30	~ 50	~ 50	\ 50

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	P- CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
AUG													
15													
15	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5	<50
		DATE	PHEN THRE 1MET SED, WS,< DW, (UG/ (494	IAN NE PHEN HYL THRE BM SED, 2MM WS,< REC DW, KG) (UG/ 10) (494	PHEN AN TH NE DIN BM SED, 2MM WS,< REC DW, KG) (UG/ 09) (493	AN- PYRE RI- 1 BM SED, 2MM WS,< REC DW, KG) (UG/ 93) (493	NE, - YL, PYRE BM SED, 2MM WS,< REC DW, KG) (UG/ 88) (493	BE MA NE, FA BM DIA 2MM % FI REC TH KG) .004 87) (801	D BE T. MA LL SIE M. DIA NER % FI AN TH MM .062 57) (801	D T. VE M. NER AN (MM 64)			
		AUG											
		15	-							-			
		15	- 5							-			
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 04	0900	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 04	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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)		
	FEB 0	4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
23	0940	<.006	<.004	<.005	.010	<.010	E.004	<.005	<.018	<.003	E.012	<.005	<.002

01396550 SPRUCE RUN AT NEWPORT, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
23	<.004	<.035	<.027	<.050	E.009	<.006	<.007	<.022	<.01	<.011	.008	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л .с .)						

MAY 23...

<.009

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)
JUL					AUG				
09	0945	80	200	60	06	0830	<20	<100	10
16	0940	40	<100	40					
25	0915	40	200	110					

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.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1030	3.8	.5	.036	.028	758	107	12.5	8.3	255	14.5	8.5	100
FEB 21	1000	5.8	1.3	044	035	750	96	11.5	7.7	277	14.0	7.0	90
MAY	2000	510	210				20						
23	1100	14	.9	.049	.036	760	104	11.0	7.9	225	19.5	12.5	78
AUG													
06	0930	E3.1	1.6	.046	.035	757	94	8.6	7.8	275	24.0	19.5	110

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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													
08	25.3	9.38	1.41	10.2	84	21.9	E.1	13.4	12.7	146	147	<.030	E.10
FEB	22.7	7 00	1 26	17.0	61	34 0	P 1	12.0	15.0	154	150	~ 030	10
MAY	22.1	7.99	1.20	1/.2	04	34.0	E.1	12.0	15.2	154	155	<.030	•12
23	20.1	6.88	1.18	11.6	55	22.2	E.1	13.5	14.0	127	126	.030	.11
AUG													
06	27.5	9.96	1.53	11.1	86	21.2	E.1	15.7	13.1	166	156	<.030	.10

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
08	.050	.54	<.003		<.02	.005		.007	.2	<.1	1.4	.2	3.8
FEB													
21	<.030	.81	<.003	.93	<.02	.008	<.020	.011	.3	<.1	1.6	.2	<1.0
MAY													
23	<.030	.76	.004	.87	.02	.010	<.020	.013	.2	<.1	1.5	.2	<1.0
AUG													
06	<.030	.92	<.003	1.0	.03	.022	.025	.028	.3	<.1	1.7	.3	E1.7

Remark codes used in this report:

< -- Less than

E -- Estimated value

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 08		E10	<1
FEB 21		E10	7
23	1.00	E9	3
06	1.80	10	<1

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

DATE	TIME	SAMP TYP	'LE 'E		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 06 06 06	0900 0930 0930	FIELD BL ENVIRONM BED MATE	ANK ENTAL RIAL		 7.40	 160	 1500	 3.6	 <.2	<2 	46.3 	 <.06 	12
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 06 06 06	<.04 	 <.8 	<.2 	1.0 	90 	<.08 	<1 	19.3 	<.01 	<.01 	<.06 	<1 	 •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 06 06 06	<.05 	<1 	 1 	 <1	 .052	 5.0	 1.9	 4	 7000	 4.6	 190	 .01	 2.5
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 06 06	 <1	 23	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50

01396660 MULHOCKAWAY CREEK AT VAN SYCKEL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
06													
06													
06	<50	<50	<50	60	<50	<50	<50	<50	<50	<50	<50	<50	<5
				PHENAN		PHENAN-	PYRENE.		BED	BED			
			P-	THRENE	PHENAN	THRI-	1-		MAT.	MAT.			
			CRESOL	1 METHYL	THRENE	DINE	METHYL.	PYRENE.	FALL.	STEVE			
			SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	DIAM.	DIAM.			
			WS.<2MM	WS.<2MM	WS.<2MM	WS.<2MM	WS.<2MM	WS.<2MM	% FINER	% FINER			

DATE	WS,<2MM DW, REC	% FINER THAN	% FINER THAN					
	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	.004 MM	.062 MM
	(49451)	(49410)	(49409)	(49393)	(49388)	(49387)	(80157)	(80164)
AUG								
06								
06								
06	<50	<50	<50	<50	<50	50	2	5

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 09 16 25	0915 0920 0830	300 140 800	400 <100 400	420 320 320	AUG 06	0900	<20	<100	<10

Remark codes used in this report: < -- Less than

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ

LOCATION.--Lat 40°36'28", long 74°54'58", 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.--Water years 1959-64, 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 20	1045	.7	.031	.026	756	99	11.9	7.8	213	8.0	7.0	77	18.5
FEB 05	1030	.4	.027	.021	765	99	14.3	7.7	222	-6.0	.5	72	17.0
MAY 14	0930	32	.187	.148	749	102	11.1	7.3	128	14.0	11.0	39	9.54
AUG 06	0945	1.7	.036	.028	755	90	7.9	7.8	214	23.0	21.0	74	17.8
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)
NOV													
20 FEB	7.43	1.25	9.34	65	14.2	<.1	10.3	12.7	120	123	<.030	.13	<.030
05 MAY	7.16	1.57	11.9	48	18.5	<.1	14.1	14.9	128	126	<.030	.12	<.030
14 AUG	3.76	2.49	6.34	28	7.82	<.10	9.7	11.8	83	75	.030	.41	.040
06	7.30	1.61	10.3	61	13.9	<.10	14.8	12.3	135	124	<.030	.14	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
20 FEB	2.37	<.003	2.5	<.02	.005		.007	.2	<.1	1.1	.2	<1.0	
05 MAY	2.75	.002	2.9	<.02	.019	<.020	.020	.1	<.1	1.1	.1	<1.0	
14	1.56	.005	2.0	.12	.063	.035	.123	1.1	<.1	5.2	1.1	E1.5	1.30
06	2.23	<.003	2.4	.04	.037	.048	.040	.3	<.1	1.4	.3	E1.1	1.40

Remark codes used in this report:

< -- Less than E -- Estimated value

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV		
20	10	2
FEB		
05	20	2
MAY		
14	20	25
AUG		
06	10	<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 05	1030	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 05	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.1
				META/									

	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
05	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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 FLIRD 0.7 U GF, REC (UG/L) (82680)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 14	0930	1.01	.020	<.005	2.04	<.010	E.352	<.005	<.018	<.003	E.092	.013	<.002

01396900 CAPOOLONG CREEK AT LANSDOWNE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 14	<.004	<.035	<.027	E.028	.176	<.006	<.007	<.022	<.01	<.011	.049	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL GF, RE (UG/L) (82661	т С)						

MAY 14... <.009

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)
JUL					AUG				
09	1015	80	100	400	06	0935	60	<100	10
16	1010	70	<100	210					
25	1030	260	200	310					

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 FFB	0930	1.4	.089	.071	767	64	8.7	7.9	401	8.0	3.0	170	43.3
05	1000	3.7	.063	.048	762	96	14.0	7.6	281	5	.0	90	21.5
06	0900	3.7	.083	.065	752	42	3.7	7.2	349	24.0	20.5	140	36.1
15	0900	3.8	.129	.098	763	26	2.2	7.4	874	24.5	23.5	410	114
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)
NOV 14	15.1	2.09	13.9	130	14.8	E.1	10.0	60.2	240	239	.030	.20	.050
FEB 05	8.74	1.85	13.6	49	26.0	<.1	11.9	23.0	160	151	<.030	.21	<.030
06	11.4	1.79	12.5	77	13.1	E.1	6.8	66.2	234	199	.030	.35	.050
15	29.3	3.03	31.7	114	25.8	.1	14.5	308	610	596	.060	.46	.060
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
14	.42	<.003	.61	.05	.013		.017	.3	<.1	3.2	.3	<1.1	
05	3.49	.007	3.7	.02	.026	<.020	.034	.2	<.1	2.1	.2	E1.6	
06	1.13	.034	1.5	.08	.051	.044	.074	.6	<.1	2.8	.5	E1.4	3.50
15	.06	.004	.52	.06	.099	.110	.139	.2	<.1	4.3	.2	E1.2	1.90

Remark codes used in this report:

< -- Less than E -- Estimated value

202
01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 14 FEB 05 JUN 06 AUG 15	100 20 80 370	5 1 13 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 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 05	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD 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 05	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.1
	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)5	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

DATE	TIME	ACETO- CHLOR, WATER FLTRD REC	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	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	EPTC WATER FLTRD 0.7 U GF, REC
		(UG/L) (49260)	(UG/L) (46342)	(UG/L) (34253)	(UG/L) (39632)	(UG/L) (82673)	(UG/L) (82680)	(UG/L) (38933)	(UG/L) (04041)	(UG/L) (82682)	(UG/L) (04040)	(UG/L) (39572)	(UG/L) (82668)
JUN 06	0900	<.006	<.004	<.005	.044	<.010	<.041	<.005	<.018	<.003	E.038	<.005	<.002

01397950 THIRD NESHANIC RIVER AT COPPER HILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN													
06	<.004	<.035	<.027	<.050	E.008	<.006	<.007	<.022	<.01	<.011	.005	<.02	<.034
						TRI- FLUR- ALIN							
						WAT FL 0.7 U	Г						
					DATE	GF, RE (UG/L) (82661	C)						

JUN 06...

<.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				
09	1045	5000	1200	280	06	1023	<20	<100	<10
16	1040	500	1600	240					
25	1045	500	500	430					

01398000 NESHANIC RIVER AT REAVILLE, NJ

LOCATION.--Lat 40°28'18", long 74°49'42", 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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0900	2.1	1.2	.087	.070	759	85	10.3	8.1	399	7.0	7.0	160
28	1000	4.8	2.1	.053	.040	760	94	13.3	8.0	391	-4.0	1.0	130
09 SEP	1000	.71	2.2	.119	.091	755	132	10.6	9.3	386	32.0	26.0	150
12	0900	.71	1.0	.109	.082	761	60	5.6	7.9	394	21.0	18.5	150

					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													
20	39.5	13.8	2.05	13.3	117	17.2	E.1	3.2	54.8	236	214	.050	.17
FEB													
28	33.0	11.8	2.22	20.9	83	40.9	E.1	2.1	39.9	220	205	.040	.23
JUL													
09	38.0	12.4	2.38	18.6	81	24.2	.1	3.6	74.0	238	222	.030	.41
SEP													
12	38.8	13.4	3.13	19.0	92	26.7	E.1	.9	58.8	239	217	<.030	.41

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 20	.030	<.04	<.003		.02	<.05		<.06	.1	<.1	3.1	.1	E1.7
28	.040	.99	.016	1.2	<.02	<.05	<.020	E.03	.3	<.1	2.7	.3	<1.0
09 SEP	<.030	<.04	<.003		.05	.07	.042	.08	.4	<.1	4.1	.4	E1.6
12	.031	.20	.016	.61	.04	E.04	.034	E.04	.3	<.1	4.1	.3	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01398000 NESHANIC RIVER AT REAVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	
	(32209)	(01020)	(00530)	
NOV				
20		70	<1	
28		40	4	
09	2.10	90	1	
12	1.90	90	<1	

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
SEP													
12	0900	E2	71.8	<.06	83	<.04	<.8	2.4	50	<1	45.6	<.01	2
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					
				SEP	,								
				1	2	.4	<.05	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)
JUL					AUG				
09	1100	130	<100	20	06	1000	<20	100	10
16	1050	340	<100	160					
25	1015	230	600	400					

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 29	1040	84	1.7	.058	.042	761	83	9.0	7.4	330		11.5	110
FEB													
20 JUN	0940	98	4.4	.052	.041	763	103	13.2	8.1	359	9.0	5.0	120
12 AUG	1230	90	6.9	.118	.092	757	73	5.9	8.1	288	32.0	25.5	96
12	1150	115	2.1	.084	.064	763	117	9.3	9.1	327	27.0	27.0	110

					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													
29	27.1	11.1	2.63	17.4	84	32.8	E.1	2.0	23.3	180	173	.050	.30
FEB													
20	28.3	11.3	2.22	21.6	79	43.2	E.1	2.9	26.8	194	191	.060	.23
JUN													
12	22.4	9.68	2.11	17.4	65	32.6	E.1	8.9	19.9	172	158	<.030	.33
AUG													
12	25.4	10.5	2.42	23.9	82	37.1	.1	5.7	22.4	209	179	.030	.36

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L	NITRO- GEN, NITRITE DIS- SOLVED (MG/L	NITRO- GEN DIS- SOLVED (MG/L	NITRO- GEN,PAR TICULTE WAT FLT SUSP (MG/L	PHOS- PHORUS DIS- SOLVED (MG/L	ORTHO- PHOS- PHATE, 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	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY
	AS N) (00610)	AS N) (00631)	AS N) (00613)	AS N) (00602)	AS N) (49570)	AS P) (00666)	AS P) (00671)	AS P) (00665)	AS C) (00694)	AS C) (00688)	AS C) (00681)	AS C) (00689)	(MG/L) (00310)
NOV													
29 FEB	<.030	1.44	.014	1.7	<.02	.086		.098	.4	<.1	2.5	.4	<1.0
20 JUN	<.030	1.60	.009	1.8	.03	.056	.031	.075	.6	<.1	2.3	.6	E1.2
12 AUG	.030	1.34	.014	1.7	.06	.103	.064	.120	.7	<.1	4.0	.6	E1.7
12	<.030	.39	.012	.74	.06	.144	.123	.154	.3	<.1	3.7	.3	<1.2

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01398102 SOUTH BRANCH RARITAN RIVER AT SOUTH BRANCH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 29 FEB		40	<1
20		50	1
12	1.10	40	7
12	1.20	50	5

			BERYL-			CHRO-			MANGA-				
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
12	1150	E1	32.3	<.06	43	<.04	<.8	1.6	70	<1	25.0	<.01	1
							SILVER.	ZINC.					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					
				AUG	1								
				1.00	2	E.3	<.05	4					
				-				-					

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					MAY				
01	1025	230	400	270	15	1010	1700	1600	4400
08	1025	130	100	70	22	1030	40	100	60
					30	1040	80	200	40

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.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Dislocient Mention Laboratories and Chemical Laboratories, 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 2001 TO SEPTEMBER 2002

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													
07 FEB	1140	24	1.4	.081	.063	760	109	12.9	7.6	321	18.0	8.0	110
04 May	1310	48	3.6	.083	.064	751	114	15.5	7.7	331	7.0	2.0	95
23	1320	132	3.6	.136	.103	765	133	13.0	8.5	218	21.5	16.5	70
13	1130	261	4.6	.022	.015	763	112	9.2	8.4	161	35.0	25.5	53
					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													
07	26.7	10.6	2.44	18.3	86	33.0	E.1	8.9	18.9	176	175	.040	.25
FEB													
04	23.4	8.87	2.38	25.1	59	49.0	E.1	11.8	21.5	188	183	<.030	.23
MAY													
23	17.3	6.62	1.48	13.8	48	25.1	E.1	10.0	13.5	140	120	.030	.23
AUG													
13	12.6	5.29	1.04	7.97	41	12.2	E.1	2.6	12.8	82	79	<.030	.19
		NTTRO-	NTTRO-		NTTRO-		ORTHO-		CARBON.	CARBON.		CARBON.	OXYGEN
	NTTRO-	GEN.	GEN .	NTTRO-	GEN . PAR	PHOS-	PHOS-		TNORG +	TNOR-	CARBON.	ORGANTC	DEMAND.
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
DATE	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	(MG/T	5 DAY

(00610) (00631) (00613) (00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	AS C)	(MG/L)
(00010) (00031) (00013) (00002)	(4)5707	(00000)	(00071)	(00005)	(000)4)	(00000)	(00001)	(0000)	(00510)
NOV									
07030 1.12 <.003 1.4	.08	.143		.151	.4	<.1	3.1	.4	E1.1
FEB									
04 <.030 1.09 .004 1.3	.02	.081		.094	.3	<.1	2.8	.3	<1.0
MAY									
23 <.030 .64 .006 .88	.08	.036	.020	.046	.4	<.1	3.4	.4	E1.7
AUG									
13 <.030 .07 <.003 .26	.09	.015	.026	.027	.6	<.1	2.3	.6	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01399780 LAMINGTON RIVER AT BURNT MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 07 FEB 04 MAY 23 AUG 13	 1.70 2.30	50 40 30 10	<1 11 <1 9	

					BERYL-			CHRO-			
				BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,		COPPER,	IRON,
				TOTAL	TOTAL	TOTAL	WATER	TOTAL	COPPER,	TOTAL	TOTAL
			ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-	DIS-	RECOV-	RECOV-
		SAMPLE	TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	SOLVED	ERABLE	ERABLE
DATE	TIME	TYPE	(UG/L								
			AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS CU)	AS FE)
			(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01040)	(01042)	(01045)
AUG											
13	1002	FIELD BLANK							<.2		
13	1130	ENVIRONMENTAL	<2	8.2	<.06	17	<.04	<.8		1.1	110

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG											
13	<.08			<.01		<.06				1	
13		<1	22.4		<.01		<1	E.3	<.05		2

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)
MAY 01 08	0930 0920	1300 70	600 <100	390 90	MAY 15 22	0915 0930	5000 300	1900 400	1500 110
					30	0930	130	100	70

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ

LOCATION.--Lat 40°34'14", long 74°40'46", 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.

- REMARKS .-- For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00601), and total particulate nitrogen (49570).
- 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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 FEB	1030	161	3.0	.040	.031	767	104	12.4	7.8	214	14.0	8.0	73
20 May	1030	91	1.9	.053	.041	765	100	13.2	7.9	323	11.0	4.0	97
16 AUG	1000	362	10	.142	.109	762	95	9.9	7.6	231	20.0	13.5	71
08	1000	223	4.4	.029	.021	764	92	8.0	7.9	177	24.0	22.5	60

				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.
(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)
17.9	6.87	1.74	11.3	56	21.2	E.1	3.6	16.8	120	114	<.030	.23
24.0	9.06	2.16	20.9	61	43.8	E.1	5.7	23.4	170	170	<.030	.20
17.8	6.45	1.88	15.1	47	27.0	E.1	11.5	15.9	135	128	<.030	.26
14.5	5.70	1.38	9.64	44	14.8	E.1	3.4	14.3	103	91	<.030	.21
	CALCIUM DIS- SOLVED (MG/L AS CA) (00915) 17.9 24.0 17.8 14.5	MAGNE- SIUM, DIS- SOLVED SIUM, DIS- SOLVED (MG/L (MG/L AS CA) AS MG) (00915) (00925) 17.9 6.87 24.0 9.06 17.8 6.45 14.5 5.70	MAGNE- POTAS- CALCIUM SIUM, SIUM, DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L AS CA) AS MG) AS K) (00915) (00925) (00935) 17.9 6.87 1.74 24.0 9.06 2.16 17.8 6.45 1.88 14.5 5.70 1.38	MAGNE- DIS- SOLVED POTAS- STUM, DIS- SOLVED SODIUM, DIS- SOLVED MG/L MG/L MG/L DIS- MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L 17.9 6.87 1.74 11.3 24.0 9.06 2.16 20.9 17.8 6.45 1.88 15.1 14.5 5.70 1.38 9.64	ANC MAGNE- POTAS- UNFLTRD CALCIUM SIUM, SIUM, SODIUM, TIT 4.5 DIS- DIS- DIS- DIS- LAB SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L (M	ANC MAGNE- POTAS- UNFLTRD CHLO- CALCIUM STUM, STUM, SODIUM, TIT 4.5 RIDE, DIS- DIS- DIS- DIS- LAB DIS- SOLVED SOLVED SOLVED SOLVED (MG/L SOLVED (MG/L (MG/L (MG/L (MG/L AS (MG/L (MG/L AS CA) AS MG) AS K) AS NA) CACO3) AS CL) (00915) (00925) (00935) (00930) (90410) (00940) 17.9 6.87 1.74 11.3 56 21.2 24.0 9.06 2.16 20.9 61 43.8 17.8 6.45 1.88 15.1 47 27.0 14.5 5.70 1.38 9.64 44 14.8	ANC CALCIUM SIUM, SOTAS- UNFLTRD CHLO- FLUO- CALCIUM SIUM, SIUM, SOLVEN TIT 4.5 RIDE, RIDE, DIS- DIS- DIS- DIS- DIS- DIS- DIS- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L (MG/L AS (MG/L (MG/L AS CA) AS MG AS K) AS NA) CACO3) AS CL) AS F) 17.9 6.87 1.74 11.3 56 21.2 E.1 24.0 9.06 2.16 20.9 61 43.8 E.1 17.8 6.45 1.88 15.1 47 27.0 E.1 14.5 5.70 1.38 9.64 44 14.8 E.1	ANC MAGNE- POTAS- UNFLTRD CHLO- FLUO- SILICA, DIS- SOLVED SOLVED <t< td=""><td>ANC CALCIUM SIUM, SOLVED SODUM, TIT 4.5 RIDE, RIDE, DIS- DIS- SULFATE DIS- SOLVED SOLVED</td><td>ANC SOLIDS, CALCIUM SIUM, SIUM, SOLIDK, RESIDUE CALCIUM SIUM, SIUM, SOLIDK, TIT 4.5 RIDE, RIDE, DIS- DIS- SULFATE AT 180 DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DEG. C SOLVED SOLVED SOLVED SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L AS (MG/L SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></t<>	ANC CALCIUM SIUM, SOLVED SODUM, TIT 4.5 RIDE, RIDE, DIS- DIS- SULFATE DIS- SOLVED SOLVED	ANC SOLIDS, CALCIUM SIUM, SIUM, SOLIDK, RESIDUE CALCIUM SIUM, SIUM, SOLIDK, TIT 4.5 RIDE, RIDE, DIS- DIS- SULFATE AT 180 DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DEG. C SOLVED SOLVED SOLVED SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L MG/L SOLVED SOLVED DIS- DEG. C (MG/L (MG/L MG/L MG/L AS (MG/L SOLVED SOLVED SOLVED SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L SOLVED SOLVED (MG/L	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
15	.030	.36	.004	.58	.06	E.03		E.05	.5	<.1	2.6	.5	<1.1
FEB													
20	<.030	.92	.006	1.1	.04	E.04	.033	.07	.4	<.1	2.3	.4	E1.6
MAY													
16	.080	.82	.003	1.1	.12	<.05	<.020	<.06	.8	<.1	4.1	.7	E1.3
AUG													
08	<.030	.21	.003	.42	.05	.035	.023	.047	.5	<.1	2.2	.5	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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 1	, .5		30	2					
				FEE	3		50	15					
				MAY			50	15					
				1 AUG	.6 }	2.40	40	<1					
				C	8	1.10	20	6					
DATE	TIME	SAMF TYF	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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													
08 08	0859 0900	SPLITTER FIELD BL	R BLANK JANK										
08	1000	ENVIRON	TENTAL BEAT							<2	13.8	<.06	23
00	1000	DED MAIE	SKIAL		0.90	1700	8800	45	• 3				
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													
08			<.2										
08	<.04	<.8		1.1	120		<1	32.5		<.01		<1	E.3
08													
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													
08		<1											
08	<.05		3										
08				<1	.359	18	7.4	25	18000	27	330	.05	13
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													
08 08													
08													
08	<1	110	110	E20	E49	E27	E67	E63	180	530	640	770	450

01400000 NORTH BRANCH RARITAN RIVER NEAR RARITAN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
08													
08													
08													
08	560	740	E92	1400	520	<100	<100	E46	E28	260	<100	E36	12
	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												
	0	8											
	0	8											
	0	8											
	0	8	E84	E58	580	<100	E78	1100	36	76			

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					MAY				
01	1000	1700	1200	520	15	1000	>16000	1800	3000
08	1015	230	100	90	22	1015	110	400	70
					30	1020	170	100	40

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value

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. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1020	11	104	0.95	760	80	0.4	7.0	100	16.0		20	F 40
FEB	1030	11	.104	.086	760	80	9.4	7.0	120	10.0	8.0	30	5.40
06	1030	11	.088	.065	766	88	12.3	6.8	131	3.5	2.0	28	5.40
JUN 06 SEP	1030	17	.163	.136	756	80	7.0	7.0	109	26.0	21.0	27	4.88
04	1000	9.1	.098	.084	757	86	7.6	6.2	155	30.0	21.0	38	8.40
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)
NOV 07	4.02	3.08	8.04	19	15.4	<.1	9.2	7.6	76	67	.070	.17	.100
06 JUN	3.48	2.23	8.61	8	17.9	.1	9.6	12.3	74	70	.110	.34	.120
06	3.57	2.46	7.90	15	15.1	E.09	8.1	6.0	76	61	.060	.25	.060
04	4.15	2.79	8.52	4	15.5	.13	10.8	32.0	93	87	.068	.24	.064
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
07	.65	.004	.82	.12	.010		.070	1.0	<.1	2.2	1.0	<1.0	
06 JUN	1.36	.011	1.7	.09	.005	<.020	.064	1.0	<.1	1.0	1.0	E1.3	
06 SEP	.84	.013	1.1	.09	.020	<.020	.110	1.3	<.1	2.4	1.3	<1.0	6.40
04	.48	<.003	.72	.08	.004	<.020	.060	1.2	<.1	2.1	1.2	<1.0	5.70

Remark codes used in this report:

< -- Less than E -- Estimated value

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 07 FEB 06 JUN 06 SEP 04	10 20 E10 20	6 3 7 14

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 06	1030	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
				META/									

	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
06	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

		ACETO- CHLOR, WATER	ALA- CHLOR, WATER.	ALPHA	ATRA- ZINE, WATER.	BEN- FLUR- ALIN WAT FLD	CAR- BARYL WATER FLTRD	CHLOR-	CYANA- ZINE, WATER.	DCPA WATER FLTRD	DEETHYL ATRA- ZINE, WATER.	DI- AZINON.	EPTC WATER FLTRD
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)	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)	0.7 U GF, REC (UG/L) (82668)
JUN 06	1030	<.006	<.004	<.005	.015	<.010	E.268	<.005	<.018	<.003	E.004	<.005	<.002

01400530 MILLSTONE RIVER AT BAIRD ROAD, NEAR PERRINEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 06	<.004	<.035	<.027	<.050	.020	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
						TRI- FLUR-							
							m						
						0.7 U	1						
					DATE	GF, RE (UG/L)	C						
						(82661)						

JUN 06... <.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	1035	2400	<100	1060	07	0922	1100	200	260
17	1114	330	400	360					
24	1030	300	100	630					
31	1040	700	400	650					

Remark codes used in this report: < -- Less than

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." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH	
			CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-
			INST.	ITY	ANCE	ANCE	PRES-	SOLVED		WHOLE	CIFIC
			CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-
		SAMPLE	FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-
DATE	TIME	TYPE	PER	UNFLTRD	(UNITS	(UNITS	OF	SATUR-	SOLVED	ARD	ANCE
			SECOND	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)
			(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)
DEC											
05	0940	ENVIRONMENTAL	16	3.4	.081	.065	767	82	9.1	6.8	285
05	0940	SPLIT REPLICATE									
05	0941	CONCURRENT REPLICATE									
FEB											
05	0900	ENVIRONMENTAL	28		.058	.044	763	90	12.3		370
JUN											
05	1020	ENVIRONMENTAL	14		.088	.067	761	95	8.6	6.9	323
05	1020	SPLIT REPLICATE									
05	1021	CONCURRENT REPLICATE									
AUG											
06	0900	ENVIRONMENTAL	19	5.2	.137	.105	755	66	5.5	6.6	255
06	0900	SPLIT REPLICATE		5.2						6.6	255
06	0901	CONCURRENT REPLICATE		5.0						6.6	255

DATE	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLIRD 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)
DEC													
05	14.5	11.0	52	12.0	5.40	5.19	31.1	42	35.3	.2	9.5	26.0	172
05			49	11.0	5.20	5.80	31.0	43	37.0	.27		27.0	500
05			49	11.0	5.20	5.90	31.0	43	37.0	.26		27.0	370
FEB													
05	-5.0	2.5	60	14.1	6.04	4.38	41.6	32	61.6	.1	10.7	31.8	206
JUN													
05		20.0	90	13.8	13.4	4.91	20.4	46	36.4	.2	7.2	29.8	196
05			89	14.0	13.0	5.20	21.0	43	38.0	.32		31.0	210
05			89	14.0	13.0	5.20	21.0	44	37.0	.31		31.0	220
AUG													
06	23.0	24.0	59	11.5	7.34	4.93	18.1	26	29.6	.2	8.3	27.0	132
06			60	12.0	7.40	5.80	18.0	27	29.0	.29		27.0	170
06			61	12.0	7.50	5.80	19.0	27	29.0	.30		27.0	170

DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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													
05	167	.070	.44	.070		3.77	.018	4.2	<.02	.169			.21
05	152	<.010	.46	.030	.50	2.00	.028	2.5		.160	.068	.07	.200
05	154	.031	.51	.030	.54	2.40	.018	2.9		.150	.065	.07	.190
FEB													
05	203	.770	1.2	.790		2.78	.130	3.9	.16	.054			.140
JUN													
05	176	<.030	.45	.030		4.90	.010	5.3	.04	.160	.127		.135
05	169	<.050	.16	.051	<.10	4.70	.010	4.9		<.050	.110	.17	.180
05	169	<.050	.18	<.050	.22	4.70	.013	4.9		.150	.100	.18	.180
AUG													
06	137	.080	.52	.090		3.24	.030	3.8	.06	.083	.065		.130
06	129	.130	.17	.130	.62	2.70	.027	2.9		.080	.098	.11	.140
06	129	.120	<.10	.130	.49	2.70	.026			.080	.096	.11	.120

Remark codes used in this report:

< -- Less than

01400640 MILLSTONE RIVER NEAR GROVERS MILL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	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											
	05	.3	<.1	2.9	.3	<1.0		80	2			
	05			2.6				80	<10			
	05			2.3				80	<10			
	FEB							~~				
	05	1.3	<.1	2.7	1.3	EL.2		60	13			
	05	4	< 1	3 2	4		1 30	80	12			
	05	•1	~	3.6	• •		1.50	80	<5			
	05			3.5				80	<5			
	AUG											
	06	.6	<.1	4.3	.6	<1.0	.500	70	<1			
	06			4.5				70	<10			
	06			4.3				80	<10			
DATE	Si TIME S	AMPLE TYPE		ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLIRD 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)
AUG		NIMENIT'N T		E 1	47 2	< 05	75	05	< 8	2 0	520	~1
	5500 ENVIR		MAN NES TOJ REC ER#	GA- SE, MERC CAL TOT COV- REC ABLE ERA	URY NICK CURY NICK CAL TOT COV- REC BLE ERA	EL, AL SEI OV- NIU BLE TOI	SILV E- TOT M, REC CAL ERA	ER, ZIN AL TOI OV- REC BLE ERA	C, AL SOV- BLE	2.0	520	~1
		DATE	(UC AS (010	G/L (UG MN) AS 055) (719	HG) AS	NI) AS 67) (011	SE) AS .47) (010	AG) AS 77) (010	ZN) 992)			

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				
31	0955	1300	1000	420	14	0950	2400	800	170
AUG					21	1000	2400	200	2600
07	0955	5000	1300	390	28	0955	230	<100	180

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." Total nitrogen (00601), and total particulate nitrogen (49570).
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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. 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC											
05	0940	ENVIRONMENTAL	1.3	1.8	.055	.045	769	75	8.7	7.5	238
05	0940	SPLIT REPLICATE									
05	0941	CONCURRENT REPLICATE									
FEB											
05	1150	ENVIRONMENTAL	3.9	2.7	.088	.067	763	102	14.3	6.5	476
JUN											
05	0950	ENVIRONMENTAL	1.8	2.5	.134	.103	761	84	8.2	6.5	261
05	0950	SPLIT REPLICATE									
05	0951	CONCURRENT REPLICATE									
AUG											
07	0850	ENVIRONMENTAL	1.1	1.8	.061	.047	760	81	7.7	8.5	220

DATE	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)	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)
DEC													
05	17.0	9.5	69	15.8	7.19	2.76	13.8	30	34.1	E.1	12.9	6.5	148
05			66	15.0	7.00	3.00	13.0	30	37.0	.16		7.1	380
05			67	15.0	7.10	3.00	14.0	30	37.0	.16		7.2	400
FEB													
05	4.0	1.5	97	22.9	9.78	2.90	48.1	34	91.6	E.1	13.6	30.1	276
JUN													
05	27.0	16.5	71	16.4	7.36	2.76	17.4	35	35.8	<.1	12.3	15.4	171
05			69	16.0	7.10	2.90	18.0	34	37.0	.20		16.0	200
05			70	16.0	7.20	2.90	18.0	33	37.0	.20		16.0	180
AUG													
07	23.0	17.5	61	13.9	6.45	2.63	13.0	25	31.2	E.1	12.4	4.9	165

	SOLIDS,	NITRO-	NITRO-		NITRO-	NITRO-	NITRO-		NITRO-		ORTHO-		
	SUM OF	GEN,	GEN, AM-	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-	PHOS-	
	CONSTI-	AMMONIA	MONIA +	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHORUS	PHOS-
	TUENTS,	DIS-	ORGANIC	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	ORTHO	PHORUS
	DIS-	SOLVED	DIS.	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL
DATE	SOLVED	(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 N)	AS P)	AS P)	AS P)	AS P)
	(70301)	(00608)	(00623)	(00610)	(00625)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(70507)	(00665)
DEC													
05	137	.030	.19	<.030		5.84	.006	6.0	.02	.005			.013
05	114	<.010	.29	<.010	.27	3.10	.025	3.4		<.010	.026	.03	<.010
05	114	<.010	.29	<.010	.28	2.80	.029	3.1		<.010	.026	.03	<.010
FEB													
05	253	<.030	.21	<.030		3.06	.002	3.3	.04	.007			.013
JUN													
05	147	.070	.33	.160		4.23	.011	4.6	.07	.020	<.020		.086
05	136	.063	<.10	.064	.26	4.10	.011			<.050	.088	.06	<.050
05	135	.090	<.10	.064	.22	4.00	.011			<.050	.090	.06	<.050
AUG													
07	126	<.030	.21	<.030		5.90	.005	6.1	.07	.016	.034		.027

Remark codes used in this report:

< -- Less than E -- Estimated value

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Mixed Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 10.

01401400 HEATHCOTE BROOK AT KINGSTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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								
05	.4	<.1	1.6	.4	<1.0		20	8
05			1.0				10	<10
05			<1.0				10	<10
FEB								
05	.2	<.1	2.8	.2	2.1		30	1
JUN								
05	.4	<.1	3.3	.4		1.50	30	7
05			3.3				20	<5
05			3.5				20	<5
AUG								
07	.5	<.1	1.8	.5	<1.0	1.20	20	<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)
JUL					AUG				
31	0930	1700	500	190	14	0930	800	500	240
AUG					21	0930	1100	<100	500
07	0920	170	<100	160	28	0920	220	<100	100

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 11	1100	.8	.149	.116	762	92	11.4	7.7	196	12.0	6.0	76	15.5
FEB 27	0930	1.1	.073	.057	746	96	11.8	7.8	171	2.0	5.5	64	13.4
20	1000	5.3	.257	.200	771	97	9.4	7.7	112	22.0	17.5	43	9.20
29	1000	20	.152	.120	756	93	8.9	7.6	141	17.0	17.0	56	11.4
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)	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)
DEC 11	9.03	1.35	6.45	64	10.8	<.1	28.1	16.2	140	125	<.030	.21	<.030
27 JUN	7.46	.70	6.69	48	9.01	<.1	27.7	19.6	124	113	.030	.13	.040
20 AUG	4.92	.89	4.58	35	5.87	E.1	21.7	10.3	97	79	<.030	.33	<.030
29	6.59	1.37	4.44	44	5.39	<.1	20.2	13.7	104	91	<.030	.22	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
11 FEB 27.	<.04	<.003		<.02	.005	 <.020	.007	.2	<.1	5.0 2.3	.2	<1.0	
JUN 20	.11	<.003	.43	.03	.020	<.020	.032	.3	<.1	6.3	.3	2.1	.600
AUG 29	.31	.004	.53	.18	.020	.022	.100	1.8	<.1	4.3	1.8	E1.8	14.3

Remark codes used in this report:

< -- Less than E -- Estimated value

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 11 FEB 27 JUN 20 AUG 29	40 30 30 20	7 3 10 54

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	0930	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, 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 27	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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)		
	FEB 2	3 27	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 20	1000	<.006	<.004	<.005	.017	<.010	<.041	<.005	<.018	<.003	E.009	<.005	<.002

01401560 ROCK BROOK AT ZION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		LIN-		METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-
		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL	SI-	THIURON	BACIL
	TIMAN	WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	DIC	FLIRD	THION,	WAT FLT	LACHLOR	SENCOR	FLIRD	WAT FLT	WATER,	FLIRD	WATER,	FLIRD	FLIRD
ኮልምም	DIS-		DIS-		MALER	WAIER			DISS,		DISS,		
DAIL	(UG/L)	$(IIG/I_{\rm I})$		$(\Pi G/I_{\star})$	$(IIG/I_{\rm I})$	$(IIG/I_{\rm I})$	$(IIG/I_{\rm I})$	$(\Pi G/I_{\rm I})$	(IIG/I.)	(IIG/I_{L})	(IIG/L)	(IIG/IL)	(IIG/I.)
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
JUN													
20	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.022	.02	<.011	<.005	<.02	<.034
						TRI-							
						ALIN							
						WAT FL	т						
						0.7 U	r						
					DATE	GF, RE	C						
						(UG/L)							
						(82661	.)						

JUN 20... <.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 01 08	1120 1125	80 20	100 <100	80 40	MAY 15 22 30	1105 1120 1130	40 80 40	<1000 200 100	140 30 30

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 29 FEB	1000	76	4.5	.096	.072	771	70	7.6	7.5	397	8.5	12.0	99
20 MAY	1000	87	3.7	.084	.065	765	103	13.0	8.0	478	8.0	5.5	100
16 AUG	0930	305	8.8	.169	.129	764	70	7.1	7.3	256	14.5	15.0	64
15	0900	54	8.6	.122	.090	766	47	3.8	7.3	409		26.5	100

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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													
29 FEB	21.3	11.1	6.14	33.1	63	45.1	.2	4.8	41.3	218	217	.140	.60
20 MAY	23.5	10.8	5.39	45.2	47	73.4	.2	5.8	42.0	256	255	.050	.41
16 AUG	14.8	6.53	2.98	19.4	39	29.6	.1	10.0	24.1	152	139	.130	.52
15	22.8	11.3	7.23	36.7	54	52.2	.4	7.8	44.5	226	239	.120	.68
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
29 FEB	.150	3.76	.021	4.4	.03	.45		.46	.3	<.1	4.2	.3	<1.0
20 May	.050	4.23	.018	4.6	.07	.40	.391	.50	.4	<.1	3.4	.4	E1.2
16	.140	1.71	.035	2.2	.09	.18	.168	.17	.5	<.1	5.0	.5	<1.0

.729

.79

.7

<.1

4.9

.7

E1.4

5.5 .11 .75

Remark codes used in this report:

.110

4.80

.034

< -- Less than E -- Estimated value

AUG 15...

01402000 MILLSTONE RIVER AT BLACKWELLS MILLS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 29 FEB		110	<1
20		90	6
16	1.10	50	9
15	8.00	130	8

				BERYL-			CHRO-				MANGA-		
			BARIUM, TOTAL	LIUM, TOTAL	BORON, TOTAL	CADMIUM WATER	MIUM, TOTAL	COPPER, TOTAL	IRON, TOTAL	LEAD, TOTAL	NESE, TOTAL	MERCURY TOTAL	NICKEL, TOTAL
DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	RECOV- ERABLE (UG/L AS BA) (01007)	RECOV- ERABLE (UG/L AS BE) (01012)	RECOV- ERABLE (UG/L AS B) (01022)	UNFLTRD TOTAL (UG/L AS CD) (01027)	RECOV- ERABLE (UG/L AS CR) (01034)	RECOV- ERABLE (UG/L AS CU) (01042)	RECOV- ERABLE (UG/L AS FE) (01045)	RECOV- ERABLE (UG/L AS PB) (01051)	RECOV- ERABLE (UG/L AS MN) (01055)	RECOV- ERABLE (UG/L AS HG) (71900)	RECOV- ERABLE (UG/L AS NI) (01067)
AUG 15	0900	3	46.9	<.06	138	E.03	<.8	2.7	250	<1	138	<.01	2
				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 1	5	.7	<.05	13					

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					MAY				
01	1050	700	<100	380	15	1035	230	300	400
08	1050	110	100	100	22	1050	130	<100	190
					30	1100	1700	300	180

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). This station was sampled only three times in water year 2002 because bridge construction prevented access to the stream in the August-September sampling period.

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
06	1015	2.4	.091	.070	763	77	8.8	7.6	263	15.0	9.7	93	24.1
14 MAY	1015	3.7	.095	.073	769	93	13.0	7.8	463	5.0	2.0	120	30.8
28	0940	3.3	.197	.153	761	85	7.6	7.6	191	23.0	21.0	62	15.4
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)	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)
DEC 06 FEB	7.97	1.50	13.0	76	23.7	E.1	9.7	16.1	160	143	<.030	.31	<.030
14	10.8	1.54	34.5	62	83.4	E.1	11.8	20.1	244	232	.060	.27	.030
28	5.70	1.38	10.7	47	18.5	E.1	11.7	14.3	124	108	<.030	.34	.030
	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	ORTHO- PHOS- PHATE, 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

DATE	SOLVED (MG/L AS N) (00631)	SOLVED (MG/L AS N) (00613)	SOLVED (MG/L AS N) (00602)	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)	ICAL, 5 DAY (MG/L) (00310)	METHOD CORR. (UG/L) (32209)
DEC													
06	.27	<.003	.58	.12	.007		.018	.9	<.1	4.1	.9	2.3	
FEB													
14	.40	<.003	.67	.06	.005	<.020	.018	.5	<.1	3.3	.4	<1.0	
MAY													
28	.39	.007	.74	.06	.017	<.020	.030	.5	<.1	5.4	.4	E1.1	5.20

		RESIDUE
		TOTAL
	BORON,	AT 105
	DIS-	DEG. C,
	SOLVED	SUS-
DATE	(UG/L	PENDED
	AS B)	(MG/L)
	(01020)	(00530)
DEC		
06	190	4
FEB		
14	170	11
MAY		
28	120	5

Remark codes used in this report:

< -- Less than

E -- Estimated value

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 14	1015	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 14	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.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	4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 28	0940	.007	<.004	<.005	.640	<.010	E.174	<.005	<.018	<.003	E.023	.120	<.002
		LIN- URON WATER	M21.2-	METHYL AZIN- PHOS	METO-	METRI- BUZIN	NAPROP- AMIDE WATER	PENDI- METH- ALTN	PRO-	PRO- PANIL WATER	SI-	TEBU- THIURON WATER	TER- BACIL WATER
DATE	LINDANE DIS- SOLVED (UG/L) (39341)	FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	WAT FLT 0.7 U GF, REC (UG/L) (82686)	LACHLOR WATER DISSOLV (UG/L) (39415)	SENCOR WATER DISSOLV (UG/L) (82630)	FLTRD 0.7 U GF, REC (UG/L) (82684)	WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER, DISS, REC (UG/L) (04037)	FLTRD 0.7 U GF, REC (UG/L) (82679)	WATER, DISS, REC (UG/L) (04035)	FLTRD 0.7 U GF, REC (UG/L) (82670)	FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 28	<.004	<.035	<.027	<.050	.218	<.006	<.007	E.011	.03	<.011	.009	<.02	<.034

DATE	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 28	<.010

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01403171 WEST BRANCH MIDDLE BROOK AT CHIMNEY ROCK ROAD, AT MARTINSVILLE, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	COLI- FORM, FECAL, EC BROTH	E COLI, MTEC MF WATER (COL/	ENTERO- COCCI, ME MF, WATER (COL/	DATE	TIME	COLI- FORM, FECAL, EC BROTH	E COLI, MTEC MF WATER (COL/	ENTERO- COCCI, ME MF, WATER (COL/
		(MPN) (31615)	100 ML) (31633)	100 ML) (31649)			(MPN) (31615)	100 ML) (31633)	100 ML) (31649)
MAY					MAY				
01	0945	1300	<100	500	15	0940	9000	5700	2000
08	0950	20	<100	20	22	1000	500	400	100
					30	1000	170	200	20

Remark codes used in this report: < -- Less than

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". Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV											
06	0920	ENVIRONMENTAL	161	766	87	9.9	7.6	466		10.0	66
03	0930	ENVIRONMENTAL	146	775	97	11.0	7.5	464		10.5	63
JAN											
03	1000	ENVIRONMENTAL	172	767	108	15.6	7.3	347		.5	58
MAR	1000		4.21	765	109	14 0	° 0	350		4 5	40
APR	1000	ENVIRONMENTAL	431	765	109	14.0	8.0	350		4.5	42
04	0930	ENVIRONMENTAL	536	770	102	11.0	8.4	298	8.5	12.5	50
MAY											
06	1045	ENVIRONMENTAL	577	768	101	9.8	7.2	245		17.0	40
06	1046	SPLIT REPLICATE									40
JUN											
10	0900	FIELD BLANK									
10	1030	ENVIRONMENTAL	431	766	98	8.5	7.3	260	24.0	22.5	41
JUL											
09	1050	ENVIRONMENTAL	152	760	111	9.0	7.5	387	30.0	26.0	55
355P 10	0930		155	750	07	8 0	7 2	304	30 5	22 5	52
T0	0930	EN VIRONIEN IAL	155	159	33	0.0	/.2	594	30.5	44.5	52

	BICAR-			NITRO-	NITRO-	NITRO-	NITRO-	ORTHO-		SEDI-	
	BONATE	CHLO-		GEN, AM-	GEN,	GEN,	GEN,	PHOS-		MENT,	
	WATER	RIDE,	SULFATE	MONIA +	AMMONIA	NO2+NO3	NITRITE	PHATE,	PHOS-	DIS-	SEDI-
	DIS IT	DIS-	DIS-	ORGANIC	DIS-	DIS-	DIS-	DIS-	PHORUS	CHARGE,	MENT,
	FIELD	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	SUS-	SUS-
DATE	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	PENDED	PENDED
	HCO3	AS CL)	AS SO4)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	(T/DAY)	(MG/L)
	(00453)	(00940)	(00945)	(00625)	(00608)	(00631)	(00613)	(00671)	(00665)	(80155)	(80154)
NOV											
06	80	51.4	58.3	.62	.07	4.46	.018	.56	.66		2.4
DEC											
03	77	48.7	67.5	.69	.04	4.51	.019	.58	.67		6.0
JAN											
03	70	42.1	42.9	.52	E.04	3.87	.013	.36	.43		2.2
MAR											
06	52	51.2	29.6	.64	<.04	2.39	.013	.09	.21		7.4
APR											
04	61	43.2	31.8	.43	.05	2.08	.011	.15	.20		5.4
MAY											
06	49	29.0	27.0	.62	.05	1.88	.014	.14	.20	16.1	11
06	49	29.4	27.1	.57	.04	1.83	.013	.13	.21	15.6	10
JUN											
10		<.30	<.1	<.10	<.04	<.05	<.008	<.02	<.004		
10	50	31.8	25.1	.52	.05	1.95	.023	.20	.26		7.7
JUL											
09	67	42.3	42.4	.67	<.04	3.42	.034	.54	.64		4.2
SEP											
10	63	43.1	50.0	.56	E.03	3.49	.012	.60	.64	2.0	5.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</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 (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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 1,3-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
NOV											
06	0920	ENVIRONMENTAL	<.03	м	<.1	м	<.06	E.04	E.02	<.06	.10
JAN											
03	1000	ENVIRONMENTAL	<.03	м	м	E.1	E.02	E.08	E.02	<.06	.18
03	1001	SEQUENTIAL REPLICATE	<.03	М	М	E.1	E.02	E.08	E.02	<.06	.18
APR											
04	0930	ENVIRONMENTAL	<.03	<.3	<.1	<.1	<.06	.17	.15	E.01	.72
JUL											
09	1049	FIELD BLANK	<.03	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
09	1050	ENVIRONMENTAL	<.03	<.3	<.1	<.1	<.06	.12	E.03	<.06	.50

DATE	BENZENE TOTAL (UG/L) (34030)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV													
06	1.43	E.04	E.01	.2	1.03	<.04	.49	<.2	<.08	E.2	м	<5.0	<.06
JAN													
03	3.68	E.03	E.02	E.2	.60	E.01	.33	<.2	<.08	E.1	<.2	<5.0	E.02
03	3.70	E.03	E.02	.2	.59	E.01	.33	<.2	<.08	E.1	<.2	<5.0	E.02
APR													
04	12.6	E.05	E.08	.2	2.73	<.04	.92	.6	<.08	.4	<.2	<5.0	E.11
JUL													
09	<.04	<.07	<.03	<.2	<.02	<.04	<.05	<.2	<.08	<.2	<.2	<5.0	<.06
09	1.92	<.07	E.06	.4	2.81	<.04	1.02	<.2	<.08	.4	<.2	<5.0	E.03

DATE	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
NOV							
06	<.03	<.07	<.04	E.03	<.06	E.05	E.02
JAN							
03	E.02	E.03	<.04	E.03	E.02	.21	E.03
03	E.02	E.03	<.04	E.03	E.02	.21	E.03
APR							
04	<.03	E.05	<.04	E.05	<.06	1.12	E.03
JUL							
09	<.03	<.07	<.04	<.03	<.06	<.05	<.04
09	<.03	<.07	<.04	E.03	<.06	.12	<.04

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, 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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPI TYPE	æ		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)	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)
NOV													
06 DEC	0920	ENVIRONME	NTAL		<.004	<.002	<.005	.019	<.010	E.077	<.005	<.018	<.003
03	0930	ENVIRONME	NTAL		<.004	<.002	<.005	.011	<.010	E.006	<.005	<.018	<.003
JAN	0015		NTC					. 007	- 010	- 041	. 005	- 010	
03	0915	FIELD BLA	IVK.		<.004	<.002	<.005	<.007	<.010	<.041	<.005	<.018	<.003
03 MAD	1000	ENVIRONME	NTAL		<.004	<.002	<.005	.014	<.010	E.007	<.005	<.019	<.003
06	1000	ENVIRONME	NTAT.		< 006	< 004	< 005	014	< 010	< 041	< 005	< 018	< 003
APR	1000												
04	0930	ENVIRONME	NTAL		<.006	<.004	<.005	.015	<.010	E.006	<.005	<.018	<.003
MAY													
06	1045	ENVIRONME	NTAL		.056	<.004	<.005	.158	<.010	E.100	<.005	<.018	<.003
06	1046	SPLIT REF	LICATE		.055	<.004	<.005	.146	<.010	E.091	<.005	<.018	<.003
JUN													
10	1030	ENVIRONME	NTAL		.035	.010	<.005	.401	<.010	E.030	<.005	<.018	<.003
JUL	1050	ENTITIONME	י די די		< 006	< 004	< 005	015	< 010	< 041	< 005	< 018	< 003
9 970	1030	ENVIRONME			<.000	<.004	<.005	.015	<.010	<.041	<.005	<.010	<.003
10	0930	ENVIRONME	NTAL		<.006	<.004	<.005	.026	<.010	E.023	<.005	<.018	<.003
	DEETHYL ATRA- ZINE, WATER,	DI- AZINON,	EPTC WATER FLTRD	LINDANE	LIN- URON WATER FLTRD	MALA- THION,	METHYL AZIN- PHOS WAT FLT	METO- LACHLOR	METRI- BUZIN SENCOR	NAPROP- AMIDE WATER FLTRD	PENDI- METH- ALIN WAT FLT	PRO- METON, WATER,	PRO- PANIL WATER FLTRD

DATE	WATER, DISS, REC (UG/L) (04040)	AZINON, DIS- SOLVED (UG/L) (39572)	FLTRD 0.7 U GF, REC (UG/L) (82668)	LINDANE DIS- SOLVED (UG/L) (39341)	FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	WAT FLT 0.7 U GF, REC (UG/L) (82686)	LACHLOR WATER DISSOLV (UG/L) (39415)	SENCOR WATER DISSOLV (UG/L) (82630)	FLTRD 0.7 U GF, REC (UG/L) (82684)	WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER, DISS, REC (UG/L) (04037)	FLTRD 0.7 U GF, REC (UG/L) (82679)
NOV													
06 DEC	E.016	<.005	<.002	.009	<.035	<.027	<.050	E.012	<.006	<.007	<.010	E.01	<.011
03	E.010	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.010	E.01	<.011
JAN													
03	<.006	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.010	<.01	<.011
03	E.012	<.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.010	E.01	<.011
MAR													
06	E.016	<.005	<.002	<.004	<.035	<.027	<.050	.018	<.006	<.007	<.022	.09	<.011
APR													
04	E.009	<.005	<.002	<.004	<.035	<.027	<.050	.015	<.006	<.007	<.022	.04	<.011
MAY													
06	E.021	.008	<.002	<.004	<.035	<.027	<.050	.025	<.006	<.007	<.022	.03	<.011
06	E.022	.008	<.002	<.004	<.035	<.027	<.050	.024	<.006	<.007	<.022	.02	<.011
JUN													
10	E.049	.014	<.002	<.004	<.035	<.027	<.050	.102	<.006	<.007	<.022	.10	<.011
JUL													
09	<.006	<.005	<.002	<.004	<.035	<.027	<.050	E.009	<.006	<.007	<.022	.02	<.011
SEP													
10	E.022	<.010	<.002	<.004	<.035	<.027	<.050	.026	<.006	<.007	<.022	.02	E.008

01403300 RARITAN RIVER AT QUEENS BRIDGE, AT BOUND BROOK, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV			
06	<.011	<.02	<.034
DEC			
03	E.004	<.02	<.034
JAN			
03	<.011	<.02	<.034
03	<.011	<.02	<.034
MAR			
06	<.005	<.02	<.034
APR 04	010	< 02	< 034
04 MAV	.012	<.0Z	<.034
06	010	< 02	< 034
06	009	< 02	< 034
TIN			
10	.022	<.02	<.034
ராட			
09	<.005	<.02	<.034
SEP			
10	.011	<.02	<.034

PLANT TISSUE ANALYSES

			PERI-		CHLOR-A
		PERI-	PHYTON	PHEO-	PERI-
		PHYTON	BIOMASS	PHYTIN	PHYTON
		BIOMASS	TOTAL	А,	CHROMO-
		ASH	DRY	PERI-	GRAPHIC
DATE	TIME	WEIGHT	WEIGHT	PHYTON	FLUOROM
		G/SQ M	G/SQ M	(MG/M2)	(MG/M2)
		(00572)	(00573)	(62359)	(70957)
JUL	0020	200	410.0	10	20 6
23	0930	390	412.8	10	30.0

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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
19 FEB	1130	2.6	4.1	.119	.091	764	86	10.5	7.5	647	15.5	7.0	280
06 JUN	1210	7.4	14	.111	.079	765	104	14.4	7.5	663	5.5	2.0	170
12 AUG	1020	7.2	4.8	.168	.124	757	46	3.8	7.3	472	29.5	24.0	170
20	1200	6.8	6.0	.189	.138	761	52	4.3	7.2	543	29.0	25.0	200
					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													
19	85.3	15.5	3.34	27.1	160	49.8	.1	10.3	118	418	405	.030	.25
FEB													
06	51.4	10.5	2.34	55.0	97	105	.1	9.8	60.3	382	357	.080	.33
JUN													
12	51.7	11.1	2.79	26.7	106	45.9	.1	14.5	54.0	288	275	.110	.50
AUG													
20	59.1	13.4	3.19	23.7	97	44.1	.1	6.2	95.0	321	307	.110	.55
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON	CARBON,		CARBON	OXYGEN
	NITRO-	GEN .	GEN .	NITRO-	GEN PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON.	ORGANIC	DEMAND.
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-

	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
19	.050	<.04	<.003		.72	.013		.103	4.5	<.1	4.3	4.5	4.0
FEB													
06	.110	1.03	.020	1.4	.09	.014	<.020	.064	.9	<.1	3.8	.9	<1.1
JUN													
12	.120	.99	.031	1.5	.07	.110	.079	.156	.8	<.1	5.3	.7	E1.7
AUG													
20	.090	.66	.019	1.2	.13	.152	.130	.17	.8	<.1	E6.4	.8	2.3

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
19		200	10	
FEB 06		130	10	
12	.500	160	4	
20	.200	200	5	

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			400	240	AUG				= 0
31	0930	800	400	340	14 21	1023	230	200	70 310
07	0947	300	<100	160	28	0900	1300	<100	310

Remark codes used in this report: < -- Less than

01403900 BOUND BROOK AT MIDDLESEX, NJ

LOCATION.--Lat 40°35'06", long 74°30'30", 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, 2001 to current year.

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". Site is in New Jersey Department of Environmental Protection Watershed Management Area 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV											
06 DEC	1220	ENVIRONMENTAL	6.9	766	87	10.1	7.8	580		9.0	112
03 JAN	1240	ENVIRONMENTAL	8.2	775	94	11.2	7.5	469		8.5	97
03	1240	ENVIRONMENTAL	9.9	767	103	14.7	7.4	508		1.0	95
06	1340	ENVIRONMENTAL	17	765	108	13.7	7.7	421		5.5	57
APR 04 MAY	1310	ENVIRONMENTAL	26	770	140	14.7	8.4	445	21.0	13.5	79
01	1000 1001	ENVIRONMENTAL SPLIT REPLICATE	62	758 	84	9.0	7.3	348	20.0	12.0	61 62
JUN											
11 11	0929 0930	FIELD BLANK ENVIRONMENTAL	11	760	80	7.2	7.6	398	23.0	20.5	 74
JUL 09	1320	ENVIRONMENTAL	4.2	760	124	10.3	7.5	519	34.5	24.5	108
10	1140	ENVIRONMENTAL	6.5	757	95	8.3	7.3	497	29.5	21.5	94

	BICAR-			NITRO-	NITRO-	NITRO-	NITRO-	ORTHO-		SEDI-	
	BONATE	CHLO-		GEN, AM-	GEN,	GEN,	GEN,	PHOS-		MENT,	
	WATER	RIDE,	SULFATE	MONIA +	AMMONIA	NO2+NO3	NITRITE	PHATE,	PHOS-	DIS-	SEDI-
	DIS IT	DIS-	DIS-	ORGANIC	DIS-	DIS-	DIS-	DIS-	PHORUS	CHARGE,	MENT,
	FIELD	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	SUS-	SUS-
DATE	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	PENDED	PENDED
	HCO3	AS CL)	AS SO4)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	(T/DAY)	(MG/L)
	(00453)	(00940)	(00945)	(00625)	(00608)	(00631)	(00613)	(00671)	(00665)	(80155)	(80154)
NOV											
06	137	56.3	80.8	. 31	<.04	.18	<.008	E.01	.037	.04	2.4
DEC	207	5000						2002			
03	119	46.1	61.9	.32	.04	.49	.008	.03	.083	.09	4.0
JAN											
03	116	53.8	67.1	.30	.06	1.10	.011	<.02	.044	.05	2.0
MAR											
06	70	64.7	35.1	.50	E.03	1.18	.010	E.01	.074	.28	6.1
APR											
04	97	66.3	43.0	.34	<.04	.64	.011	E.01	.046		2.5
MAY											
01	74	44.0	35.5	.59	.10	1.00	.024	<.04	.085		7.6
01	75	44.7	35.9	.55	.11	.98	.023	<.04	.084		7.8
JUN											
11		<.30	<.1	<.10	<.04	<.05	<.008	<.02	<.004		.2
11	90	45.6	39.2	.46	.06	.76	.019	.05	.111		3.9
JUL											
09	131	49.6	69.2	.35	<.04	.33	.021	E.02	.109		2.7
SEP											
10	114	45.8	68.4	.32	E.03	.84	.009	.04	.087	.04	2.5

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES Selected samples were 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 analyses in one or more surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLIRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 1,3-DI- CHLORO- WATER UNFLIRD 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)
NOV											
06	1220	ENVIRONMENTAL	<.03	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
JAN											
03	1240	ENVIRONMENTAL	E.02	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
03	1241	SEQUENTIAL REPLICATE	E.02	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
APR											
04	1310	ENVIRONMENTAL	E.01	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
JUL											
09	1319	FIELD BLANK	<.03	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03
09	1320	ENVIRONMENTAL	<.03	<.3	<.1	<.1	<.06	<.03	<.05	<.06	<.03

DATE	BENZENE TOTAL (UG/L) (34030)	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)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	METHYL- ETHYL- KETONE WATER WHOLE TOTAL (UG/L) (81595)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)
NOV													
06	<.04	E.04	.11	<.2	E.07	E.02	<.05	<.2	.14	42.0	<.2	E2.2	<.06
JAN													
03	E.01	E.03	.12	<.2	E.08	.12	E.04	<.2	.10	20.0	<.2	<5.0	<.06
03	E.01	E.03	.12	<.2	E.08	.12	E.04	<.2	.11	19.2	<.2	<5.0	<.06
APR													
04	<.04	.13	E.08	<.2	E.08	E.09	<.05	<.2	<.08	6.1	<.2	<5.0	<.06
JUL													
09	<.04	<.07	<.03	<.2	<.02	<.04	<.05	<.2	<.08	<.2	<.2	<5.0	<.06
09	<.04	<.07	E.06	<.2	E.04	E.02	<.05	<.2	E.04	20.9	<.2	<5.0	<.06

DATE	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
NOV							
06	<.03	<.07	E.01	E.03	<.06	E.01	E.04
JAN							
03	<.03	<.07	<.04	E.04	<.06	E.04	E.10
03	<.03	<.07	<.04	E.04	<.06	E.04	.10
APR							
04	<.03	<.07	<.04	E.03	<.06	E.03	E.07
JUL							
09	<.03	<.07	<.04	<.03	<.06	<.05	<.04
09	<.03	<.07	<.04	E.03	<.06	E.03	E.04

01403900 BOUND BROOK AT MIDDLESEX, 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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

APR 04 04 MAY 01	1309 1310 1000 1001	FIELD BLANK ENVIRONMENTAL ENVIRONMENTAL SPLIT REPLICATE	<.006 <.006 <.006 <.006	<.004 <.004 <.004	<.005 <.005 <.005	<.007 E.006 .025	<.010 <.010 <.010	<.041 E.007 E.029	<.005 <.005 <.005 <.005	<.018 <.018 <.018 <.018	<.003 <.003 E.003
JUN 11 JUL 09	0930 1320	ENVIRONMENTAL ENVIRONMENTAL	<.006 <.010	<.004 <.004	<.005 <.005	.030	<.010 <.010	E.026 E.021	<.005 <.005	<.018 <.018	<.003
SEP 10	1140	ENVIRONMENTAL	<.006	<.004	<.005	.009	<.010	<.041	<.005	<.018	<.003
	DEETHYL ATRA-	EPTC	LIN- URON		METHYL AZIN-		METRI-	NAPROP- AMIDE	PENDI- METH-	PRO-	PRO- PANIL

	ATRA-		EPTC		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL
	ZINE,	DI-	WATER		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER
	WATER,	AZINON,	FLTRD	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD
	DISS,	DIS-	0.7 U	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U
DATE	REC	SOLVED	GF, REC	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC
	(UG/L)												
	(04040)	(39572)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)
NOV													
06	E.006	.009	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.010	<.01	<.011
DEC													
03	<.006	.008	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.010	E.01	<.011
JAN													
03	E.004	<.005	<.002	<.004	<.035	<.027	<.050	E.002	<.006	<.007	<.010	E.01	<.011
MAR													
06	<.006	.008	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.007	<.022	.02	<.011
APR													
04	<.006	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011
04	<.006	.012	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011
MAY													
01	E.011	.023	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.007	.025	.03	<.011
01	E.011	.022	<.002	<.004	<.035	<.027	<.050	.023	<.006	<.007	.025	.03	<.011
JUN													
11	E.011	.012	<.015	<.004	<.035	<.027	<.050	.013	<.006	<.007	<.022	.05	<.011
JUL													
09	E.025	<.005	<.002	<.004	<.035	<.027	<.050	.025	<.006	<.007	<.022	.02	<.011
SEP													
10	E.009	.006	<.002	<.004	<.035	<.027	<.050	E.007	<.006	<.007	<.022	.03	<.011

01403900 BOUND BROOK AT MIDDLESEX, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	SI- MAZINE,	TEBU- THIURON WATER	TER- BACIL WATER
	WATER,	FLTRD	FLTRD
	DISS,	0.7 U	0.7 U
DATE	REC	GF, REC	GF, REC
	(UG/L)	(UG/L)	(UG/L)
	(04035)	(82670)	(82665)
NOV			
06	<.011	E.01	<.034
DEC			
03	E.009	E.01	<.034
JAN			
03	<.011	E.02	<.034
MAR			
06	<.005	E.01	<.034
APR			
04	<.005	<.02	<.034
04	.005	<.02	<.034
MAI	010	- 01	- 034
01	.010	<.04	< 034
U1	.009	<.04	<.034
11	< 0.09	02	< 034
	<.00J	.02	<.054
00	016	< 02	< 034
SEP	.010		
10	.005	.03	<.034

PLANT TISSUE ANALYSES

			PERI-		CHLOR-A
		PERI-	PHYTON	PHEO-	PERI-
		PHYTON	BIOMASS	PHYTIN	PHYTON
		BIOMASS	TOTAL	А,	CHROMO-
		ASH	DRY	PERI-	GRAPHIC
DATE	TIME	WEIGHT	WEIGHT	PHYTON	FLUOROM
		G/SQ M	G/SQ M	(MG/M2)	(MG/M2)
		(00572)	(00573)	(62359)	(70957)
.пп.					
22	0905	400	419.4	24	79.5
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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1030	6.1	3.5	.046	.037	771	96	12.4	6.6	217	16.0	5.0	41
05	0940	11	5.8	.018	.014	765	99	14.3	4.3	271	-2.0	.5	46
09	0910	9.4	12	.057	.045	764	94	9.6	5.3	219	12.5	14.5	41
13	1100	2.6	9.6	.128	.102	748	96	8.0	7.9	283	36.0	23.5	41

					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													
14	9.38	4.36	3.32	21.3	11	46.8	.2	10.5	17.9	122	123	.080	.15
FEB													
05	11.1	4.54	3.04	19.6		41.9	E.1	12.5		144		.230	.36
MAY													
09	9.79	4.00	2.85	19.1	2	39.4	.2	10.6	31.2	129	121	.090	.30
AUG													
13	10.1	3.94	4.05	31.4	10	61.8	.2	8.6	17.4	171	147	<.030	.21

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 14 FEB 05 MAY 09 AUG	.100 .230 .120	.54 .94 .62	.004 .005 <.003	.69 1.3 .92	.10 .08 .16	<.004 <.004 E.003	 <.020	.027 .041 .069	.5 .8 1.6	<.1 <.1 <.1	1.6 1.1 2.1	.5 .8 1.6	<1.0 2.3 <1.0
13	<.030	.81	.003	1.0	.07	.012	<.020	.086	.5	<.1	3.4	.5	<1.0

	CHLORO-		RESIDUE
	FILLD A	POPON	ATT 10E
	FLOORO-	BORON,	AI 105
	METRIC	DIS-	DEG. C,
	METHOD	SOLVED	SUS-
DATE	CORR.	(UG/L	PENDED
	(UG/L)	AS B)	(MG/L)
	(32209)	(01020)	(00530)
NOV			
14		20	8
FEB			
05		20	14
MAY			
09	3.90	20	14
AUG			
13	1.30	30	8

RARITAN RIVER BASIN

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 13	1100	<2	27.7	<.06	31	<.04	<.8	.7	1420	<1	53.8	<.01	2
				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 1	.3	E.3	<.05	5					
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 05	0940	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 05	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
			METHYL	META/ PARA-	0-		TETRA-		TRI-	TRI-			

	METHIT	PARA-	0-		TEIRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
05	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 09	0910	<.006	<.004	<.005	.011	<.010	E.194	<.005	<.018	<.003	E.004	E.003	<.002

RARITAN RIVER BASIN

01405340 MANALAPAN BROOK AT FEDERAL ROAD, NEAR MANALAPAN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 09	<.004	<.035	<.027	<.050	.053	<.006	<.007	E.009	.03	<.011	.011	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	nT r xC .)						

MAY 09... <.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				
31	0945	1300	2500	1510	14	0950	1300	<100	670
AUG					21	1010	1100	<100	600
07	0915	800	<100	440	28	0920	1300	200	1200

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. -- Water year 2001 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1100	4.4	.088	.074	770	69	7.4	6.7	150	13.0	12.5	40	12.6
05	0945	8.1	.042	.038	767	79	10.3	6.8	157	-2.0	4.5	36	11.1
MAY													
14 AUG	0845	12	.122	.096	751	75	7.9	6.4	101	13.0	12.5	20	6.12
15	0930	8.1	.069	.058	764	71	6.6	6.8	159	28.0	19.0	44	14.0
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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)
NOV													
28 FEB	2.04	2.49	8.46	22	19.5	<.1	14.8	12.2	96	87	<.030	E.09	<.030
05 MAY	2.00	2.33	10.4	16	21.0	<.1	15.1	15.2	92	89	.070	.14	.060
14 AUG	1.24	1.62	7.52	10	12.8	<.1	8.0	11.0	63	56	.060	.20	.050
15	2.11	2.59	9.62	25	19.8	E.1	15.7	12.5	76	94	.040	.14	.040
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
28 FEB	.43	.003		.06	E.003		.027	.4	<.1	1.5	.4	<1.0	
05	.42	.003	.56	.02	E.002	<.020	.032	.7	<.1	.8	.7	<1.0	
MAY 14 AUG	.36	.003	.56	.09	.006	<.020	.047	1.6	<.1	3.1	1.6	<1.0	.400
15	.55	.003	.68	.07	.005	<.020	.032	.3	<.1	1.3	.3	<1.0	.500

Remark codes used in this report:

WHALE POND BROOK BASIN

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DIS- SOLVED (UG/L AS B) (01020)	AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
30 20 20 20	3 8 11 5
	DIS- SOLVED (UG/L AS B) (01020) 30 20 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)
FEB 05	0945	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 05	<.1	<.2	<.1	3.3	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.7
	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							10.0				
	C	15	<.2	<.2	<.1	<.1	<.1	<.1	10.0	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 14	0845	<.006	<.004	<.005	.093	<.010	E.050	<.005	<.018	<.003	E.015	<.005	<.002

WHALE POND BROOK BASIN

01407617 WHALE POND BROOK AT LARCHWOOD AVENUE, AT OAKHURST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 14	<.004	<.035	<.027	<.050	.029	<.006	<.007	<.022	.02	<.011	.025	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л С						

MAY 14... <.009

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)
		(31615)	(31633)	(31649)			(31615)	(31633)	(31649)
JUL					AUG				
10	1000	300	<100	1400	07	1010	500	100	180
17	0925	60	100	260					
24	1016	>16000	<100	38100					
31	1011	300	600	610					

Remark codes used in this report: < -- Less than > -- Greater than

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. -- Water year 2001 to August 2002.

- REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- 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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 06 MAY 23	1000 1000 0900	1.9 2.7 3.1	4.3 4.4 5.2	.083 .101 .115	.065 .083 .087	770 768 767	76 90 89	9.0 12.5 9.8	6.7 6.8 6.6	193 278 183	10.0 2.0 17.0	8.5 2.0 11.5	42 44 37
AUG 27	0945	1.5	6.9	.151	.111	762	52	4.8	6.7	188	25.0	19.5	39

					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													
08	11.9	2.90	3.25	14.8	16	28.4	.1	10.5	22.4	114	104	.060	.17
FEB													
06	12.7	2.94	2.91	28.1	12	50.6	E.1	9.5	30.2	152	145	.160	.31
MAY													
23	10.7	2.55	2.72	15.5	11	26.7	E.1	8.3	24.6	107	99	.140	.42
AUG													
27	10.9	2.77	3.72	14.3	13	22.6	.1	9.0	20.9	94	95	1.80	2.1

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 08	.060	E.03	<.003		.06	E.003		.035	.9	<.1	2.5	.9	2.1
FEB 06 May	.140	.18	.004	.49	<.02	E.002	<.020	.011	.5	<.1	1.8	.5	E1.8
23 AUG	.150	.16	.003	.58	<.02	<.004	<.020	.023	.5	<.1	3.7	.5	<1.0
27	1.80	.06	.020	2.2	.16	.012	<.020	.072	1.3	<.1	4.9	1.3	2.2

Remark codes used in this report:

SHARK RIVER BASIN

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				Dž	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)					
					7)8		30	3					
				FEE	3)6		20	6					
				2	23	1.20	20	8					
				2	27	5.00	40	8					
DATE	TIME	SAME TYP	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. (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 27	0900	FIELD BL	LANK										
27 27	0945 0945	ENVIRONN BED MATE	IENTAL ERIAL		6.10	50	2200	1.2	<.2	<2 	34.1	E.05 	39
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													
27 27	.04	<.8	<.2 	1.4	2310	<.08 	<1	77.2	<.01 	<.01	<.06 	2	E.3
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 27		1											
27	<.05		13						2000				
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)	.410 BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)
AUG													
27 27													
27	<1	<3.1	E1	<50	<50	<50	E3	E11	E10	E9	E15	E11	E1

SHARK RIVER BASIN

01407760 JUMPING BROOK NEAR NEPTUNE CITY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
27													
27													
27	E10	E7	E7	E18	E13	<50	<50	<50	<50	E4	<50	<50	<5
				PHENAN		PHENAN-	PYRENE,		BED	BED			
			P-	THRENE	PHENAN	THRI-	1-		MAT.	MAT.			
			CRESOL	1METHYL	THRENE	DINE	METHYL,	PYRENE,	FALL	SIEVE			
			SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	SED, BM	DIAM.	DIAM.			
			WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	% FINER	% FINER			
	DA	TE	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	DW, REC	THAN	THAN			
			(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	.004 MM	.062 MM			
			(49451)	(49410)	(49409)	(49393)	(49388)	(49387)	(80157)	(80164)			

AUG								
27								
27								
27	<50	E9	E9	<50	E7	E16	1	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)
JUL					AUG				
10	0946	2400	<100	2050	07	0940	300	<100	200
17	0855	700	500	110					
24	0946	500	700	710					
31	0946	170	200	230					

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ

LOCATION.--Lat 40°08'36", long 74°03'14", Monmouth 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. -- Water year 2001 to August 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
27	0900	1.0	.089	.069	767	81	9.2	6.4	159	12.1	10.0	34	7.57
06	0900	1.5	.069	.055	770	90	12.1	6.4	170	-2.5	3.5	34	7.72
MAY													
28	0830	1.8	.079	.062	767	104	10.7	6.8	151	17.5	14.5	33	7.39
AUG 13	0900	2.5	.080	.064	767	75	6.9	6.4	146	29.0	20.0	31	6.99
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)
NOV													
27 FEB	3.58	2.66	12.1	14	21.8	<.1	7.7	16.1	94	85	.060	.21	.070
06 MAY	3.64	2.43	14.2	11	24.5	<.1	7.2	16.9	92	90	.060	.20	.070
28 AUG	3.49	2.31	12.0	12	21.9	<.1	6.8	15.7	85		.100	.11	.110
13	3.27	2.41	12.1	12	19.7	<.1	8.4	15.3	90	80	.070	.19	.090
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
27	1.12	<.003	1.3	.02	.005		.012	.3	<.1	2.6	.3	3.8	
FEB 06	1.55	.007	1.8	<.02	.004	<.020	.011	.2	<.1	1.7	.2	E1.5	
MAY	1.00	••••	1.0				•••=	•-	~•±	±•,	•=		
28		<.007		.08	.008	<.020	.024	1.1	<.1	2.2	1.1	<1.0	4.00
13	1.02	<.003	1.2	.05	.005	.037	.024	.4	<.1	2.2	.4	E1.1	.500

Remark codes used in this report:

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 27 FEB 06 MAY 28 AUG 13	20 20 20 20	<1 3 5 5

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-	ат.рна	ATRA-	FLUR-	BARYL	CHLOR-	CYANA-	DCPA WATER	ATRA-	DT-	EPTC WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L) (49260)	(UG/L) (46342)	(0G/L) (34253)	(0G/L) (39632)	(0G/L) (82673)	(0G/L) (82680)	(UG/L) (38933)	(0G/L) (04041)	(0G/L) (82682)	(0G/L) (04040)	(0G/L) (39572)	(UG/L) (82668)
		,	,										
MAY	0000				1.68		- 016				- 005		
28	0830	<.006	<.004	<.005	.167	<.010	E.016	<.005	<.018	<.003	E.025	E.005	<.002
		LIN-		METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-
		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL	SI-	THIURON	BACIL
		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD
	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	diss,	0.7 U	diss,	0.7 U	0.7 U
DATE	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, 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)
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
MAY													
28	<.004	<.035	<.027	<.050	.079	<.006	<.007	<.022	.02	<.011	.008	<.02	<.034
						דסייי							



MAY

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 surface-water samples are listed in the following table.

								BENZENE	BENZENE	BENZENE			
		1,1,1-		1,1-DI-			TRANS-	1,3-DI-	1,4-DI-	O-DI-			CARBON
		TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
		CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
		ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
DATE	TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
		(UG/L)											
		(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
FEB													
06	0900	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

WRECK POND BROOK BASIN

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 UNFLIRD 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 UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.3
	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 0	6	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2		

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	1035	800	100	2220	07	1045	300	<100	330
17	1000	110	<100	310					
24	1100	5000	700	1500					
31	1047	300	600	610					

Remark codes used in this report: < -- Less than

01408000 MANASOUAN RIVER AT SOUANKUM, NJ

LOCATION.--Lat 40°09'41", Long 74°09'18", 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.

REMARKS .-- For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 11 FEB	0930	23	6.0	.045	.035	771	88	10.5	7.5	229	9.0	8.0	76
21	1000	24	10	.029	.022	757	91	10.5	7.4	258	13.0	9.0	86
JUN 20	0900	37	22	.085	.063	775	87	8.7	7.3	221	24.0	16.0	69
07	0900	14	11	.050	.038	763	89	8.4	7.7	253	27.0	18.0	92

					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)
DEC													
11	25.8	2.72	2.81	8.10	42	19.6	.1	12.7	31.2	138	129	<.030	.14
FEB	2010			0.120		2010	•-						
21	29.5	3.10	2.81	10.7	41	24.5	.2	14.8	39.5	158	151	.040	.10
JUN													
20	22.7	3.00	3.24	11.1	26	25.3	.1	15.1	30.8	150		.060	.33
AUG													
07	32.1	2.88	3.28	9.00	53	19.7	.2	14.9	31.8	178	147	<.030	.13

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 11 FEB 21 JUN 20	<.030 .040 .040	.21 .23 	<.003 <.003 .010	.35 .33 	.03 .03 .07	.004 <.004 .005	 <.020 <.020	.030 .029 .096	.3 .2 .9	<.1 <.1 <.1	1.9 1.2 2.7	.3 .2 .9	E1.1 <1.0 <1.0
07	<.030	.23	<.003	.36	.17	.012	.026	.041	.7	<.1	1.9	.7	E1.2

Remark codes used in this report:

MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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)					
				DEC 1	: .1		20	3					
				FEE 2	8 21		20	4					
				NUL	T	1 00	20	10					
				AUG	; ;	1.00	30	10					
				C	7	1.50	30	1					
DATE	TIME	SAMF TYF	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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	0020		22110										
07 07	0830 0900	ENVIRONM	ANK. IENTAL		7.10					<2	32.7	E.03	26
07	1000	BED MATE	RIAL		7.10	90	50000	2.1	<.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													
07 07		<.8	<.2	1.0	1250	<.08	<1	47.5	<.01	<.01	<.06	4	 E.3
07													
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													
07 07	<.05	<1	10										
07				<1	.346	29	1.4	<2	47000	6.8	66	<.01	4.0
DATE	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	BENZ(A) ANTHRA- CENE SED, BM WS,<2MM DW. REC	BENZO (A) PYRENE SED, BM WS,<2MM DW. REC	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW. REC	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC
	(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)	(UG/KG) (49436)	(UG/KG) (49389)	(UG/KG) (49458)	(UG/KG) (49408)

AUG 07... 07... 07...

Remark codes used in this report: < -- Less than E -- Estimated value

---<1

___ 120

___ <50

-----<50

___ <50

___ <50

___ <50

___ E9

___ <50

___ E6

___ ___ E10

___ E6

___ <50

MANASQUAN RIVER BASIN

01408000 MANASQUAN RIVER AT SQUANKUM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
07													
07													
07	E3	<50	E16	E10	E15	<50	<50	<50	<50	<50	<50	<50	<5
	DA	те	P- CRESOL SED, BM WS,<2MM DW, REC	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC	PHENAN THRENE SED, BM WS,<2MM DW, REC	PHENAN- THRI- DINE SED, BM WS,<2MM DW, REC	PYRENE, 1- METHYL, SED, BM WS,<2MM DW, REC	PYRENE, SED, BM WS,<2MM DW, REC	BED MAT. FALL DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN			
			(UG/KG) (49451)	(UG/KG) (49410)	(UG/KG) (49409)	(UG/KG) (49393)	(UG/KG) (49388)	(UG/KG) (49387)	.004 MM (80157)	.062 MM (80164)			

AUG 07... 07... 07... ___ <50 ___ E4 -- ---- --.2 .5 -----------E11 <50 <50 <50

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	0935	3000	<100	1700	07	0923	40	<100	250
17	0950	300	500	210					
24	0930	2400	600	520					
31	0930	1300	900	400					

Remark codes used in this report:

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

LOCATION.--Lat 40°12'45", long 74°10'07", Monmouth County, Hydrologic Unit 02040301, at bridge on Cranberry Bog Road, 0.6 mi upstream from Branch Mingamahone Brook, and 1.7 mi west of Earle.

DRAINAGE AREA.--3.32 mi².

PERIOD OF RECORD.--Water years 1971-74, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

		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	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													
19	1000	1.3	35	.155	.150	767	76	9.1	7.0	155	14.0	8.0	68
FEB													
05	1210	2.2	7.3	.063	.057	764	87	11.8	6.4	151	.5	3.0	43
MAY													
09	1150	4.2	63	.151	.128	764	80	8.5	6.2	129	14.0	12.5	35
AUG													
13	0850	.79	25	.077	.067	748	84	7.9		204	30.0	17.5	81

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	24 4	1 72	2 1 2	5 62	27	12 0	1	20 8	21 2	102	110	050	F 05
FEB	24.4	1.72	2.12	5.02	57	12.0	•1	20.0	21.2	102	110	.050	E.05
05 MAY	14.2	1.84	1.78	6.16	19	11.5	<.1	16.9	22.2	106	86	<.030	E.08
09 AUG	11.4	1.57	1.95	6.07	16	11.1	E.1	15.1	19.9	90	77	<.030	.11
13	29.5	1.64	2.34	4.30	54	10.4	.1	26.1	23.3	149	130	.050	E.07

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 19 FEB 05 MAY	.040 <.030	<.04 E.03	<.003 .008		.06	E.002		.197	1.1 .9	<.1 <.1	1.9 1.5	1.1 .9	<1.0 E1.4
09 AUG 13	.030 <.030	.06 E.02	<.003 <.003	.17	.17 <.02	E.002 .004	<.020 <.020	.109 .040	4.2 .4	<.1 <.1	2.4 1.4	4.1 .4	<1.0 <1.0

Remark codes used in this report:

MANASQUAN RIVER BASIN

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 19		20	40
05		20	13
09	2.10	20	30
13	.100	20	6

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	0918	500	<100	350	07	0820	1300	100	230
17	1030	340	200	120					
24	0924	130	<100	450					
31	0926	800	500	940					

Remark codes used in this report: < -- Less than

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

		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	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													
19	1250	8.7	4.3	.094	.077	767	97	11.6	7.2	140	19.0	8.0	36
FEB													
12	1050	20	10	.126	.098	760	95	12.7	6.7	165	8.0	3.0	32
JUN													
03	0920	10	6.1	.304	.238	762	81	7.7	6.9	134	23.0	17.5	29
AUG													
14	0920	3.4	5.5	.168	.134	765	67	5.8	6.5	170		22.5	37

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)	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													
19	11.0	2.12	2.57	11.2	22	22.3	.1	8.8	13.9	90	87	.030	.11
FEB													
12	9.92	1.83	2.02	14.9	13	27.0	E.1	9.3	18.4	102	93	.030	.22
JUN													
03	9.03	1.67	2.36	10.1	16	18.0	E.1	8.1	12.4	91	73	.050	.35
AUG													
14	11.4	2.15	2.81	12.6	26	22.4	E.1	7.4	11.4	93	87	<.030	.21

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 19	.040	.48	<.003	.59	.06	.005		.026	.4	<.1	2.2	.4	<1.0
FEB 12	.040	.41	.006	.63	.06	.010	<.020	.041	1.2	<.1	3.3	1.2	2.1
03 AUG	.070	.41	.008	.76	.06	.019	<.020	.064	.9	<.1	5.9	.9	<1.0
14	.040	.36	<.003	.57	.09	<.05	<.020	E.05	.7	<.1	3.6	.7	<1.0

Remark codes used in this report:

METEDECONK RIVER BASIN

01408100 NORTH BRANCH METEDECONK RIVER AT LAKEWOOD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 19 FEB 12 JUN 03 AUG 14	 2.30	20 20 20 20	6 8 3 7

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 14	0920	м	54.7	<.06	27	E.03	<.8	.7	1300	<1	46.4	E.01	<1
				DAT	Е	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 14... <.4 <.05 6

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	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)
0805 0800	16000 1100	2100 500	220 140	MAY 15 23	0815 0930	1300 220	600 <100	850 80
	TIME 0805 0800	COLI- FORM, EC TIME BROTH (MPN) (31615) 0805 16000 0800 1100	COLI- FORM, E COLI, FECAL, MTEC MF EC WATER TIME BROTH (COL/ (MPN) 100 ML) (31615) (31633) 0805 16000 2100 0800 1100 500	COLI- ENTERO- FORM, E COLI, FOCAL, MTEC MF ME MF, EC WATER TIME BROTH (COL/ (MPN) 100 ML) 100 ML) (31615) (31633) (31649) 0805 16000 2100 220 0800 1100 500 140	COLI- ENTERO- 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) MAY 0805 16000 2100 220 15 0800 1100 500 140 23 30	COLI- ENTERO- FORM, E COLI, COCCI, FBCAL, MTEC MF ME MF, EC WAITER WAITER TIME BROTH (COL/ (COL/ DATE TIME (MPN) 100 ML) 100 ML) (31615) (31633) (31649) MAY 0805 16000 2100 220 15 0815 0800 1100 500 140 23 0930 30	COLI- ENTERO- COLI- FORM, E COLI, COCCI, FORM, FECAL, MTEC MF ME MF, EC EC WATER EC TIME BROTH (COL/ (COL/ DATE TIME BROTH (MPN) 100 ML) 100 ML) (MPN) (31615) (31649) 0805 16000 2100 220 15 0815 1300 0800 1100 500 140 23 0930 220	COLI- ENTERO- COLI- FORM, E COLI, COCCI, FORM, E COLI, FORM, E COLI, FORM, E COLI, FORM, E COLI, MTEC MF FECAL, MTEC MF EC WATER EC WATER TIME BROTH (COL/ (COL/ COL/ DATE EC WATER IMPN 100 ML) 100 ML) (MPN) 100 ML) (31615) (31633) (31649) (MAY 0805 16000 2100 220 15 0815 1300 600 0800 1100 500 140 23 0930 500 200

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	0900	2.2	.189	.149	767	84	9.4	6.3	110	13.0	10.5	19	5.17
14	0800	3.7	.173	.135	774	90	12.7	5.8	110	-1.5	2.0	17	4.50
MAY													
07	0900	4.2	.362	.283	762	89	9.0	5.9	93	16.0	15.0	15	3.89
22	0800	2.9	.157	.126	765	80	7.6	6.3	101	25.0	18.0	18	4.71
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)
NOV													
28	1.55	1.83	9.65	7	18.1	E.1	7.5	9.8	72	59	<.030	.19	<.030
FEB	1 50	1 / 9	9 67	5	17 3	<i>~</i> 1	6 9	11 2	69	59	< 030	17	< 030
MAY	1.50	1.10	9.07	5	1/.5	<.I	0.0	11.2	00	50	<.030	•17	<.030
07	1.28	1.48	8.99	4	15.9	<.1	4.9	8.8	55	49	<.030	.37	<.030
AUG 22	1.54	2.11	8.86	8	14.5	E.1	6.0	8.7	55	54	<.030	.14	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
28 FEB	.29	<.003	.48	.54	.010		.024	3.8	<.1	4.8	3.8	<1.2	
14	.64	<.003	.81	.07	.010	<.020	.027	1.5	<.1	4.2	1.4	<1.0	
07	.31	<.003	.68	.08	.012	<.020	.035	1.2	<.1	7.5	1.2	E1.9	3.00
22	.55	<.003	.70	.05	.013	.032	.033	.5	<.1	3.3	.5	E1.5	1.40

Remark codes used in this report:

< -- Less than E -- Estimated value

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TOMS RIVER BASIN

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 28 FEB 14 MAY 07 AUG 22	20 E10 E10	1 7 10
22	E9	<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 UNFLIRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD 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	0800	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 14	<.1 DA	<.2 NTE	<.1 METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	<.1 META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	<.1 O- XYLENE WHOLE TOTAL (UG/L) (77135)	<.2 STYRENE TOTAL (UG/L) (77128)	<.2 TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	<.2 TOLUENE TOTAL (UG/L) (34010)	<.1 TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	<.2 TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	<.1 VINYL CHLO- RIDE TOTAL (UG/L) (39175)	<.1	E.1
	FEE 1	3 .4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 07	0900	<.006	<.004	<.005	.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

TOMS RIVER BASIN

01408300 TOMS RIVER AT WHITESVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
07	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
DATE						TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л r c C						

MAY 07... <.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					MAY				
01	0825	220	100	160	15	0830	140	200	180
08	0820	20	<100	90	23	0948	<20	<100	10
					30	0958	130	<100	70

01408500 TOMS RIVER NEAR TOMS RIVER, NJ

LOCATION.--Lat 39°59'11", long 74°13'25", Ocean County, Hydrologic Unit 02040301, at bridge on County 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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 06	0800	89	2.8	.133	.107	765	87	9.8	6.3	109	14.0	10.5	15
FEB													
27	0800	92	3.4	.103	.079	755	90	10.3	5.8	107	3.5	9.0	15
JUN													
05	0800	95	3.7	.357	.282	763	83	7.7	5.9	88	20.0	19.0	13
AUG													
27	1100	58	2.7	.180	.144	764	86	7.8	6.4	123	25.5	20.5	18

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													
06 FEB	3.34	1.66	1.68	11.0	6	15.3	E.1	6.0	11.0	64	58	.210	.37
27	3.24	1.60	1.54	10.7	5	14.2	<.1	4.7	12.1	64	55	.228	.41
05	2.97	1.42	1.68	10.4	4	14.2	<.1	4.1	9.5	69		.200	.78
AUG	4 01	1 00	0 10	12.4	-	16.6	. 1	4 2	10 5	71	C A	070	26
27	4.01	1.00	2.12	13.4	/	10.0	<.1	4.3	12.5	/1	64	.070	.20
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC													
06 FEB	.210	1.03	.004	1.4	.04	.007		.020	.8	<.1	2.7	.8	ET.2
27	.220	.82	.004	1.2	.05	.004	<.020	.017	.8	<.1	2.9	.8	<1.0

<.020

<.020

.029

.026

1.4

.7

<.1

<.1

6.5

3.7

1.4

.7

--

<1.0

.050 Remark codes used in this report:

.240

--

1.19

.008

.010

--

1.5

.14

.09

.012

.008

< -- Less than E -- Estimated value

JUN 05...

AUG

27...

TOMS RIVER BASIN

01408500 TOMS RIVER NEAR TOMS RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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)					
				DEC	: 16		10	5					
				FEE 2	3 27		20	3					
				AUL O	r 15	2.10	20	10					
				AUG	+ 	2.60	20						
DATE	TIME	SAMF TYF	PLE PE	-	PH SED BED MAT (STD UNITS)	NITRO- GEN,NH4 + ORG. TOT 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)
					(70310)	(00626)	(00668)	(00693)	(00686)	(01002)	(01007)	(01012)	(01022)
AUG 27 27	1100 1100	ENVIRONM BED MATE	IENTAL ERIAL		 5.20	90	 670	2.4	 <.2	<2 	30.3	E.04 	22
DATE	CADMIUM WATER UNFLIRD 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 27 27	.04	<.8 	E.5 	800	<1 	25.6	E.01 	<1 	E.3	<.05 	4	 <1	 .019
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													
27 27	 <.4	.059	<2	 1400	8.2	 1.4	.01	.178	 <1	 3.6	 м	 <50	 E4
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 27 27	 E4	 E7	 E18	 E29	 E19	 E26	 E24	 E6	 E22	 E25	 <50	 120	 E21
DATE	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 IMETHYL 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													
27	<50	<50	 E10	 E4	=- E9	<50	 E12	<5	<50	== E16	== E50	<50	 E11

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

TOMS RIVER BASIN

01408500 TOMS RIVER NEAR TOMS RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
27			
27	80	1	1

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	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				
0850	20	100	130	05	1037	40	<100	<10
0845	20	<100	50					
0905	110	<100	220					
1015	<20	<100	30					
1029	20	200	680					
	TIME 0850 0845 0905 1015 1029	COLI- FORM, FECAL, EC TIME BROTH (MPN) (31615) 0850 20 0845 20 0905 110 1015 <20 1029 20	COLI- FORM, E COLI, FECAL, MTEC MF EC WATER TIME BROTH (COL/ (MPN) 100 ML) (31615) (31633) 0850 20 100 0845 20 <100 0905 110 <100 1015 <20 <100 1029 20 200	COLI- ENTERO- FORM, E COLI, COCCI, FECAL, MTEC MF ME MF, EC WATER WATER TIME BROTH (COL/ (COL/ (MPN) 100 ML) 100 ML) (31615) 0850 20 100 130 0845 20 <100	$\begin{array}{cccc} {\rm COLI-} & {\rm ENTERO-} \\ {\rm FORM,} & {\rm E} & {\rm COLI,} & {\rm COCCI,} \\ {\rm FDRM,} & {\rm MEC} & {\rm MF} & {\rm ME} & {\rm MF,} \\ {\rm EC} & {\rm WATER} & {\rm WATER} \\ {\rm TIME} & {\rm BROTH} & ({\rm COL}/ & ({\rm COL}/ & {\rm DATE} \\ ({\rm MPN}) & 100 & {\rm ML}) & 100 & {\rm ML}) \\ ({\rm 31615}) & ({\rm 31633}) & ({\rm 31649}) \\ \end{array} \\ \\ \hline & & & & \\ {\rm DVN} \\ 0850 & 20 & 100 & 130 & 05 \\ 0845 & 20 & <100 & 50 \\ 0905 & 110 & <100 & 220 \\ 1015 & <20 & <100 & 30 \\ 1029 & 20 & 200 & 680 \\ \end{array}$	COLI- ENTERO- FORM, E COLI, COCCI, FECAL, MTEC MF ME MF, EC COLI, COCCI, FECAL, MTEC MF ME MF, EC TIME BROTH (COL/ (COL/ DATE TIME (MPN) 100 ML) 100 ML) (31615) (31633) (31649) DATE TIME JUN (MPN) 100 ML) 100 ML) (31615) (31633) (31649) JUN 0850 20 100 130 0845 20 <100 50 0905 110 <100 220 1015 <20 <100 30 1029 20 200 680	COLI- ENTERO- COLI- FORM, E COLI, COCCI, FORM, FECAL, MTEC MF ME MF, FECAL, FORM, FECAL, FORM,	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Remark codes used in this report: < -- Less than

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, and 69 mi southeast of Whiting.

DRAINAGE AREA.--0.25 mi².

PERIOD OF RECORD. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 FEB	1000	.4	.120	.096	770	22	2.7	4.0	36	5.5	7.0	2	.22
05 MAY	1000	.3	.230	.173	768	57	7.4	3.6	59	3.5	5.0	4	.48
07	0900	.4	.879	.676	760	39	4.1	3.4	84	17.5	13.0	2	.28
08	0900	.5	.264	.213	762	15	1.5	3.8	31	19.0	16.0	1	.11
	MAGNE- SIUM.	POTAS- SIUM.	SODIUM.	CHLO- RIDE	FLUO- RIDE	SILICA, DIS-	SULFATE	SOLIDS, RESIDUE AT 180	NITRO- GEN, AMMONIA	NITRO- GEN,AM- MONIA +	NITRO- GEN.	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE

	SIUM,	SIUM,	SODIUM,	RIDE,	RIDE,	DIS-	SULFATE	AT 180	AMMONIA	MONIA +	GEN,	NO2+NO3	NITRITE
	DIS-	DIS-	DIS-	DIS-	DIS-	SOLVED	DIS-	DEG. C	DIS-	ORGANIC	AMMONIA	DIS-	DIS-
	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL	SOLVED	SOLVED
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	SOLVED	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L
	AS MG)	AS K)	AS NA)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	AS N)				
	(00925)	(00935)	(00930)	(00940)	(00950)	(00955)	(00945)	(70300)	(00608)	(00623)	(00610)	(00631)	(00613)
NOV													
14	.273	.11	2.85	4.76	<.1	5.7	3.4	16	<.030	E.07	.060	<.04	<.003
FEB													
05	.652	.21	4.42	6.83	<.1	5.5	9.7	32	<.030	.13	<.030	<.04	<.002
MAY													
07	.397	E.07	4.64	7.06	<.1	3.8	5.6	54	<.030	.34	<.030	<.04	<.003
AUG													
08	.212	.18	2.80	5.12	<.1	6.0	2.6	24	<.030	.11	<.030	<.04	<.003

DATE	NITRO- GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	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 14 FEB	.03	<.004		E.002	.2	<.1	2.7	.2	<1.0		E7	6
05	.04	<.004	<.020	E.003	.4		6.1		<1.0		E8	2
MAY 07 AUG	<.02	<.004	<.020	<.004	.4	<.1	18.8	.4	E1.2	.400	E10	1
08	.17	E.003	<.020	.005	1.5	<.1	5.7	1.5	<1.0	.200	<10	<1

								BENZENE	BENZENE	BENZENE			
		1,1,1-		1,1-DI-			TRANS-	1,3-DI-	1,4-DI-	O-DI-			CARBON
		TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
		CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
		ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
DATE	TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
		(UG/L)											
		(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
FEB													
05	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

Remark codes used in this report: < -- Less than

E -- Estimated value

TOMS RIVER BASIN

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 05	<.1	<.2	.2	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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)		
	FEB 0	5	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
07	0900	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002
		LIN-		METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-
		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL	SI-	THIURON	BACIL
		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD
	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U	DISS,	0.7 U	0.7 U
DATE	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC
	(UG/L)												
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
MAY													
07													

	TRI-
	FLUR-
	ALIN
	WAT FLT
	0.7 U
DATE	GF, REC
	(UG/L)
	(82661)
MAY	
07	<.009

Remark codes used in this report: < -- Less than

TOMS RIVER BASIN

01408702 JAKES BRANCH AT DOVER ROAD, NEAR DOUBLE TROUBLE, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	COLI- FORM, FECAL, EC BROTH	E COLI, MTEC MF WATER (COL/	ENTERO- COCCI, ME MF, WATER (COL/	DATE	TIME	COLI- FORM, FECAL, EC BROTH	E COLI, MTEC MF WATER (COL/	ENTERO- COCCI, ME MF, WATER (COL/
		(MPN) (31615)	100 ML) (31633)	100 ML) (31649)			(MPN) (31615)	100 ML) (31633)	100 ML) (31649)
MAY					MAY				
01	0945	<20	<100	<10	15	1010	<20	<100	<10
08	0945	<20	<100	<10	23	1050	<20	<100	<10
					30	1100	<20	<100	<10

Remark codes used in this report: < -- Less than

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION. -- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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													
28	1130	22	.7	.054	.042	761	100	10.6	5.5	24	17.5	12.5	3
FEB													
07	1020	18	.7	.064	.050	758	99	13.3	5.5	25	4.0	3.0	3
JUN													
12	1150	28	2.8	.358	.281	755	101	8.3	4.5	30	33.0	24.5	4
AUG													
08	1050	16	.7	.096	.077	765	96	8.2	5.2	23	31.0	23.5	3

					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													
28	.61	.396	E.45	2.09	2	3.97	<.1	5.2	2.3	24		<.030	<.10
FEB													
07	.63	.446	.34	2.29	2	4.10	<.1	5.0	2.6	20	17	<.030	E.10
JUN													
12	.75	.517	.31	2.33	1	3.86	<.1	4.0	4.0	32	17	<.030	.17
AUG													
08	.59	.395	.35	2.33	2	3.77	<.1	4.9	2.0	22	15	<.030	.10
		NITRO-	NITRO-	NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-
	NITRO-	GEN,	GEN,	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A
	GEN,	NO2+NO3	NITRITE	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-
	AMMONIA	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC
	TOTAL	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	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)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)
	(00610)	(00631)	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)
NOV													
28	<.030	<.04	<.003	<.02	<.004		<.004	.3	<.1	1.6	.3	E1.8	
FEB													
07	.030	<.04	<.002	<.02	E.002	<.020	<.004	.4	<.1	1.7	.4	E1.4	
JUN													
12	<.030	<.04	<.003	.03	E.003	<.020	.007	.3	<.1	8.1	.2	E1.4	1.30

.006

.5

<.1

3.0

.5

<1.0

1.00

E.003 <.020

Remark codes used in this report:

.030 <.04

<.003

.03

AUG

08...

CEDAR CREEK RIVER BASIN

01408830 CEDAR CREEK AT CEDAR CREST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 28 FEB 07 JUN 12 AUG 08	E7 E7 10 <10	2 2 15 1

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML) (31640)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)
MAY 01 08	0930 0915	<20 <20	<100 <100	30 <10	MAY 15 23	0930 1125 1124	<20 <20 <20	100 <100	10 <10 10

Remark codes used in this report: < -- Less than

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

		DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH WATER	SDE-			HAPD-
		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	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)
DEC													
17	1000	14	2.1	.173	.137	764	100	12.0	5.2	32	8.0	7.5	6
FEB													
20	1000	11	1.2	.087	.066	762	104	13.0	4.7	48	14.5	6.0	7
JUN													
19	1050	24	3.1	.411	.322	770	87	7.8	4.7	38	23.0	21.0	5
AUG													
19	1200	8.6	4.1	.220	.172	760	75	6.0	5.0	30	32.5	26.5	5

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)
DEC	1.29	631	.71	2.65	د1	4.23	c.1	4.5	5.5	18		< 030	10
FEB	1.25		•/-	2.05	~	1125	~		5.5	10			• = •
20 JUN	1.52	.795	.81	3.59		5.83	<.1	4.7	8.9	30		<.030	E.10
19 AUG	1.08	.553	.52	2.80	1	4.66	<.1	4.0	5.3	27	20	<.030	.23
19	1.07	.578	.48	2.31	2	3.75	<.1	2.9	4.2	16	16	<.030	.15

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC	< 030	0.0	~ 003	20	0.0	- 001		008	1.0	- 1	2 0	1.0	-1 0
FEB	<.030	.09	<.003	.20	.09	<.004		.008	1.0	<.1	3.0	1.0	<1.0
20 ллл	<.030	.08	<.003		.03	<.004	<.020	E.003	.6	<.1	2.6	.5	2.4
19 AUG	<.030	.08	<.003	.31	.12	E.003	<.020	.014	1.5	<.1	7.1	1.5	<1.0
19	<.030	<.04	<.003		.22	E.002	.027	.015	3.2	<.1	4.4	3.2	<1.0

Remark codes used in this report:

MULLICA RIVER BASIN

01409387 MULLICA RIVER AT OUTLET OF ATSION LAKE, AT ATSION, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 17 FEB 20 JUN 19 AUG 19	 10.8 6.70	E10 10 E10 E8	3 4 9 8

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 01 08	1000 0925	500 20	200 <100	1400 <10	JUL 15 22 29	1135 1015 1050	<20 20 80	<100 <100 <100	<10 10 20

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, 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1100	3.7	.286	.232	768	78	8.5	6.3	56	18.0	12.0	8	1.53
20	1100	2.2	.209	.172	765	82	10.1	6.3	55	14.5	6.5	7	1.51
21	1130	3.4	.386	.299	770	76	8.3	5.1	54	16.0	12.0	9	1.86
SEP 12	1000	3.6	.173	.140	762	82	7.8		52	22.0	17.5	9	1.93
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)
NOV 28 FEB	.969	1.16	4.38	3	8.31	<.1	4.7	4.8	44	28	<.030	.24	<.030
20 MAY	.888	.83	4.11	1	7.15	<.1	4.7	6.8	34	27	<.030	.13	<.030
21 SEP	1.10	.72	4.44	1	6.86	E.1	3.6	8.4	48	28	<.030	.26	<.030
12	1.04	.59	3.45	1	5.41	<.1	4.5	8.5	49	26	<.030	.17	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
28 FEB	.10	<.003	.34	.09	E.002		.007	1.7	<.1	4.0	1.7	E1.1	
20 MAY	.12	.003	.24	<.02	<.004	<.020	E.004	.6	<.1	2.7	.6	E1.3	
21 SEP	E.02	<.003		.09	E.002	<.020	.013	1.6	<.1	8.2	1.6	E1.7	1.20
12	<.04	<.003		.12	E.003	<.020	E.003	1.5	<.1	3.1	1.5	E1.8	1.20

Remark codes used in this report:

MULLICA RIVER BASIN

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 28 FEB	10	5
20 May	E7	15
21 SEP	E10	8
12	10	11

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB	1100	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 20	<.1 DA	<.2 ATE	<.1 METHYL ENE CHLO- RIDE TOTAL (UG/L)	<.1 META/ PARA- XYLENE WATER UNFLTRD REC (UG/L)	<.1 O- XYLENE WATER WHOLE TOTAL (UG/L)	<.2 STYRENE TOTAL (UG/L)	<.2 TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	<.2 TOLUENE TOTAL (UG/L)	<.1 TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	<.2 TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	<.1 VINYL CHLO- RIDE TOTAL (UG/L)	<.1	<.2
	FEE 2	3 20	(34423)	(85795) < . 2	(77135) < . 1	(77128)	(34475) < . 1	(34010) <.1	(39180) < . 1	(34488)	(39175) < . 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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 21	1130	<.006	<.004	<.005	.008	<.010	<.041	<.005	<.018	<.003	E.003	<.005	<.002

MULLICA RIVER BASIN

0140940050 MULLICA RIVER AT CONSTABLE BRIDGE, NEAR BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
21	<.004	<.035	<.027	<.050	E.010	<.006	.036	<.022	<.01	<.011	.008	<.02	E.037
					DATE	TRI- FLUR- ALIN WAT FL GF, RE (UG/L) (82661	т С)						
				M	AY 21	<.009							
Remark code	es used in s than	this repo	rt:										

E -- Estimated value

0140940950 BLUE ANCHOR BROOK AT ELM, NJ

LOCATION.--Lat 39°41'17", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	IIIDD
CHARGE, BID- ABSORB- ABSORB- METRIC DIS- WATER SPE	- HARD-
INST. ITY ANCE ANCE PRES- SOLVED WHOLE CIF	IC 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- DUC	T- ATURE ATURE (MG/L
DATE TIME PER UNFLTRD (UNITS OF SATUR- SOLVED ARD ANC	E 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) (000	95) (00020) (00010) (00900)
DEC	
03 1130 .80 1.1 .150 .122 768 81 9.0 6.7 8	1 14.0 11.0 14
FEB	
13 1120 .59 2.1 .114 .090 762 93 11.9 6.2 11	5 9.0 5.0 14
NUL	
03 1140 .75 2.4 .253 .201 761 87 7.2 6.3 7	7 24.5 25.0 13
AUG	
19 1000 .31 2.5 .330 .265 759 54 4.3 6.5 9	2 32.0 27.0 13

					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)
DEC													
03	2.98	1.59	1.93	7.21	8	11.0	E.1	.7	9.0	50	39	.080	.34
FEB													
13	3.21	1.56	1.74	15.4	8	25.9	<.1	.7	7.4	68	62	.070	.26
JUN													
03	2.68	1.53	1.07	7.93	11	12.5	<.1	1.3	4.2	48	38	.070	.45
AUG													
19	2.47	1.64	.94	9.54	12	14.0	E.1	1.6	3.4	42	41	.170	.66

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 03 FEB	.150	E.02	<.003		.08	.011		.022	.7	<.1	2.7	.7	<1.0
13 JUN	.080	.23	<.003	.49	.08	.010	<.020	.024	.8	<.1	2.2	.8	E1.7
03 AUG	.060	<.04	<.003		.12	.023	<.020	.046	1.3	<.1	4.6	1.3	E1.6
19	.180	<.04	<.003		.11	.024	.021	.043	.7	<.1	5.1	.7	E1.5

Remark codes used in this report:

< -- Less than E -- Estimated value

274
MULLICA RIVER BASIN

0140940950 BLUE ANCHOR BROOK AT ELM, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 03 FEB 13 JUN 03 AUG 19	 10.9 	20 20 20 20	6 6 7 4

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	1020	-20	-100	10	JUN	1120	20	-100	10
29	1030	<20	<100	10	12	1055	20	<100	10
JUN					19	1055	20	100	10
05	1135	20	<100	50	26	1110	<20	<100	10

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION .-- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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, New Jersey Department of Environmental Protection Watershed Management Area 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
10	1210	7.9	3.1	.163	.132	769	89	10.9	6.2	122	9.0	7.0	23
FEB													
07 JUN	1230	8.8	6.6	.077	.062	757	93	11.6	5.9	134	5.5	5.5	23
06	1210	9.4	34	.255	.202	759		6.5	6.3			21.0	27
AUG													
26	1250	5.3	5.4	.157	.125	763	89	7.9	6.0	149	31.5	21.0	20
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-

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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
10 FEB	5.22	2.30	4.20	10.8	9	16.7	E.1	7.6	14.1	78	72	<.030	.33
07 JUN	5.45	2.40	3.65	11.7	10	18.6	E.1	7.4	13.8	84	77	.030	.26
06 AUG	6.19	2.89	5.38	10.1	11	14.1	.1	6.1	18.7	101	76	.180	.60
26	4.70	2.10	4.70	15.4	17	20.4	.1	7.0	12.6	88	81	<.030	.28
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC													
10	.080	1.21	<.003	1.5	.07	.13		.19	.7	<.1	4.0	.7	E2.0

<1.0

E1.6

<1.0

FEB .004 07... <.030 1.84 2.1 .10 .06 .025 .23 1.1 <.1 2.4 1.1 JUN 06... 1.7 .180 1.22 .009 1.8 .16 .09 .074 .27 1.7 <.1 6.0 AUG 26... <.030 .93 .06 .13 .135 .4 4.5 .3 .65 .004 .17 <.1

Remark codes used in this report:

MULLICA RIVER BASIN

01409416 HAMMONTON CREEK AT WESCOATVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 10		40	3
FEB 07		40	2
JUN 06	4.00	50	9
AUG 26	10.2	60	5

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L	(UG/L
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
2110													
26	1250	3	27.6	E.04	63	.05	<.8	2.9	640	1	15.4	E.01	<1
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIOM,	RECOV-	RECOV-					
				53	m12	(UC/I	ERABLE	ERABLE					
				DA	16								
						AS SE) (01147)	AS AG)	A5 2N)					
						(01147)	(010//)	(01092)					
				AUG									
				2	6	<.4	.21	26					

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 .-- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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-	TEMPER-	HARD- NESS TOTAL	CALCIUM DIS-
DATE	TIME	WATER UNFLTRD (NTU) (61028)	WIR FLT (UNITS /CM) (50624)	WIR FLI (UNITS /CM) (61726)	(MM OF HG) (00025)	SATUR- ATION) (00301)	SOLVED (MG/L) (00300)	(STAND- ARD UNITS) (00400)	DUCT- ANCE (US/CM) (00095)	ATURE AIR (DEG C) (00020)	WATER (DEG C) (00010)	(MG/L AS CACO3) (00900)	SOLVED (MG/L AS CA) (00915)
NOV 15	1100	.9	.074	.061	766	72	8.9	4.8	22	20.5	6.5	2	.30
14 MAY	1045	.5	.042	.032	773	83	11.5	4.6	30	4.0	2.5	2	.40
14 SEP	1100	1.2	.214	.167	752	71	6.9	4.5	33	21.0	16.5	2	.33
10	1100	1.0	.134	.109	759	66	5.9	4.8	28	32.0	21.0	2	.41
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 UNFLIRD 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)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV 15 FEB	.248	.39	1.53	<1	2.80	<.1	6.0	2.7	<10	.040	<.10	.070	<.04
14 MAY	.331	.39	1.54	<1	3.00	<.1	5.6	5.7	20	<.030	E.06	<.030	E.02
14 SEP	.246	.22	1.58		2.31	<.1	3.7	6.3	21	<.030	.11	<.030	<.04
10	.351	.31	1.67	<1	3.14	<.1	4.4	5.0	15	<.030	.12	<.030	<.04
DATE	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)	ORTHO- PHOS- PHATE, 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)	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)
	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)	(00530)
NOV 15 FEB	<.003	.06	<.004		<.004	.3	<.1	1.5	.3	<1.0		E7	2
14	<.003	.03	<.004	<.020	E.003	.4	<.1	1.6	.4	E1.1		<13	7

SEP 10... <.003 <.004 <.020 E.003 <.02 .4 <.1 2.5 .4 <1.0 BENZENE BENZENE BENZENE TRANS- 1,3-DI- 1,4-DI-1,1,1-1,1-DI-O-DI-

.004

<.020

		TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
		CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
		ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
DATE	TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
		(UG/L)											
		(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
FEB													
14	1045	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

.8

<.1

4.8

.8

<1.0

.200

.500

E6

E10

9

6

CARBON

Remark codes used in this report:

<.003

.08

<.004

< -- Less than
E -- Estimated value</pre>

MAY 14...

MULLICA RIVER BASIN

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	DA	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)		
	FEB 1	4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, 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)
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
14	1100	<.006	<.004	<.005	.009	<.010	<.041	<.005	<.018	<.003	E.004	<.005	<.002
		LIN-		METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-
		LIN- URON		METHYL AZIN-		METRI-	NAPROP- AMIDE	PENDI- METH-	PRO-	PRO- PANIL	SI-	TEBU- THIURON	TER- BACIL
		LIN- URON WATER	MALA-	METHYL AZIN- PHOS	METO-	METRI- BUZIN	NAPROP- AMIDE WATER	PENDI- METH- ALIN	PRO- METON,	PRO- PANIL WATER	SI- MAZINE,	TEBU- THIURON WATER	TER- BACIL WATER
	LINDANE	LIN- URON WATER FLTRD	MALA- THION,	METHYL AZIN- PHOS WAT FLT	METO- LACHLOR	METRI- BUZIN SENCOR	NAPROP- AMIDE WATER FLTRD	PENDI- METH- ALIN WAT FLT	PRO- METON, WATER,	PRO- PANIL WATER FLTRD	SI- MAZINE, WATER,	TEBU- THIURON WATER FLTRD	TER- BACIL WATER FLTRD
	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	NAPROP- AMIDE WATER FLTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	PRO- METON, WATER, DISS,	PRO- PANIL WATER FLTRD 0.7 U	SI- MAZINE, WATER, DISS,	TEBU- THIURON WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U
DATE	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	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC	PRO- METON, WATER, DISS, REC	PRO- PANIL WATER FLTRD 0.7 U GF, REC	SI- MAZINE, WATER, DISS, REC	TEBU- THIURON WATER FLTRD 0.7 U GF, REC	TER- BACIL WATER FLTRD 0.7 U GF, REC
DATE	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)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L)	PRO- METON, WATER, DISS, REC (UG/L)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L)	SI- MAZINE, WATER, DISS, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)
DATE	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)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
DATE	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)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)

	TRI-
	FLUR-
	ALIN
	WAT FLT
	0.7 U
DATE	GF, REC
	(UG/L)
	(82661)
MAY	
14	<.009

Remark codes used in this report:

MULLICA RIVER BASIN

01409435 SKIT BRANCH NEAR HAMPTON GATE, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
01	1030	<20	<100	<10	15	1005	<20	<100	10
08	0950	<20	100	10	22	0849	<20	<100	10
					29	1105	110	<200	10

01409500 BATSTO RIVER AT BATSTO, NJ

LOCATION.--Lat 39°38'33", long 74°39'02", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and entercococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1130	42	1.0	.040	.032	772	89	10.9	5.6	23	17.0	7.0	3
05 MAY	1100	55	1.2	.036	.027	770	91	12.2	5.1	45	-1.0	3.5	8
07	1100	74	1.2	.119	.088	762	93	8.9	4.9	49	26.5	17.5	8
13	1030	36	1.7	.096	.077	765	83	7.1	5.3	22	31.5	23.0	3

					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													
14	.60	.437	.53	2.11	1	3.24	<.1	5.9	3.2	20	17	.030	E.10
FEB													
05	1.59	.953	.79	2.85	1	4.91	<.1	6.5	8.8	30	28	<.030	E.08
MAY													
07	1.72	.993	.73	3.18		5.52	<.1	4.6	9.2	40		<.030	.14
AUG													
13	.52	.381	.42	1.98	2	3.17	<.1	3.7	2.6	18	14	<.030	E.07

	NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
(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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
<.030	.06	<.003		.05	<.004		E.002	.4	<.1	1.1	.4	<1.0
.030	.13	<.002		<.02	<.004	<.020	E.004	.5	<.1	1.4	.5	E1.6
<.030	.11	<.003	.25	.05	E.002	<.020	.007	.8	<.1	3.7	.8	<1.0
<.030	<.04	<.003		.08	E.002	<.020	.007	.5	<.1	1.9	.5	<1.0
	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) <.030 .030 <.030 <.030	NITRO- GEN, NITRO- GEN, MITRO- GEN, NO2+NO3 AMMONIA DIS- TOTAL SOLVED MMG/L (MG/L (MG/L AS N) AS N) (00610) (00631) <.030	NITRO- NITRO- NITRO- GEN, GEN, GEN, GEN, NO2+NO3 NITRITE AMMONIA DIS- DIS- TOTAL SOLVED SOLVED (MG/L (MG/L (MG/L AS N) AS N) AS N) (00610) (00631) (00613) .030 .06 .003 .030 .13 .002 <.030	NITRO- NITRO- NITRO- GEN, GEN, MITRITE GEN, NO2+NO3 NITRITE GEN AMMONIA DIS- DIS- DIS- TOTAL SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) (00610) (00631) (00613) (00602) <.030	NITRO- NITRO- NITRO- NITRO- NITRO- GEN, GEN, MITRO- GEN, PAR GEN, NO2+NO3 NITRITE GEN TICULTE AMMONIA DIS- DIS- DIS- WAT FLT TOTAL SOLVED SOLVED SOLVED SUSP (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS N) <.030	NITRO- NITRO- NITRO- NITRO- NITRO- GEN, GEN, NITRO- GEN,PAR PHOS- GEN, NO2+NO3 NITRITE GEN TITULTE PHORUS AMMONIA DIS- DIS- DIS- DIS- WAT FLT DIS- TOTAL SOLVED SOLVED SUSP SOLVED SUSP SOLVED (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) (00610) (00631) (00602) (49570) (00666) <.030	NITRO- NITRO- NITRO- ORTHO- NITRO- GEN, GEN, NITRO- GEN, PAR PHOS- GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, AMMONIA DIS- DIS- DIS- DIS- SOLVED SUSP SOLVED SOLVED (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (MS/L (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L (00610) (00631) (00613) (00602) (49570) (00666) (00671) <.030	NITRO- NITRO- NITRO- GEN, NITRO- ORTHO- NITRO- GEN, NITRO- GEN, PAR PHOS- PHOS- GEN, NO2+NO3 NITRITE GEN TICULTE PHORUS PHATE, PHOS- AMMONIA DIS- DIS- DIS- DIS- DIS- DIS- PHORUS PHORUS TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL (MG/L (MG/L <td< td=""><td>NITRO- NITRO- NITRO- ORTHO- CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + GEN, NO2+NO3 NITRITE GEN TCULTE PHORUS PHATE, PHOS- PHOS- INORG + AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHORUS PARTIC. TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL TOTAL MG/L (MG/L (MG/L</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, NITRO- GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INOR- CARBON, GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, PHOS- ORGANIC GRADIC, ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. DAGANIC ORGANIC DIS- DIS- DIS- PHORUS PARTIC. DIS- DIS-</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td></td<>	NITRO- NITRO- NITRO- ORTHO- CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + GEN, NO2+NO3 NITRITE GEN TCULTE PHORUS PHATE, PHOS- PHOS- INORG + AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHORUS PARTIC. TOTAL SOLVED SOLVED SUSP SOLVED SOLVED TOTAL TOTAL TOTAL TOTAL MG/L (MG/L (MG/L	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, NITRO- GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + INORG + INOR- CARBON, GEN, N02+N03 NITRITE GEN TCULTE PHORUS PHATE, PHOS- ORGANIC GRADIC, ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. DAGANIC ORGANIC DIS- DIS- DIS- PHORUS PARTIC. DIS- DIS-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Remark codes used in this report:

< -- Less than

E -- Estimated value

MULLICA RIVER BASIN

01409500 BATSTO RIVER AT BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DAT	'n	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 14	••••		E7	1					
				FEB 05			E8	3					
				MAY 07	· • • •	.900	E9	3					
				AUG 13		.900	E9	5					
DATE	TIME	SAMP TYP	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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	1030	ENVIRON	TENTAT.							c2	12.7	<.06	8
13	1030	BED MATE	RIAL		6.20	40	910	1.2	<.2				
DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	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 13 13	E.02	<.8 	<.6 	1020	<1	12.2	<.01	<1 	<.4 	<.05	3 	 <1	
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 13 13	 1.1	 .165	 <2	 1700	2.8	 8.3	 <.01	 .521	 <1	 6.0	 E10	 E4	 E30
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													
13	E22	E9	 E16	E25	E32	E18	E32	E11	 E17	E33	E18	100	E21
DATE	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)
AUG 13 13	 <50	 <50	 E12	 E10	 E18	 E11	 E21	 <5	 E26	 E6	 E47	 <50	 E11

MULLICA RIVER BASIN

01409500 BATSTO RIVER AT BATSTO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
13			
13	70	.3	.6

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				
15	1115	<20	100	<10	05	0920	110	<100	20
22	0955	<20	<100	<10					
29	1026	<20	<100	<10					

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

		DIS- CHARGE,	TUR- BID- TTY	UV ABSORB-	UV ABSORB-	BARO- METRIC PRES-	OXYGEN, DIS- SOLVED		PH WATER WHOLE	SPE-			HARD-
DATE	TIME	CUBIC FEET PER SECOND (00061)	FIELD WATER UNFLTRD (NTU) (61028)	254 NM, WTR FLT (UNITS /CM) (50624)	280 NM, WTR FLT (UNITS /CM) (61726)	SURE (MM OF HG) (00025)	(PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	FIELD (STAND- ARD UNITS) (00400)	CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TOTAL (MG/L AS CACO3) (00900)
DEC													
10 FEB	1030	44	5.3	.111	.091	770	90	11.0	4.7	36	9.0	7.0	4
07 JUN	1000	60	3.3	.082	.065	760	96	12.6	4.4	37	1.5	4.0	4
06 AUG	0930	53	8.9	.273	.219	759	88	8.0	4.6	30	26.5	20.0	3
26	0940	49	3.6	.059	.043	763	90	8.1	4.1	70	27.0	20.5	6

	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-	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN,AM- MONIA + ORGANIC DIS.	NITRO- GEN, AMMONIA TOTAL
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)	(MG/L AS N) (00608)	(MG/L AS N) (00623)	(MG/L AS N) (00610)
DEC													
10	.79	.432	1.55	2.17	<1	4.12	<.1	6.9	6.5	24	<.030	.11	<.030
FEB													
07	.77	.434	1.05	2.24	<1	3.99	<.1	6.8	6.5	28	.030	E.06	.030
JUN													
06 AUG	.58	.378	.89	2.14	<1	3.80	<.1	5.7	5.2	30	.030	E.09	.030
26	1.32	.742	2.66	2.62		4.36	E.1	5.4	14.8	33	<.030	E.09	<.030

	NITRO-	NITRO-	NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-	
	GEN,	GEN,	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A	
	NO2+NO3	NITRITE	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,
	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-
	SOLVED	SOLVED	SUSP	SOLVED	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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	AS B)
	(00631)	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)
DEC													
10	<.04	<.003	.10	.007		.066	2.2	<.1	2.4	2.2	E1.6		E12
FEB													
07	<.04	<.002	.05	E.003	<.020	.027	.6	<.1	2.0	.6	2.5		E10
JUN													
06 AUG	E.02	<.003	.23	.004	<.020	.113	5.0	<.1	4.4	5.0	<1.0	3.40	<13
26	<.04	<.003	.09	E.003	<.020	.032	1.2	<.1	2.5	1.2	<1.0	1.90	E9

Remark codes used in this report:

01409815 WEST BRANCH WADING RIVER AT MAXWELL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 10 FEB	14
07 JUN 06 AUG	19
26	5

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				
01	1110	40	<100	60	15	1030	<20	<100	50
08	1020	1100	300	260	22	0915	40	100	50
					29	0945	<20	200	20

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1030	10	.4	.049	.040	760	73	8.4	4.7	37	11.0	9.0	3
26	1100	8.8	.7	.052	.039	758	72	8.7	4.6	37	15.5	7.0	3
19 AUG	1030	11	.6	.227	.177	771	71	7.0	4.5	37	26.0	16.5	3
15	1030	9.2	.8	.110	.090	768	63	5.8	4.7	32	30.5	19.5	3

					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
	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)
NOV													
20	.42	.483	.56	2.54	<1	4.71	<.1	9.6	4.9	30	<.030	E.06	<.030
FEB													
26	.45	.522	.63	2.69	<1	4.67	<.1	9.1	5.4	22	<.030	E.06	.030
JUN													
19	.40	.453	.46	2.64		4.69	<.1	7.6	5.2	26	<.030	.10	<.030
AUG													
15	.39	.417	.62	2.74	<1	4.93	<.1	9.9	3.4	<10	<.030	E.10	<.030

	NITRO-	NITRO-	NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-	
	GEN,	GEN,	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A	
	NO2+NO3	NITRITE	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,
	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-
	SOLVED	SOLVED	SUSP	SOLVED	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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	AS B)
	(00631)	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)
NOV													
20	< 04	< 003	.03	< 004		< 004	3	< 1	1.1	3	<1.0		<13
FEB			.05				•••	~•=		••	41.0		110
26	<.04	<.003	<.02	<.004	<.020	E.003	.2	<.1	1.3	.2	<1.0		E8
JUN													
19	<.04	<.003	<.02	<.004	<.020	.004	.2	<.1	4.7	.2	<1.0	.400	E11
AUG													
15	E.02	<.003	.10	<.004	<.020	E.003	.5	<.1	2.1	.5	<1.0	.500	E9

Remark codes used in this report:

< -- Less than

E -- Estimated value

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 20 FEB 26 JUN 19 AUG	3 2 2
15	4

DATE	TIME	SAMP TYP	ele Se		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 15 15	1030 1030	ENVIRONM BED MATE	ENTAL RIAL		 5.10	<3.70	 260	.3	<.2	<2	17.9 	E.05 	9
DATE	CADMIUM WATER UNFLIRD 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 15 15	<.04 	<.8 	<.6 	300	<1	5.6 	<.01	<1 	<.4 	<.05 	4	 <1	.002
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 15 15	 <.4	 .064	 <2	200	 1.1	 2.5	 <.01	 .317	 <1	<3.1	 E3	 <50	 E4
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 15 15	<50	 E12	 E17	 E21	 130	 64	 130	 E30	 82	 130	 E24	 E43	 E47
DATE	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)
AUG 15 15	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <5	 <50	 E3	 E11	 <50	 E12

MULLICA RIVER BASIN

01410150 EAST BRANCH BASS RIVER NEAR NEW GRETNA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	BED
	MAT.
PYRENE,	SIEVE
SED, BM	DIAM.
WS,<2MM	% FINER
DW, REC	THAN
(UG/KG)	.062 MM
(49387)	(80164)
E41	.1
	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387) E41

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				
01	1200	300	300	70	15	1045	<20	<100	<10
08	1050	340	500	80	22	0925	20	<100	10
					29	0956	<20	<100	10

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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)
DEC													
11	1250	1.1	1.4	.090	.071	767	79	9.1	5.6	58	13.0	9.5	15
FEB													
19	1210	1.0	1.8	.051	.042	765	93	12.1	5.6	60	13.5	4.5	15
JUN													
03	0940	.99	3.3	.133	.109	761	62	6.1	5.5	60	17.0	16.0	15
AUG													
20	1200	.23	2.1	.066	.054	760	86	7.4	5.6	73		22.5	19

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)
DEC 11	3.04	1.70	1.61	3.37	5	6.26	<.1	8.4	5.5	52	40	<.030	.13
FEB													
19 JUN	3.16	1.66	2.64	3.24	4	5.44	<.1	7.6	5.6	36	41	.040	E.09
03 AUG	3.07	1.73	1.70	3.33	6	6.32	<.1	6.8	5.2	45	38	.030	.14
20	4.39	1.97	2.58	3.08	5	6.05	<.1	7.2	8.6	48	46	<.030	.13

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 11 FEB	<.030	1.56	<.003	1.7	.04	E.003		.009	.4	<.1	2.1	.4	E1.2
19 JUN 03	.030	2.04	.004		<.02	E.003	<.020	.009	.4	<.1	1.3	.4	E1.8
AUG 20	<.030	1.95	.012	2.1	.04	.004	<.020	.017	.4	<.1	1.4	.4	<1.0

Remark codes used in this report:

GREAT EGG HARBOR RIVER BASIN

01411035 HOSPITALITY BRANCH AT BLUE BELL ROAD, NEAR CECIL, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC			
11		E10	<1
FEB 10		~1.2	•
		<12	0
03	5.00	E7	9
AUG			
20	2.80	E9	6

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				
29	1045	300	200	260	12	1055	300	300	90
JUN					19	1125	300	200	80
05	1035	130	<100	210	26	1130	170	<100	50

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.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
29 FEB	1230	72	1.1	.080	.061	770	93	10.0	6.2	51	16.0	12.5	10
13 JUN	0940	94	2.0	.075	.058	762	93	11.6	6.0	58	7.0	6.0	10
06 AUG	1140	118	8.4	.183	.143	760	91	8.2	5.6	46	39.0	20.5	9
15	1040	44	2.2	.075	.059	766	92	8.1	6.2	45	34.0	22.0	8

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 29	1.96	1.13	1.32	4.84	4	7.99	<.1	6.9	5.3	40	34	<.030	.16
13 JUN	2.11	1.26	1.21	5.85	3	9.90	<.1	7.4	6.5	44	39	.110	.20
06 AUG	1.75	1.10	1.13	4.39	3	7.14	<.1	6.1	5.3	48	31	<.030	.15
15	1.57	.984	1.04	4.71	4	7.38	<.1	5.4	4.4	25	30	<.030	E.10

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV	0.20	50		co					-				.1 0
29 FEB	.030	.52	<.003	.68	<.02	E.003		.009	.5	<.1	2.1	.4	<1.0
13	.120	.64	<.003	.84	.02	.005	<.020	.012	.5	<.1	2.1	.5	<1.0
JUN	< 030	54	< 003	69	24	006	< 020	067	A A	~ 1	26	1 1	~1 0
AUG	<.030	.54	<.003	.09	.24	.000	<.020	.007	1.4	~.1	5.0	7.4	< 1.0
15	<.030	.55	<.003		.06	.006	<.020	.014	.6	<.1	1.8	.6	<1.0

Remark codes used in this report:

GREAT EGG HARBOR RIVER BASIN

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 29 FEB 13 JUN 06 AUG 15	 6.20 1.60	50 40 30 50	<1 9 16 7

AUG 15 103 15 104	39 FIELD BLANK 40 ENVIRONMENTAL	<2	28.2	 E.03	 49	 E.03	 <.8	<.2 	.9	 490
DATE TIM	SAMPLE ME TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	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)	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)

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG 15 15	<.08 	<1	8.9	<.01	 E.01	<.06	 1	 <.4	 <.05	<1	22

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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 DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
29 FEB	1000	5.0	.7	.142	.113	770	72	7.8	5.1	43	15.0	12.0	8
12 JUN	1650	5.8	.8	.077	.060			11.4	5.1	59	8.5	6.5	9
06 AUG	1000	5.3	.7	.111	.089	760	80	7.7	5.0	36	27.0	17.0	7
15	1310	1.6	.9	.112	.093	766	73	6.5	5.2	34	35.0	21.5	6

					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
29 FEB	1.47	1.13	.83	3.49	2	6.46	E.1	9.1	4.3	42	31	<.030	.15
12 JUN	1.52	1.18	.77	6.69	2	11.7	<.1	8.9	4.5	46	40	<.030	E.09
06 AUG	1.09	.942	.69	3.33	2	6.28	<.1	5.6	3.2	34	25	<.030	.11
15	.91	.956	.74	3.07	2	6.12	<.1	3.9	2.4	34	22	<.030	.15
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 29	<.030	.69	<.003	.84	<.02	E.002		.006	.4	<.1	3.4	.4	E1.0
FEB 12	.100	.68	<.003		<.02	E.003	<.020	.005	.3	<.1	2.2	.3	E1.2
06	070	63	< 003	74	< 02	004	< 020	010	.5	<.1	2.1	.5	<1.0
AUG	.070	.05	<.005	• / 1	~.02			.010					

Remark codes used in this report:

01411196 BABCOCK CREEK NEAR MAYS LANDING, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

CHLORO-		RESIDUE
FLUORO-	BORON,	AT 105
METRIC	DIS-	DEG. C,
METHOD	SOLVED	505-
CORR.	(UG/L	PENDED
(UG/L)	AS B)	(MG/L)
(32209)	(01020)	(00530)
	E10	<1
	E10	9
.600	<13	5
1.60	E7	8
	CHLORO- PHYLL A FLUORO- METHIC METHOD CORR. (UG/L) (32209) .600 1.60	CHLORO- PHYLL A FLUORO- BORON, METRIC METHOD CORR. (UG/L (UG/L) AS B) (32209) (01020) E10 E10 .600 <13 1.60 E7

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 07	1000	1.0	.150	.123	763	79	9.3	6.5	35	16.0	8.5	6	1.03
FEB 20	1000	4.2	.090	.073	762	86	10.6	6.3	34	13.5	6.5	6	1.03
MAY 14	0930	1.0	.270	.208	750	96	8.9	5.2	34	17.0	18.0	6	.90
AUG 07	1000	1.3	.159	.129	764	42	3.7	6.1	33	22.0	22.0	6	1.01
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)
NOV 07	.817	.92	2.84	6	4.63	<.1	4.8	1.4	32	20	.060	.26	.070
20 MAY	.861	.77	2.59	5	4.61	<.1	5.7	2.3	26	22	.060	.28	.060
14 AUG	.875	.50	2.72	1	4.16	<.1	5.8	4.3	<10	20	<.030	.27	<.030
07	.888	.94	2.71	6	5.06	<.1	2.0	1.5	32	18	.040	.49	.050
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV	- 4		40	05	0.05		011	-		1.0			
57 FEB 20	•14 .21	<.003	.40	.05	.005	 <.020	.011	.5 1.5	<.1 E.1	4.2 2.2	.4 E1.4	ыт.т <1.0	
MAY 14	<.04	.004		.03	.005	<.020	.009	.6	<.1	7.4	.6	E1.6	1.30
AUG 07	E.03	<.003		.08	.009	.020	.020	.8	<.1	4.9	.8	E1.1	4.10

Remark codes used in this report:

TUCKAHOE RIVER BASIN

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 07	E6	2
20	E9	4
14	E11	6
07	E12	<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 UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 20	1000	c.1	c.1	c.1	£ 2	<.1	<.1	c.1	< 1	<.1	<.1	£ 2	£ 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 20	<.1 D2	<.2 ATE	<.1 METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	<.1 META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	<.1 XYLENE WATER WHOLE TOTAL (UG/L) (77135)	<.2 STYRENE TOTAL (UG/L) (77128)	<.2 TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	<.2 TOLUENE TOTAL (UG/L) (34010)	<.1 TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	<.2 TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	<.1 VINYL CHLO- RIDE TOTAL (UG/L) (39175)	<.1	<.2
	FEE 2	3 20	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 14	0930	<.006	<.004	<.005	.021	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

TUCKAHOE RIVER BASIN

01411290 TUCKAHOE RIVER NEAR ESTELL MANOR, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	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)
MAY													
14	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
				м	DATE AY 14	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661 <.009	т С)						

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. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
07 FEB	1045	.8	.116	.096	766	83	10.0	6.3	31	14.0	7.5	6	1.14
04	1045	1.3	.077	.062	756	93	11.8	6.1	36	6.0	5.0	6	1.25
07	0900	1.7	.444	.340	761	81	8.0	4.5	46	22.0	16.0	6	1.04
04	0930	.9	.334	.254	762	71	6.4	4.3	67	27.0	21.0	10	1.78
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)
NOV						_							
07 FEB	.675	.70	2.79	4	4.60	<.1	8.2	2.5	26	23	.060	.13	.050
04 May	.799	.71	2.67	3	4.89	<.1	8.5	4.4	30	26	<.030	E.09	.030
07 SEP	.770	.50	2.96		5.14	<.1	5.6	6.9	41		.040	.29	<.030
04	1.43	.57	3.55		5.65	<.1	10.6	15.2	56		<.030	.30	<.030
DATE	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)	ORTHO- PHOS- PHATE, 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)	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)
NOV													
07 FEB	E.04	<.003	.03	.007		.009	.3	<.1	2.3	.3	<1.0		E7
04 MAY	.13	<.003	.05	.006	<.020	.011	.4	<.1	1.7	.3	<1.0		10
07 SEP	<.04	<.003	.37	.008	<.020	.014	3.1	<.1	10.0	3.1	<1.0	1.40	E10
04	<.04	<.003	.05	.008	<.020	.013	.4	<.1	8.9	.3	<1.0	1.60	20

Remark codes used in this report:

< -- Less than E -- Estimated value

298

TUCKAHOE RIVER BASIN

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV	
07	2
04	14
MAY	
07	<1
SEP	
04	5

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 UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 04	1045	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 04	<.1 D2	<.2 ATE	<.1 METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	<.1 META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	<.1 O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	<.2 STYRENE TOTAL (UG/L) (77128)	<.2 TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	<.2 TOLUENE TOTAL (UG/L) (34010)	<.1 TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	<.2 TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	<.1 VINYL CHLO- RIDE TOTAL (UG/L) (39175)	<.1	<.2
	FEE	3)4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
07	0900	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

TUCKAHOE RIVER BASIN

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 07	<.004	<.035	<.027	<.050	.024	<.006	<.007	<.022	<.01	<.011	.020	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	т С)						

MAY 07... <.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				
05	1000	<20	200	80	02	1000	20	<100	30
12	1015	20	<100	10					
19	1020	20	100	10					
26	1015	<20	<100	<10					

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
13	1010	.25	2.0	.386	.293	763	85	9.6	7.0	160	12.0	10.0	44
12 JUN	1040	E.73	1.5	.504	.390	769	93	11.7	6.3	152	9.5	6.0	41
18 AUG	1010	.45	2.5	.891	.691	765	86	7.2	6.8	130	27.0	24.5	33
21	1000	.03	6.2	.720	.534	769	35	2.9	6.7	171		25.5	46

					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-
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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
13 FEB	11.0	4.02	2.34	12.7	23	20.4	<.1	4.1	17.1	112	86	.040	.51
12 JUN	10.3	3.75	1.71	13.4	16	22.0	<.1	5.9	24.1	118	91	.030	.50
18 AUG	8.69	2.77	1.25	10.7	22	16.1	E.1	4.0	8.8	104	66	.030	.77
21	12.5	3.57	1.73	16.7	37	25.0	<.1	3.6	6.3	130	92	.130	.88
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC													
13 FEB	.030	.06	.003	.57	.07	.010		.024	.4	<.1	9.9	.4	E1.8
12 JUN	.030	<.04	<.003		.07	.009	<.020	.028	.7	<.1	12.9	.7	2.1
18 AUG	.050	<.04	<.003		.14	.024	<.020	.046	1.0	<.1	18.7	1.0	E1.0
21	.130	.05	.007	.93	.24	.024	.021	.087	1.5	<.1	19.3	1.4	2.1

Remark codes used in this report:

01411400 FISHING CREEK AT RIO GRANDE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 13 FEB 12 JUN 18 AUG 21	 8.70 24.7	20 20 30 50	4 5 3 12

01411427 DENNIS CREEK TRIBUTARY 2 ON LITTLE ROAD, AT DENNISVILLE, NJ

LOCATION.--Lat 39°12'23", long 74°49'22", Cape May County, Hydrologic Unit 02040206, 0.3 mi upstream of Johnson Pond, 1.0 mi north of Dennisville, and 1.5 mi southwest of Woodbine Municipal Airport.

DRAINAGE AREA. -- 2.77 mi

PERIOD OF RECORD. -- December 2001 to September 2002. Data was collected 0.9 mi downstream at 01411428 Dennis Creek Tributary 2 at Dennisville during water years 2000-01.

REMARKS .-- Site is tide-affected; all samples collected at low tide. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, and total suspended solids was performed by the New Jersey Department of Health and Senior Serivces, 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 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	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)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC	0800	0	080	064	765	70	0 5	F 4	62	7.0	7 0	10	1 01
11	0800	.0	.080	.064	/65	/8	9.5	5.4	63	7.0	7.0	10	1.21
05	0800	.7	.062	.048	767	69	9.0	5.2	73	-9.0	4.5	11	1.36
JUL													
10	0745	2.0	.083	.068	762	55	5.3	5.1	67	23.0	17.0	10	1.13
12	0715	.9	.048	.039	748	67	6.8	5.1	64	10.0	14.0	10	.99

				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)	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)
DEC													
11	1.71	1.67	5.32	2	9.88	<.1	8.8	6.7	48	39	<.030	.11	<.030
MAR													
05	1.92	1.92	5.44	2	9.62	<.1	9.7	9.1	44	44	.050	E.09	.190
ராட													
10	1.71	2.07	5.60	3	9.28	<.1	7.6	6.1	49	38	<.030	.16	<.030
SEP													
12	1.77	1.81	5.76	2	9.21	<.1	8.6	6.3	51	39	.038	.12	<.030

NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-
GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A
NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-
DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC
SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD
(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)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)
(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)
72	< 003	93	03	F 003		007	0	~ 1	2 4	0	~1 0	
• / 2	<.003	.05	.05	E.003		.007	•0	~.1	2.1	.0	~1.0	
.78	<.003		.04	<.004	<.020	.004	.7	<.1	2.3	.7	<1.1	
.64	<.003	.80	.05	.007	<.020	.019	.7	<.1	2.1	.7	<1.0	1.30
.68	<.003	.79	.03	E.004	<.020	.004	.4	<.1	1.8	.4	E2.2	2.00
	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .72 .78 .64 .68	NITRO- GEN, NITRO- GEN, NO2+NO3 NITRITE DIS- SOLVED SOLVED (MG/L (MG/L AS N) AS N) (00631) (00613) .72 <.003	NITRO- GEN, DIS- DIS- DIS- DIS- DIS- SOLVED NITRO- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS	NITRO- GEN, SEN, NO2+NO3 NITRO- SEN, DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NITRO- NITRO- NITRO- GEN, GEN, NITRO- GEN, PAR PHOS- N02+NO3 NITRITE GEN TICULTE PHORUS DIS- DIS- DIS- WAT FLT DIS- SOLVED SOLVED SOLVED SOLVED SOLVED MG/L (MG/L (MG/L <td>NITRO- NITRO- NITRO- ORTHO- GEN, ORTHO- GEN, ORTHO- GEN, ORTHO- GEN, ORTHO- PHOS- ORTHO- PHOS- ORTHO- PHOS- ORTHO- PHOS- DHOS- PHOS- PHOS- PHOS- PHOS- DHOS- DHOS- DIS- DIS-</td> <td>NITRO- NITRO- NITRO- ORTHO- GEN, GEN, NITRO- GEN,PAR PHOS- PHOS- NO2+NO3 NITRITE GEN TICULTE PHORUS PHATE, PHOS- DIS- DIS- DIS- WAT FLT DIS- DIS- PHORUS PHATE, PHORUS SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL (MG/L (MG/L</td> <td>NITRO- NITRO- NITRO- ORTHO- CARBON, GEN, GEN, NITRO- GEN,PAR PHOS- INORG + NO2+NO3 NITRITE GEN TICULTE PHOSD PHATE, PHOS- DIS- DIS- DIS- WAT FLT DIS- DIS- PHORUS PHATE, PHOSD SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL TOTAL (MG/L (</td> <td>NITRO- NITRO- NITRO- ORTHO- CARBON, CASDON CORDAN CORD</td> <td>NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, GEN, GEN, GEN, NITRO- GEN,PAR PHOS- PHOS- INOR- ORGANIC GARBON, CARBON, CARD, CARBON, C</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td>	NITRO- NITRO- NITRO- ORTHO- GEN, ORTHO- GEN, ORTHO- GEN, ORTHO- GEN, ORTHO- PHOS- ORTHO- PHOS- ORTHO- PHOS- ORTHO- PHOS- DHOS- PHOS- PHOS- PHOS- PHOS- DHOS- DHOS- DIS- DIS-	NITRO- NITRO- NITRO- ORTHO- GEN, GEN, NITRO- GEN,PAR PHOS- PHOS- NO2+NO3 NITRITE GEN TICULTE PHORUS PHATE, PHOS- DIS- DIS- DIS- WAT FLT DIS- DIS- PHORUS PHATE, PHORUS SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL (MG/L (MG/L	NITRO- NITRO- NITRO- ORTHO- CARBON, GEN, GEN, NITRO- GEN,PAR PHOS- INORG + NO2+NO3 NITRITE GEN TICULTE PHOSD PHATE, PHOS- DIS- DIS- DIS- WAT FLT DIS- DIS- PHORUS PHATE, PHOSD SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL TOTAL (MG/L (NITRO- NITRO- NITRO- ORTHO- CARBON, CASDON CORDAN CORD	NITRO- NITRO- NITRO- ORTHO- CARBON, CARBON, CARBON, GEN, GEN, GEN, NITRO- GEN,PAR PHOS- PHOS- INOR- ORGANIC GARBON, CARBON, CARD, CARBON, C	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Remark codes used in this report:

DENNIS CREEK BASIN

01411427 DENNIS CREEK TRIBUTARY 2 ON LITTLE ROAD, AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 11	E10	6
05	E9	5
10 SEP	20	2
12	10	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 05	0800	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
DATE	CHLORO- BENZENE TOTAL (UC/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 05	<.1	<.2	.2	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.1
	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	2	- 2	- 2	<i>-</i> 1	<i>-</i> 1	4	<i>-</i> 1	<i>-</i> 1	< 2	< 2		
	0		~. 4	~. 4	<.I	<•T	. 4	<•T	<.T	~. 4	~. 4		

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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUL 10	0745	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

DENNIS CREEK BASIN

01411427 DENNIS CREEK TRIBUTARY 2 ON LITTLE ROAD, AT DENNISVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
ராட													
10	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL GF, RE (UG/L) (82661	т С)						
				J	TUL 10	<.009							
Remark code < Less	es used in s than	this repo	rt:										

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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)
DEC													
13	1230	1.0	1.0	.150	.114	760	80	9.0	4.2	55	13.0	10.0	5
FEB													
12	1240	E5.0	7.2	.172	.129	769	92	11.9	4.1	60	11.5	5.0	5
JUN													
18	1210	1.4	1.1	.609	.469	766	87	7.5	4.0	51	27.0	23.0	4
SEP													
04	0920	.35	2.9	.384	.281	762	47	4.0	3.9	116	23.0	23.5	16

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
DEC 13	.53	.777	.85	2.89	4.54	<.1	13.0	8.5	36	<.030	.12	<.030	E.03
12 ЛЛЛ	.60	.917	.91	3.17	5.19	<.1	12.0	10.3	40	<.030	.15	<.030	.18
18 SEP	.49	.591	.28	2.43	4.95	<.1	7.9	5.7	42	<.030	.39	<.030	<.04
04	2.16	2.64	.94	4.89	7.76	E.1	15.3	27.1	84	<.030	.37	<.030	<.04

	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-	
	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A	
	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,
	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-
	SOLVED	SOLVED	SUSP	SOLVED	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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	AS B)
	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)
DEC													
13	<.003		.03	E.002		E.003	.3	<.1	4.0	.3	E1.2		E8
FEB													
12	<.003	.33	.19	.004	<.020	.015	2.7	<.1	5.0	2.7	E1.2		E10
JUN													
18	<.003		.05	.004	<.020	.009	.4	<.1	13.6	.4	<1.0	1.00	E10
SEP													
04	<.003		.07	.004	.022	.013	.4	<.1	12.3	.4	2.3	1.20	30

Remark codes used in this report:

< -- Less than E -- Estimated value

306

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC	5
CT 8377	5
12	16
JUN	
18	<1
SEP	•
04	8

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	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)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FEB 12	1240	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	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)
META/ METHYL PARA- O- TETRA- TRI- TRI- ENE XYLENE XYLENE CHLORO- CHLORO- VINYL CHLO- WATER WATER ETHYL- ETHYL- FLUORO- CHLOR- RIDE UNFLITED WHOLE STYRENE ENE TOLUENE ENE METHANE RIDE DATE TOTAL REC TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (34423) (85795) (77128) (34475) (34010) (39180) (34488) (39175) FEB	FEB 12	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
		DA	лте	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	3	<i>c</i> 2	<i>c</i> 2	<i>c</i> 1	<i>c</i> 1	<i>c</i> 1	<i>c</i> 1	<i>c</i> 1	<i>c</i> 2	- 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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
JUN													
18	1210	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

WEST CREEK BASIN

01411444 WEST CREEK NEAR LEESBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	LINDANE	LIN- URON WATER FLTRD	MALA- THION,	METHYL AZIN- PHOS WAT FLT	METO- LACHLOR	METRI- BUZIN SENCOR	NAPROP- AMIDE WATER FLTRD	PENDI- METH- ALIN WAT FLT	PRO- METON, WATER,	PRO- PANIL WATER FLTRD	SI- MAZINE, WATER,	TEBU- THIURON WATER FLTRD	TER- BACIL WATER FLTRD
DATE	DIS- SOLVED (UG/L) (39341)	GF, REC (UG/L) (82666)	SOLVED (UG/L) (39532)	GF, REC (UG/L) (82686)	WATER DISSOLV (UG/L) (39415)	WATER DISSOLV (UG/L) (82630)	GF, REC (UG/L) (82684)	GF, REC (UG/L) (82683)	DISS, REC (UG/L) (04037)	GF, REC (UG/L) (82679)	DISS, REC (UG/L) (04035)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82665)
JUN 18	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE	т						

(UG/L) (82661)

JUN 18...

<.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				
05	1044	20	<100	<10	02	1058	<20	<100	<10
12	1045	<20	<100	<10					
19	1047	20	100	10					
26	1043	<20	<100	10					

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 29	1000	2.5	.101	.077	769	71	7.5	6.5	122	13.5	13.0	28	5.49
26	1000	4.0	.053	.042	755	83	9.9	6.5	133	19.0	7.5	29	5.56
30	1000	1.4	.151	.118	760	74	7.0	6.6	124	25.0	18.0	28	5.35
13	1000	1.7	.091	.072	762	53	4.7	6.6	126	31.0	21.0	29	5.71
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)
NOV 29	3.50	2.58	8.59	17	16.5	E.1	5.3	6.9	70	64	.050	.24	.040
26 MAY	3.57	2.33	10.2	12	17.2	<.1	5.5	9.8	68	71	<.030	.15	<.030
30 AUG	3.47	2.17	9.94	18	17.0	E.1	5.1	7.4	67	68	.050	.27	.080
13	3.51	1.59	10.5	24	15.4	<.1	8.5	2.8	81	70	.040	.14	.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV	1 10	- 002	1 2	10	H 002		01.0	1.0	. 1	0.7	1.0	-1 0	
29 FEB	1.10	<.003	1.3	.12	E.002		.018	1.2	<.1	2.7	1.2	<1.0	
26 MAY	2.17	.007	2.3	.13	E.004	<.020	.021	1.3	<.1	1.5	1.3	EI.3	
AUG	1.30	.003	1.0	.04	.007	<.020	.010	•*	~ 1	3.2	•*	<1.0	2.90
1J	T.28	.003	1.7	.09	.004	<.020	.009	. 3	<.⊥	2.3	.3	<1.0	.800

Remark codes used in this report:

MAURICE RIVER BASIN

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

0 <1 0 11 0 6 0 3	
	0 11 0 6 0 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 26	1000	<.1	<.1	<.1	.2	<.1	<.1	<.1	<.1	<.1	.4	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD 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	<.1	<.2	<.1	<.1	<.1	<.2	.5	<.2	<.1	<.2	<.1	<.1	<.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 2	3 6	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
МАҮ 30	1000	<.006	<.004	<.005	.020	<.010	<.041	<.005	<.018	<.003	E.008	<.005	<.002
MAURICE RIVER BASIN

01411452 STILL RUN AT LITTLE MILL ROAD, NEAR CLAYTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
30	<.004	<.035	<.027	<.050	.027	<.006	<.007	<.022	E.01	<.011	<.005	E.01	E.025
						TRI-							
						FLUR-							
						ALIN	_						
						WAT FL	т						
					DATE	0./U GE PE	c						
					DAIL	$(\Pi G/I_{\star})$							
						(82661)						
					7.61								

MAY 30... <.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				
29	1015	170	<100	50	12	1025	170	300	130
JUN					19	1055	170	100	100
05	1005	230	300	140	26	1100	70	<100	110

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

		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	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)
DEC													
11	1040	3.6	2.6	.175	.137	767	86	10.1	5.5	43	12.5	8.5	8
FEB													
19	1000	3.2	2.3	.127	.100	767	92	12.2	4.7	44	6.0	4.0	7
JUN													
18	1320	5.1	.9	.805	.626	766			4.1	55	31.0	16.5	7
AUG													
20	1000	.65	1.7	.487	.404	760	48	4.2	5.2	36	29.5	22.0	5

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 11 FEB	1.48	1.14	.95	3.14	<1	5.86	<.1	9.6	4.6	42		<.030	.16
19 JUN	1.24	1.05	.90	2.93	1	4.46	<.1	8.5	5.6	30	28	<.030	.15
18 AUG	1.15	.903	.72	2.83		5.03	<.1	8.1	6.4	56		.030	.49
20	.89	.784	1.12	2.99	3	5.40	<.1	10.5	2.8	43	27	.080	.44

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 11 FEB 19	<.030	.57	<.003	.73	.07	E.003		.013	.3	<.1 F 1	4.1	.3 E 6	<1.0
JUN 18	.090	.47	<.003	.96	.05	.008	<.020	.012	.4	<.1	15.8	.4	<1.0
20	.130	.15	.005	.60	.14	.033	.031	.044	.7	<.1	6.9	.7	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

MAURICE RIVER BASIN

01411466 INDIAN BRANCH NEAR MALAGA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 11		E10	15
19		<10	7
18	.500	20	2
20	3.50	E8	3

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				
29	1030	40	<100	10	12	1035	40	<100	30
JUN					19	1110	40	100	20
05	1020	90	100	40	26	1110	80	100	50

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 04	1000	67	1.1	.066	.052	772	86	10.0	6.6	96	12.0	9.5	22
07	1000	71	1.1	.072	.055	762	92	11.9	6.6	107	3.5	4.5	22
29 AUG	0830	79	1.7	.183	.141	765	81	7.5	6.1	94	23.0	19.5	21
08	1000	36	1.1	.077	.061	765	86	8.1	6.5	104	25.0	18.5	20

					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)
DEC													
04	4.45	2.57	2.34	6.68	10	11.4	<.1	5.3	6.6	54	53	<.030	.17
FEB													
07	4.59	2.67	1.72	8.52	7	12.6	<.1	5.9	9.4	64	59	<.030	.19
MAY													
29	4.16	2.46	1.72	7.28	8	12.0	E.1	4.1	7.7	58		.040	.27
AUG													
08	4.11	2.36	2.08	10.0	11	13.3	E.1	5.1	6.2	67		<.030	.32

	NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,
(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 P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)
(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
.030	1.84	<.003	2.0	.03	.004		.007	.4	<.1	2.0	.4	<1.0
<.030	2.11	.004	2.3	.05	.005	<.020	.007	.4	<.1	2.3	.4	<1.0
<.030		<.004		.10	.008	<.020	.013	1.4	<.1	3.5	1.4	<1.0
<.030		<.003		.09	.005	<.020	.009	.5	<.1	2.3	.5	E1.5
	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) .030 <.030 <.030 <.030	NITRO- GEN, NITRO- GEN, MENDIA DIS- DIS- TOTAL SOLVED MMONIA DIS- TOTAL SOLVED (MG/L (MG/L (MG/L AS N) AS N) (00610) (00631) .030 1.84 <.030	NITRO- MITRO- GEN, GEN, MO2+NO3 NITRO- GEN, GEN, MO2+NO3 NITRO- GEN, GEN, DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS-	NITRO- NITRO- NITRO- GEN, GEN, NITRO- GEN, NO2+NO3 NITRITE GEN AMMONIA DIS- DIS- DIS- TOTAL SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) (00610) (00631) (00613) (00602) .030 1.84 <.003	NITRO- NITRO- NITRO- NITRO- NITRO- GEN, GEN, MITRO- GEN, PAR GEN, NO2+NO3 NITRITE GEN TICULITE AMMONIA DIS- DIS- DIS- WAT FLT TOTAL SOLVED SOLVED SOLVED SUSP (MG/L (MG/L (MG/L (MG/L (MG/L AS N) AS N) AS N) AS N) AS N) .030 1.84 <.003	NITRO- NITRO- NITRO- NITRO- NITRO- GEN, GEN, GEN, GEN, PHOS- GEN, N02+N03 NITRITE GEN TCULTE PHORUS AMMONIA DIS- DIS- DIS- DIS- WAT FLT DIS- TOTAL SOLVED SOLVED SUSP SOLVED (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) (00660) (00663) (00602) (49570) (00666) .030 1.84 <.003	NITRO- NITRO- NITRO- NITRO- ORTHO- NITRO- GEN, GEN, NITRO- GEN, PAR PHOS- GEN, NO2+NO3 NITRTE GEN TUTL PHOS- PHOS- AMMONIA DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- TOTAL SOLVED SOLVED SUSP SOLVED SOLVED SOLVED MG/L (MG/L (MG/L	NITRO- NITRO- NITRO- NITRO- NITRO- ORTHO- NITRO- GEN, GEN, MIRO- GEN, PAR PHOS- PHOS- GEN, NO2+NO3 NITRITE GEN TICULTE PHORUS PHATE, PHOS- AMMONIA DIS- DIS- DIS- DIS- WAT FLT DIS- DIS- PHORUS TOTAL SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL (MG/L (M	NITRO- NITRO- NITRO- NITRO- ORTHO- CARBON, NITRO- GEN, GEN, MITRO- GEN, PAR PHOS- PHOS- INORG + GEN, NO2+NO3 NITRITE GEN TCULTE PHORUS PHATE, PHOS- ORGANIC AMMONIA DIS- DIS- DIS- DIS- DIS- DIS- PHORUS PHATE, PHOS- PHORUS PARTIC. TOTAL SOLVED SOLVED SOLVED SOLVED SOLVED TOTAL TOTAL TOTAL TOTAL MG/L (MG/L (MG/L	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Remark codes used in this report:

< -- Less than E -- Estimated value

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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)					
				DEC	: 94		30	1					
				FEE	3 17		30	4					
				MAY 2	9	.900	40	5					
				AUG	8	500	20	1					
DATE	TIME	SAMF TYP	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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													
08 08	1000 1000	ENVIRONM BED MATE	TENTAL RIAL		 6.40	 40	150	.7	<.2	6	68.4	E.03	30
DATE	CADMIUM WATER UNFLIRD 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		. 0	_	240		24 5					_		
08	.04	<.8				34.7	.02		<.4	<.05		3	.017
DATE	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERLAL (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													
08 08	<.4	.965	<2	810	3.6	42	.03	.590	<1	<3.1	<50	<50	<50
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													
08	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
DATE	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)
AUG													
08 08	<50	<50	<50	<50	<50	<50	<50	 <5	<50	<50	<50	<50	 <50

MAURICE RIVER BASIN

01411500 MAURICE RIVER AT NORMA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	BED
	MAT.
PYRENE,	SIEVE
SED, BM	DIAM.
WS,<2MM	% FINER
DW, REC	THAN
(UG/KG)	.062 MM
(49387)	(80164)
<50	.2
	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)

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				
05	0913	80	<100	80	02	0935	800	300	140
12	0912	230	<100	70					
19	0913	40	200	100					
26	0914	<20	<100	70					

Remark codes used in this report: < -- Less than

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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
06	1130	.52	1.3	.073	.061	764	80	8.8	5.4	23	14.0	11.0	4
FEB													
12	1420	.64	1.5	.057	.045	769	90	11.4	5.3	26	9.0	5.5	5
JUN													
11	1100	.60	1.1	.090	.072	760	83	8.2	4.7	23	31.0	16.0	4
AUG													
21	1220	.09	1.3	.145	.119	769	66	5.6	5.4	23	30.5	24.0	5
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-

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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC 06 FEB	.61	.596	.48	2.01	2	4.08	E.1	7.1	2.0	22	19	<.030	E.06
12	.70	.718	.54	2.39	2	4.45	<.1	7.0	2.8	22	21	<.030	<.10
11 AUG	.53	.549	.42	2.23	2	3.85	E.1	4.1	1.7	15	15	<.030	E.07
21	.71	.675	.55	1.87	3	3.72	<.1	7.6	1.6	29	20	<.030	.14
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 06 FEB	<.030	.15	<.003		.13	E.002		.004	3.2	<.1	1.6	3.2	E1.0
12 JUN	<.030	.21	<.003		.04	.005	<.020	.007	1.3	<.1	1.7	1.3	E1.6

<.004

.005

<.020

<.020

E.003

.011

.4

1.0

<.1

<.1

1.7

2.4

.4

1.0

<1.0

<1.0

<.030 Remark codes used in this report:

<.030

.13

.23

<.003

<.003

.38

<.02

.08

< -- Less than E -- Estimated value

11...

AUG 21...

MAURICE RIVER BASIN

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	METHOD CORR. (UG/L) (32209)	DIS- SOLVED (UG/L AS B) (01020)	DEG. C, SUS- PENDED (MG/L) (00530)
DEC 06 FEB 12 JUN 11 AUG 21	 5.00	<10 E7 E10 E10	5 15 8 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 12	1420	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 12	<.1	<.2	.2	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	Dž	лте	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											

12... <.2 <.2 <.1 <.1 <.1 <.1 <.1 <.2 <.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 11	1100	<.006	<.004	<.005	E.003	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002

MAURICE RIVER BASIN

01411955 GRAVELLY RUN AT LAUREL LAKE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 11	<.004	<.035	<.027	<.050	E.002	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	т С						

JUN 11... <.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				
05	1020	40	<100	80	02	1035	500	700	130
12	1024	20	<100	10					
19	1028	80	200	70					
26	1025	20	<100	30					

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.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Dislocient Mention Laboratories and Chemical Laboratories, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 11	1020	25	3.5	.070	.055	767	91	10.5	7.0	230	10.0	9.5	60
FEB													
14 JUN	1110	17	7.2	.033	.025	772	102	13.0	6.4	220	3.5	5.5	60
18 AUG	1010	26	23	.179	.141	766			6.2	185	25.0	19.0	49
22	1020	6.3	4.8	.091	.074	769	71	6.7	6.4	320	26.5	18.5	50

					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)
DEC													
11	11.8	7.41	6.91	11.4	17	25.7	<.1	9.6	23.3	136	130	.070	.33
FEB													
14	11.9	7.44	4.55	10.7	12	25.6	<.1	9.2	24.8	120	129	<.030	.19
JUN													
18	9.67	6.05	5.69	9.84	14	20.4	.1	7.8	22.4	114	109	.040	.35
AUG													
22	9.62	6.20	14.2	29.2	23	47.2	E.1	10.7	19.5	173	173	1.10	1.5
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
11	.070	5.45	.026	5.8	.05	.013		.043	.6	<.1	2.3	.6	<1.0
FEB													
14	<.030	6.19	.010	6.4	.09	.004	<.020	.035	.8	<.1	1.3	.7	E1.6
JUN										_			
18	.050	4.09	.024	4.4	.10	.019	<.020	.114	1.1	<.1	4.0	1.1	<1.0
AUG													
22	1.10	4.72	.374	6.3	.06	.038	.033	.155	.4	<.1	2.6	.4	3.2

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

COHANSEY RIVER BASIN

01412800 COHANSEY RIVER AT SEELEY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 11 FEB 14 JUN 18 AUG 22	 1.40 1.30	20 20 20 20	12 9 9 7

DATE TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
AUG										
22 0859	SPLITTER BLANK							<.2		
22 0900	FIELD BLANK							.4		
22 1020	ENVIRONMENTAL	<13	63.3	E.04	21	.09	<.8		1.3	800

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG											
22						<.06				<1	
22	<.08			<.01		. 35				10	
22		<1	104		E.01		2	.4	<.05		6

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

DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)	DATE	TIME	COLI- FORM, FECAL, EC BROTH (MPN)	E COLI, MTEC MF WATER (COL/ 100 ML)	ENTERO- COCCI, ME MF, WATER (COL/ 100 ML)
JUN		(31615)	(31633)	(31649)	ராட		(31615)	(31633)	(31649)
05	0935	<20	<100	100	02	0955	<20	<100	20
12	0934	40	<100	360					
19	0938	330	100	260					
26	0933	<20	<100	20					

Remark codes used in this report: < -- Less than E -- Estimated value

01413013 BARRETT RUN AT BRIDGETON, NJ

LOCATION.--Lat 39°26'46", long 75°14'52", 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. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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													
06 FEB	0900	9.6	.078	.064	764	83	9.3	7.1	180	15.2	10.5	52	10.5
14 MAY	1000	10	.054	.043	774	91	11.8	7.4	165	-1.5	5.0	51	10.3
23 SEP	1000	44			766	98	9.5		128	15.5	17.0	42	9.03
04	1000	7.2	.082	.062	760	84	7.2	7.6	152	24.0	23.0	46	8.75
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)
DEC													
06 FEB	6.37	3.29	6.49	18	18.1	<.1	7.4	18.2	98	94	.050	.26	.090
14 MAY	6.19	2.56	8.59	14	20.9	<.1	6.6	18.0	94	98	.030	.16	.040
23 SEP	4.78	3.82	4.53	18	11.6	E.1	1.1	13.4	85	69	.160	.48	.170
04	5.88	3.72	6.03	17	15.1	E.1	1.3	20.0	84	75	<.030	.31	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
06 FEB	2.80	.010	3.1	.13	.004		.032	1.0	<.1	2.1	1.0	E1.5	
14 MAY	3.73	.012	3.9	.14	.004	<.020	.028	.9	<.1	1.7	.8	2.8	
23 SEP	2.24	.036	2.7	.23	.011	<.020	.153	1.4	<.1	3.4	1.4	2.4	29.1
04	.91	.013	1.2	.23	.013	<.020	.049	1.5	<.1	3.6	1.5	2.5	24.9

Remark codes used in this report:

< -- Less than E -- Estimated value

COHANSEY RIVER BASIN

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 06 FEB 14 MAY 23 SEP 04	10 10 20 20	11 14 17 13

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 UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD 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	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLIRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLIRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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 1	3 4	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2		
	-		~•4	~•4	~•-	~•±	~• -	~•±	~• +	~•4	~•4		

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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 23	1000	.020	1.11	<.005	.043	<.010	E1.58	<.005	.465	E.003	E.022	.127	.012

COHANSEY RIVER BASIN

01413013 BARRETT RUN AT BRIDGETON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 23	<.004	.304	<.027	E.151	.639	.037	.009	<.022	E.01	<.011	.266	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	T C C						

MAY 23... <.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				
05	0946	300	<100	70	02	1005	40	<100	30
12	0955	80	<100	80					
19	0955	20	100	10					
26	0945	20	<100	<10					

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, at tollbridge (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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 FEB	1030	1470	.6	.042	.032	758	100	12.4	7.4	96	16.0	6.0	26
20 JUN	1030	2480	1.0	.050	.039	753	98	13.1	7.2	89	6.0	3.0	22
19	1030	6630	2.8	.127	.097	760	89	8.3	7.3	81	26.0	18.5	20
07	1100	2170	1.7	.061	.046	754	105	8.8	7.4	102	20.0	23.5	27
		NA CIVIT	DOM3 4		ANC	<i></i>	-			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													
15	7.67	1.70	.85	6.52	20	11.5	<.1	.9	6.9	56	49	<.030	.13
FEB													
20	6.65	1.37	.69	6.12	12	10.9	<.1	2.4	8.2	52	45	<.030	.12
JUN													
19	6.13	1.20	.63	6.21	14	9.70	<.1	2.4	6.8	40	42	<.030	.18
AUG													
07	7.87	1.77	.85	7.69	19	12.6	<.1	1.2	7.5	71	51	<.030	.18
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN

		NITRO-	NTIRO-		NTIRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXIGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
15	.030	.24	<.003	.36	.05	E.003		.006	.4	<.1	2.0	.4	<1.0
FEB													
20	<.030	.24	.004	.35	<.02	.006	<.020	.008	.3	<.1	1.8	.3	<1.0
JUN													
19	.040	.10	<.003	.28	.04	.013	<.020	.026	.5	<.1	3.6	.5	<1.0
AUG													
07	<.030	.16	<.003	.35	.06	.016	<.020	.023	.5	<.1	2.5	.5	<1.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32202)	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	
	(32209)	(01020)	(00550)	
NOV				
15		E10	2	
FEB				
20		E7	2	
JUN				
19	1.80	E9	<1	
AUG 07	1.00	E 9	1	
• • • • • •	2000		-	

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				
08	1025	<20	<100	20	05	1037	40	<10	<100
15	1030	110	100	110					
22	1015	20	<100	<10					
29	1020	1300	500	890					

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
06 FEB	1100	12	.5	.042	.032	754	102	12.2	8.1	263	13.0	7.0	100
06	1100	45	.6	.044	.033	760	99	14.4	7.8	198	2.0	.0	68
JUN													
19	1045	88	1.2			762	108	10.5	7.9	175	22.0	16.5	63
SEP													
10	1030	10	.4	.044	.034	750	109	10.0	8.2	289	25.0	18.5	120
					ANC					COT TOC	COT TOC	NTTPO-	NTTDO-

					ANC					SOLLDS,	SOLIDS,	NIIRO-	NTIRO-
		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)
DEC													
06	28.3	7.27	.67	11.0	82	19.5	<.1	3.9	18.4	152	138	<.030	.11
FEB													
06	19.1	5.04	.60	9.10	54	15.5	<.1	4.3	15.4	112	102	<.030	.13
JUN													
19	18.6	4.11	.45	8.29	53	13.1	<.1	4.1	10.4	98	91	<.030	.13
SEP													
10	33.3	8.34	.72	11.8	95	19.2	<.1	1.1	19.1	155	150	<.030	.12
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON	CARBON		CARBON	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
06	<.030	<.04	<.003		<.02	<.004		.004	.3	<.1	1.8	.3	E1.2
FEB													
06	<.030	.09	.002	.22	<.02	<.004	<.020	E.002	.2	<.1	1.7	.2	<1.0
JUN													
19	<.030	.04	<.003	.17	<.02	.010	<.020	.025	.2	<.1	3.3	.2	<1.0

.004

.020

.008

<.1

<.1

1.7

<.1

<1.2

Remark codes used in this report:

<.030 <.04

<.003

-- .04

< -- Less than
E -- Estimated value</pre>

SEP

10...

01440000 FLAT BROOK NEAR FLATBROOKVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	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				
06		<10	2	
FEB				
06		E10	<1	
JUN				
19	1.60	<10	5	
SEP			_	
10	1.00	E10	7	

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				
08	0945	20	100	20	05	0949	70	100	50
15	0945	<20	<100	70					
22	0930	<20	<100	30					
29	0935	500	600	310					

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.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, 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 .-- Background, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
07	1000	.59	.6	.022	.017	755	89	10.5	6.7	40	16.5	8.0	14
FEB													
06	1010	8.6	.6	.018	.014	764	103	14.7	5.5	31	3.0	1.0	11
MAY													
15	1020	9.7	1.0	.024	.017	753	100	11.3	6.6	33	13.5	9.5	11
AUG													
05	1340	.63	.4	.022	.017	747	98	8.8	7.4	40	27.0	19.5	14

					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) (00925)	AS K)	AS NA)	(90410)	AS CL)	AS F) (00950)	(00955)	AS SO4)	(MG/L)	(MG/L) (70301)	AS N) (00608)	AS N)
	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(70301)	(00008)	(00023)
NOV													
07	3.61	1.27	.50	.99	9	1.41	<.1	4.7	7.2	30	25	<.030	E.07
FEB													
06	2.77	1.04	.36	.74	5	1.30	<.1	4.1	8.0	26	21	<.030	<.10
MAY													
15	2.81	1.01	.44	.76	5	1.17	<.1	4.2	8.3	19	22	<.030	E.06
AUG													
05	3.64	1.31	.57	.96	8	1.43	<.1	5.5	7.0	29	26	<.030	E.07
		NTTRO-	NTTRO-	NTTRO-		ORTHO-		CARBON.	CARBON.		CARBON.	OXYGEN	CHI ORO-
	NTTRO-	GEN.	GEN .	GEN . PAR	PHOS-	PHOS-		TNORG +	TNOR-	CARBON.	ORGANIC	DEMAND.	PHYLL A
	GEN.	NO2+NO3	NITRITE	TICULTE	PHORUS	PHATE.	PHOS-	ORGANIC	GANIC.	ORGANIC	PARTIC-	BIO-	FLUORO-
	AMMONIA	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC
	TOTAL	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	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)	AS N)	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)
	(00610)	(00631)	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)
NOV													
07	.100	<.04	.004	.06	<.004		E.002	.2	<.1	1.1	.2	<1.0	
FEB													
06	<.030	E.02	.002	.04	<.004	<.020	<.004	.2	<.1	.8	.2	<1.0	

<.020

<.020

E.002

.006

.7

.5

<.1

<.1

1.1

1.0

.7

.4

2.4

E1.3

.300

.100

.004

.007

Remark codes used in this report:

<.04

.29

<.030

<.030

<.003

<.003

<.02

.05

MAY 15...

AUG

05...

< -- Less than E -- Estimated value

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

RESIDUE

			DAT	E	DIS- SOLVED (UG/L AS B) (01020)	AT 105 DEG. C, SUS- PENDED (MG/L) (00530)						
			NOV 07	· · · ·	<10	<1						
			FEB 06		E7	5						
			MAY 15		<10	c 1						
			AUG			~1						
			05	•••	E7	1						
TIME	SAMF TYF	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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)
1340 1340	ENVIRONM BED MATE	IENTAL ERIAL		 5.90	 880	 7.6	 <.2	<2 	18.2	E.03	23	.05
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)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)
<.8	.7	E10	<1	E2.7	<.01	2	<.4	<.05	10			
										<1	.305	5.3
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)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)
5.3	7	12000	9.7	330	<.01	11	<1	74	<50	<50	<50	<50
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)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)
 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <50
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)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)
	TIME 1340 1340 1340 CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034) <.8 COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CC) (01038) 5.3 ACENAPH THYLENE SED, EM WS,<2MM DW, REC (UG/KG) (49403)	SAME TIME TYP 1340 ENVIRONN 1340 BED MATH RECOV- RECOV- REABLE ERABLE (UG/L (UG/L (UG/G COPPER, RECOV- RECOV. RECOV- RECOV. RECOV- RECOV. FM BOT- FM BOT- TOM MA- TOM MA- TERIAL TERIAL (UG/G (UG/G (UG/G (UG/G (DIMSEN TON MA- SED, EM METHIL SED, EM SED, EM WS, <2MM	SAMPLE TIME TYPE 1340 ENVIRONMENTAL 1340 BED MATERIAL 1340 BED MATERIAL CHRO- TOTAL MIUM, COPPER, TOTAL TOTAL TOTAL TOTAL RECOV- RECOV- ERABLE ERABLE ERABLE ERABLE (UG/L (UG/L (UG/L (UG/L (01034) (01042) (01034) (01042) (01034) (01042) (01034) (01042) (UG/G UG/G COBALT, COPPER, RECOV. RECOV. FM BOT- FM BOT- TERIAL TERIAL MOM MA- SEDITT, TOM MA- SEDITT, TOM MA- SEDITT, TERIAL BED MA- (UG/G UG/G (01038) (01043) (01038) (01043) (01038)	NOV 07 FEB 06 MAY 1340 1340 ENVIRONMENTAL 1340 ENVIRONMENTAL 1340 BED MATERIAL CHRO- MIUM, COPPER, IRON, LEAD, TOTAL TOTAL TOTAL TOTAL RECOV- RECO	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	DATE (UG/L AS B) (01020) NOV 07 <10	DATE (UG/L) PENED AS B 0 (MG/L) NOV 07 410 41 PEB 06 F7 5 06 F7 5 MAT 05 F7 1 NTTRO- CARBON, 05 F7 1 NTTRO- CARBON, 005 F7 1 NTTRO- CARBON, 005 F7 1 NTTRO- CARBON, 005 F7 1 NTME TYPE BED MAT BOT MAT BOT MAT BOT MAT 005 AS CO (70310) 006261) UG/C TOTAL	DATE (UG/L) PENNED (01220) PENNED (00530) NOV 07 cl0 cl PES 06 E7 BAY 15 cl0 cl AUG 05 E7 1 MAY 15 cl0 cl BAG 05 E7 1 MUTRO- CABBON, CABDON,	DATE (UG/L PENNEE (10.020) (COS30) NOV 07 CL0 CL COS30) NOV 07 CL0 CL FE 06 E7 5 MAX IS CL0 CL 05 E7 1 TIME SAMPLE NITEO- CABBON, CABBON, CABBON, SIN MAX CABBON, CABBON, INCA- DOCAMT MEINTCO- NITEO- CABBON, CABBON, CABBON, CABBON, TOTAL TIME SAMPLE TYPE BED NAT FOR TAT FOR TAT FOR TAT FOR TAT TOTAL TOTAL NITEO- COSCO, AS CO AS CO 1340 ENVIRONMENTAL 1340 ENVIRONMENTAL 1340 ENVIRONMENTAL CRO- MUM, COPPER, IRON, IBAD, MARCE EAAL, BAS MARE CONARD, BAS MAN AS CO SEL CRO- CRO-L UG/L UG/L UG/L UG/L UG/L UG/L UG/L	DATE (UG/L PENDED AS B) (MS/L) (10220) (109530) 07 410 41 FEB 5 77 1 THE SAMPLE SAMPLE TFFE (1000) SAMPLE SAMPLE SAMPLE (1000) SAMPLE (1000) SAMPLE SAMPLE SAMPLE (1000) SAMPLE SAMPLE (1000) SAMPLE SAMPLE SAMPLE (1000) SAMPLE SAMPLE SAMPLE (1000) SAMPLE SAMPLE SAMPLE SAMPLE (1000) SAMPLE SAMPLE SAMPLE SAMPLE (1000) SAMPLE SAMPLE SAMP	DATE (U0/L) PENERD AS B) (16/21) (10/22) (10/23) (10/22) (10/23) (10/22) (10/23) (10/22) (10/23) NOV 07 410 - 41 NT - 77 5 NAY 15 410 - 41 NT - 77 1 NITEO- CARBON, CARBON, CARBON, BANJUR, BOTH, JAN 15 47 1 NITEO- CARBON, CARBON, CARBON, BANJUR, JAN 100, JAN 100, JAN 100, JAN 100, JAN 100, JAN 100, JAN 100, JAN 100, JAN 1140 ENTIFICIENT LINE, JAN 1140 ENTIFIC LINE, JAN 1140 ENTIF	DATE (DO/L) PERSED (0.322) (G0/20) (G0/20) NOV DO

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

					DATE	BED MAT. FALL DIAM. % FINE THAN .004 M (80157	BED MAT. SIEVE DIAM. R % FINE THAN M .062 M (80164	R M M					
				2	UG 05 05	 2	 6						
DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
7EB 06	1010	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 UNFLIRD 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 UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2

		PHOLEY/							
	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
06	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, 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)
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
MAY													
15	1020	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002
		T TN		MERTINA			NADDOD	DEMOT		DBO		ment	men
		LIN-		METHYL		METOT	NAPROP-	PENDI-	DDO	PRO-	CT.	TEBU-	TER-
		WATED	MAT A_	AZIN-	METO-	DUTTN	WATED	ALTN	PRO-	WATED	DI- MAZINE	WATED	WATED
	T.TNDANE	FLTED	THION	WAT FLT	LACHLOP	SENCOR	FLTER	WAT FLT	WATER	FLTED	WATED	FLTED	WAIER FLTPD
	DTG-		DIS-		WATED	WATED		0 7 11	DTSS		DISS		
DATE	SOLVED	GF. REC	SOLVED	GF. REC	DISSOLV	DISSOLV	GF. REC	GF. REC	REC.	GF. REC	REC.	GF. REC	GF. REC
21112	(UG/L)	$(\Pi G/T_{\rm I})$	(UG/L)	$(\Pi G/T_{\rm L})$	$(IIG/I_{\rm I})$	$(IIG/I_{\rm I})$	(IIG/I_{L})	$(IIG/I_{\rm I})$	(IIG/I_{1})	$(IIG/I_{\rm I})$	$(\Pi G/T_{\rm L})$	(IIG/I_{L})	$(\Pi G/I_{1})$
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
N7.57													
15	< 004	< 035	< 027	< 050	< 013	< 006	< 007	< 022	- 01	< 011	< 005	< 02	< 034
13	<.001		<.027	< . 050	< . 015	<.000	<.007	~.022	< . 01	<.011	< . 005	<.0Z	<.0J4

Remark codes used in this report: < -- Less than

FEB

FEB

01442760 DUNNFIELD CREEK AT DUNNFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	TRI-
	FLUR-
	ALIN
	WAT FLT
	0.7 U
DATE	GF, REC
	(UG/L)
	(82661)
MAY	
15	<.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	0915	20	<100	120	07	0915	<20	<100	30
17	0915	<20	<100	50					
24	0850	<20	<100	410					
31	0905	<20	<100	70					

Remark codes used in this report: < -- Less than

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 FEB	1130	1540	.4	.039	.030	757	109	13.5	7.8	110	20.5	6.0	32
06	1250	4440	2.2	.066	.050	764	102	14.8		92	9.5	.5	23
MAY													
29 AUG	0930	16400	18	.118	.090	760	99	9.4	7.7	89	22.0	17.5	23
05	1030	1860	.8	.063	.047	747	100	7.6	8.6	116	31.0	28.5	32

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													
15	9.51	1.98	.86	7.29	25	12.7	<.1	.8	8.5	60	57	.040	.12
FEB													
06	7.07	1.40	.72	7.20	12	12.6	<.1	3.4	8.6	56	50	<.030	.12
MAY													
29	7.01	1.43	.62	6.40	15	10.6	<.1	2.2	8.3	49	46	<.030	.20
AUG													
05	9.44	1.95	.82	8.36	22	13.3	<.1	1.3	8.4	62	58	<.030	.21

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 15	.040	.17	<.003	.29	.04	.008		.011	.3	<.1	1.8	.3	2.4
06 MAY	<.030	.41	.002	.53	<.02	.008	<.020	.015	.5	<.1	2.3	.5	<1.0
29 AUG	<.030	.12	<.003	.31	.44	<.05	<.020	.06	1.8	<.1	3.4	1.8	<1.0
05	<.030	.12	<.003	.33	.06	.025	<.020	.031	.4	<.1	2.4	.4	<1.0

Remark codes used in this report:

< -- Less than

01443000 DELAWARE RIVER AT PORTLAND, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 15 FEB 06 MAY 29 AUG 05	 5.30 1.60	E10 E8 E8 20	3 3 26 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)
JUL					AUG				
10	0935	80	<100	20	07	0930	40	<100	140
17	0950	<20	<100	30					
24	0925	<20	<100	400					
31	0930	40	<100	50					

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ

LOCATION.--Lat 41°05'08", long 74°41'58", Sussex County, Hydrologic Unit 02040104, at bridge on Warbasse Junction Road (County Route 663) at Warbasse, 0.9 mi southwest of Lafayette, and 1.3 mi east of unnamed pond.

DRAINAGE AREA.--11.4 mi².

PERIOD OF RECORD. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 04	1100	2.3	.163	.120	755	64	8.2	7.7	871	12.0	4.5	280	70.6
14	1100	2.6	.210	.152	760	82	11.8	7.7	862	-2.0	.5	240	66.1
MAY 06 SEP	1030	5.4	.372	.276	754	64	6.6	7.5	627	20.0	13.5	190	51.1
04	1030	1.7	.240	.175	745	32	2.8	7.5	740	26.0	21.0	210	56.1
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)
DEC 04	25.1	5.75	59.9	207	115	.1	7.1	56.6	502	478	.070	.66	.080
FEB 14 MAY	18.1	3.84	70.7	150	132	E.1	5.1	57.0	478	457	<.030	.61	.080
06	14.0	2.40	50.4	128	89.2	E.1	3.4	39.6	362	334	.120	.88	.110
04	16.9	4.45	67.3	164	106	.2	6.9	33.7	417	402	.086	.77	.095
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
04 FEB	3.09	.022	3.8	.05	.058		.085	.8	<.1	5.7	.8	E1.1	
14 MAY	2.88	.009	3.5	.07	.125	.075	.178	.8	<.1	7.5	.8	2.1	
06 SEP	1.50	.021	2.4	.21	.052	.030	.094	1.9	<.1	10.6	1.9	2.2	4.60
04	2.64	.099	3.4	.14	.081	.057	.125	.9	<.1	8.3	.9	E1.1	14.4

Remark codes used in this report:

< -- Less than E -- Estimated value

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 04 FEB 14 MAY 06 SEP 04	80 50 40 90	11 8 10 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 UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD 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	.2	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)
FEB 14	<.1	E.2	1.0	.1	.4	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.6
	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 1	3 .4	<.2	<.2	<.1	<.1	.9	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 06	1030	<.006	<.004	<.005	.011	<.010	<.041	<.005	<.018	<.003	E.006	<.005	<.002

01443250 PAULINS KILL AT WARBASSE JUNCTION ROAD, NEAR LAFAYETTE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
06	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	E.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л , ;с						

MAY 06...

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

<.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				
08	1045	400	<100	40	05	1045	500	100	150
15	1015	3000	200	180					
22	1135	170	100	120					
29	1025	5000	4700	3900					

01443500 PAULINS KILL AT BLAIRSTOWN, NJ

LOCATION.--Lat 40°58'51", long 74°57'14", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1100	26	1.7	.096	.072	761	96	12.5	8.3	600	7.0	4.0	220
21 MAY 28	1100	43 157	2.6 4.2	.095	.106	748	101	9.5	8.3 8.1	423	10.0 24.0	6.5 18.0	190 150
AUG 29	1000	26	5.6	.123	.092	758	71	6.5	8.3	515	21.0	19.5	200

					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													
14	51.1	22.3	2.29	35.6	187	72.7	.1	1.0	29.2	324	327	.030	.28
FEB													
21	48.5	17.8	1.82	38.2	144	73.9	E.1	4.0	35.9	326	310	<.030	.27
MAY													
28	37.9	13.3	1.16	25.0	123	45.8	E.1	1.6	19.5	248	219	<.030	.29
AUG													
29	47.2	20.2	1.70	35.2	166	66.1	E.1	2.5	21.4	315	299	.033	.43

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
14	.030	.07	<.003	.36	.08	.009		.022	.6	<.1	3.7	.6	E1.7
FEB													
21	<.030	.69	.008	.96	.08	.006	<.020	.022	.6	<.1	3.4	.6	<1.0
MAY													
28	<.030	.33	<.003	.62	.12	.011	<.020	.030	.9	<.1	4.5	.9	E1.6
AUG													
29	.045	1.25	<.003	1.7	.06	E.03	<.020	E.05	.6	<.1	5.1	.6	<1.0

Remark codes used in this report:

< -- Less than

E -- Estimated value

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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 1	7 .4		20	7					
				FEE 2	3 21		10	4					
				MAY 2	<u>.</u> 8	9.20	20	<1					
				AUG	} 9	6.40	20	15					
DATE	TIME	SAME TYP	PLE PE	-	PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 29 29	1000 1100	ENVIRONM BED MATE	IENTAL RIAL		 7.30	 210	 3200	 5.1	 1.7	E1 	19.9 	<.06 	27
DATE	CADMIUM WATER UNFLIRD 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 29 29	<.04 	<.8 	2.2	260 	<1 	72.9	<.01 	<1 	<.4 	<.05 	7 	 <1	.042
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													
29 29	 5.4	 1.7	 6	 12000	 6.6	 180	 <.01	 3.6	 <1	 34	 <50	 <50	 E2
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 29 29	 <50	 E7	 E13	 E13	 E24	 E25	 E21	 E6	 E20	 E24	 E10	 E42	 E22
DATE	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)
AUG													
29	<50	<50	== E6	E3	 E7	<50	E6	<5	<50	=- E13	E26	<50	E9

01443500 PAULINS KILL AT BLAIRSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		BED	BED
		MAT	MAT
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
29			
29	E35	1	2

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	0850	40	<100	110	07	0815	220	600	80
17	0835	140	200	100					
24	0815	9000	2600	3100					
31	0835	80	100	330					

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. -- Water year 2001 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 FEB	0930	.16	8.1	.014	.012	750	100	11.5	7.7	472	18.0	8.5	220
14 МАҮ	0950	.09	.5	.012	.008	755	97	13.6	8.0	488	1.0	1.0	230
15 AUG	1320	8.9	3.0	.157	.117	748	110	10.8	7.7	373	20.0	15.5	140
08	0930	.68	.8	.013	.010	751	105	10.5	7.7	515	25.0	14.5	250
					7.110							NTTDO	NTTDO

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)	MITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
15 FFB	53.4	21.7	1.58	10.5	215	19.9	<.1	7.8	19.9	260	272	.040	E.07
14 MAY	54.7	22.5	1.29	10.1	205	22.0	E.1	7.1	20.9	272	270	<.030	E.06
15 AUG	36.4	12.7	1.29	17.0	119	33.1	<.1	3.4	19.1	215	196	<.030	.38
08	59.8	23.2	1.45	16.0	206	26.9	E.1	7.6	21.2	287	287	<.030	E.07
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
15 FEB	.030	1.82	.004		.09	E.003		.021	.7	<.1	.8	.7	E1.0
14 MAY	<.030	1.76	<.003		<.02	E.002	<.020	E.003	.3	<.1	.7	.2	E1.6
15	<.030	.32	.003	.70	<.02	.020	<.020	.032	.7	<.1	5.2	.7	<1.0
08	<.030	1.70	.003		.03	E.003	<.020	.004	.4	<.1	.8	.4	E1.1

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DAT	те	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			10	15					
				FEB 14			10 F8	12					
				MAY		6 50	 F8	4					
				AUG 08	···· }	.800	10	3					
DATE	TIME	SAME TYE	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. (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 08 08	0930 0930	ENVIRONN BED MATE	MENTAL ERIAL		7.30	 650	 5500	 8.7	2	<2 	7.1	<.06	11
DATE	CADMIUM WATER UNFLIRD 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 08 08	<.04 	<.8 	E.5 	30 	<1 	5.0	<.01 	2 	E.3 	<.05 	2 	 1	.082
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 08 08	 14	 4.0	 8	 26000	 12	 550	 <.01	 10	 <1	 59	 <50	 <50	 <50
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 08 08	 <50	 <50	 <50	 <50	 120	 120	 110	 72	 89	 150	 <50	 290	 86
DATE	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)
AUG 08	 <50	 <50	 <50	 <50	 <50	 <50	 <50	 <5	 <50	 <50	 240	 <50	 <50
•													

01445160 BEAR BROOK AT DARK MOON ROAD, NEAR JOHNSONBURG, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

BED
MAT.
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0164)
14

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	0830	<20	<100	20	07	0800	<20	<100	60
17	0815	170	100	120					
24	0800	40	<100	250					
31	0815	<20	<100	760					

Remark codes used in this report: < -- Less than

01445900 HONEY RUN NEAR HOPE, NJ

LOCATION.--Lat 40°53'33", long 74°58'42", 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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
20	1000	2.6	.120	.096	752	71	9.0	8.0	407	9.0	5.0	180	42.8
19	1015	1.7	.075	.057	758	95	13.6	8.0	402	2.0	.6	150	38.7
MAY 21	0930	1.4	161	121	757	88	10.1	7.8	350	12.0	9.0	140	34.8
AUG	0550	1.1		.121	, 57	00	10.1	7.0	550	12.0	5.0	140	54.0
08	1000	3.7	.163	.124	756	40	3.7	7.8	421	22.0	18.5	200	47.5
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)
NOV	17 1	2 47	11 0	196	22.0	. 1	F 7	14.0	220	222	040	07	005
FEB	1/.1	2.4/	11.2	1/0	22.9	<.1	5.7	14.9	228	223	.040	•27	.085
19 MAY	12.8	1.36	16.7	110	35.8	<.1	1.9	36.2	220	210	<.030	.17	<.030
21	12.2	.78	17.1	112	30.0	E.1	4.1	19.4	219	186	<.030	.30	.030
08	20.0	1.84	15.1	185	25.0	E.1	12.3	8.5	253	241	<.030	.33	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
20	E.04	<.003		.05	.024		.035	.4	<.1	4.7	.4	2.2	
гње 19 Мау	.07	.003	.24	.04	.005	<.020	.011	.3	<.1	2.9	.3	E1.3	
21 AUG	.10	<.003	.40	<.02	.014	<.020	.021	.2	<.1	4.5	.2	E1.1	2.10
08	E.03	<.003		.09	.075	.051	.100	.5	<.1	4.7	.5	<1.0	5.00

Remark codes used in this report:

< -- Less than E -- Estimated value

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 20 FEB 19 MAY 21 AUG 08	E10 <13 10 10	5 4 <1 8

FEB 19 1015 <.1 <.1 <.2 <.1 <.1 <.1 <.1 <.1 <.2 19 1015 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.2 19 1015 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.1 <.2 CHLORO- CHLORO- DI- DI- DI- ETHER TERT- TER	CHLO- RIDE TOTAL (UG/L) (32102)
CIS-1,2 DI- DI- DI-SO- ETHER ETHER ETHER I CHLORO- -DI- BROMO- CHLORO- PROPYL- ETHER TERT- TERT- TERT- TREON- DI- CHLORO- DI- DI- ETHER, ETHER, BUTYL PENTYL 113 CHLORO- BROMO- CHLORO- FILORO- FLUORO- WATER, WATER ETHYL WATER WATER BENZENE METHANE FORM WATER METHANE UNFLIRD UNFLIRD UNFLIRD BENZENE UNFLIRD UNFLIRD BENZENE UNFLIRD UNFLIRD BENZENE UNFLIRD UNFLIRD BENZENE UNFLIRD UNFLIRD UNFLIRD UNFLIRD UNFLIRD ENCOVER ECOVER RECOVER NECOVER RECOVER NECOVER NECOVER </th <th><.2</th>	<.2
	METHYL TERT- BUTYL ETHER VAT UNF REC (UG/L) (78032)
FEB 19 <.1 <.2 <.1 <.1 <.2 <.2 <.2 <.1 <.2 <.1 <.1 <.1	<.2
META/ METHYL PARA- O- TETRA- TRI- TRI- ENE XYLENE XYLENE CHLORO- CHLORO- CHLORO- VINYL CHLO- WATER WATER ETHYL- ETHYL- FLUORO- CHLO- RIDE UNFLTRD WHOLE STYRENE ENE TOLUENE ENE METHANE RIDE DATE TOTAL REC TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (34423) (85795) (77135) (77128) (34475) (34010) (39180) (34488) (39175)	
FEB 19 <.2 <.1 <.1 <.1 <.1 <.2 <.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 21	0930	<.006	<.004	<.005	E.007	<.010	<.041	<.005	<.018	<.003	E.005	<.005	<.002

01445900 HONEY RUN NEAR HOPE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
21	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л С						

MAY 21... <.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	1010	300	<100	500	07	1020	170	600	200
17	1022	230	600	380					
24	1020	3000	17000	3300					
31	1020	1400	1200	1450					
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.

- REMARKS .-- For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00601), and total particulate nitrogen (49570).
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Dislocient Mention Laboratories and Chemical Laboratories, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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
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													
07	1300	31	1.3	.058	.045	755	133	15.4	8.7	558	19.0	8.5	250
14 MAY	1250	56	1.7	.095	.070	755	126	17.3	8.6	575	5.0	2.0	240
29	1130	293	49	.248	.191	760	103	9.7	8.0	415	24.0	18.0	170
AUG 20	0940	19	1.0	.075	.059	753	106	9.2	8.4	553	24.0	21.5	240
	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 +

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ITT 4.5 LAB (MG/L AS CACO3) (90410)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	AMMONIA DIS- SOLVED (MG/L AS N) (00608)	MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV													
07 FEB	54.8	27.4	2.30	22.1	227	37.8	<.1	4.4	27.0	330	319	.080	.29
14 MAY	54.8	25.1	1.86	23.3	197	41.1	E.1	4.9	41.6	338	317	.090	.67
29 AUG	41.0	16.7	2.55	14.8	141	29.9	.1	4.9	23.7	243	224	.040	.61
20	51.9	26.4	2.01	21.0	202	37.0	E.1	6.9	27.8	306	300	.050	.30
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
07 FEB	.050	1.47	.012	1.8	.11	.19		.22	.5	<.1	2.4	.5	2.2
14 MAY	.050	1.34	.012	2.0	.07	.067	.037	.086	.8	<.1	4.7	.7	E1.8

.085 .26

.087 .117

.4

6.0 <.1 6.6 5.9 3.0

2.6

.4

<1.0

<.1

1.9 .62 .11

.110

1.6 .04

Remark codes used in this report:

.050 1.26

<.030 1.28

.023

.006

< -- Less than E -- Estimated value

29...

AUG 20...

01446400 PEQUEST RIVER AT BELVIDERE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 07 FEB 14 MAY 29 AUG	 12.8	10 20 10	<1 46
20	2.50	20	2

					BERYL-			CHRO-			
DATE	TIME	SAMPLE TYPE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	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)	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)
AUG 20 20	0939 0940	FIELD BLANK ENVIRONMENTAL	(01002) 	15.1	<.06	18	 E.02	(01034) <.8	<.2 	 1.2	30

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG											
20	E.08			<.01		<.06				1	
20		<1	9.8		<.01		1	<.4	<.05		4

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	0950	500	100	400	07	1000	500	<100	160
17	1000	800	600	230					
24	1000	500	600	610					
31	1000	230	400	360					

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'32", long 75°11'20", 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. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Dislocient Mention Laboratories and Chemical Laboratories, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1050	87	1.9	.036	.028	775	82	10.7	8.2	466	15.0	5.0	180
07 May	0950	99	4.4	.042	.032	757	106	14.2	7.8	473	3.0	3.0	170
28	1000	196	7.0	.076	.057	764	108	10.1	8.0	378	24.0	18.5	120
12	0940	51	2.2	.039	.030	760	94	8.3	7.8	468	29.5	21.5	190
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													
13 FEB	38.4	21.1	2.04	23.3	152	45.8	<.1	5.7	22.4	256	262	.040	.35
07 MAY	36.5	18.6	1.87	27.9	125	55.6	<.1	8.2	24.6	268	259	<.030	.83
28	28.5	13.0	1.49	23.7	94	48.6	E.1	6.2	16.3	220	201	.040	.40

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
13	.090	2.61	.012	3.0	.09	.004		.012	.4	<.1	2.7	.4	3.0
07	<.030	2.48	.007	3.3	.09	.014	<.020	.034	.9	<.1	2.3	.9	<1.0
MAY 28	<.030	1.61	.008	2.0	.12	.018	<.020	.038	1.2	۲.1	2.8	1.2	<1.1
AUG		1.01		2.0	• • • •	.010			1.1	~	2.0	1.1	~
12	<.030	2.72	.054	3.1	.06	.029	.027	.043	.5	<.1	2.1	.5	<1.0

40.1

E.1

8.9

21.8

260

252

<.030

.38

Remark codes used in this report:

38.5

21.8

1.53

20.0

145

< -- Less than E -- Estimated value

AUG

12...

01457400 MUSCONETCONG RIVER AT RIEGELSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)
	(32209)	(01020)	(00530)
NOV			
13		20	4
FEB			
07		30	4
MAY			
28	1.50	20	5
AUG 12	1.80	20	6

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)
ராட					AUG				
10	0915	130	100	190	07	0925	300	<100	130
17	0935	220	400	270					
24	0915	230	16000	430					
31	0910	130	100	230					

Remark codes used in this report: < -- Less than

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'40", long 75°11'25", 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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 05	1030	4100	1.8			767	90	10.5	7.7	187	15.0	9.0	60
ГЕВ 26 МАЧ	1045	4470	1.1	.046	.035	755	91	11.0	7.8	176	10.0	7.0	52
21 SEP	0945	23900	6.8	.123	.093	766	94	10.4	7.4	114	11.0	11.0	33
05	1000	E3000	1.9	.059	.045	760	81	7.0	8.0	210	23.0	22.5	69

					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)
DEC													
05	15.4	5.18	1.36	11.4	39	17.0	.1	3.1	17.2	106	99	.030	.38
FEB													
26	13.5	4.55	1.15	11.2	35	16.5	<.1	2.6	16.6	86	91	<.030	.15
MAY													
21	8.69	2.70	.75	7.63	21	11.3	E.1	3.3	10.4	76	63	<.030	.21
SEP													
05	17.8	6.06	1.63	10.2	49	19.5	E.1	3.1	17.1	110	109	<.030	.22

		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
DEC													
05	.030	.96	.009	1.3	.07	.074		.089	.7	<.1	2.5	.7	<1.0
FEB													
26	<.030	.86	.006	1.0	.04	.056	.030	.066	.4	<.1	1.9	.4	E1.8
MAY													
21	<.030	1.37	<.003	1.6	.18	.021	.023	.049	1.6	<.1	3.4	1.6	<1.0
SEP													
05	<.030	.92	.006	1.1	<.02	.094	.074	.103	.3	<.1	2.5	.3	<1.0

Remark codes used in this report:

< -- Less than

E -- Estimated value

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 05 FEB 26 MAY 21 SEP 05	 4.00 .600	20 E10 <10 20	4 18 11 6

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	0900	80	<100	10	07	0920	80	<100	100
17	0910	20	<100	30					
24	0910	170	<100	80					
31	0900	70	100	60					

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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													
13	1400	.96	.4	.047	.037	775	44	5.8	8.2	198	15.5	4.5	75
FEB													
07	1230	4.7	.7	.035	.027	757	108	15.0	7.6	236	6.0	1.5	73
MAY													
28	1250	10	2.0	.052	.039	764	122	11.6	8.7	178	25.0	18.0	59
AUG													
12	1220	.93	3.2	.047	.035	759	108	9.4	7.8	212	31.0	22.0	73

			50534		ANC	<i></i>				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													
13	18.9	6.67	1.50	9.44	69	14.3	<.1	6.0	12.2	112	113	.030	.13
FEB													
07	18.2	6.74	1.36	13.5	42	24.9	<.1	9.5	20.1	136	131	<.030	.10
MAY													
28	14.7	5.32	1.62	9.14	41	14.1	E.1	8.0	16.6	114	103	<.030	.14
AUG													
12	18.5	6.53	1.96	9.91	64	13.8	E.1	10.5	13.2	103	117	<.030	.12

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 13	.060	.51	.004	.64	.03	.009		.012	.1	<.1	1.9	.1	E1.8
07 MAY	<.030	2.62	.002	2.7	.04	.018	<.020	.019	.2	<.1	1.3	.2	E1.6
28 AUG	<.030	2.08	.003	2.2	.04	.028	<.020	.033	.3	<.1	1.9	.3	2.0
12	<.030	1.03	.003	1.2	.03	.061	.057	.071	.3	<.1	2.1	.3	<1.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01458570 NISHISAKAWICK CREEK NEAR FRENCHTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	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				
13		40	1	
FEB				
07		40	<1	
MAY				
28	2.80	30	1	
AUG				
12	.900	50	5	

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 09 16 25	0935 0938 0933	40 110 <20	<100 100 <100	1200 210 740	AUG 06	1012	1100	<100	250

Remark codes used in this report: < -- Less than

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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		0.500											
08 FEB	1000	2700	1.1	.046	.035	764			8.1	232	9.0	11.0	77
21 MAY	1000	4660	1.3	.056	.042	754	95	11.5	7.8	164	13.5	6.5	52
14	1000	29000	73	.141	.110	758	87	9.1	7.7	146	14.0	13.0	46
AUG 13	0900	3050	1.5	.061	.045	762	92	7.4	8.1	213	23.5	26.5	78
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLIRD 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													
08	19.1	7.10	1.80	12.8	62	20.0	E.1	.4	17.9	128	120	.080	.25

13.1	4.55
12.1	3.83
19.0	7.40
	13.1 12.1 19.0

1.18

1.56

1.70

11.3

8.06

14.0

35

32

55

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 08 FEB 21 MAY 14 AUG	.030 .060 .040	.93 .92 .84	.003 .007 .006	1.2 1.1 1.2	.05 .03 .08	.068 .053 .059	 .027 .031	.077 .062 .190	.3 .4 .9	<.1 <.1 <.1	2.5 2.2 3.9	.3 .3 .9	E1.8 E1.2 E1.5
13	.040		.008		.07	.092	.094	.120	.2	<.1	3.8	.2	E1.

16.9

12.0

20.1

E.1

E.1

E.1

3.0

4.4

3.1

16.7

13.6

19.4

92

79

--

94

96

134

.040

.030

<.030

.17

. 32

<.10

Remark codes used in this report:

< -- Less than E -- Estimated value

01461000 DELAWARE RIVER AT LUMBERVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 08 FEB 21 MAY 14 AUG 13	 4.30 .500	20 E10 10 <10	<1 9 79 7

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				
09	1028	20	<100	60	06	1040	90	<100	50
16	1010	40	<100	210					
25	1000	70	<100	140					

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 04	0930	.3	.040	.032	769	86	11.1	7.5	214	12.0	5.0	72	17.0
13	0930	1.4	.078	.058	756	98	14.0	7.5	244	3.0	.5	63	15.0
20	0950	15	.331	.259	768	94	9.3	7.5	121	22.0	16.5	35	8.56
29	0930	30	.130	.104	761	88	8.4	7.4	144	18.0	17.5	45	10.1
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)
DEC 04	7.21	1.93	11.0	51	12.0	E.1	13.6	23.7	130	126	<.030	.12	<.030
FEB 13	6.16	2.40	17.9	32	34.4	E.1	8.8	24.6	134	131	<.030	.14	.030
20	3.40	2.59	7.57	28	8.01	E.1	7.5	12.4	81	70	.030	.51	<.030
29	4.68	2.15	8.90	36	9.20	<.1	11.5	11.5	84	88		.26	<.030
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC													
04 FEB	2.01	<.003	2.1	<.02	.032		.035	.2	<.1	1.4	.1	<1.0	
13 JUN	.61	<.003	.75	.16	.011	<.020	.014	.7	<.1	2.7	.7	<1.0	
20 AUG	.68	.003	1.2	.08	.048	<.020	.078	.5	<.1	8.3	.5	<1.0	2.30
29	1.73	<.003	2.0	.07	.099	.089	.140	.6	<.1	3.9	.6	2.9	3.40

Remark codes used in this report: < -- Less than

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 04 FEB 13 JUN 20 AUG 29	E11 20 20 E9	12 3 5 15

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 13	0930	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLIRD 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 13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	DA	лте	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 .3	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 20	0950	<.006	.035	<.005	.600	<.010	E.019	<.005	<.018	<.003	E.101	<.005	<.002

01461282 WICKECHEOKE CREEK NEAR SERGEANTSVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 20	<.004	<.035	<.027	<.050	.222	<.006	E.007	<.022	E.01	<.011	.008	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л СС)						

JUN 20... <.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				
09	1006	230	400	280	06	1107	500	<100	660
16	1031	110	200	320					
25	1020	70	<100	350					

01463500 DELAWARE RIVER AT TRENTON, NJ

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, Hydrologic Unit 02040105, at Calhoun Street Bridge at Trenton, 0.5 mi upstream from Assunpink 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.

DISSOLVED OXYGEN PERCENT SATURATION: October 2001 to September 2002.

pH: June 1968 to current year. Recorded as once daily during 1979.

- SPECIFIC CONDUCTANCE: October 1963 to current year. Recorded as once daily during years 1964 to 1968, 1979.
- SUSPENDED SEDIMENT DISCHARGE: September 1949 to September 1981. WATER TEMPERATURE: October 1944 to current year. Recorded as once daily during years 1945 to 1953, 1962, 1964, 1979.

TURBIDITY: November 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.

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.--Additional nutrient samples on Dec. 6 at 0911, Mar. 6 at 1041, June 17 at 1211, and Sep. 5 at 0931 were collected to fulfill the requirements of the Ambient Stream Monitoring Network. 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 adjustent may be constant over the period 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. 1-16, Feb. 15 to Mar. 26, May 16-22, June 19 to July 2, Aug. 1-14, Aug. 23 to Sep. 3. pH: July 2-22.

TURBIDITY: Oct. 29 to Nov. 1, Feb. 15-28.

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, dissolved orthophosphate, biochemical oxygen demand, and dissolved hexavalent chromium on Dec. 6 at 0912, Mar. 6 at 1042, June 17 at 1212, and Sep. 5 at 0932; and fecal coliform, E. coli, and enterococcus bacteria collected synoptically during the summer months was performed by the New Jersey Department of Health and Senior Serivces, 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.

EXTREMES FOR PERIOD OF DAILY RECORD .--

DISOLVED OXYGEN: Maximum, 20.0. mg/L, Feb. 11, 1989; minimum, 4.0 mg/L, Nov. 9, 1972, Sept. 9, 1995. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 151, Aug. 12, 2002; minimum, 67, July 13, 2002. pH: Maximum, 10.3 units, Aug. 9, 10, 1983; minimum 5.3 units, June 22, 1972. SPECIFIC CONDUCTANCE: Maximum, 468 microsiemens/cm, Jan. 11, 1999; minimum, 63 microsiemens/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. TUREIDITY: Maximum, 460 ntu, May 19, 2000; minimum, <2.0 ntu, on many days in water years 2000-02.

EXTREMES FOR CURRENT YEAR.--DISSOLVED OXYGEN: Maximum, 15.9 mg/L, Jan. 22, 23; minimum, 5.5 mg/L, July 13. DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 151, Aug. 12; minimum, 67, July 13. pH: Maximum, 9.3 units, July 19; minimum, 6.6 units, May 10. SPECIFIC CONDUCTANCE: Maximum, 314 microsiemens/cm, Jan. 24; minimum, 100 microsiemens/cm, June 9. WATER TEMPERATURE: Maximum, 31.5°C, Aug. 4; minimum, 0.0°C, on several days during winter months. TURBIDITY: Maximum, 120 ntu, June 29; minimum, <2.0 ntu, on many days.</pre>

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	TURBID- ITY LAB HACH 2100AN (NTU) (99872)	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)
NOV											
01	0830	ENVIRONMENTAL	2950					770	107	12.4	7.8
06	0910	ENVIRONMENTAL.	3770		4.8	070	054	762	98	11.2	7.6
06	0911	ENVIRONMENTAL.	5770				.054				/.0
06	0912	ENVIRONMENTAL									
JAN	0711										
09	1330	ENVIRONMENTAL	2800					755	112	15.8	7.7
MAR											
06	1040	ENVIRONMENTAL	6630	4.0	4.0	.063	.046	768	108	13.9	8.0
06	1041	ENVIRONMENTAL									
06	1042	ENVIRONMENTAL									
APR											
04	0850	ENVIRONMENTAL	13000					767	100	11.4	7.1
MAY	1000		01 200						100	11 0	<i>с</i> 0
22	1000	ENVIRONMENTAL	21300	11				770	102	11.2	6.9
22 TINI	1001	SPLIT REPLICATE									/.1
17	1015	FTFLD BLANK									
17	1210	ENVIRONMENTAL.	17100		10	117	089	760	102	9.5	7.5
17	1211	ENVIRONMENTAL									
17	1212	ENVIRONMENTAL									
JUL											
10	0930	ENVIRONMENTAL	3900	2.7				756	108	8.6	8.0
SEP											
05	0930	ENVIRONMENTAL	3220	1.7	2.1	.057	.043	758	107	9.0	8.2
05	0931	ENVIRONMENTAL									
05	0932	ENVIRONMENTAL									

DATE	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC UNFLIRD 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)
NOV													
01 DEC	229	11.5	9.5	76	18.7	7.04	1.73	13.1		57	69	22.9	E.1
06	183	16.5	9.5	59	15.0	5.22	1.40	11.1	41	40	48	17.7	<.1
06													
06													
JAN													
09	228	5.5	1.0							45	54	22.4	
MAR													
06	190		5.0	57	14.7	4.81	1.23	11.9	37	35	43	19.6	E.1
06													
06													
APR													
04	128		10.0							21	25	15.3	
MAY	120	14 E	11 E							22	26	11 6	
22	120	14.5	11.5							22	20	11.0	
22	125									21	20	11.0	
17					02	< 008	< 10	< 09				< 30	< 10
17	144		19.0	42	11.2	3,41	1.00	8.68	30			14.4	E 08
17													
17													
JUL													
10 SEP	215	33.0	26.5							49	60	19.9	
05	242		23.5	81	20.3	7.50	1.64	13.4	59	55	67	21.0	E.07
05													
05													

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	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	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
DATE	(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)	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)
	(00955)	(00945)	(70300)	(70301)	(00608)	(00623)	(00610)	(00625)	(00631)	(00613)	(00602)	(00600)	(49570)
NOV													
01 DEC	.45	18.5	124	120	<.04	.21		.23	.74	<.008	.95	.97	
06	2.26	15.8	102	96	E.03	.23		.36	.87	E.005	1.1	1.2	.04
06						.27			.91		1.2		
06					<.030		<.030			.004			
JAN													
09		21.1			E.03			.29	1.36	.008		1.7	
MAR													
06	2.4	16.3	100	96	<.04			.27	.87	.010		1.1	.05
06						.18			.82		1.0		
06					.065		<.030			.005			
APR 04		10 E			- 01			20	60	F 004		00	
04 MAV		12.5			<.04			.20	.00	E.004		.00	
22		11 6			< 04			36	50	< 0.08		86	
22		11 5			< 04			27	50	< 0.08		.00	
.π N		11.5			1.01			.27	.50	1.000		• / /	
17	<.2	<.1	<10		<.04			<.10	<.05	<.008			
17	3.9	11.7	71	75	<.04			.33	.60	E.004		.93	.09
17						.22			.59		.81		
17					.045		<.030			.004			
JUL													
10		17.4			<.04			.29	.71	E.007		1.0	
SEP													
05	3.5	20.0	118	125	<.04			.25	1.06	.017		1.3	.08
05						.22			1.11		1.3		
05					<.030		<.030			.006			

		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN	CHLORO-	OXYGEN	SEDI-	
	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,	PHYLL A	DEMAND,	MENT,	
	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	CHEM-	DIS-	SEDI-
	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	ICAL	CHARGE,	MENT,
	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD	(HIGH	SUS-	SUS-
DATE	(MG/L	5 DAY	CORR.	LEVEL)	PENDED	PENDED						
	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	(MG/L)	(T/DAY)	(MG/L)
	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(00340)	(80155)	(80154)
NOV												
01	.061	.04	.065								5.6	.7
DEC												
06	.067	.05	.085	.5	<.1	2.9	.5			10	38.7	3.8
06	.065											
06								<1.0				
JAN												
09		.07	.087								13.6	1.8
MAR												
06		.03	.060	.5	<.1	2.2	.5			<10	66.2	3.7
06	.038											
06								<1.8				
APR												
04		.02	.058								309	8.8
MAY												
22		E.01	.049								633	11
22		E.01	.049									12
JUN												
17		<.02	<.004									
17		.03	.068	1.0	<.1	3.4	1.0			<10	586	13
17	.040								1 20			
±/		<.020						<1.0	1.20			
10		05	070								25.0	2.4
SEP		.05	.079								35.8	3.4
05		.07	.108	.5	<.1	2.6	.5			10	18.3	2.1
05	.098											
05		.085						<1.0	.800			

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 UNFLIRD 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)
NOV													
01	0830				20								20
DEC													
06	0910	E1	22.3	E.03	20	18	.04	<.8		1.0	1.8	2.0	22
06	0912								<5				
MAR													
06	1040	<2	21.5	E.06	20	14	.07	<.8		E.5	2.6	1.5	
06	1042								<5				
JUN													
17	1210	<2	27.2	E.04	10	11	.08	<.8		<.8	1.3	2.1	
17	1212								<5				
SEP													
05	0930	E1	26.4	<.06	20	23	.12	<.8		<.8	1.7	2.0	
05	0932								<5				

					MANGA-								
	IRON,		LEAD,	MANGA-	NESE,		MERCURY		NICKEL,		SILVER,		ZINC,
	TOTAL	LEAD,	TOTAL	NESE,	TOTAL	MERCURY	TOTAL	NICKEL,	TOTAL	SELE-	TOTAL	ZINC,	TOTAL
	RECOV-	DIS-	RECOV-	DIS-	RECOV-	DIS-	RECOV-	DIS-	RECOV-	NIUM,	RECOV-	DIS-	RECOV-
	ERABLE	SOLVED	ERABLE	SOLVED	ERABLE	SOLVED	ERABLE	SOLVED	ERABLE	TOTAL	ERABLE	SOLVED	ERABLE
DATE	(UG/L												
	AS FE)	AS PB)	AS PB)	AS MN)	AS MN)	AS HG)	AS HG)	AS NI)	AS NI)	AS SE)	AS AG)	AS ZN)	AS ZN)
	(01045)	(01049)	(01051)	(01056)	(01055)	(71890)	(71900)	(01065)	(01067)	(01147)	(01077)	(01090)	(01092)
NOV													
01				5.9									
DEC													
06	100	.08	<1	8.6	19.6	<.01	<.01	.83	1	E.2	<.05	7	13
06													
MAR													
06	110	.10	<1		23.7	<.01	<.01	.94	1	E.3	<.05	5	9
06													
JUN													
17	340	.21	1		63.4	<.01	E.01	.85	1	<.4	<.05	6	16
17													
SEP													
05	60	.12	<1		18.6	<.01	<.01	.58	2	.5	<.05	4	6
05													

							DEINZEINE	DEINZEINE	DEINZEINE			
	1,1,1-		1,1-DI-			TRANS-	1,3-DI-	1,4-DI-	O-DI-			CARBON
	TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
	CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
	ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
0910	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
1040	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
1210	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
0930	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
	TIME 0910 1040 1210 0930	1,1,1- TRI- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506) 0910 <.1 1040 <.1 1210 <.1 0930 <.1	1,1,1- TRI- 1,1-DI- CHLORO- CHLORO- CHLORO- ETHANE ETHANE TIME TOTAL (UG/L) (UG/L) 0910 <.1	1,1,1- 1,1-DI- TRI- 1,1-DI- CHLORO- CHLORO- ETHANE ETHANE TIME TOTAL (UG/L) (UG/L) (UG/L) (UG/L) 0910 <.1	1,1,1- 1,1-DI- TRI- 1,1-DI- CHLORO- CHLORO- ETHANE ETHANE TIME TOTAL TOTAL TOTAL TOTAL TOTAL UG/L) (UG/L) (UG/L) (UG/L) 0910 <.1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

		CHLORO-		CIS-1,2 -DI-	BROMO-	DI- CHLORO-	DI-ISO- PROPYL-	ETHER	ETHER TERT-	ETHER TERT-		FREON-	METHYL TERT-
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)	DI- CHLORO- METHANE TOTAL (UG/L) (32101)	DI- FLUORO- METHANE TOTAL (UG/L) (34668)	WATER, WATER, UNFLTRD RECOVER (UG/L) (81577)	WATER WATER UNFLTRD RECOVER (UG/L) (81576)	ETHYL UNFLTRD RECOVER (UG/L) (50004)	METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	WATER UNFLTRD REC (UG/L) (77652)	ETHER WAT UNF REC (UG/L) (78032)
DEC													
06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.3
MAR													
06	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
JUN 17 SEP	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.3
05	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	.4

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		META/							
	METHYL	PARA-	0-		TETRA-		TRI-	TRI-	
	ENE	XYLENE	XYLENE		CHLORO-		CHLORO-	CHLORO-	VINYL
	CHLO-	WATER	WATER		ETHYL-		ETHYL-	FLUORO-	CHLO-
	RIDE	UNFLTRD	WHOLE	STYRENE	ENE	TOLUENE	ENE	METHANE	RIDE
DATE	TOTAL	REC	TOTAL						
	(UG/L)								
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
DEC									
06	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2
MAR									
06	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2
JUN									
17	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2
SEP									
05	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2

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 surface-water samples are listed in the following table.

DATE	TIME	SAMP TYP	PLE PE		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)	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)
NOV													
01 DEC	0830	ENVIRONM	IENTAL		<.004	<.002	<.005	.020	<.010	<.041	<.005	<.018	<.003
06 JAN	0910	ENVIRONM	IENTAL		<.004	<.002	<.005	.014	<.010	<.041	<.005	<.018	<.003
09	1230	FIELD BL	ANK		<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003
09 MAR	1330	ENVIRONM	ENTAL		<.006	<.004	<.005	.020	<.010	<.041	<.005	<.018	<.003
06	1040	ENVIRONM	ENTAL		<.006	<.004	<.005	.027	<.010	<.041	<.005	<.018	<.003
04	0850	ENVIRONM	ENTAL		<.006	<.004	<.005	.010	<.010	<.041	<.005	<.018	<.003
22	1000	ENVIRONM	ENTAL		<.008	<.004	<.005	.032	<.010	<.041	<.005	<.018	<.003
17	1210	ENVIRONM	ENTAL		<.006	<.004	<.005	E.065	<.010	<.041	<.005	<.018	<.003
JUL 10	0930	ENVIRONM	ENTAL		<.006	<.004	<.005	.034	<.010	<.041	<.005	<.018	<.003
SEP 05	0930	ENVIRONM	ENTAL		<.006	<.004	<.005	.033	<.010	<.041	<.005	<.018	<.003
DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	EPTC WATER FLIRD 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)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
NOV													
01	E.020	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.010	<.01	<.011
06	E.014	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.010	<.01	<.011
09	< 006	< 005	< 002	< 004	< 035	< 027	< 050	< 013	< 006	< 007	< 022	< 01	< 011
09	E.018	E.004	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	M	<.011
06	E.016	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006	<.007	<.022	E.01	<.011
04	E.005	<.005	<.002	<.004	<.035	<.027	<.050	E.006	<.006	<.007	<.022	м	<.011
22	E.012	<.005	<.002	<.004	<.035	<.027	<.050	.015	<.006	<.007	<.022	<.01	<.011
17	E.015	<.005	<.002	<.004	<.035	<.027	<.050	.018	<.006	<.007	<.022	м	<.011
10	E.019	<.005	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.007	<.022	E.01	<.011
05	E.037	.005	<.002	<.004	<.035	<.027	<.050	E.007	<.006	<.007	<.022	.02	<.011

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	SI- MAZINE, WATER, DISS, REC (UG/L)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L)
	(04035)	(82670)	(82665)
NOV			
01	<.011	<.02	<.034
DEC			
06	<.011	<.02	<.034
JAN			
09	<.005	<.02	E.018
09	<.005	<.02	<.034
MAR	< 00F	< 02	~ 034
100	<.005	<.0Z	<.034
04	<.005	<.02	<.034
MAY			
22	.022	<.02	<.034
JUN			
17	.011	<.02	<.034
JUL			
10	.011	<.02	<.034
SEP	0.07		
05	.007	<.02	<.034

WHOLE-WATER PESTICIDE ANALYSES

DATE	TIME	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	AROCLOR 1016/ 1242 PCB WATER UNFLTRD (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	0910	- 01	< 03	<i>-</i> 1	-1	<i>c</i> 1	<i>-</i> 1	<i>-</i> 1	<i>c</i> 1	< 03	<i>c</i> 1	<i>c</i> 1	<i>-</i> 1
MAR	0910	<.04	<.03	~.1	~1	~.1	~.1	<. <u>.</u>	~.1	<.05	~.1	~.1	<.I
 JUN	1040	<.04	<.03	<.1	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1
17 SEP	1210	<.04	<.03	<.1	<1	<.1	<.1	<.1	<.1	<.03	<.1	<.1	<.1
05	0930	<.04	<.03	<.1	<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 UNFLTRD 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 06 MAR	<.09	<.02	<.1	<.04	<.6	<.2	<.06	<.8	<.03	<.03	<.1	<.04	<.1
06 JUN 17	<.09 <.09	<.02 <.02	<.1 <.1	<.04 <.04	<.6 <.6	<.2 <.2	<.06 <.06	<.8 <.8	<.03 <.03	<.03 <.03	<.1 <.1	<.04 <.04	<.1 <.1
05	<.09	<.02	<.1	<.04	<.6	<.2	<.06	<.8	<.03	<.03	<.1	<.04	<.1

DATE	TOX- APHENE, TOTAL (UG/L) (39400)
DEC 06 MAR 06 JUN 17 SEP	<2 <2 <2
05	<2

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
05	1045	20	<100	<10	02	1200	<20	<100	10
12	1035	80	<100	<10					
19	1120	20	100	10					
25	1040	20	<100	<10					

Remark codes used in this report: < -- Less than

OXYGEN DISSOLVED, in (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
		OCTOBER	2	N	OVEMBER		D	ECEMBER			JANUARY	z
1	11.0	9.7	10.3	14.1	11.1	12.6	12.4	9.6	10.9	14.9	14.2	14.5
2	11.6	9.9	10.6	14.1	11.4	12.7	12.0	9.9	10.9	15.3	14.3	14.8
3	11.5	9.5	10.4	13.0	10.8	11.8	12.5	10.2	11.3	15.6	15.0	15.2
4	11.3	9.2	10.1	13.7	10.7	12.1	12.7	10.7	11.6	15.6	14.8	15.2
5	11.2	9.0	10.0	13.4	10.9	12.1	12.5	10.9	11.5	15.5	14.8	15.1
6	10.6	8.8	9.5	13.7	10.9	12.3	12.6	10.7	11.5	15.2	14.6	14.8
7	11.2	9.0	10.0	14.1	11.6	12.8	12.3	10.4	11.2	14.8	14.3	14.5
8	11.8	9.5	10.6	14.4	11.6	12.9	11.6	10.3	11.0	15.4	14.5	14.9
9	12.1	10.1	11.0	14.0	11.4	12.7	12.5	10.6	11.4	15.2	14.7	14.9
10	12.4	10.4	11.3	14.2	11.6	12.8	13.1	11.2	12.1	15.3	14.5	14.8
11	12.4	10.4	11.2	14.2	11.8	12.9				14.7	14.0	14.3
12	12.1	9.8	10.9	14.3	11.9	13.0				14.8	13.7	14.1
13	12.0	9.7	10.8	14.6	12.4	13.6	12.6	11.8	12.1	14.3	13.4	13.9
14	11.6	9.3	10.3	15.0	12.7	13.8	12.0	11.2	11.6	14.8	13.5	14.1
15	11.7	9.0	10.3	14.8	12.3	13.6	13.0	11.0	11.9	14.9	13.7	14.2
16	11.7	9.3	10.5	14.5	12.2	13.3	13.7	11.7	12.6	15.1	13.7	14.3
17	11.8	9.5	10.6	14.5	12.0	13.2	12.9	12.1	12.4	14.8	13.7	14.2
18	12.6	10.1	11.2	14.6	12.3	13.4	12.6	11.5	12.0	15.0	13.6	14.2
19	12.8	10.5	11.6	14.3	12.3	13.3	13.2	11.6	12.3	14.5	13.7	14.1
20	12.9	10.6	11.6	13.7	11.9	12.8	12.8	11.9	12.3	15.7	14.0	14.7
21	12.8	10.4	11.6	14.7	12.2	13.2	12.9	12.1	12.5	15.6	14.4	14.9
22	12.8	10.3	11.4	15.2	12.9	13.9	13.4	12.4	12.9	15.9	14.4	15.1
23	12.5	9.9	11.1	15.2	13.0	14.0	13.6	12.6	13.1	15.2	14.3	14.7
24	12.5	9.8	11.1	14.3	12.6	13.4	13.4	12.6	13.0	14.5	13.8	14.1
25	11.9	9.3	10.5	13.9	11.8	12.7	13.7	12.7	13.1	14.5	13.1	13.8
26	11.9	9.4	10.7	13.6	10.9	12.1	13.7	12.7	13.2	14.9	12.9	13.9
27	12.2	10.1	11.1	13.6	10.8	12.2	13.8	12.6	13.2	15.2	13.4	14.2
28	13.2	10.5	11.8	13.6	10.9	12.1	14.0	13.1	13.5	15.3	13.3	14.2
29	13.7	11.2	12.4	11.8	10.3	10.8	14.2	13.4	13.8	15.1	13.2	14.1
30	13.9	11.4	12.6	11.8	9.6	10.6	14.4	13.4	13.9	13.9	12.8	13.5
31	13.0	11.2	12.2				14.8	14.1	14.3	13.2	12.5	12.8
MONTH	13.9	8.8	10.9	15.2	9.6	12.8	14.8	9.6	12.3	15.9	12.5	14.4

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	12.4	12.8	15.0	12.6	13.8	11.9	11.4	11.6	11.6	11.2	11.4
2	13.5	12.6	13.0	14.8	12.6	13.7	11.8	11.2	11.6	11.2	10.7	11.0
3	13.9	13.1	13.5	13.4	12.1	12.7	11.4	10.9	11.2	10.9	10.6	10.8
4	13.9	13.2	13.5	13.7	11.8	12.7	12.1	11.0	11.6	11.1	10.7	10.9
5	14.2	13.3	13.7	14.5	12.5	13.5	12.2	11.4	11.9	10.9	10.3	10.7
6	14.3	13.5	13.9	14.5	12.8	13.6	12.7	11.9	12.3	10.4	9.9	10.3
7	14.1	13.3	13.7	14.6	12.7	13.6	13.1	12.4	12.7	9.9	9.2	9.7
9	14.1	13.1	13.6	14.0	12.0	13.1	12.7	11.8	12.3	9.1	8.6	8.8
10	13.8	13.0	13.4	13.6	11.2	12.3	12.0	11.2	11.6	9.5	8.3	9.1
11	13.5	12.4	12.9	14.2	11.5	12.8	12.0	11.0	11.6	9.6	8.7	9.1
12	13.9	12.3	13.1	13.8	11.8	12.9	11.7	10.9	11.3	9.1	8.6	8.8
13	13.2	12.7	12.9	12.8	11.9	12.3	11.6	10.7	11.2			
14	13.9	12.8	13.3	14.3	11.3	12.9	11.3	10.3	10.8			
15	13.9	13.1	13.4	14.1	12.2	13.1	11.0	9.9	10.5			
16	13.8	13.0	13.3	12.7	11.7	12.2	10.3	8.9	9.6			
17	13.5	12.6	13.0	13.3	11.7	12.5	9.4	8.7	9.0	10.5	10.0	10.3
18	13.9	12.8	13.4	13.1	11.9	12.6	9.3	8.7	9.0	10.2	9.3	10.0
20	14.3	12.5	13.3	13.0	12.6	12.9	8.6	7.8	8.2	10.0	10.0	10.4
21	13.8	12.2	12.9	13.0	12.7	12.8	9.2	8.0	8.6	11.1	10.8	10.9
22	13.7	11.6	12.8	13.4	12.4	12.9	9.9	9.0	9.4	11.1	10.5	10.9
23	14.2	11.1	12.7	13.9	13.1	13.4	11.2	9.8	10.5	10.9	10.2	10.6
24	14.4	12.3	13.3	13.7	12.8	13.3	11.7	10.6	11.1	10.4	9.6	10.2
25	14.4	12.1	13.2	13.5	12.5	13.0	11.1	10.7	10.9	10.1	9.3	9.7
26	14.4	12.1	13.2	13.1	12.4	12.8	11.9	10.7	11.3	9.8	9.2	9.4
27	13.7	11.2	12.3	12.9	12.4	12.7	12.1	11.1	11.6	10.0	9.0	9.5
28	14.6	11.8	13.2	12.8	12.3	12.6	11.6	10.7	11.1	10.0	8.9	9.4
29				12.9	12.4	12.8	11.0	11 0	11 2	9.8	8.5	9.2
31				12.2	11.8	12.1				8.8	8.4	8.7
MONTH	14.6	11.1	13.2	15.0	11.2	12.9	13.1	7.8	10.9	11.6	8.3	9.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	MEAN ER
DAY 1	MAX 8.6	MIN JUNE 8.2	MEAN	MAX 8-8	MIN JULY 7.1	MEAN 8.0	MAX 9.6	MIN AUGUST 6.3	MEAN 8.0	MAX 9.8	MIN SEPTEMBE 8.6	MEAN ER 9.1
DAY 1 2	MAX 8.6 8.7	MIN JUNE 8.2 8.1	MEAN 8.4 8.4	MAX 8.8 9.3	MIN JULY 7.1 7.2	MEAN 8.0 8.2	MAX 9.6 9.7	MIN AUGUST 6.3 6.7	MEAN 8.0 8.1	MAX 9.8 10.5	MIN SEPTEMBE 8.6 8.7	MEAN ER 9.1 9.6
DAY 1 2 3	MAX 8.6 8.7 9.0	MIN JUNE 8.2 8.1 8.2	MEAN 8.4 8.4 8.6	MAX 8.8 9.3 9.0	MIN JULY 7.1 7.2 7.2	MEAN 8.0 8.2 8.1	MAX 9.6 9.7 9.4	MIN AUGUST 6.3 6.7 6.4	MEAN 8.0 8.1 7.9	MAX 9.8 10.5 11.0	MIN SEPTEMBH 8.6 8.7 8.6	MEAN ER 9.1 9.6 9.7
DAY 1 2 3 4	MAX 8.6 8.7 9.0 8.9	MIN JUNE 8.2 8.1 8.2 8.4 8.4	MEAN 8.4 8.6 8.6	MAX 8.8 9.3 9.0 8.8	MIN JULY 7.1 7.2 7.2 6.7	MEAN 8.0 8.2 8.1 7.7	9.6 9.7 9.4 10.0	MIN AUGUST 6.3 6.7 6.4 6.7	MEAN 8.0 8.1 7.9 8.2	9.8 10.5 11.0 11.0	MIN SEPTEMBE 8.6 8.7 8.6 8.1	MEAN 9.1 9.6 9.7 9.4
DAY 1 2 3 4 5	MAX 8.6 8.7 9.0 8.9 9.0	MIN JUNE 8.2 8.1 8.2 8.4 8.3	MEAN 8.4 8.6 8.6 8.6 8.6	MAX 8.8 9.3 9.0 8.8 8.7	MIN JULY 7.1 7.2 7.2 6.7 6.5	MEAN 8.0 8.2 8.1 7.7 7.6	9.6 9.7 9.4 10.0 9.0	MIN AUGUST 6.3 6.7 6.4 6.7 6.7	MEAN 8.0 8.1 7.9 8.2 7.9	9.8 10.5 11.0 11.0 10.8	MIN SEPTEMBH 8.6 8.7 8.6 8.1 7.7	MEAN ER 9.1 9.6 9.7 9.4 9.2
DAY 1 2 3 4 5 6	MAX 8.6 8.7 9.0 8.9 9.0 8.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.3	MEAN 8.4 8.6 8.6 8.6 8.6	MAX 8.8 9.3 9.0 8.8 8.7 9.0	MIN JULY 7.1 7.2 6.7 6.5 6.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7	9.6 9.7 9.4 10.0 9.0 10.8	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 6.7 7.1	MEAN 8.0 8.1 7.9 8.2 7.9 8.8	9.8 10.5 11.0 11.0 10.8 11.1	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9	MEAN SR 9.1 9.6 9.7 9.4 9.2 9.2
DAY 1 2 3 4 5 6 7	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1	MEAN 8.4 8.6 8.6 8.6 8.6 8.4 8.4	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5	MAX 9.8 10.5 11.0 11.0 10.8 11.1 11.1	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9	MEAN 9.1 9.6 9.7 9.4 9.2 9.4 9.4
DAY 1 2 3 4 5 6 7 8 9	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6 8.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.1 8.5 8.7	MEAN 8.4 8.6 8.6 8.6 8.4 8.4 8.4 8.7 8.9	MAX 8.8 9.0 8.8 8.7 9.0 9.1 9.1 8.8	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7 6.8 6.4	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4	9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8 4	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7	MAX 9.8 10.5 11.0 11.0 10.8 11.1 11.1 11.2	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9	MEAN 9.1 9.6 9.7 9.4 9.2 9.4 9.4 9.4 9.4
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6 8.8 9.0 8.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.5 8.7 8.4	MEAN 8.4 8.6 8.6 8.6 8.4 8.4 8.7 8.7 8.9 8.7	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.8	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.7 6.8 6.4 6.4 6.0	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2	9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1	MAX 9.8 10.5 11.0 11.0 10.8 11.1 11.1 11.2 11.2 11.3	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.7	MEAN 9.1 9.6 9.7 9.2 9.2 9.4 9.4 9.4 9.4 9.4 9.3
DAY 1 2 3 4 5 6 7 8 9 10	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6 8.8 9.0 8.8 8.7	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1	MEAN 8.4 8.6 8.6 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.5	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.8 6.4 6.4 6.0 5.9	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0	9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.8 11.9 11.6	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8	MAX 9.8 10.5 11.0 10.8 11.1 11.1 11.2 11.2 11.3 10.4	MIN SEPTEMBE 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN SR 9.1 9.6 9.7 9.4 9.2 9.4 9.4 9.4 9.4 9.3 8.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 8.6 8.7 9.0 8.8 8.8 8.8 8.8 9.0 8.8 8.8 8.7 8.3	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.7 8.4 8.1 7.8	MEAN 8.4 8.6 8.6 8.6 8.6 8.4 8.4 8.7 8.9 8.7 8.5 8.1	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.6 8.6 8.2 8.0	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7	MIN AUGUST 6.3 6.7 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8	MAX 9.8 10.5 11.0 11.0 10.8 11.1 11.1 11.2 11.2 11.3 10.4 11.5	MIN SEPTEMBE 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.8	MEAN 9.1 9.6 9.7 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6 8.8 9.0 8.8 8.7 8.3 8.1	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.8	MEAN 8.4 8.6 8.6 8.6 8.6 8.6 8.4 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.6 8.2 8.0 7.7	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.8 6.4 6.0 5.9 5.7 5.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7 11.4	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6	MAX 9.8 10.5 11.0 10.8 11.1 11.1 11.2 11.2 11.2 11.3 10.4 11.5 12.0	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN SR 9.1 9.5 9.7 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 14	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.1 8.2	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.8 7.9	MEAN 8.4 8.6 8.6 8.6 8.6 8.4 8.4 8.7 8.9 8.7 8.7 8.5 8.1 7.9 8.1	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.6 8.2 8.0 7.7	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.2 11.3 10.4 11.5 12.0 11.9	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.4 8.6 8.5	MEAN SR 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 8.6 8.7 9.0 8.8 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.8 7.9 8.1	MEAN 8.4 8.6 8.6 8.6 8.6 8.6 8.4 8.4 8.7 8.7 8.7 8.7 8.7 8.5 8.1 7.9 8.1 8.4	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.6 8.2 8.0 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.8 6.4 6.0 5.9 5.7 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN SR 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 8.6 8.7 9.0 8.9 9.0 8.8 8.6 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5 8.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.8 7.9 8.1 7.8	MEAN 8.4 8.6 8.6 8.6 8.6 8.6 8.4 8.4 8.7 8.7 8.7 8.7 8.5 8.1 8.4 8.5	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.4 8.6 8.5 8.0 7.6	MEAN SR 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 10	MAX 8.6 8.7 9.0 8.8 8.6 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5 8.8 9.2	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 8.4	MEAN 8.4 8.6 8.6 8.6 8.4 8.4 8.7 8.7 8.7 8.7 8.5 8.1 7.9 8.1 8.4 8.5 8.9 9.0	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.4 6.4 6.0 5.9 5.7 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.4 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 11.0	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.8 8.6 8.5 8.0 7.6 8.1	MEAN 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.9 9.1 9.9 9.1 9.9 9.5 10.9 9.1 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 8.6 8.7 9.0 8.8 8.6 8.8 8.6 8.8 8.6 8.8 8.7 8.3 8.1 8.2 8.5 8.2 8.2 9.1	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.5 8.4 8.1 7.8 7.9 8.1 7.8 8.4 8.4 8.5	MEAN 8.4 8.6 8.6 8.6 8.4 8.7 8.9 8.7 8.5 8.1 7.9 8.1 8.4 8.5 8.9 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.7 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.8 11.9 11.6 11.7 11.4 11.7	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 11.0 10.4 10.5 10	MIN SEPTEMBE 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.7 7.4 7.4 7.8 8.6 8.5 8.0 7.6 8.1 8.1 7.9	MEAN 9.1 9.6 9.7 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 8.6 8.7 9.0 8.8 8.6 8.8 8.6 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5 8.2 9.1 9.1 9.2	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 8.4 8.4 8.5 8.5 8.5 8.5	MEAN 8.4 8.6 8.6 8.6 8.4 8.7 8.9 8.7 8.5 8.1 7.9 8.1 8.4 8.5 8.9 8.8 8.8 8.9	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.7 6.5 6.7 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 10.6 10.5	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.8 8.6 8.5 8.0 7.6 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 9.1 9.2 9.4 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 9.1 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 8.6 8.7 9.0 8.8 8.6 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5 8.5 8.2 9.1 9.1 9.2 9.4	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 8.4 8.5 8.5 8.5 8.5	MEAN 8.4 8.6 8.6 8.6 8.6 8.4 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.1 8.1 8.4 8.5 8.9 8.8 8.8 8.9 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 10.6 10.5 10.3	MIN SEPTEMBE 8.6 8.7 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.8 8.6 8.5 8.0 7.6 8.1 8.1 8.1 7.9 7.8 7.5	MEAN SR 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.4 9.1 9.2 8.9 9.5 10.1 9.9 8.9 9.5 10.9 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 8.6 8.7 9.0 8.8 8.6 8.8 8.6 8.8 9.0 8.8 8.7 8.3 8.1 8.2 8.5 8.2 9.1 9.2 9.1 9.2 9.4 9.5	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.3	MEAN 8.4 8.6 8.6 8.6 8.4 8.7 8.9 8.7 8.5 8.1 7.9 8.1 8.4 8.5 8.9 8.8 8.8 8.9 8.9 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 7.7 	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.8 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 10.6 10.5 10.3 10.2	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.4 7.8 8.6 8.5 8.0 7.6 8.1 8.1 8.1 8.1 8.1 7.9 7.9 7.5 7.2	MEAN P.1 9.1 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 9.4 8.8 8.6
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MAX 8.6 8.7 9.0 8.8 8.6 8.8 8.6 8.8 8.0 8.8 8.7 8.3 8.1 8.2 8.5 8.2 9.1 9.2 9.4 9.2 9.5	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.4 8.1 7.8 7.8 7.8 7.9 8.1 7.8 8.4 8.5 8.6 8.5 8.6 8.5 8.3 8.1	MEAN 8.4 8.6 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.5 8.1 7.9 8.1 8.4 8.5 8.8 8.8 8.8 8.8 8.9 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 8.8 8.6 8.2 8.0 7.7 10.0	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.9	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.7 7.8 7.9 7.4 7.9 7.4 7.2 7.0 6.9 6.5 7.6	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.3 11.3 11.4 11.9 11.6 11.7 11.4 	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 11.0 10.4 10.6 10.5 10.5 10.3 10.2 10.3	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN R 9.1 9.5 9.7 9.4 9.2 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 9.1 9.0 8.8 8.8 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 5 5 5 5 5 5 5 5 5 5 5 5 5	MAX 8.6 8.7 9.0 8.8 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.5 8.5 8.2 8.5 8.2 9.1 9.2 9.1 9.2 9.5 9.7	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.8 7.9 8.1 7.8 7.8 7.9 8.1 7.9 8.1 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.1 8.4 8.5 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.9 5.6	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.8	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.9 11.6 11.7 11.4 9.1	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 8.2 8.4 8.6 8.1 8.1 7.9 7.1 7.9 8.2 8.4 8.4 8.1 8.1 7 7.9 8.2 8.4 8.4 8.1 7 7.9 8.2 8.4 8.4 8.1 7 7.9 8.2 8.4 8.4 8.1 7 7.9 8.2 8.4 8.4 8.4 8.4 8.1 7 7.9 8.2 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 8.0	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 10.5 10.7 10.7 10.7 10.7 10.7 10.5 10.3 10.2 10.3 10.7	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN R 9.1 9.7 9.4 9.2 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 9.1 9.0 8.8 8.6 8.5 9.0 9.0
DAY 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	MAX 8.6 8.7 9.0 8.8 8.6 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.3 8.2 8.5 8.2 9.1 9.2 9.1 9.2 9.5 9.7 9.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.8 7.9 8.1 7.8 7.8 7.8 7.9 8.1 7.8 7.8 7.9 8.1 7.8 7.8 7.9 8.1 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.1 8.4 8.5 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.9 5.6 6.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.8 7.8	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.9 11.6 11.7 11.4 9.1 10.8	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 7.3	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 8.0 8.9	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 10.5 12.0 11.9 10.7 10.7 10.7 10.7 10.4 10.6 10.5 10.3 10.2 10.3 10.7 11.5	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN R 9.1 9.6 9.7 9.4 9.2 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 9.1 9.0 8.8 8.6 8.5 9.0 9.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26	MAX 8.6 8.7 9.0 8.8 8.6 8.8 9.0 8.8 8.7 8.3 8.2 8.5 8.2 8.5 8.2 9.1 9.2 9.1 9.2 9.5 9.7 9.8 9.7 9.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.8 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.2 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.1 8.4 8.5 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.8 7.8 7.8 7.8 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.7 7.6 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.7 7.6 8.7 7.7 7.6 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.7 7.6 8.7 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.7	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.3 11.9 11.6 11.7 11.4 9.1 10.8 10.9	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 7.3 7.5	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 8.0 8.9 9.1	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 10.5 10.7 10.7 10.7 10.7 10.7 10.5 10.3 10.2 10.3 10.7 11.5 9.7	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN SR 9.1 9.2 9.4 9.2 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.0 8.8 8.6 8.5 9.0 9.5 8.8
DAY 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 27 27 27 27 27 27 27 27	MAX 8.6 8.7 9.0 8.8 8.6 9.0 8.8 8.6 8.9 9.0 8.8 8.6 8.9 9.0 8.8 8.5 8.2 9.1 9.2 9.1 9.2 9.5 9.7 9.8 9.7 8.8	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 8.4 8.5 8.5 8.6 8.5 8.6 8.5 8.5 8.6 8.5 8.7 8.2 7.8 7.8 7.2 7.2	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.5 8.1 8.4 8.5 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.7 8.5	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.5 7.6 8.5 7.6 8.5 -	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.9 11.6 11.7 11.4 9.1 10.8 10.9 11.3 11.9 11.6 11.7 11.4 9.1 10.8 10.9 11.3 11.9 11.6 11.7 11.4 9.1 10.8 10.8 10.9 11.3 11.7 11.4 9.1 10.8 10.8 10.7 10.8 10.9 10.8 10.8 10.9 10.8 10.8 10.9 10.8 10.9 10.8 10.8 10.9 10.8 10.9 10.8 10.9 10.8 10.9 10.8 10.9 10.8 10.9 10.8 10.9 10.3 10.8 10.9 10.3 10.8 10.9 10.3 10.9 10.3 10.8 10.9 10.3 10.3 10.3 10.5 1	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 7.3 7.5 7.8 8 7.8	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 8.0 8.9 9.1 9.4	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 10.5 10.3 10.2 10.3 10.3 10.3 10.5 9.7 10.1	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN SR 9.1 9.2 9.4 9.2 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.4 9.1 9.9 9.1 9.0 8.8 8.6 8.5 9.0 9.5 8.8 8.9 9.1 9.1 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4
DAY 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	MAX 8.6 9.0 8.9 9.0 8.8 8.6 8.9 9.0 8.8 8.6 8.9 9.0 8.8 8.7 3.1 8.2 9.1 1.2 9.5 9.5 7.8 9.5 9.5 7.8 8.5	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 8.5 8.5 8.6 8.5 8.6 8.5 8.5 8.7 8.4 7.9 7.8 7.9 7.8 7.2 7.0 8	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.1 8.4 8.5 8.9 8.8 8.8 8.9 8.8 8.8 8.8 8.8 8.7 7.1	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 10.0 8.3 9.3 9.0 8.3 9.2	MIN JULY 7.1 7.2 6.7 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 5.5 	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.5 7.7 7.0 6.9 6.5 7.7 7.0 6.5 8 7.7 7.7 7.6 7.7 7.0 6.5 7.7 7.6 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.5 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.6 7.7 7.7	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.3 11.3 11.9 11.6 11.7 11.4 -	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.4 8.6 8.1 8.3 7.9 7.1 7.3 7.5 7.8 7.8 7.8 7.8 7.8	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 8.6 8.9 9.1 9.4 8.9 8.9	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 10.7 10.6 10.5 10.3 10.2 10.3 10.2 10.3 10.7 11.5 9.7 10.1 10.3 10.7 10.5 10.6 10.5 10.6 10.5 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.7 10.6 10.6 10.6 10.7 10.6 10.7 10.6 10.7 10.6 10.6 10.7 10.6 10.5 10.6 10.7 10.6 10.6 10.5 10.6 10.6 10.7 10.7 10.5 10.7 10.5 10.7 10.6 10.7 10.7 10.5 10.7 10.6 10.7 10.7 10.5 10.7 10.6 10.7 10.6 10.7 10.7 10.5 10.7 10.6 10.7 10.7 10.7 10.5 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.5 10.7 10.	MIN SEPTEMBE 8.6 8.7 8.7 8.7 8.7 8.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.7 7.4 7.8 8.6 8.5 8.0 7.6 8.1 8.1 7.9 7.8 7.5 7.2 7.1 7.6 8.0 8.2 7.7 8.2	MEAN 9.1 9.4 9.2 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.4 9.1 9.9 9.1 9.0 9.4 9.5 10.
DAY 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 30 22 30 23 24 25 26 27 28 29 30 20 20 20 20 20 20 20 20 20 2	MAX 8.6 8.7 9.0 8.8 8.6 8.9 9.0 8.8 8.6 8.9 8.8 8.7 3.8 8.12 9.1 9.2 9.5 9.5 9.5 9.8 9.5 9.7 8.3 5.7 9.5 9.5 9.8 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.8 8.1 7.8 8.1 7.8 8.1 7.8 8.1 7.8 8.1 7.8 8.1 8.1 8.5 8.7 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	MEAN 8.4 8.6 8.6 8.6 8.4 8.7 8.9 8.7 8.5 8.1 7.9 8.7 8.1 8.4 8.5 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 8.8 8.6 8.2 8.0 7.7 10.0 8.3 9.0 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.9 5.5 5.9 5.6 6.5 6.5 6.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.8 7.8 7.8 7.6 6.8 7.8 7.8 7.6 6.7 7.7 7.6 7.7 7.7	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.3 11.3 11.9 11.6 11.7 11.4 9.1 10.8 10.9 11.3 10.0 9.0	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 7.9 7.1 7.9 8.2 8.4 8.1 8.3 7.9 7.1 7.9 8.2 8.4 8.1 8.3 7.9 7.1 7.9 8.2 8.4 8.1 8.3 7.9 7.1 7.9 8.2 8.4 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.4 8.5 7 8.2 8.5 7 8.2 8.5 7 8.2 8.5 7 8.2 8.5 7 8.5 8.5 7 8.5 8.5 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 8.5 8.5 8.5 7 8.5 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 8.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 8.0 8.9 9.1 9.4 8.9 9.5	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 10.7 10.7 10.7 10.5 10.3 10.2 10.3 10.7 10.5 9.7 10.1 10.3 10.5 10.7 10.5 10.5 10.3 10.7 10.5 10.	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN MEAN 9.1 9.6 9.7 9.4 9.2 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 8.8 8.8 8.5 9.0 9.5 8.8 8.9 9.3 9.3 9.3 9.3 9.3 9.3 9.3
DAY 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	MAX 8.6 8.7 9.0 8.8 8.6 8.9 9.0 8.8 8.6 8.9 9.0 8.8 8.7 8.3 8.2 9.1 9.2 9.5 9.5 9.5 9.5 9.5 9.8 8.3 7.5 6 	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 8.4 8.5 8.5 8.6 8.5 8.6 8.5 8.5 8.7 9 7.8 7.9 7.8 7.2 7.0 6.8 7.1 	MEAN 8.4 8.6 8.6 8.6 8.4 8.7 8.9 8.7 8.5 8.1 7.9 8.7 8.1 8.4 8.5 8.9 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 8.8 8.6 8.2 8.0 7.7 10.0 8.3 9.3 9.0 9.3 9.0 8.3 9.2 	MIN JULY 7.1 7.2 6.7 6.5 6.7 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.7 5.5 5.9 5.7 5.5 5.5 6.5 6.5 6.5 6.5 6.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.5 7.6 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.8 11.9 11.6 11.7 11.4 9.1 10.8 10.9 11.3 10.8	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.4 8.6 8.1 8.3 7.9 7.1 7.3 7.5 7.8 7.8 8.2 8.2 8.7	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.8 9.6 8.0 8.9 9.1 9.4 8.9 9.5 9.7	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 11.5 12.0 11.9 10.7 10.7 11.0 10.4 10.6 10.5 10.3 10.2 10.3 10.2 10.3 10.7 11.5 9.7 10.1 10.3 10.6 10.5 	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN 9.1 9.2 9.4 9.2 9.4 9.4 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.0 9.1 9.0 9.1 9.0 9.1 9.0 9.4 9.5 10.9 9.5 10.9 9.1 9.5 10.9 9.5 10.9 9.1 9.5 10.9 9.5 10.9 9.1 9.5 10.9 9.5 10.9 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.5 10.9 9.1 9.1 9.5 10.9 9.1 9.1 9.5 10.9 9.1 9.1 9.1 9.5 10.9 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25 26 27 28 29 30 31 MARCHAR SAN	MAX 8.6 8.7 9.0 8.8 8.8 9.0 8.8 8.8 9.0 8.8 8.7 8.31 8.2 8.5 8.2 9.1 9.2 9.4 9.5 9.7 9.8 8.7 9.5 9.7 9.8 8.7 9.5 9.7 9.8 8.8 9.5 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.5 9.7 9.8 9.7 9.8 9.5 9.7 9.8 9.7 9.8 9.7 9.8 9.5 9.7 9.8 9.7 9.7 9.8 9.7 9.7 9.8 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7	MIN JUNE 8.2 8.1 8.2 8.4 8.3 8.1 8.1 8.5 8.7 8.4 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.9 8.1 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.9 7.8 7.2 7.0 6.8 7.1 	MEAN 8.4 8.6 8.6 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MAX 8.8 9.3 9.0 8.8 8.7 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	MIN JULY 7.1 7.2 6.7 6.5 6.5 6.5 6.7 6.8 6.4 6.0 5.9 5.7 5.5 5.5 5.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	MEAN 8.0 8.2 8.1 7.7 7.6 7.7 7.8 7.9 7.4 7.9 7.4 7.2 7.0 6.9 6.5 7.6 6.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.6 7.9 7.6 7.7 7.6 6.9 6.5 7.7 7.6 8 7.7 7.6 7.7 7.7	MAX 9.6 9.7 9.4 10.0 9.0 10.8 11.3 11.3 11.8 11.9 11.6 11.7 11.4 9.1 10.8 10.9 11.3 10.9 11.3 10.9 11.3 10.9 11.3 10.9 11.3 10.9 10.7 10.8 10.9 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.8 10.7 10.7 10.8 10.7 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.7 10.8 10.8 10.8 10.7 10.8 10.8 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.7 10.8 10.9 10.9 10.7 10.8 10.9 10.9 10.7 10.8 10.9 10.9 10.9 10.9 10.7 10.8 10.9 10.	MIN AUGUST 6.3 6.7 6.4 6.7 6.7 7.1 7.9 8.2 8.4 8.6 8.1 8.3 7.9 7.1 7.3 7.5 7.8 8.2 8.2 8.2 8.7 6.3	MEAN 8.0 8.1 7.9 8.2 7.9 8.8 9.5 9.7 10.0 10.1 9.8 9.6 8.0 8.9 8.9 9.1 9.4 8.9 8.9 9.5 9.7 9.0	MAX 9.8 10.5 11.0 10.8 11.1 11.2 11.2 11.3 10.4 10.5 10.7 10.7 10.7 10.7 10.7 10.7 10.5 10.3 10.3 10.3 10.3 10.5 9.7 10.1 10.3 10.5 10.3 10.5 10.	MIN SEPTEMBE 8.6 8.7 8.6 8.1 7.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEAN P.1 9.6 9.7 9.4 9.2 9.4 9.4 9.4 9.4 9.3 8.9 9.5 10.1 9.9 9.1 9.0 9.1 9.1 9.0 9.1 9.1 9.5 10.1 9.9 9.1 9.5 10.1 9.9 9.5 10.1 9.9 9.5 10.1 9.9 9.5 10.1 9.9 9.5 10.1 9.1 9.5 10.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.5 10.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DI	ECEMBER			JANUARY	
_												
1	109	95	102	129	98	113	117	89	102	103	97	100
2	100	96	106	134	103	112	110	90	100	106	98	102
3	122	96	100	120	103	114	112	09	100	100	103	105
5	123	94	107	122	100	111	112	92	101	110	102	105
5	125	51	107	142	100			54	101	110	102	100
6	113	93	102	122	95	108	113	93	102	107	102	104
7	116	92	102	127	100	113	111	92	101	105	101	103
8	118	93	104	130	102	115	101	90	96	109	100	104
9	120	95	107	126	102	113	107	90	97	108	102	105
10	124	99	110	126	101	113	109	92	100	112	102	106
11	126	100	111	124	102	112				110	103	106
12	126	98	111	121	99	110				113	101	106
13	127	99	112	123	102	113	106	97	101	110	101	105
14	123	97	109	127	104	115	102	94	98	112	100	106
15	124	94	108	128	104	116	110	93	100	114	102	108
16	1 2 1	0.4	107	120	105	116	110	04	102	115	102	100
10	110	94	107	129	103	110	105	94	102	110	102	107
10	122	95	100	128	104	115	105	97	101	112	102	107
10	125	90	111	127	104	115	105	95	101	113	101	107
20	125	100	112	119	104	111	103	94	99	113	99	102
20	110	100		119	105		105			115		105
21	127	100	113	124	101	111	101	95	98	113	103	107
22	130	100	113	126	105	115	104	95	99	117	103	110
23	127	98	112	126	106	116	105	95	100	113	105	109
24	131	99	113	123	106	113	105	97	100	111	105	108
25	125	96	109	125	104	113	104	95	99	113	100	107
26	118	93	106	125	98	110	104	94	99	117	98	107
27	114	94	104	122	96	109	102	92	97	119	101	109
28	122	93	107	123	96	108	101	92	97	120	100	110
29	126	99	112	107	94	98	103	95	99	120	100	110
30	129	103	116	109	87	97	101	93	97	112	100	107
31	118	101	110				103	97	99	106	99	102
MONTH	131	92	109	134	87	112	117	89	99	120	97	106
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	MEAN
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
DAY 1	MAX 105	MIN FEBRUARY 98	MEAN 100	MAX 124	MIN MARCH 98	MEAN 111	MAX 106	MIN APRIL 100	MEAN 103	MAX 105	MIN MAY 103	MEAN 104
DAY 1 2	MAX 105 103	MIN FEBRUARY 98 96	MEAN 100 99	MAX 124 120	MIN MARCH 98 99	MEAN 111 110	MAX 106 108	MIN APRIL 100 100	MEAN 103 104	MAX 105 103	MIN MAY 103 99	MEAN 104 101
DAY 1 2 3	MAX 105 103 103	MIN FEBRUARY 98 96 96 96	MEAN 100 99 100	MAX 124 120 112	MIN MARCH 98 99 100	MEAN 111 110 106	MAX 106 108 106	MIN APRIL 100 100 100	MEAN 103 104 103	MAX 105 103 103	MIN MAY 103 99 98	MEAN 104 101 100
DAY 1 2 3 4	MAX 105 103 103 101	MIN FEBRUARY 98 96 96 95	MEAN 100 99 100 98	MAX 124 120 112 114	MIN MARCH 98 99 100 97	MEAN 111 110 106 105	MAX 106 108 106 110	MIN APRIL 100 100 100 99	MEAN 103 104 103 104	MAX 105 103 103 105	MIN MAY 103 99 98 98	MEAN 104 101 100 102
DAY 1 2 3 4 5	MAX 105 103 103 101 101	MIN FEBRUARY 98 96 96 95 93	MEAN 100 99 100 98 96	MAX 124 120 112 114 116	MIN MARCH 98 99 100 97 98	MEAN 111 110 106 105 107	MAX 106 108 106 110 108	MIN APRIL 100 100 100 99 101	MEAN 103 104 103 104 105	MAX 105 103 103 105 106	MIN MAY 103 99 98 98 98 96	MEAN 104 101 100 102 102
DAY 1 2 3 4 5 6	MAX 105 103 103 101 101	MIN FEBRUARY 98 96 96 95 93 93 95	MEAN 100 99 100 98 96 99	MAX 124 120 112 114 116 116	MIN MARCH 98 99 100 97 98 100	MEAN 111 110 106 105 107	MAX 106 108 106 110 108 111	MIN APRIL 100 100 99 101 103	MEAN 103 104 103 104 105 107	MAX 105 103 103 105 106 103	MIN MAY 103 99 98 98 96 97	MEAN 104 101 100 102 102 101
DAY 1 2 3 4 5 6 7	MAX 105 103 101 101 101 103 104	MIN FEBRUARY 98 96 96 95 93 93 95 97	MEAN 100 99 100 98 96 99 99	MAX 124 120 112 114 116 116 121	MIN MARCH 98 99 100 97 98 100 101	MEAN 111 110 106 105 107 110	MAX 106 108 106 110 108 111	MIN APRIL 100 100 99 101 103 104	MEAN 103 104 103 104 105 107	MAX 105 103 103 105 106 103 101	MIN MAY 103 99 98 98 96 97 94	MEAN 104 101 100 102 102 101 98
DAY 1 2 3 4 5 6 7 8	MAX 105 103 101 101 103 104 107	MIN FEBRUARY 98 96 96 95 93 95 93 95	MEAN 100 99 100 98 96 99 99 101	MAX 124 120 112 114 116 121 123	MIN MARCH 98 99 100 97 98 100 101 102	MEAN 111 100 106 105 107 107 110 112	MAX 106 108 106 110 108 111 115 114	MIN APRIL 100 100 99 101 103 104 106	MEAN 103 104 105 107 109 110	MAX 105 103 103 105 106 103 101 103	MIN MAY 103 99 98 98 96 97 94 86	MEAN 104 101 102 102 101 98 97
DAY 1 2 3 4 5 6 7 8 9	MAX 105 103 101 101 103 104 107 108	MIN FEBRUARY 98 96 96 95 93 95 97 95 97	MEAN 100 99 100 98 96 99 99 101 102	MAX 124 120 112 114 116 121 123 124	MIN MARCH 98 99 100 97 98 100 101 102 102	MEAN 111 110 106 105 107 107 110 112 112	MAX 106 108 106 110 108 111 115 114 114	MIN APRIL 100 100 99 101 103 104 106 106	MEAN 103 104 103 104 105 107 109 110 110	MAX 105 103 103 105 106 103 101 103 95	MIN MAY 103 99 98 98 96 97 94 86 89	MEAN 104 101 102 102 101 98 97 91
DAY 1 2 3 4 5 6 7 8 9 10	MAX 105 103 101 101 103 104 107 108 108	MIN FEBRUARY 98 96 95 93 95 97 95 97 95 97 98	MEAN 100 99 100 98 96 99 99 101 102 103	MAX 124 120 112 114 116 121 123 124 121	MIN MARCH 98 99 100 97 98 100 101 102 102 98	MEAN 111 110 106 105 107 107 110 112 112 112 108	MAX 106 108 106 110 108 111 115 114 114 114	MIN APRIL 100 100 99 101 103 104 106 106 103	MEAN 103 104 103 104 105 107 109 110 110 110	MAX 105 103 105 106 103 101 103 95 101	MIN MAY 103 99 98 98 96 97 94 86 89 85	MEAN 104 101 100 102 102 101 98 97 91 94
DAY 1 2 3 4 5 6 7 8 9 10	MAX 105 103 101 101 103 104 107 108 108	MIN FEBRUARY 98 96 95 93 95 97 95 97 95 97 98 97	MEAN 100 99 100 98 96 99 99 101 102 103 101	MAX 124 120 112 114 116 121 123 124 121	MIN MARCH 98 99 100 97 98 100 101 102 98 98	MEAN 111 110 106 105 107 110 112 112 108	MAX 106 108 100 108 111 115 114 114 114	MIN APRIL 100 100 99 101 103 104 106 103	MEAN 103 104 103 104 105 107 109 110 108 108	MAX 105 103 103 105 106 103 101 103 95 101	MIN MAY 103 99 98 98 96 97 94 86 89 85 85	MEAN 104 101 100 102 102 101 98 97 91 94
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 105 103 101 101 101 103 104 107 108 108	MIN FEBRUARY 98 96 95 93 95 97 95 97 95 97 98 97 98	MEAN 100 99 100 98 96 99 101 102 103 101 99	MAX 124 120 112 114 116 121 123 124 121 121	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95	MEAN 111 110 106 105 107 110 112 112 112 108 107 106	MAX 106 108 100 108 111 115 114 114 114 116 110	MIN APRIL 100 100 99 101 103 104 106 103 103	MEAN 103 104 103 104 105 107 109 110 110 108 109 107	MAX 105 103 103 105 106 103 101 103 95 101 101	MIN MAY 103 99 98 96 96 97 94 86 89 85 90	MEAN 104 101 100 102 102 101 98 97 91 94 95 95
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 105 103 101 101 103 104 107 108 108 107 106	MIN FEBRUARY 98 96 95 93 95 97 95 97 95 97 98 97 98 97 93 95	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 98	MAX 124 120 112 114 116 121 123 124 121 121 121 115 106	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102	MAX 106 108 106 110 108 111 115 114 114 114 116 110 115	MIN APRIL 100 100 99 101 103 104 106 106 103 103 103 102	MEAN 103 104 103 104 105 107 109 110 108 109 107 108	MAX 105 103 103 105 106 103 101 103 95 101 101 95	MIN MAY 103 99 98 96 97 94 86 89 85 90 85	MEAN 104 101 102 102 101 98 97 91 94 95 91
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 98 97 98 97 93 95	MEAN 100 99 96 99 99 101 102 103 101 99 98 99	MAX 124 120 112 114 116 121 123 124 121 115 106 125	MIN MARCH 98 99 100 97 98 100 101 102 102 102 98 95 96 98 94	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110	MAX 106 108 106 110 108 111 115 114 114 114 116 110 115 114	MIN APRIL 100 100 99 101 103 104 106 103 103 103 103 103 101	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107	MAX 105 103 105 106 103 101 103 95 101 101 95 	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 	MEAN 104 101 102 102 101 98 97 91 94 95 91
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 98 97 98 97 93 95 95 95 96	MEAN 100 99 96 99 90 101 102 103 101 99 98 99 99	MAX 124 120 112 114 116 121 123 124 121 115 106 125 127	MIN MARCH 98 99 100 97 98 100 101 102 102 102 98 98 95 96 98 94 104	MEAN 111 110 106 105 107 107 110 112 108 107 106 102 110 115	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115	MIN APRIL 100 100 100 101 103 104 106 106 103 103 103 103 102 101 98	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106	MAX 105 103 105 106 103 101 103 101 95 	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 	MEAN 104 101 100 102 101 98 97 91 94 95 91
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 12 13 14 15 12 13 14 12 12 13 14 15 10 10 10 10 10 10 10 10 10 10	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 105	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 98 97 98 97 98 97 98	MEAN 100 99 100 98 99 101 102 103 101 99 98 99 99	MAX 124 120 112 114 116 121 123 124 121 121 115 106 125 127	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104	MEAN 111 110 106 105 107 107 110 112 108 107 106 102 110 115 100	MAX 106 108 100 108 111 115 114 114 114 116 110 115 114 115 114 115 114 115 115	MIN APRIL 100 100 101 103 104 106 106 103 103 103 103 102 101 98	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 108	MAX 105 103 105 106 103 101 103 95 101 101 95 	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 	MEAN 104 101 100 102 102 101 98 97 91 94 95 91
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 16 17 16 17 16 16 17 16 16 16 16 16 16 16 16 16 16	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 98 97 93 95 95 95 95 95 96 97	MEAN 100 99 100 98 96 99 101 102 103 101 99 98 99 99 101 102	MAX 124 120 112 114 116 121 123 124 121 121 121 125 106 125 127 114	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115 116 106 100	MIN APRIL 100 100 100 101 103 104 106 103 103 103 103 102 101 98 95	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 106 107 108 107 106 107 106 107 108 107 106 107 107 107 107 107 107 107 107	MAX 105 103 103 105 106 103 101 103 95 101 101 95 	MIN MAY 103 99 98 96 97 94 86 89 85 90 85 90 88 	MEAN 104 101 102 102 101 98 97 91 94 95 91
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 10	MAX 105 103 101 101 103 104 107 106 102 104 103 107 106 102 104 103	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 98 97 93 95 95 95 95 95 95 97 93	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 98 99 99 101 101 102 103	MAX 124 120 112 114 116 121 123 124 121 121 125 127 114 113	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106	MAX 106 108 106 110 108 111 115 114 114 116 110 115 114 115 114 115 114 115 116 100 105 114 115 116 100 105 106 107 108 108 108 108 108 108 108 108	MIN APRIL 100 100 99 101 103 104 106 106 103 103 103 103 103 103 103 98 95 91	MEAN 103 104 103 104 105 107 109 110 100 108 109 107 108 107 106 100 96 200	MAX 105 103 103 105 106 103 101 101 95 101 101 95 104	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 85 90 88 100	MEAN 104 101 102 102 101 98 97 91 94 95 91 101
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 10	MAX 105 103 101 101 103 104 107 106 102 104 103 107 106 107 106 107 106	MIN FEBRUARY 98 96 95 93 95 97 98 97 98 97 98 97 98 97 98 97 95 96 97 97 95 96 97 95 96 97 95 95 95 97 97 98 97 97 98 97 97 97 98 97 97 97 97 98 97 97 97 97 97 97 98 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 98 99 99 101 101 101 101 101	MAX 124 120 112 114 116 121 123 124 121 115 106 125 127 114 113 109 109	MIN MARCH 98 99 100 97 98 100 101 102 102 102 98 95 96 98 94 104 103 100 98	MEAN 111 110 106 105 107 107 110 112 108 107 106 102 110 115 109 106 105 106 105 109 106	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115 106 102 103 103 103 103 103 103 103 103	MIN APRIL 100 100 100 101 103 104 106 103 103 103 103 102 101 98 95 91 93 93	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106 100 96 98 96	MAX 105 103 105 106 103 101 103 95 101 101 95 104 100	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 100 93	MEAN 104 101 100 102 102 101 98 97 91 101 98 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 105 103 101 101 103 104 107 108 107 106 102 104 103 107 106 107 111 112	MIN FEBRUARY 98 96 95 93 95 97 98 97 98 97 93 95 95 96 97 95 96 97 95 96 97 95 96	MEAN 100 99 100 98 96 99 101 102 103 101 99 98 99 99 101 101 101 101 101 101	MAX 124 120 112 114 116 121 123 124 121 121 121 115 106 125 127 114 113 109 117	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99	MEAN 111 110 106 105 107 107 107 107 108 107 106 102 110 115 109 106 105 109 106 105 107	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115 106 102 103 103 05	MIN APRIL 100 100 100 99 101 103 104 106 103 103 103 102 101 98 95 91 93 88 87	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 106 100 96 98 96 98 96	MAX 105 103 105 106 103 101 103 95 101 101 95 104 100 102 103	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 100 93 97 97	MEAN 104 101 102 102 101 98 97 91 94 95 91 101 98 100 02 101 98 102 102 102 102 102 102 102 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MAX 105 103 101 101 103 104 107 108 107 106 102 104 103 107 106 107 111 112	MIN FEBRUARY 98 96 95 93 95 97 98 97 98 97 93 95 95 96 97 97 95 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 101 102 103 101 99 98 99 99 101 101 101 101 101 101	MAX 124 120 112 114 116 121 123 124 121 121 121 121 125 106 125 127 114 113 109 117 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115 114 115 106 102 103 103 95	MIN APRIL 100 100 99 101 103 104 106 103 103 103 102 101 98 95 91 93 88 87	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 108 107 108 96 98 96 91	MAX 105 103 105 106 103 101 103 95 101 101 95 104 100 102 103	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 100 93 97 100	MEAN 104 101 102 102 101 98 97 91 94 95 91 101 101 98 100 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 107 111 112 116	MIN FEBRUARY 98 96 95 93 95 97 95 97 93 95 95 95 96 97 97 95 97 97 95 97 97 95 97 95 96 97 97 95 96 97 97 98 95 97 97 98 97 97 98 97 97 98 97 97 98 97 97 98 97 97 97 97 98 97 97 97 97 97 98 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 101 102 103 101 99 98 99 99 101 101 101 101 101 104 105 106	MAX 124 120 112 114 116 116 121 123 124 121 121 121 125 106 125 127 114 113 109 117 110 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 98 94 104 103 100 98 99 106	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 107 107 107 107 107 107 107	MAX 106 108 101 108 111 115 114 114 116 110 115 114 115 106 102 103 103 95 96	MIN APRIL 100 100 100 101 103 104 106 103 103 103 102 101 98 95 91 93 88 87 87	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 108 107 108 96 98 96 91 91	MAX 105 103 103 105 106 103 101 103 95 101 101 95 101 101 00 102 103 104	MIN MAY 103 99 98 98 97 94 86 89 85 90 88 100 93 97 100 100	MEAN 104 101 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MAX 105 103 101 101 103 104 107 106 102 104 103 107 106 107 106 107 106 107 104 103 107 106 107 104 103 107 105 105 105 105 105 105 105 105	MIN FEBRUARY 98 96 95 93 95 97 95 97 93 95 95 96 97 95 96 97 95 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 98 95 97 98 95 97 98 95 97 98 95 97 98 95 97 97 98 95 97 95 97 98 95 97 95 97 95 97 98 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 95 97 95 95 97 95 95 95 95 95 95 95 95 95 95	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 99 99 99 101 101 101 10	MAX 124 120 112 114 116 116 121 123 124 121 121 125 106 125 127 114 113 109 117 110 110 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 107 106 105 107 106 107 106 105 107 107 106 107 107 106 107 107 106 105 107 107 106 107 107 106 105 107 107 106 107 107 106 105 107 107 106 105 107 106 105 107 106 105 107 106 105 107 106 106 105 107 106 106 106 106 105 107 106 106 106 106 106 106 107 106 106 106 106 106 107 106 106 106 105 107 106 106 106 105 107 106 106 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 109 106 105 109 107 106 105 109 106 105 109 107 106 105 109 107 107 106 105 109 107 107 106 107 106 107 106 105 109 107 107 107 107 106 107 106 107 107 106 107 107 106 107 107 107 107 107 107 107 107	MAX 106 108 106 110 108 111 115 114 114 116 110 115 114 115 114 115 106 102 103 103 95 96 99	MIN APRIL 100 100 99 101 103 104 106 103 103 103 103 103 102 101 98 95 91 93 88 88 87 87 92	MEAN 103 104 103 104 105 107 109 110 110 108 109 107 106 100 96 98 96 91 91 95 95	MAX 105 103 105 106 103 101 103 101 95 101 95 104 100 102 103 104 105	MIN MAY 103 99 98 98 96 97 94 86 89 85 90 88 85 90 88 85 100 93 97 100 100 99	MEAN 104 101 102 102 101 98 97 91 101 98 100 102 102 102 101 102 102 101 102 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 102 104 103 107 106 102 104 103 101 101 103 104 105 103 104 105 103 104 105 105 105 104 105 105 105 105 105 105 105 105	MIN FEBRUARY 98 96 95 93 95 97 98 97 98 97 95 96 97 97 95 96 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 101 102 103 101 99 98 99 99 101 101 101 101 104 105 106 105	MAX 124 120 112 114 116 121 123 124 121 121 121 115 106 125 127 114 113 109 117 110 110 110 114	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 106 105 109 107 106 105 109 107 106 105 109 107 106 105 109 106 105 109 106 105 109 106 105 109 106 105 109 106 105 107 100 106 107 100 105 109 100 107 106 105 107 109 107 107 106 105 107 107 106 105 107 107 107 106 105 107 107 107 106 107 107 107 107 107 107 107 107	MAX 106 108 101 108 111 115 114 114 114 115 114 115 114 115 114 115 114 115 114 115 114 115 116 100 103 103 95 99 110	MIN APRIL 100 100 100 101 103 104 106 106 103 103 103 102 101 98 95 91 93 88 87 87 92 92 92	MEAN 103 104 103 104 105 107 109 110 100 100 107 108 107 106 100 96 98 96 91 91 95 102	MAX 105 103 105 106 103 101 103 101 103 95 101 101 95 104 100 102 103 104 105 106	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 100 93 97 100 99 98	MEAN 104 101 100 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 -	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 102 104 103 107 106 102 104 103 107 106 105 103 104 107 106 105 105 105 105 105 105 105 105	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 93 95 95 96 97 97 97 97 97 97 97 97 97 95 96 97 97 97 97 97 97 97 97 97 93 95 96 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 90 101 102 103 101 101 101 101 101 104 105 106 105 110	MAX 124 120 112 114 116 121 123 124 121 121 121 121 115 106 125 127 114 113 109 117 110 110 110 110 1110 112 124 124 123 124 124 124 125 127 124 124 125 126 127 124 126 127 128 124 129 129 129 129 129 129 129 129	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 103 100 106 104	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 106 105 107 106 108 108 108 109 107 106 105 107 106 108 108 109 107 106 105 107 107 106 108 108 109 107 106 105 107 107 106 108 109 106 105 107 107 108 109 106 105 107 106 106 105 107 106 106 107 106 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 105 107 106 105 107 106 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 107 106 105 107 107 106 105 107 107 106 105 107 107 106 105 107 107 107 106 105 107 107 107 107 107 107 107 107	MAX 106 108 100 108 111 115 114 114 116 110 115 114 115 106 102 103 103 103 95 96 99 910 110	MIN APRIL 100 100 99 101 103 104 106 103 103 103 103 102 101 98 95 91 93 88 87 92 96 101 	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 106 100 96 98 96 91 91 95 102 107	MAX 105 103 105 106 103 101 103 95 101 101 95 104 100 102 103 104 100 102 103 104 106 106 106 106 106 106 106 107 107 107 107 107 107 107 107	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 100 93 97 100 100 99 98 89	MEAN 104 101 100 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 102
DAY 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	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 107 111 112 116 115 120 121 122	MIN FEBRUARY 98 96 95 93 95 97 98 97 93 95 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 95 96 97 97 95 96 97 97 98 95 97 97 95 96 97 97 95 97 97 95 97 95 97 97 95 95 97 97 95 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 90 101 102 103 101 99 98 99 99 101 101 101 101 104 105 106 105 110 109	MAX 124 120 112 114 116 116 121 123 124 121 121 125 127 114 113 109 117 110 110 110 110 1110 112	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 88 99 106 104 102 104	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 106 105 109 107 106 108 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 107 106 108 109 106 105 107 106 108 109 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 107 106 105 107 107 106 105 107 107 106 105 107 107 106 105 107 107 107 106 105 107 107 107 106 105 107 107 107 107 107 107 106 105 107 107 107 107 107 107 107 107	MAX 106 108 100 108 111 115 114 114 114 116 100 115 114 115 106 102 103 103 95 96 99 90 110 116 107	MIN APRIL 100 100 101 103 104 106 103 103 103 103 102 101 98 95 91 93 88 87 92 93 88 87 92 96 101 102	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106 96 98 96 91 91 95 102 107 102 107 102 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 106 100 91 95 102 107 104	MAX 105 103 103 105 106 103 101 103 95 101 101 95 104 100 102 103 104 105 106 106 106	MIN MAY 103 99 98 98 97 94 86 89 85 90 88 90 85 90 88 90 85 90 80 87 100 100 93 97 100	MEAN 104 101 102 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 101 98 100 102 101 98 101 102 102 102 102 102 102 102
DAY 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	MAX 105 103 101 101 103 104 107 108 107 106 102 104 103 107 106 107 111 112 116 115 120 121 122 124	MIN FEBRUARY 98 96 95 93 95 97 95 97 93 95 95 96 97 97 95 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 97 95 96 97 97 95 97 95 96 97 95 97 95 96 97 95 97 95 97 95 96 97 95 97 95 97 95 96 97 95 97 95 97 95 97 95 96 97 95 97 95 96 97 95 95 96 97 95 96 97 95 97 95 97 95 97 95 97 95 97 95 97 97 95 97 97 95 97 97 97 97 95 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 98 99 99 101 101 101 104 105 106 106 105 110 109 111	MAX 124 120 112 114 116 116 121 123 124 121 121 125 127 114 113 109 117 110 110 110 110 110 110 111 125 125 127 114 113 109 117 110 110 110 110 111 115 106 125 127 114 115 106 125 127 114 115 106 125 127 117 116 115 106 125 127 117 116 115 106 125 127 117 116 115 106 125 127 117 116 115 106 125 127 117 116 117 115 106 125 127 117 110 117 116 115 106 125 127 117 110 110 115 106 125 127 117 110 110 110 115 106 109 117 110 110 110 110 117 110 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106 104 102 104 102	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 105 109 106 105 109 107 106 105 109 107 106 108 109 107 106 108 109 107 106 105 107 106 108 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 109 107 106 108 107 108 109 107 106 108 109 107 106 108 109 106 109 106 109 100 100 100 100 100 100 100	MAX 106 108 101 108 111 115 114 114 116 100 115 114 115 106 102 103 103 95 96 99 910 110 116 107 114	MIN APRIL 100 100 99 101 103 104 106 103 103 103 103 102 101 98 95 91 93 88 87 87 92 96 101 102 101 93 102 101 93 88 87 92 91 102 101 102 101 102 101 102 101 103 102 101 102 101 102 101 102 101 103 102 101 103 102 101 103 102 101 103 102 101 103 102 101 103 102 101 103 102 101 103 102 101 103 103 102 101 102 100 101 102 100	MEAN 103 104 103 104 105 107 109 110 100 100 100 96 98 96 91 91 95 102 107 104 107 104 107	MAX 105 103 103 105 106 103 101 103 95 101 101 95 104 100 102 103 104 105 106 106 106 106 106 106 106 106	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 90 85 90 88 90 85 90 88 90 80 89 100 100 93 97 100	MEAN 104 101 102 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 101 98 98
DAY 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	MAX 105 103 101 101 103 104 107 106 102 104 103 107 106 107 106 107 106 107 104 103 107 106 102 104 103 107 102 104 103 107 102 104 103 104 105 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 105 105 105 105 106 107 106 107 106 102 104 105 102 104 105 105 105 105 105 105 105 105	MIN FEBRUARY 98 96 95 93 95 97 98 97 93 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 97 95 96 97 95 97 95 96 97 95 96 97 95 96 97 95 97 95 97 95 96 97 95 97 95 97 95 97 95 96 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 96 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 97 95 97 97 95 97 97 95 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 99 99 99 101 101 104 105 106 105 110 109 111 103	MAX 124 120 112 114 116 121 123 124 121 121 125 126 125 127 114 113 109 117 110 110 110 110 110 112 112 112	MIN MARCH 98 99 100 97 98 100 101 102 102 98 96 98 94 104 103 100 98 99 106 104 102 104 102 104	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 105 109 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 107 106 105 109 107 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 107 106 105 109 107 107 106 105 109 107 107 106 105 109 107 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 108 107 107 106 108 107 106 108 107 106 108 107 107 106 108 107 107 106 108 107 107 106 108 107 107 107 107 107 107 107 107	MAX 106 108 100 108 111 115 114 114 114 114 115 106 102 103 95 96 99 110 116 107 114 118	MIN APRIL 100 100 99 9101 103 104 106 103 103 103 103 103 103 103 103	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106 96 98 96 91 91 95 102 107 104 107 104 107 106 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 109 107 108 107 107 107 107 108 107 107 107 107 107 107 107 107	MAX 105 103 103 101 103 101 103 101 103 101 95 104 100 102 103 104 105 106 106 106 106 106 106 106 106	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 85 90 88 85 90 88 100 93 97 100 100 99 98 98 94	MEAN 104 101 102 102 101 98 97 94 95 91 101 98 100 102 102 102 102 102 102 101 98 100 102 103 104 102 102 102 102 102 102 102 102
DAY 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	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 102 104 103 107 106 102 104 102 104 102 104 102 104 102 104 102 104 102 104 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 102 104 105 105 105 105 105 105 105 105	MIN FEBRUARY 98 96 95 93 95 97 97 98 97 93 95 95 96 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 99 99 101 102 103 101 101 101 101 104 105 106 106 105 110 109 111 103 106	MAX 124 120 112 114 116 121 123 124 121 121 121 121 121 121 121	MIN MARCH 98 99 100 97 98 100 101 102 102 102 98 95 96 98 94 104 103 100 88 99 106 104 102 104 102 104 102	MEAN 111 110 106 105 107 107 107 106 102 110 115 109 106 105 109 107 106 105 109 107 106 105 107 106 105 107 106 105 107 107 106 105 107 107 106 107 107 106 107 107 106 107 107 106 107 107 106 107 107 106 107 107 106 107 107 106 107 107 106 107 106 107 106 105 107 106 107 106 107 106 107 106 107 107 106 107 107 107 106 107 106 107 107 106 107 107 106 108 107 106 108 107 106 108 107 106 108 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 105 105 105 105 105 105 105 105	MAX 106 108 100 108 111 115 114 114 114 115 114 115 114 115 106 102 103 103 95 96 99 110 116 107 114 118 111	MIN APRIL 100 100 101 103 104 106 106 103 103 103 102 101 98 95 91 93 88 87 95 91 93 88 87 92 96 101 102 100 105 102	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106 100 96 98 96 91 95 102 107 104 107 104 107 106 107 109 110 108 107 109 110 109 110 109 109 110 109 110 109 109	MAX 105 103 105 106 103 101 103 95 101 101 95 104 100 102 103 104 105 106 106 106 106 106 106 106 107 107 107 107 107 107 107 107	MIN MAY 103 99 98 96 97 94 86 89 90 88 100 93 97 100 100 100 99 98 98 94 94 95	MEAN 104 101 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 102 102 102
DAY 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	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 102 104 103 107 106 111 112 116 115 120 121 122 124 115 120 	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 93 95 95 96 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 98 99 99 101 101 101 104 105 106 105 110 109 111 103 100	MAX 124 120 112 114 116 116 121 123 124 121 121 121 125 106 125 127 114 113 109 117 110 110 110 110 110 112 121 121	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106 104 102 104 102 102	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 102 110 115 109 106 105 109 107 106 105 107 106 105 107 106 108 107 106 105 107 106 105 107 106 105 107 100 107 106 105 107 106 108 107 106 108 107 106 108 107 106 108 107 105 107 106 105 107 107 106 108 105 105 105 105 105 105 105 105	MAX 106 108 100 108 111 115 114 114 114 116 100 115 114 115 106 102 103 103 95 96 99 100 110 116 107 114 118 111 122	MIN APRIL 100 100 99 101 103 104 106 106 103 103 103 102 101 98 95 91 93 88 87 92 93 88 87 92 96 101 102 102 100 102 99	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 108 107 106 98 96 91 95 102 107 104 107 104 107 106 101	MAX 105 103 103 105 106 103 101 103 95 101 101 95 104 100 102 103 104 105 106 106 106 106 106 106 106 107 101 105 106 106 107 107 107 107 107 107 107 107	MIN MAY 103 99 98 98 96 97 94 86 89 97 94 85 90 88 100 93 97 100 100 99 98 94 94 94 95	MEAN 104 101 100 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 102 102 102
DAY 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	MAX 105 103 101 101 103 104 107 108 107 106 102 104 103 107 106 107 104 103 107 106 107 104 103 107 106 102 104 103 107 106 102 104 103 107 106 102 104 107 102 104 107 102 104 107 106 102 104 107 106 102 104 107 106 102 104 107 106 107 108 107 106 102 104 107 106 107 106 102 104 107 106 107 111 112 122 122 122 122 122 12	MIN FEBRUARY 98 96 95 93 95 97 98 97 93 95 96 97 93 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 95 96 97 97 93 95 96 97 97 95 96 97 97 98 95 96 97 97 95 97 97 98 95 96 97 97 95 97 97 95 97 97 95 96 97 97 95 97 97 95 96 97 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 95 97 97 95 97 97 95 97 97 95 97 97 95 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 99 99 99 101 101 104 105 106 106 105 100 109 111 103 106 	MAX 124 120 112 114 116 116 121 123 124 121 125 127 114 113 109 117 110 110 110 110 110 110 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106 104 102 104 102 104	MEAN 111 110 106 105 107 107 112 112 112 108 107 106 102 110 115 109 106 105 109 107 106 105 109 107 106 105 107 106 108 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 107 106 105 107 106 107 106 108 107 106 102 110 110 115 107 106 107 106 109 106 109 107 106 109 107 106 109 107 106 109 107 106 109 107 106 109 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 108 107 106 105 107 106 108 107 106 108 107 106 108 108 107 106 108 107 106 108 108 107 106 108 107 106 108 107 106 108 107 106 108 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 107 106 105 105 105 105 105 105 105 105	MAX 106 108 101 108 111 115 114 114 116 100 115 114 115 106 102 103 103 95 96 99 110 116 107 114 118 111 116 107 114 118 111 108 111 115 114 115 114 115 114 115 114 115 114 115 116 107 108 108 108 108 108 108 108 108	MIN APRIL 100 100 99 101 103 104 106 103 103 103 103 103 103 103 103	MEAN 103 104 105 107 109 110 108 109 107 108 107 106 100 96 98 96 91 91 95 102 107 104 107 104 107 108 107 109 107 109 100 107 109 100 107 109 100 107 109 100 107 109 107 109 107 109 107 109 107 109 107 108 107 107 108 107 107 108 107 107 108 107 107 108 107 107 108 107 107 108 107 106 96 96 91 91 107 102 107 106 107 107 106 107 106 107 107 106 107 107 107 108 107 107 106 107 107 108 107 107 108 107 107 106 107 107 107 108 107 107 107 107 107 107 107 107	MAX 105 103 103 101 103 101 103 101 103 101 101	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 85 90 88 85 100 93 97 100 100 99 98 98 94 94 94 95 95 92	MEAN 104 101 102 102 101 98 97 91 94 95 91 101 98 100 102 102 102 102 102 101 98 100 102 102 101 98 97 94 95 91 101 98 94 95 91 101 98 94 95 94 95 94 95 91 101 98 97 91 101 98 97 94 95 94 95 95 95 95 95 95 95 95 95 95
DAY 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	MAX 105 103 101 101 103 104 107 108 108 107 106 102 104 103 107 106 107 106 107 104 103 107 106 102 104 103 107 106 107 102 104 103 107 106 102 104 107 102 104 107 102 104 107 102 104 107 102 104 107 102 104 107 106 102 104 107 106 107 108 107 108 107 108 107 108 107 108 107 108 107 106 102 104 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 108 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 106 107 111 112 120 122 124 115 120 	MIN FEBRUARY 98 96 95 93 95 97 95 97 98 97 93 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 97 95 96 97 95 96 97 95 97 98 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 96 97 95 97 97 95 97 97 95 97 97 97 97 97 97 97 97 97 97	MEAN 100 99 100 98 96 99 99 101 102 103 101 99 99 99 99 101 101 101 10	MAX 124 120 112 114 116 121 123 124 121 121 121 125 126 125 127 114 113 109 117 110 110 110 110 110 110 110	MIN MARCH 98 99 100 97 98 100 101 102 102 98 95 96 98 94 104 103 100 98 99 106 104 102 104 102 104 102 104 102 102 102	MEAN 111 110 106 105 107 107 110 112 112 108 107 106 105 109 107 106 105 109 107 106 105 109 107 107 106 105 105 105 105 105 105 105 105	MAX 106 108 100 108 111 115 114 114 114 114 115 106 102 103 95 96 99 110 116 107 114 118 111 102 105 	MIN APRIL 100 100 99 9101 103 104 106 103 103 103 103 103 103 102 101 98 95 91 93 88 87 87 92 96 101 102 100 100 105 102 91 02 	MEAN 103 104 103 104 105 107 109 110 108 109 107 108 107 106 100 96 98 96 91 91 95 102 107 104 107 104 107 104 107 106 91 95 102 107 104 107 106 91 95 102 107 104 105 107 108 107 109 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 108 107 106 107 106 91 91 95 102 107 104 107 106 91 91 95 102 107 104 107 106 91 95 102 107 104 107 104 107 104 107 106 107 106 91 95 102 107 104 107 104 107 105 107 107 108 91 95 102 107 104 107 104 107 104 107 104 107 104 107 104 107 104 107 107 104 107 104 107 107 104 107 101 103 	MAX 105 103 103 101 103 101 103 101 103 101 103 104 102 103 104 105 106 106 106 106 106 106 106 106	MIN MAY 103 99 98 96 97 94 86 89 85 90 88 85 90 88 85 90 88 87 100 93 97 100 100 99 98 98 98 94 94 94 92 92	MEAN 104 101 102 102 101 98 97 94 95 91 101 98 100 102 102 102 102 102 102 102

OXYGEN DIS. PERCENT, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMB	ER
1	96	90	93	112	88	100	129	81	104	110	96	102
2	99	90	94	121	89	105	131	86	107	118	95	106
3	102	91	96	120	91	105	126	81	103	129	95	110
4	100	94	96	118	86	101	135	86	109	133	94	111
5	103	91	97	116	84	100	120	88	105	131	91	109
6	101	92	95	116	82	98	140	91	112	133	92	111
7	95	90	92	116	81	97	141	95	117	134	91	111
8	95	93	94	116	83	99	140	98	119	136	92	112
9	97	93	95	113	79	94	148	101	123	137	92	113
10	98	93	95	111	75	91	150	103	125	141	92	114
11	99	92	95	103	71	87	149	99	123	125	90	107
12	96	91	93	101	69	84	151	103	125	134	88	109
13	91	89	90	96	67	80	150	100	124	140	95	116
14	91	88	89							139	96	115
15	92	88	90							127	94	107
16	95	82	91							129	89	106
17	100	90	96							121	94	110
18	100	93	96							124	93	106
10	100	93	90							125	93	105
19	100	93	90							125	69	105
20	102	95	99							124	90	105
21	108	95	101							123	87	104
22	111	95	102							125	85	103
23	115	95	104	133	75	100				123	84	101
24	119	96	107	106	71	86	111	87	98	126	86	104
25	124	95	109	118	80	97	136	87	109	131	88	108
0.5	104		100		01		1.25		110	100		
26	124	98	109	111	81	94	135	92	112	108	89	99
27	126	90	108	100	78	91	139	94	114	111	88	97
28	104	86	93	114	84	97	120	95	106	116	84	99
29	93	81	88				113	95	103	118	88	102
30	107	86	96				122	93	107	116	89	102
31							125	98	111			
MONTH	126	81	97	133	67	95	151	81	112	141	84	107
YEAR	151	67	104									
								01 50 65				
		PH,	, III (STAN	DARD UNIT	S, WAT	ER IEAR (CIOBER 20	UL TO SE	PIEMBER 20	J0Z		
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER	٤.	N	OVEMBER		:	DECEMBER			JANUAR	Y
1	7 9	7 /	76		7 0	9 /	0 1	7 0	7 5	7 0	76	7 7
-	1.3	/=	/.0	0.0	/.0	0.1	0.1	/.2	/.5	/.0	/.0	/./

OXYGEN DIS. PERCENT, in % OF SATURATION, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

369

				200	• • •						•-	
YEAR	151	67	104									
		PE	I, in (STAN	DARD UNIT	S), WAI	ER YEAR (OCTOBER 200	1 TO SE	PTEMBER 20	02		
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBE	ER.	N	OVEMBER	2	D	ECEMBER	1		JANUAR	Y
1	7.9	7.4	7.6	8.8	7.8	8.4	8.1	7.2	7.5	7.8	7.6	7.7
2	8.2	7.4	7.7	8.9	8.0	8.6	7.9	7.3	7.5	7.8	7.6	7.7
3	83	7.5	7.8	8.8	8 0	8 5	8 1	7.3	7.5	7.8	7.6	7 7
4	8 4	7.5	7.0	0.0	0.0	9 5	0.1	7.3	7.6	7.0	7.0	7.7
-1 E	0.4	7.5	7.0	0.0	0.0	0.5	0.2	7.5	7.0	7.0	7.0	7.7
5	0.4	7.5	7.9	0.0	0.1	0.0	8.0	7.5	7.5	/.0	7.0	/./
6	8.3	7.5	7.8	8.8	8.0	8.5	8.1	7.3	7.6	7.8	7.6	7.7
7	8.4	7.6	7.9	8.9	8.2	8.6	8.1	7.3	7.6	7.7	7.6	7.6
8	8.5	7.6	8.0	8.9	8.2	8.7	7.7	7.3	7.5	7.9	7.6	7.7
9	8.5	7.7	8.0	8.9	8.2	8.6	8.0	7.4	7.6	7.8	7.6	7.7
10	8.5	7.8	8.2	8.9	8.2	8.7	8.1	7.5	7.7	7.9	7.6	7.7
11	8.6	7.8	8.2	8.9	8.3	8.6				7.8	7.6	7.7
12	8 6	7 8	8 2	8 9	83	8 6				8 0	7 6	7 8
13	8 7	7 9	83	8.9	83	8 7	78	75	77	8 0	7 6	7 8
14	86	7.9	0.5	8.0	0.5	9 7	7.6	7.5	7.5	9 1	7.0	7.0
15	0.0	7.9	0.3	0.9	0.1	0.7	7.0	7.4	7.5	0.1	7.0	7.0
15	0./	7.9	0.4	0.9	0.4	0./	0.1	/.4	/.0	0.1	7.0	/.0
16	8.7	7.8	8.4	8.9	8.4	8.8	8.3	7.6	7.8	8.2	7.7	7.9
17	8.8	7.9	8.4	8.9	8.3	8.7	7.9	7.6	7.7	8.0	7.6	7.8
18	8.8	8.0	8.4	8.9	8.3	8.7	7.9	7.5	7.7	8.1	7.5	7.7
19	8.8	8.0	8.5	8.9	8.3	8.6	8.1	7.5	7.7	7.8	7.6	7.7
20	8.8	8.0	8.5	8.7	8.2	8.6	7.8	7.5	7.6	8.1	7.6	7.8
21	8.8	8.0	8.3	8.8	8.2	8.5	7.5	7.4	7.5	8.1	7.7	7.8
22	8.8	8.0	8.5	8.9	8.2	8.6	7.6	7.3	7.4	8.3	7.8	8.0
23	8.8	8.0	8.5	8.9	8.3	8.6	7.6	7.3	7.4	8.1	7.8	8.0
24	8.8	8.0	8.5	8.7	8.1	8.5	7.6	7.3	7.4	8.1	7.8	7.9
25	8.8	7.9	8.5	8.6	7.9	8.3	7.7	7.3	7.5	8.1	7.7	7.9
26	8.8	8.0	8.5	8.6	7.7	8.1	7.8	7.4	7.6	8.3	7.6	7.9
27	8.8	8.1	8.5	8.6	7.5	7.9	7.8	7.4	7.6	8.4	7.7	8.1
28	8.8	8.0	8.5	8.5	7.4	7.9	7.8	7.4	7.6	8.5	7.7	8.1
29	8.9	8.1	8.6	7.8	7.3	7.5	7.8	7.5	7.6	8.5	7.6	8.0
20		0.1	9.6	7.0	7.5	7.5	7.0	7.5	7.6	9 1	7.0	7 0
21	0.7	0.2	0.0	/./	1.2	/.4	7.0	7.5	7.0	0.1 7 0	7.0	7.9
21	0.0	0.2	0.0				/.0	1.5	/./	/.0	1.5	/./
MAX	8.9	8.2	8.6	8.9	8.4	8.8	8.3	7.6	7.8	8.5	7.8	8.1
MIN	7.9	7.4	7.6	7.7	7.2	7.4	7.5	7.2	7.4	7.7	7.5	7.6

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	1	FEBRUAR	Y		MARCH			APRIL			MAY	
1	7.8	7.6	7.6	8.9	7.8	8.5	7.2	7.0	7.1	7.0	6.7	6.7
2	7.6	7.5	7.6	8.8	7.8	8.5	7.2	7.1	7.1	6.8	6.7	6.7
3	7.6	7.4	7.5	8.4	7.6	7.9	7.1	7.0	7.1	6.8	6.7	6.8
4	7.5	7.3	7.4	8.3	7.4	7.9	7.2	7.0	7.1	6.9	6.8	6.8
5	7.6	7.4	7.4	8.5	7.7	8.1	7.3	7.0	7.2	6.9	6.7	6.8
6	7.7	7.4	7.6	8.4	7.6	8.0	7.4	7.2	7.3	6.9	6.7	6.8
7	7.7	7.4	7.5	8.5	7.4	8.0	7.5	7.2	7.4	6.9	6.7	6.8
8	7.9	7.4	7.7	8.6	7.5	8.1	7.5	7.3	7.4	7.0	6.7	6.8
9 10	7.9 7.9	7.5 7.5	7.7 7.7	8.6 8.6	7.5 7.3	8.0 7.9	7.5 7.6	7.3 7.2	7.4 7.3	6.8 7.0	6.7 6.6	6.7 6.8
11	0 2	7 5	7 0	0 <i>C</i>	7 5	• •		7.0	7 5	7 0	67	<i>c</i> 0
12	0.2	7.5	7.0	0.0	7.5	0.0	7.5	7.2	7.5	5.0	6.7	6.0
13	7.9	7.5	7.7	7.8	7.2	7.4	7.7	7.2	7.4			
14	7.6	7.2	7.4	8.0	7.1	7.6	7.6	7.2	7.4			
15	7.7	7.4	7.4	8.2	7.3	7.6	7.8	7.1	7.4			
16	7.9	7.4	7.5	7.6	7.2	7.4	7.4	6.9	7.0			
17	7.9	7.5	7.7	7.6	7.1	7.3	6.9	6.8	6.9	7.2	7.1	7.2
18	8.2	7.5	7.8	7.4	7.2	7.3	7.0	6.8	6.9	7.3	7.2	7.2
19	8.3	7.6	7.9	7.5	7.1	7.3	7.0	6.8	6.8	7.4	7.3	7.3
20	8.4	7.6	7.9	7.4	7.2	7.3	6.8	6.7	6.8	7.3	7.3	7.3
21	8.5	7.5	8.0	7.3	7.2	7.2	6.9	6.7	6.8	7.3	7.3	7.3
22	8.5	7.6	8.1	7.4	7.3	7.3	7.0	6.8	6.9	7.5	7.3	7.4
23	8.5	7.7	7.9	7.6	7.3	7.4	7.3	7.0	7.1	7.6	7.4	7.5
24	8.8	7.9	8.5	7.6	7.3	7.4	7.2	7.1	7.2	7.6	7.4	7.5
25	8.9	7.7	8.3	7.6	7.3	7.4	7.2	7.1	7.2	7.7	7.4	7.5
26	9.0	7.9	8.6	7.4	7.3	7.4	7.5	7.1	7.2	7.7	7.5	7.5
27	8.6	7.6	8.1	7.5	7.3	7.4	7.7	7.2	7.4	7.8	7.5	7.6
28	8.8	7.8	8.5	7.4	7.1	7.4	7.4	7.2	7.3	7.9	7.5	7.7
29				7.1	7.0	7.0	7.2	7.1	7.1	8.0	7.6	7.7
30				7.1	7.0	7.0	7.2	7.0	7.1	7.7	7.1	7.2
21				/.1	7.0	/.1				/.1	/.1	/.1
MAX MTN	9.0 7.5	7.9	8.6	8.9	7.8	8.5	7.8	7.3	7.5	8.0	7.6	7.7
								•••				•••
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN JULY	MEDIAN	MAX	MIN AUGUST	MEDIAN	MAX	MIN SEPTEMB	MEDIAN ER
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN JULY	MEDIAN	MAX	MIN AUGUST	MEDIAN	MAX	MIN SEPTEMB	MEDIAN ER
DAY 1	MAX 7.2	MIN JUNE 7.1	MEDIAN	MAX 8.1	MIN JULY 7.5	MEDIAN	MAX 8.7	MIN AUGUST 7.7	MEDIAN 8.2	MAX 8.2	MIN SEPTEMB 7.7	MEDIAN ER 7.8
DAY 1 2	MAX 7.2 7.4	MIN JUNE 7.1 7.2	MEDIAN 7.2 7.3	MAX 8.1 8.4	MIN JULY 7.5 7.5	MEDIAN 7.7 7.8	MAX 8.7 8.7	MIN AUGUST 7.7 7.7	MEDIAN 8.2 8.2	MAX 8.2 8.4	MIN SEPTEMB 7.7 7.6	MEDIAN ER 7.8 7.9
DAY 1 2 3	MAX 7.2 7.4 7.5	MIN JUNE 7.1 7.2 7.3	MEDIAN 7.2 7.3 7.4	MAX 8.1 8.4 8.4	MIN JULY 7.5 7.5 7.6	MEDIAN 7.7 7.8 7.9	MAX 8.7 8.7 8.6	MIN AUGUST 7.7 7.7 7.5	MEDIAN 8.2 8.2 8.0	MAX 8.2 8.4 8.7	MIN SEPTEMB 7.7 7.6 7.6	MEDIAN ER 7.8 7.9 8.3
DAY 1 2 3 4	MAX 7.2 7.4 7.5 7.6	MIN JUNE 7.1 7.2 7.3 7.3	MEDIAN 7.2 7.3 7.4 7.5	MAX 8.1 8.4 8.4 8.5	MIN JULY 7.5 7.5 7.6 7.6	MEDIAN 7.7 7.8 7.9 7.9 7.9	MAX 8.7 8.6 8.6 8.6	MIN AUGUST 7.7 7.7 7.5 7.6	MEDIAN 8.2 8.2 8.0 8.1	MAX 8.2 8.4 8.7 8.7	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8	MEDIAN ER 7.8 7.9 8.3 8.3
DAY 1 2 3 4 5	MAX 7.2 7.4 7.5 7.6 7.6	MIN JUNE 7.1 7.2 7.3 7.3 7.4	MEDIAN 7.2 7.3 7.4 7.5 7.5	MAX 8.1 8.4 8.5 8.5 8.7	MIN JULY 7.5 7.5 7.6 7.6 7.6 7.6	MEDIAN 7.7 7.8 7.9 7.9 8.1	MAX 8.7 8.7 8.6 8.6 8.4	MIN AUGUST 7.7 7.7 7.5 7.6 7.6	MEDIAN 8.2 8.2 8.0 8.1 8.0	MAX 8.2 8.4 8.7 8.7 8.7	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8	MEDIAN ER 7.8 7.9 8.3 8.3 8.3
DAY 1 2 3 4 5 6	MAX 7.2 7.4 7.5 7.6 7.6 7.6	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5	MAX 8.1 8.4 8.5 8.7 8.9	MIN JULY 7.5 7.6 7.6 7.6 7.7	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2	MAX 8.7 8.6 8.6 8.4 8.7	MIN AUGUST 7.7 7.5 7.6 7.6 7.6	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2	MAX 8.2 8.4 8.7 8.7 8.7 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4
DAY 1 2 3 4 5 6 7	MAX 7.2 7.4 7.6 7.6 7.6 7.5	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4	MAX 8.1 8.4 8.5 8.7 8.9 8.9	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.7 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2	MAX 8.7 8.6 8.6 8.4 8.7 8.7	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.8	MEDIAN 8.2 8.0 8.1 8.0 8.2 8.2	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.9	MEDIAN ER 7.9 8.3 8.3 8.3 8.4 8.4
DAY 1 2 3 4 5 6 7 8	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3	MAX 8.1 8.4 8.5 8.5 8.7 8.9 8.9 9.1	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.2 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.7 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4
DAY 1 2 3 4 5 6 7 8 9	MAX 7.2 7.4 7.6 7.6 7.6 7.5 7.6 7.5 7.4 7.3	MIN JUNE 7.1 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2	MAX 8.1 8.4 8.5 8.7 8.9 8.9 9.1 9.1	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.0 8.1 8.0 8.2 8.2 8.2 8.3 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4
DAY 1 2 3 4 5 6 7 8 9 10	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4 7.3 7.3	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.2 7.3	MAX 8.1 8.4 8.5 8.7 8.9 8.9 9.1 9.1 9.2	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.2 8.5 8.4 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.2 8.3 8.3 8.3 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.8	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4	MIN JUNE 7.1 7.2 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.3	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4	MAX 8.1 8.4 8.5 8.7 8.9 8.9 9.1 9.1 9.2 9.2	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.9	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.4 8.5 8.6	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8 8.8 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.0 8.1 8.0 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8	MTN SEPTEMB 7.7 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.8 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.3 7.3	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.4	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2	MIN JULY 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.4 8.5 8.6 8.5	MAX 8.7 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.0 8.1 8.0 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.9 8.1	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.6 7.4 7.3 7.3 7.4 7.4 7.4	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.3 7.3 7.3	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.4 7.3	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2 9.3	MTN JULY 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.0 7.9	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.6 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 8.1 8.1	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 7.2 7.5 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.4	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.5 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4	MAX 8.1 8.4 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2 9.3 	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.4 8.5 8.5 8.5 8.5 8.5 	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.8 7.9 8.1 8.1 8.1 8.1	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 7.2 7.5 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.6	MTN JUNE 7.1 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.4 7.4	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.5 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.5	MAX 8.1 8.4 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2 9.3 	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.4 8.5 8.5 8.5 8.5 	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.8 7.9 8.1 8.1 8.1 8.1 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.6 7.6	MIN JUNE 7.1 7.3 7.3 7.4 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.4 7.4 7.4 7.5	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.4 7.3 7.4 7.4 7.4 7.5 7.5 7.5	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2 9.2 9.2 9.3 	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.0 7.9	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.4 8.5 8.6 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.8 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.2	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 8.1 8.1 8.1 8.1 7.9 7.6	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.4 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.6 7.6 7.6	MIN JUNE 7.1 7.2 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.4 7.5	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.3 7.4 7.4 7.5 7.5 7.6	MAX 8.1 8.4 8.5 8.7 8.9 8.9 9.1 9.1 9.1 9.2 9.2 9.2 9.3 	MIN JULY 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.0 7.9 8.0 7.9	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.9 8.9 8.9 8.8 8.8 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.2 8.1	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.8 7.9 8.1 8.1 8.1 8.1 8.1 8.1 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.2 8.2 8.0 8.1
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.6 7.6	MIN JUNE 7.1 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.5 7.5 7.5	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.5 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.5 7.5 7.5 7.5	MAX 8.1 8.4 8.4 8.5 8.7 8.9 9.1 9.1 9.2 9.2 9.2 9.2 9.3 	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.8 8.8	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.2 8.1 8.0	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 8.1 8.1 8.1 7.9 8.1 8.1 7.9 7.6 7.7 7.6	MEDIAN ER 7.8 7.8 7.8 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.2 8.0 8.1 8.1 8.1
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DAY 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	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.6 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.6 7.6 7.6 7.6 7.5 7.7 7.8 8.0 8.2 8.4 8.5 8.6 8.7 8.0	MIN JUNE 7.1 7.2 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.4 7.2 7.3 7.4 7.2 7.3 7.4 7.4 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.7 7.8 7.9 8.0 8.0 8.1 7.5	MAX 8.1 8.4 8.5 8.7 8.9 8.9 9.1 9.2 9.2 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.2 9.3 8.9 8.8 8.4 8.6 8.5 8.4 8.4 8.5 8.7 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MIN JULY 7.5 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.0 7.9 8.0 7.9 8.0 7.9 8.0 7.9 7.6 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MIN AUGUST 7.7 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.2 8.1 8.0 8.1 8.0 8.1 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.4 8.4 8.1 8.0 8.1 8.1 8.2 8.3 8.3 8.4 8.4 8.1 8.0 8.1 8.3 8.4 8.4 8.1 8.0 8.1 8.1 8.3 8.3 8.4 8.4 8.1 8.0 8.1 8.1 8.3 8.4 8.1 8.0 8.1 8.3 8.4 8.4 8.1 8.0 8.1 8.1 8.3 8.3 8.4 8.4 8.1 8.0 8.1 8.0 8.1 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.1 8.0 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1	MAX 8.2 8.4 8.7 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.8 7.9 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 7.9 7.6 7.7 7.6 7.7 7.6 7.6 7.7 7.7 7.6 7.7 7.7	MEDIAN ER 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.2 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.4 8.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
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DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 29 30 30 30 30 30 30 30 30 30 30	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.6 7.6 7.5 7.7 7.8 8.0 8.2 8.4 8.5 8.6 8.7 8.0 7.5 7.8	MIN JUNE 7.1 7.2 7.3 7.4 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 8.0 8.0 8.1 7.5	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.2 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 8.9 8.8 8.8 8.4 8.4 8.4 8.4 8.5 8.7 9.1 9.1 9.2 9.2 9.2 9.3 9.3 9.2 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.2 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.2 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.0 8.1 8.0 8.1 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.0 8.1 8.0 8.1 8.1 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.0 8.1 8.0 8.1 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.0 8.1 8.0 8.1 8.0 8.1 8.3 8.3 8.3 8.3 8.4 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.1 8.2 8.1 8.0 8.1 8.1 8.2 8.1 8.0 8.1 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 7.9 7.7 8.0 8.0 8.1 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 223 24 25 26 27 28 30 31 12 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 29 30 31 21 22 23 24 25 26 27 28 29 20 21 22 23 24 25 26 27 28 29 30 31 21 22 23 24 25 26 27 28 29 30 31 21 22 23 24 25 26 27 28 29 30 31 21 25 26 27 28 29 30 31 21 25 26 27 28 29 30 31 21 25 26 27 28 29 30 31 21 27 28 29 30 31 21 27 28 29 30 31 21 27 28 29 30 31 31 31 31 31 31 31 31 31 31	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.6 7.6 7.5 7.7 7.8 8.0 8.2 8.4 8.5 8.6 8.7 8.0 7.5 7.8 8.0 7.5	MIN JUNE 7.1 7.2 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 8.0 8.0 8.1 7.5 7.4 7.5	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.2 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 8.9 8.8 8.8 8.4 8.4 8.4 8.4 8.5 8.7 9.1 9.1 9.2 9.2 9.2 9.3 9.3 9.2 9.2 8.9 8.9 8.9 8.9 9.1 9.1 9.1 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 9.3 9.3 9.2 9.2 8.9 8.8 8.8 8.8 8.8 8.5 8.1 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.5 8.4 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.2 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.0 8.1 8.0 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.0 8.1 8.0 8.1 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.0 8.1 8.0 8.1 8.1 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.0 8.1 8.2 8.1 8.0 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.2 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 8.0 8.1 7.9 7.7 8.0 8.0 8.1 8.0 8.1 7.9 7.9 8.0 8.0 8.1 8.0 8.1 7.9 8.0 8.0 8.1 7.9 7.9 8.0 8.0 8.1 7.9 7.9 8.0 8.0 8.1 7.9 7.9 8.0 8.0 8.1 7.9 7.9 8.0 8.1 7.9 7.9 8.0 8.1	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.6 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5
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DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 324 25 26 27 28 20 31 MAX MIN	MAX 7.2 7.4 7.5 7.6 7.6 7.6 7.5 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.6 7.6 7.6 7.6 7.5 7.7 8.0 8.2 8.4 8.5 8.6 8.7 7.2	MIN JUNE 7.1 7.3 7.3 7.4 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	MEDIAN 7.2 7.3 7.4 7.5 7.5 7.5 7.5 7.4 7.3 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 7.6 7.5 7.5 8.0 8.0 8.1 7.2	MAX 8.1 8.4 8.5 8.7 8.9 9.1 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	MIN JULY 7.5 7.6 7.6 7.6 7.6 7.7 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.0 7.9 8.0 7.9 7.6 7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	MEDIAN 7.7 7.8 7.9 7.9 8.1 8.2 8.2 8.5 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	MAX 8.7 8.6 8.6 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9	MIN AUGUST 7.7 7.5 7.6 7.6 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	MEDIAN 8.2 8.2 8.0 8.1 8.0 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.2 8.1 8.0 8.1 8.0 8.1 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	MAX 8.2 8.4 8.7 8.7 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	MIN SEPTEMB 7.7 7.6 7.8 7.8 7.8 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9	MEDIAN ER 7.8 7.9 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5

PH, in (STANDARD UNITS), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

MIN MAXIMUM 8.4 MINIMUM 6.6 MEDIAN MAXIMUM 8.8 MINIMUM 6.7

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBER		DE	ECEMBER			JANUARY	
-	005	104		0.01	007		000	01 5		001		01.0
Ţ	207	194	200	231	227	229	223	217	220	221	209	218
2	219	206	212	235	229	231	224	218	221	230	216	225
3	229	219	224	236	228	232	224	221	223	234	230	231
4	230	225	228	236	230	233	222	205	212	237	223	233
5	235	228	232	234	230	232	205	192	194	240	230	238
6	237	232	235	234	229	231	189	184	186	245	239	242
7	243	231	234	235	231	233	199	189	194	239	232	236
8	235	230	232	237	233	235	207	199	203	232	227	230
9	239	234	237	237	230	233	215	206	210	234	228	231
10	236	220	227	238	231	235	223	215	220	246	233	237
11	224	219	221	242	236	239				259	246	253
12	228	221	223	239	235	237				260	256	258
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DAY 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	MAX 215 212 172 160 154 165 172 180 181 181 186 190 195 147 146 156 164 167 169 172 176 183 189 188 180 183 189	MIN FEBRUARY 211 172 160 145 146 154 165 175 176 180 185 147 135 139 146 156 167 170 176 183 184 177 172 179 183 	MEAN 213 192 167 150 148 161 168 176 177 179 183 188 180 139 143 151 160 165 167 169 173 179 183 177 180 186	MAX 193 195 198 209 211 194 184 189 200 190 193 196 192 181 181 179 180 191 196 203 195 180 177 180 184 147	MIN MARCH 188 190 197 194 183 177 179 184 186 190 192 179 177 176 176 177 177 179 183 176 196 192 179 175 174	MEAN 190 192 201 203 188 181 181 181 187 188 191 194 184 179 178 178 178 178 179 185 187 183 201 198 188 177 176 177 174 133	MAX 132 131 132 136 145 147 155 156 156 161 160 164 164 164 167 173 182 164 155 156 151 162 164 164 155 156 164 164 167 173 182 164 155 156 157 164 168 170 168 167 172 170 169	MIN APRIL 128 129 129 129 136 142 154 154 154 156 158 160 161 166 161 146 145 146 149 152 154 163 165 162 162 162 165 165	MEAN 130 131 132 141 145 145 155 158 158 168 171 155 168 171 155 168 171 155 168 161 162 163 168 171 155 159 166 167 164 164 164 164 164	MAX 133 126 139 138 136 138 141 147 151 159 156 115 125 136 128 119 124 130 135 140 144 152 159 161	MIN MAY 121 125 130 131 136 138 140 146 150 153 152 107 112 124 112 113 115 122 124 113 115 122 130 135 140 142 151	MEAN 124 123 134 133 137 139 144 150 155 156 154 110 118 131 118 114 119 125 133 139 143 147 156 159
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30	MAX 215 212 172 160 154 165 172 180 181 181 186 190 195 147 146 156 164 167 169 172 176 183 189 188 180 183 189	MIN FEBRUARY 211 172 160 145 146 154 165 175 176 180 185 147 135 139 146 156 164 156 164 156 167 170 176 183 184 177 177 177 177 177 177 177 17	MEAN 213 192 167 150 148 161 168 176 177 179 183 188 180 139 143 151 160 165 167 169 173 179 185 187 180 186	MAX 193 195 198 209 211 194 184 189 200 190 193 196 192 181 181 181 181 188 191 196 203 203 203 203 203 195 180 177 180 184 147 132	MIN MARCH 188 190 187 194 183 177 179 184 186 190 192 179 177 176 176 177 177 176 176 177 179 183 176 196 192 179 183 176 196 192 179 175 147	MEAN 190 192 201 203 188 181 181 187 188 191 194 184 179 178 178 178 178 179 185 187 183 201 198 188 177 176 177 174 133 130	MAX 132 131 132 136 145 145 156 156 156 161 160 164 167 173 182 164 157 164 168 157 164 168 167 172 170 169 169	MIN APRIL 128 129 129 129 136 142 154 154 156 156 158 160 161 166 161 146 145 146 149 152 154 163 165 162 162 166 160 153 165 162 164 165 165 165 165 165 165 165 165	MEAN 130 131 130 132 141 145 148 155 158 158 158 158 160 162 163 163 163 163 163 165 166 167 164 164 164 165 164 153	MAX 133 126 139 138 136 141 147 159 159 156 155 125 136 128 119 124 130 135 140 144 152 159 159	MIN MAY 121 125 130 131 136 138 140 146 150 153 152 153 152 107 112 124 112 113 115 122 130 135 140 142 151 156 105	MEAN 124 123 134 133 137 139 144 150 155 156 156 154 110 118 131 118 131 144 131 144 159 125 133 137 145 159 127
DAY 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 31 31 24 25 26 27 28 29 30 31 22 23 24 25 26 27 28 29 20 21 22 23 24 25 26 20 21 22 23 24 25 26 27 28 20 20 21 22 23 24 25 26 26 27 28 20 20 21 22 23 24 25 26 27 28 20 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 21 22 23 24 25 26 27 28 20 20 21 22 23 24 25 26 27 28 20 20 21 22 23 24 25 26 27 28 29 31 24 25 26 27 28 20 20 21 22 23 24 25 26 27 28 29 30 31 24 25 26 27 28 29 30 31 24 25 26 27 28 29 30 31 24 25 26 27 28 29 30 31 24 25 26 27 28 29 30 31 24 25 26 27 28 29 30 31 31 24 25 26 27 28 29 30 31 31 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31	MAX 215 212 172 160 154 165 172 180 181 181 186 190 195 147 146 156 164 167 169 172 176 183 189 189 188 180 183 189	MIN FEBRUARY 211 172 160 145 146 154 165 172 175 176 180 185 147 135 139 146 156 164 156 164 156 167 170 176 183 184 177 172 179 183 	MEAN 213 192 167 150 148 161 168 176 177 179 183 188 180 139 143 151 160 165 167 169 173 179 185 187 183 177 180 186	MAX 193 195 198 209 211 194 184 189 200 190 193 196 192 181 181 181 179 186 181 188 191 196 203 203 195 180 177 180 187 180 181 184 184 191 196 203 203 195 180 197 180 181 182 181 184 184 191 196 203 203 195 180 181 182 183 195 180 181 184 184 191 196 192 181 181 181 186 191 196 197 198 196 197 198 197 198 196 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 198 197 197 180 181 186 197 197 180 197 181 186 197 198 198 197 198 197 198 197 198 198 197 198 198 198 198 197 198 198 198 198 197 198 198 198 198 198 198 198 198	MIN MARCH 188 190 189 197 194 183 177 179 184 186 190 192 179 177 176 176 176 176 177 177 177 179 183 176 196 192 179 175 147 175 147 129 128 130	MEAN 190 192 201 203 188 181 181 187 188 191 194 184 179 178 178 178 178 179 185 187 183 201 198 188 177 176 177 174 133 130 132	MAX 132 131 132 136 145 145 147 155 156 156 161 160 164 164 164 164 164 164 164 154 157 164 168 170 168 167 172 170 169 	MIN APRIL 128 129 129 129 136 142 154 154 156 156 161 166 161 146 145 146 145 146 145 146 145 166 161 163 165 162 162 162 162 162 162 163 165 165 165 165 165 165 165 165	MEAN 130 131 130 132 141 145 155 158 158 160 162 163 168 161 155 155 156 166 167 166 167 164 169 165 164 163 164	MAX 133 126 139 138 136 138 141 147 151 159 159 156 115 125 136 128 119 124 130 135 140 144 152 159 161 158 108	MIN MAY 121 125 130 131 136 138 140 146 150 153 152 153 152 107 112 124 112 113 115 122 130 135 140 142 151 156 105 101	MEAN 124 123 134 133 137 139 144 150 155 156 156 154 110 118 131 118 114 119 125 133 139 143 139 143 139 143 139 143 139 143 139 144 199 196 196 196 196 196 196 196
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23 24 25 26 27 28 29 30 31 MONTH	MAX 215 212 172 160 154 165 172 180 181 181 181 186 190 195 147 146 156 164 167 169 172 176 183 189 189 189 188 180 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 183 189 180 183 189 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 180 183 189 183 189 183 189 180 183 189 183 180 183 189 183 180 183 180 183 180 183 180 183 185 185 185 185 185 185 185 185	MIN FEBRUARY 211 172 160 145 146 154 165 175 176 180 185 147 135 139 146 156 164 156 164 156 167 170 176 183 184 177 172 179 183 135	MEAN 213 192 167 150 148 161 168 176 177 179 183 188 180 139 143 151 160 165 167 169 173 179 185 187 180 186 172	MAX 193 195 198 209 211 194 184 189 200 190 193 196 192 181 181 181 188 191 196 203 203 203 203 195 180 177 180 184 147 132 133 211	MIN MARCH 188 190 189 197 194 183 177 179 184 186 190 192 179 177 176 176 176 177 177 177 179 183 176 196 192 179 175 175 175 175 174 175 147 128 130	MEAN 190 192 201 203 188 181 181 187 188 191 194 184 179 178 178 178 179 185 187 187 183 201 198 188 177 176 177 174 133 130 132 181	MAX 132 131 132 136 145 145 156 156 156 161 160 164 167 173 182 164 164 157 164 168 157 164 168 167 172 170 169 169 182	MIN APRIL 128 129 129 129 136 142 154 154 156 156 156 161 166 161 146 145 146 145 146 149 152 154 163 165 162 162 162 162 162 162 162 162	MEAN 130 131 130 132 141 145 148 155 158 158 158 158 158 160 162 163 163 163 163 163 163 165 166 167 164 164 164 165 164 153 154	MAX 133 126 139 138 136 138 141 147 151 159 159 156 15 125 136 128 119 124 130 135 140 144 152 159 161 158 108 161	MIN MAY 121 125 130 131 136 138 140 146 150 153 152 107 112 124 112 113 115 122 130 135 140 142 151 156 105 101	MEAN 124 123 134 133 137 139 144 150 155 156 154 110 118 131 118 131 143 143 147 156 159 127 103 134

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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DAY	MAX	MTN	MEAN	мах	MTN	MEAN	мах	MTN	MEAN	мах	MTN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	123	108	116	174	168	171	225	221	223	240	210	227
2	130	122	128	193	184	190	222	214	219	210	200	204
4	130	125	128	193	186	190	229	220	225	247	223	240
5	135	130	133	188	184	186	232	226	229	247	232	240
6	139	133	137	193	185	189	231	227	229	232	222	227
7	157	137	146	201	192	196	232	225	229	222	219	221
8	100	108	102	201	198	201	225	222	224	227	221	223
10	114	105	109	205	204	201	223	217	220	229	227	229
10	111	105	105	211	204	207	210	217	210	225	220	221
11	119	112	115	218	211	214	223	216	218	232	226	229
12	124	117	120	221	217	219	226	221	223	234	231	232
13	135	118	126	220	215	217	233	225	228	232	229	231
14	145	134	140				234	228	231	229	225	227
15	151	144	148				228	219	222	231	222	228
16	151	137	146				220	214	217	225	220	222
17	140	134	137				217	213	215	223	213	217
18	134	126	129				223	216	220	222	214	218
19	130	127	128	238	228	232	225	220	223	217	197	205
20	141	130	136	231	220	226	223	216	219	198	192	194
21	144	1 4 1	140	0.01	224	220	21.0	21.2	015	200	102	100
21	150	141	143	231	224	228	219	212	215	200	200	205
22	158	143	153	232	227	220	213	203	211	211	200	205
24	162	156	159	230	222	225	204	198	202	237	216	227
25	168	162	165	222	215	218	204	199	202	236	220	229
26	169	166	168	219	208	212	215	204	208	220	205	212
27	170	162	165	217	210	214	231	215	225	215	205	210
28	182	163	167	217	213	215	232	227	229	219	201	205
29	183	171	175				229	210	218	237	219	232
30	175	171	173				216	213	214	226	194	211
51							240	215	220			
MONTH	183	100	140	238	168	208	240	198	219	247	192	220
YEAR	314	100	196									
YEAR	314	100	196									
YEAR	314	100 WATER 1	196 TEMPERATU	RE. in (D	EGREES C)	WATER	YEAR OCTO	BER 2001	TO SEPT	EMBER 2002		
YEAR	314	100 WATER 1	196 TEMPERATU	RE, in (D	EGREES C)	, WATER	YEAR OCTO	BER 2001	to sept	EMBER 2002		
YEAR DAY	314 MAX	100 WATER 1 MIN	196 TEMPERATU MEAN	RE, in (D MAX	EGREES C) MIN	, WATER	YEAR OCTO MAX	BER 2001 MIN	TO SEPT MEAN	EMBER 2002 MAX	MIN	MEAN
YEAR DAY	314 MAX	100 WATER 1 MIN	196 TEMPERATU MEAN	RE, in (D MAX	EGREES C) MIN	, WATER MEAN	YEAR OCTO MAX	BER 2001 MIN	to sept mean	EMBER 2002 MAX	MIN	MEAN
YEAR DAY	314 MAX	100 WATER 1 MIN OCTOBER	196 TEMPERATU MEAN	RE, in (D) MAX	EGREES C) MIN NOVEMBER	, WATER MEAN	YEAR OCTOI MAX	BER 2001 MIN DECEMBER	TO SEPT MEAN	EMBER 2002 MAX	MIN JANUARY	MEAN
YEAR DAY	314 MAX	100 WATER T MIN OCTOBER 14-5	196 TEMPERATU MEAN R 14.5	RE, in (D) MAX	EGREES C) MIN NOVEMBER 9.5	, WATER MEAN	YEAR OCTO MAX 12.5	BER 2001 MIN DECEMBER 12.0	TO SEPT MEAN 12.0	EMBER 2002 MAX 0.5	MIN JANUARY 0.0	MEAN
YEAR DAY 1 2	314 MAX 15.0 16.5	100 WATER 7 MIN OCTOBER 14.5 14.0	196 TEMPERATU MEAN R 14.5 15.0	RE, in (D) MAX 11.5 13.5	EGREES C) MIN NOVEMBER 9.5 11.0	, WATER MEAN 10.5 12.0	YEAR OCTO MAX 12.5 12.0	BER 2001 MIN DECEMBER 12.0 10.0	TO SEPT MEAN 12.0 11.0	EMBER 2002 MAX 0.5 0.5	MIN JANUARY 0.0 0.0	MEAN 0.0
YEAR DAY 1 2 3	314 MAX 15.0 16.5 18.5	100 WATER 7 MIN OCTOBER 14.5 14.0 15.5	196 TEMPERATU MEAN R 14.5 15.0 17.0	RE, in (D) MAX 11.5 13.5 13.5	EGREES C) MIN NOVEMBER 9.5 11.0 13.0	, WATER MEAN 10.5 12.0 13.5	YEAR OCTO MAX 12.5 12.0 10.0	BER 2001 MIN DECEMBER 12.0 10.0 9.0	TO SEPT MEAN 12.0 11.0 9.5	EMBER 2002 MAX 0.5 0.5 0.5	MIN JANUARY 0.0 0.0 0.0	MEAN 0.0 0.0 0.0
YEAR DAY 1 2 3 4	314 MAX 15.0 16.5 18.5 19.5	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0	196 TEMPERATU MEAN R 14.5 15.0 17.0 18.0	RE, in (D MAX 11.5 13.5 13.5 13.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0	, WATER MEAN 10.5 12.0 13.5 12.5	YEAR OCTO MAX 12.5 12.0 10.0 9.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5	TO SEPT MEAN 12.0 11.0 9.5 9.0	EMBER 2002 MAX 0.5 0.5 0.5 0.5	MIN JANUARY 0.0 0.0 0.0 0.0	MEAN 0.0 0.0 0.0 0.5
YEAR DAY 1 2 3 4 5	314 MAX 15.0 16.5 18.5 19.5 19.5	100 WATER 7 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5	196 TEMPERATU MEAN R 14.5 15.0 17.0 18.0 18.5	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5	EMBER 2002 MAX 0.5 0.5 0.5 0.5 1.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0	MEAN 0.0 0.0 0.0 0.5 1.0
YEAR DAY 1 2 3 4 5	314 MAX 15.0 16.5 18.5 19.5 19.5	100 WATER 7 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.0 18.5	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5	EMBER 2002 MAX 0.5 0.5 0.5 0.5 1.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0	MEAN 0.0 0.0 0.0 0.5 1.0
YEAR DAY 1 2 3 4 5 6 7	314 MAX 15.0 16.5 18.5 19.5 19.5 19.0	100 WATER 7 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 18.5	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0 9.5 9.0	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0	EMBER 2002 MAX 0.5 0.5 0.5 0.5 1.5 1.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5	MEAN 0.0 0.0 0.0 0.5 1.0 1.0
YEAR DAY 1 2 3 4 5 6 7 8	314 MAX 15.0 16.5 18.5 19.5 19.5 19.0 18.0 15.5	100 WATER 2 MIN OCTOBEI 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 18.5 16.5 14.5	RE, in (D) MAX 11.5 13.5 13.0 12.5 10.0 10.5 11.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.5	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0 9.5 10.0 8.5	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.0	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 0.5
YEAR DAY 1 2 3 4 5 6 7 8 9	314 MAX 15.0 16.5 18.5 19.5 19.5 19.0 18.0 15.5	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 15.5 14.2 12.5	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 18.5 16.5 14.5 14.0	RE, in (D) MAX 11.5 13.5 13.0 12.5 10.0 10.5 11.0 11.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.0 9.5 10.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5	YEAR OCTO MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0 9.5 10.0 8.5 7.5	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5 8.0	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.0 1.0	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.0 0.5	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 0.5 1.0
YEAR DAY 1 2 3 4 5 6 7 8 9 10	314 MAX 15.0 16.5 18.5 19.5 19.5 19.0 18.0 15.5 15.0	100 WATER 2 MIN OCTOBES 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 18.5 16.5 14.5 14.0 14.0	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 11.0 10.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 10.5 9.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 9.5 10.0 8.5 7.5 6.5	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5 8.0 7.0	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5 1.0 1.0 2.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0	MEAN 0.0 0.0 0.5 1.0 1.0 0.5 1.0 1.0 1.5
YEAR DAY 1 2 3 4 5 6 7 8 9 10	314 MAX 15.0 16.5 18.5 19.5 19.0 18.0 15.5 15.0 15.0	100 WATER 2 MIN OCTOBES 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.0 18.5 18.5 16.5 14.5 14.0 14.0	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 11.0 11.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0	, WATER MEAN 10.5 12.0 13.5 11.5 11.5 10.0 10.5 10.5 9.5	YEAR OCTO MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 9.0 9.5 10.0 8.5 7.5 6.5	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5 8.0 7.0	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5 1.0 1.0 2.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 0.5 1.0	MEAN 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.5
YEAR DAY 1 2 3 4 5 6 7 8 9 10 11	314 MAX 15.0 16.5 19.5 19.5 19.5 19.0 18.0 15.5 15.0 15.0 15.0	100 WATER 2 MIN OCTOBEI 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0 14.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.0 18.5 16.5 14.5 14.5 14.0 14.0 14.0	RE, in (D) MAX 11.5 13.5 13.0 12.5 10.0 10.5 11.0 11.0 11.0 10.0 9.5	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 10.5 9.5 9.0	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 	BER 2001 MIN DECEMBER 12.0 9.0 8.5 9.0 9.0 9.0 9.0 10.0 8.5 7.5 6.5 	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 8.0 7.0	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.0 1.0 2.5 3.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 2.5	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 1.5 2.5
YEAR DAY 1 2 3 4 5 6 7 8 9 10 11 12 2	314 MAX 15.0 16.5 19.5 19.5 19.0 15.0 15.0 16.5 17.0	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0 14.0 15.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 16.5 14.5 14.5 14.0 14.0 15.0 15.0 16.0	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 10.0 11.0 10.0 9.5 8.5	EGREES C) MIN NOVEMBER 9.5 11.0 12.0 10.0 9.0 9.5 10.0 9.5 10.0 9.0 8.5 7.5	, WATER MEAN 10.5 12.0 13.5 11.5 9.5 10.0 10.5 9.5 9.5 9.0 8.0	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 	BER 2001 MIN DECEMBER 12.0 10.0 9.0 9.5 10.0 8.5 7.5 6.5 	TO SEPT MEAN 12.0 11.0 9.0 9.5 10.0 10.5 9.5 8.0 7.0 	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.0 1.0 2.5 3.5 4.0	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 2.5 3.0	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 1.0 1.5 2.5 3.5
YEAR DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	314 MAX 15.0 16.5 18.5 19.5 19.5 19.0 18.0 15.0 15.0 16.5 17.0 18.0	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 15.5 13.0 14.0 15.0 15.0 15.0 15.0 15.0	196 TEMPERATU MEAN 3 14.5 15.0 17.0 18.0 18.5 16.5 14.5 14.5 14.0 14.0 15.0 16.0 17.0 17.0	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 10.0 11.0 10.0 9.5 8.5 8.0 8.0	EGREES C) MIN NOVEMBER 9.5 11.0 12.0 10.0 9.0 9.5 10.0 9.0 8.5 7.5 7.0 6 5	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 10.5 9.5 9.0 8.0 7.5	YEAR OCTO MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 7.5 8.5	BER 2001 MIN DECEMBER 12.0 10.0 9.0 8.5 7.5 6.5 6.5 7.0	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5 8.0 7.0 7.0 7.5 8.0	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.0 2.5 3.5 4.0 4.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 2.5 3.0 3.0 3.0	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 1.5 2.5 3.5 3.5 3.5
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YEAR DAY 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	314 MAX 15.0 16.5 19.5 19.5 19.5 19.0 15.0 15.0 15.0 15.0 16.5 17.0 18.0 18.5 17.5 16.0 14.5 14.0 14.5 15.0 16.0 17.5 17.5 16.0 11.5	100 WATER 2 MIN OCTOBES 14.5 14.0 15.5 14.0 15.5 14.0 15.5 14.0 15.0 16.0 17.0 15.5 14.0 15.0 16.0 17.0 15.5 14.0 15.5 14.0 15.5 14.0 15.5 14.0 12.5 13.0 14.0 12.5 13.0 14.0 12.5 14.0 12.5 14.0 15.5 14.0 12.5 14.0 12.5 13.0 14.0 15.5 15.5 14.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 16.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 15.5 10.0 14.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	196 TEMPERATU MEAN 14.5 15.0 17.0 18.0 18.5 18.5 16.5 14.0 15.0 15.0 17.5 16.5 17.5 16.5 13.5 13.5 13.0 13.5 14.0 15.5 16.5 15.5 13.0 15.5 14.0 15.5 16.5 17.0 15.5 14.0 15.5 14.0 15.5 14.0 15.5 14.0 15.5 14.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 18.0 18.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 15.5 15.5 15.5 13.5 13.5 13.5 13.5 13.5 13.0 13.5 14.0 15.0 15.5 14.0 15.5 13.5 13.0 13.5 14.0 15.5 14.0 15.5 14.0 15.5 14.0 15.5 15.5 13.0 13.5 14.0 15.0 15.5 14.0 15.5 14.0 15.5 15.5 14.0 15.5 14.0 15.0 15.5 15.5 13.5 14.0 15.5 16.5 17.5 16.5 17.5 16.5 17.5 16.5 17.0 15.5 16.5 17.0 15.5 16.5 17.0 15	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 11.0 10.0 9.5 8.5 8.0 8.0 9.5 9.5 9.5 9.5 9.5 9.5 8.5 7.5 9.0 11.0 11.5 11.0 11.0	EGREES C) MIN NOVEMBER 9.5 11.0 13.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 8.5 7.5 7.5 8.5 9.0 8.5 7.5 8.5 9.0 8.0 8.0 8.0 8.5 7.0 6.0 7.5 9.0 10.5 9.0 10.5 9.0	<pre>, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 9.0 8.0 7.5 8.5 9.5 9.0 7.5 7.5 8.5 9.5 9.0 7.0 7.0 8.0 10.0 11.0 10.5</pre>	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 7.5 8.5 8.5 8.5 8.5 7.5 7.5 7.5 6.5 7.5 7.0 6.5 5.5 4.5 4.0 5.0 4.0 3.5 3.00 4.0 3.5 3.00 2.0	BER 2001 MIN DECEMBER 12.0 10.0 9.0 9.5 10.0 8.5 7.5 6.5 7.0 7.0 7.0 7.0 7.0 7.0 6.0 6.0 6.5 6.0 5.5 4.5 3.5 3.5 3.5 3.5 3.5 3.0 2.0 0.0 1.0	TO SEPT MEAN 12.0 11.0 9.5 10.0 10.5 9.5 10.0 10.5 8.0 7.0 7.5 8.0 8.0 6.5 6.0 5.0 4.0 4.0 4.5 3.5 3.0 2.5 1.5	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5 1.0 1.0 2.5 3.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 5.0 5.0 5.0	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 2.5 3.0 2.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	MEAN 0.0 0.0 0.0 0.5 1.0 1.0 1.0 1.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 1.5 2.5 2.5 4.0 4.5 4.5 4.0 4.5 4.5 4.5 4.0
YEAR DAY 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	314 MAX 15.0 16.5 19.5 19.5 19.5 19.0 18.0 15.0 15.0 16.5 17.0 18.0 18.5 17.5 16.0 14.5 14.0 14.5 15.0 16.0 17.5 17.5 16.0 17.5 16.0 11.5 17.5	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0 14.0 15.5 14.0 17.0 17.0 15.5 14.0 17.0 17.0 17.5 14.0 12.5 13.0 14.0 12.5 13.0 14.0 12.5 13.0 12.5 13.0 14.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 13.0 12.5 14.0 15.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 17.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 14.0 12.5 15.5 14.0 12.5 14.0 12.5 15.5 14.0 12.5 15.5 14.0 12.5 15.5 15.5 14.0 12.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	196 TEMPERATU MEAN 14.5 15.0 17.0 18.5 18.5 16.5 14.0 14.0 15.0 16.0 17.0 17.5 17.5 16.5 13.5 13.5 13.5 13.5 14.0 15.5 13.5 13.5 14.0 15.5 13.5 13.5 14.0 15.5 13.5 13.5 14.5 15.5 13.5 13.5 14.5 15.5 13.5 13.5 14.5 15.5 13.5 15.5 13.5 15.5 13.5 15.0 15	RE, in (D) MAX 11.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 10.0 9.5 8.5 8.0 8.0 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	EGREES C) MIN NOVEMBER 9.5 11.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0 8.5 7.5 7.5 8.5 9.0 8.0 8.0 8.0 8.5 7.5 8.5 9.0 8.0 8.0 8.5 7.5 10.0 9.0 9.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.5 10.0 9.0 9.5 10.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 9.0 9.5 10.0 9.0 9.0 9.0 9.0 9.0 9.5 10.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 9.5 9.0 8.0 7.5 7.5 8.5 9.5 9.0 8.0 7.5 7.5 7.5 9.0 8.0 7.5 7.5 7.5 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 10.0 10	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 8.5 8.5 7.5 7.5 8.5 8.5 7.5 6.5 7.5 8.5 8.5 7.0 6.5 7.5 8.5 8.5 7.0 6.5 7.5 8.5 8.5 8.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.0 6.5 7.5 8.5 8.5 7.0 6.5 7.5 8.5 8.5 7.0 6.5 7.5 7.0 6.5 7.5 8.5 8.5 7.0 7.0 7.5 8.5 8.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7	BER 2001 MIN DECEMBER 12.0 10.0 9.0 9.5 10.0 8.5 9.0 9.5 10.0 8.5 7.5 6.5 7.0 6.0 6.0 6.0 6.0 6.5 6.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 1.0 1.5	TO SEPT MEAN 12.0 11.0 9.5 10.0 10.5 9.5 10.0 10.5 8.0 7.0 7.5 8.0 8.0 8.0 6.5 6.5 7.0 6.5 6.0 5.0 4.0 4.0 4.0 3.5 3.0 2.5 1.5 1.5	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5 1.0 1.0 2.5 3.5 4.0 4.5 4.0 4.0 4.0 4.0 4.0 3.5 3.0 2.0 2.0 3.0 3.5 5.0 5.0 5.5	MIN JANUARY 0.0 0.0 0.0 0.0 0.0 0.5 1.0 0.5 1.0 2.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 1.0 1.5 3.55 3.5 3.5 3.5 3.5 3.5 3.5
YEAR DAY 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	314 MAX 15.0 16.5 19.5 19.5 19.5 19.5 19.0 18.0 15.5 15.0 16.5 17.0 18.0 18.5 17.5 16.0 14.5 15.0 16.0 14.5 17.5 16.0 14.0 11.5 17.5 12.0	100 WATER 2 MIN OCTOBER 14.5 14.0 15.5 17.0 17.5 18.0 15.5 14.0 12.5 13.0 14.0 15.5 13.0 14.0 15.5 14.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	196 TEMPERATU MEAN 14.5 15.0 17.0 18.5 16.5 14.0 14.0 15.0 16.0 17.0 15.0 16.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 14.0 15.5 13.5 13.5 14.0 15.5 13.5 13.5 14.5 15.5 13.5 13.5 14.5 15.5 13.5 14.5 15.5 13.5 14.5 15.5 13.5 15.5 13.5 15	RE, in (D) MAX 11.5 13.5 13.5 13.5 13.0 12.5 10.0 10.5 11.0 10.0 9.5 8.5 8.0 9.5 10.0 10.0 9.5 9.5 8.5 7.5 9.5 8.5 7.5 9.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0	EGREES C) MIN NOVEMBER 9.5 11.0 12.0 10.0 9.0 9.0 9.5 10.0 9.0 9.5 10.0 9.0 8.5 7.5 8.5 7.5 8.5 9.0 8.0 8.0 8.0 8.0 8.5 7.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 7.5 9.0 10.5 9.5 10.0 11.0 11.0 11.0 11.0 11.0 11.0 11	, WATER MEAN 10.5 12.0 13.5 12.5 11.5 9.5 10.0 10.5 10.5 9.5 9.0 8.0 7.5 7.5 9.0 9.0 8.0 7.5 9.5 9.0 9.0 9.0 9.0 7.5 7.0 7.0 7.0 8.0 10.0 10.0 11.0 10.0 11.0 10.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.5 11.5	YEAR OCTOI MAX 12.5 12.0 10.0 9.5 10.0 10.5 11.0 10.5 8.5 7.5 7.5 7.5 7.5 8.5 8.5 8.5 7.5 7.5 7.5 7.5 6.5 7.5 7.0 6.5 7.5 7.0 6.5 5.5 4.0 4.0 5.0 4.0 3.5 3.0 2.0 1.5	BER 2001 MIN DECEMBER 12.0 10.0 8.5 9.0 9.5 10.0 8.5 7.5 6.5 7.0 7.5 7.0 6.0 6.0 6.0 6.5 6.0 6.5 6.0 6.5 6.5 4.5 3.5 3.5 4.5 3.5 3.5 4.0 3.5 3.5 4.5 3.5 4.5 3.5 3.5 4.5 3.5 4.5 3.5 4.5 3.5 5 4.5 3.5 5 4.5 3.5 5 4.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	TO SEPT MEAN 12.0 11.0 9.5 9.0 9.5 10.0 10.5 9.5 8.0 7.0 6.5 7.0 6.5 7.0 6.5 6.5 7.0 6.5 6.5 7.0 6.5 5.0 4.0 4.0 4.0 4.5 3.0 2.5 1.5 1.5	EMBER 2002 MAX 0.5 0.5 0.5 1.5 1.5 1.5 1.5 1.5 1.0 2.5 3.5 4.0 4.5 4.0 4.0 4.0 4.0 4.0 4.0 2.0 3.0 2.0 2.0 3.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	MIN JANUARY 0.0 0.0 0.0 0.0 0.5 1.0 2.5 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	MEAN 0.0 0.0 0.5 1.0 1.0 1.0 1.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 2.5 4.5 4.5 4.5 4.5 5.5

MONTH 19.5 9.5 15.0 13.5 6.0 9.7 12.5 0.0 6.3 6.0 0.0 2.6

SPECIFIC CONDUCTANCE, in US/CM @ 25C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER TEMPERATURE, IN (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002	WATER	TEMPERATURE,	in	(DEGREES	C),	WATER	YEAR	OCTOBER	2001	то	SEPTEMBER	2002
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DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.5	5.0	5.0	7.0	4.5	6.0	10.5	9.5	10.0	12.0	10.5	11.0
2	5.0	3.0	4.0	6.5	5.0	6.0	11.5	9.5	10.5	12.0	11.0	11.5
3	3.0	2.5	2.5	8.0	6.5	7.5	12.5	11.0	11.5	12.5	11.5	12.0
4	2.5	1.5	2.0	7.5	6.0	7.0	11.5	10.0	10.5	13.0	11.5	12.0
5	1.5	0.5	1.0	6.0	5.0	5.5	10.5	9.0	10.0	14.0	12.0	13.0
6	2.0	1.0	1.5	6.0	4.5	5.5	9.5	8.5	9.0	15.0	13.0	14.0
7	2.5	2.0	2.0	7.5	5.5	6.5	9.5	8.0	8.5	17.0	14.5	15.5
8	3.5	2.0	2.5	8.0	6.5	7.0	9.5	8.5	9.0	18.0	16.5	17.0
9	4.0	2.5	3.0	10.0	7.0	8.5	11.5	9.5	10.5	17.5	16.0	17.0
10	5.5	3.5	4.5	10.5	8.0	9.5	13.0	11.5	12.0	18.0	16.0	17.0
11	5.5	4.0	5.0	8.0	6.5	7.5	13.5	12.0	12.5	18.0	16.5	17.0
12	4.0	3.5	3.5	7.5	6.5	7.0	12.5	12.5	12.5	17.5	16.5	17.0
13	4.5	3.0	4.0	7.5	7.0	7.0	14.5	12.5	13.5			
15	3.5	2.5	3.0	9.5	7.0	8.0	17.5	14.0	15.0			
15	3.0	2.5	3.0	10.5	0.5	9.5	17.5	13.0	10.0			
16	4.5	3.0	3.5	10.5	9.5	10.0	18.5	16.0	17.0			
17	5.0	4.0	4.5	9.5	7.5	8.0	19.5	17.5	18.5	15.5	13.5	14.5
18	4.5	3.0	3.5	7.5	7.0	7.0	20.5	18.5	19.5	15.0	14.0	14.5
19	5.0	3.0	4.0	8.0	7.0	7.5	21.0	19.5	20.5	14.0	13.5	13.5
20	6.0	4.5	5.0	8.0	7.0	7.5	21.0	19.5	20.0	13.5	12.5	13.0
21	8.0	6.0	6.5	8.0	6.5	7.5	19.5	16.5	18.0	12.5	11.5	12.0
22	8.0	6.5	7.5	8.0	6.0	6.5	16.5	15.0	16.0	13.5	11.0	12.5
23	8.0	6.0	7.0	7.0	5.5	6.0	15.0	13.5	14.0	14.5	12.0	13.5
24	8.0	6.0	7.0	7.0	6.0	6.5	15.0	13.0	14.0	16.5	13.5	15.0
25	8.0	6.0	7.0	7.0	6.5	6.5	14.0	12.0	13.0	17.5	10.0	10.5
26	9.0	6.5	8.0	7.0	6.5	6.5	13.5	11.5	12.5	17.5	16.5	17.0
27	8.5	6.5	7.5	8.0	6.5	7.0	14.0	12.5	13.0	18.5	17.0	18.0
28	7.0	5.0	6.0	8.0	6.5	7.5	13.5	13.0	13.0	19.5	18.5	19.0
29				7.5	6.0	7.0	13.0	12.0	12.5	21.0	19.5	20.0
30				9.0	7.0	8.0	12.0	11.0	11.5	20.5	19.0	19.5
31				9.5	8.5	9.0				20.0	18.0	19.0
MONTH	9.0	0.5	4.4	10.5	4.5	7.3	21.0	8.0	13.5	21.0	10.5	15.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN	MAX	MIN SEPTEMBE	mean Ir
DAY 1	MAX 21.5	MIN JUNE 19.5	MEAN 20.5	MAX 27.5	MIN JULY 25.5	MEAN 26.5	MAX 30.5	MIN AUGUST 27.5	MEAN 29.0	MAX 21.5	MIN SEPTEMBE 20.5	MEAN IR 21.0
DAY 1 2	MAX 21.5 21.5	MIN JUNE 19.5 20.0	MEAN 20.5 21.0	MAX 27.5 29.0	MIN JULY 25.5 26.0	MEAN 26.5 27.0	MAX 30.5 31.0	MIN AUGUST 27.5 28.5	MEAN 29.0 29.5	MAX 21.5 21.0	MIN SEPTEMBE 20.5 19.5	MEAN ER 21.0 20.0
DAY 1 2 3	MAX 21.5 21.5 21.5	MIN JUNE 19.5 20.0 20.0	MEAN 20.5 21.0 21.0	MAX 27.5 29.0 30.0	MIN JULY 25.5 26.0 27.0	MEAN 26.5 27.0 28.5	MAX 30.5 31.0 30.5	MIN AUGUST 27.5 28.5 27.5	MEAN 29.0 29.5 29.0	MAX 21.5 21.0 23.0	MIN SEPTEMBE 20.5 19.5 20.0	MEAN ER 21.0 20.0 21.5
DAY 1 2 3 4	MAX 21.5 21.5 21.5 21.0	MIN JUNE 19.5 20.0 20.0 20.0	MEAN 20.5 21.0 21.0 20.5	MAX 27.5 29.0 30.0 31.0	MIN JULY 25.5 26.0 27.0 28.0	MEAN 26.5 27.0 28.5 29.5	MAX 30.5 31.0 30.5 31.5	MIN AUGUST 27.5 28.5 27.5 28.5	MEAN 29.0 29.5 29.0 30.0	MAX 21.5 21.0 23.0 25.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5	MEAN 21.0 20.0 21.5 23.5
DAY 1 2 3 4 5	MAX 21.5 21.5 21.5 21.0 22.0	MIN JUNE 19.5 20.0 20.0 20.0 19.5	MEAN 20.5 21.0 21.0 20.5 20.5	MAX 27.5 29.0 30.0 31.0 30.0	MIN JULY 25.5 26.0 27.0 28.0 28.0	MEAN 26.5 27.0 28.5 29.5 29.0	MAX 30.5 31.0 30.5 31.5 30.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0	MEAN 29.0 29.5 29.0 30.0 29.5	MAX 21.5 21.0 23.0 25.0 25.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0	MEAN ER 21.0 20.0 21.5 23.5 24.0
DAY 1 2 3 4 5 6	MAX 21.5 21.5 21.5 21.0 22.0 22.0	MIN JUNE 19.5 20.0 20.0 20.0 19.5 21.0	MEAN 20.5 21.0 21.0 20.5 20.5 21.5	MAX 27.5 29.0 30.0 31.0 30.0 28.0	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5	MEAN 26.5 27.0 28.5 29.5 29.0 27.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0	MAX 21.5 21.0 23.0 25.0 25.0 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5	MEAN 21.0 20.0 21.5 23.5 24.0 23.5
DAY 1 2 3 4 5 6 7	MAX 21.5 21.5 21.5 21.0 22.0 22.0 21.0	MIN JUNE 19.5 20.0 20.0 20.0 19.5 21.0 19.5	MEAN 20.5 21.0 21.0 20.5 20.5 21.5 20.0	MAX 27.5 29.0 30.0 31.0 30.0 28.0 27.0	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5 25.0	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5	MAX 21.5 21.0 23.0 25.0 25.0 24.5 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5
DAY 1 2 3 4 5 6 7 8	MAX 21.5 21.5 21.0 22.0 22.0 21.0 19.5	MIN JUNE 19.5 20.0 20.0 20.0 19.5 21.0 19.5 18.5	MEAN 20.5 21.0 20.5 20.5 21.5 20.0 19.0	MAX 27.5 29.0 30.0 31.0 30.0 28.0 27.0 28.0	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5 25.0 25.0	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 26.5	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.5 24.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0	MAX 21.5 21.0 23.0 25.0 25.0 24.5 24.5 24.5 25.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0 22.5	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 23.5
DAY 1 2 3 4 5 6 7 8 9	MAX 21.5 21.5 21.0 22.0 22.0 21.0 19.5 19.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5	MEAN 20.5 21.0 20.5 20.5 21.5 20.0 19.0 18.5	MAX 27.5 29.0 30.0 31.0 30.0 28.0 28.0 28.0 28.5	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5 25.0 25.0 25.5	MEAN 26.5 27.0 28.5 29.0 27.0 26.0 26.0 26.5 27.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.5 24.0 24.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5	MAX 21.5 21.0 23.0 25.0 25.0 24.5 24.5 25.0 25.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0 22.5 23.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 23.5 23.5 24.5
DAY 1 2 3 4 5 6 7 8 9 10	MAX 21.5 21.5 21.5 21.0 22.0 22.0 21.0 19.5 19.5 20.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5	MEAN 20.5 21.0 20.5 20.5 20.5 21.5 20.0 19.0 18.5 19.5	MAX 27.5 29.0 30.0 31.0 30.0 28.0 28.0 28.5 28.5	MIN JULY 25.5 26.0 28.0 28.0 28.0 28.0 26.5 25.0 25.0 25.5 26.0	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 26.5 27.0 27.0 27.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0 27.5	MIN AUGUST 27.5 28.5 28.5 29.0 26.5 24.5 24.0 24.0 24.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0	MAX 21.5 21.0 23.0 25.0 25.0 24.5 24.5 25.0 25.5 26.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0 22.5 23.0 24.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 23.5 23.5 24.5 25.0
DAY 1 2 3 4 5 6 7 8 9 10 11	MAX 21.5 21.5 21.5 22.0 22.0 21.0 19.5 19.5 20.5 22.0	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0	MEAN 20.5 21.0 21.0 20.5 20.5 21.5 20.0 19.0 18.5 19.5 21.0	MAX 27.5 29.0 30.0 31.0 28.0 27.0 28.5 28.5 28.5	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5 25.0 25.0 25.5 26.0 25.5 26.0 22.5	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 26.5 27.0 27.0 27.0 26.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0 27.5 28.0	MIN 27.5 28.5 27.5 28.5 29.0 26.5 24.5 24.0 24.0 24.5 25.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.0 25.5 26.5 26.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0 22.5 23.0 24.0 22.5	MEAN 20.0 21.5 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12	MAX 21.5 21.5 21.5 21.0 22.0 21.0 22.0 21.0 19.5 19.5 20.5 22.0 22.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5	MEAN 20.5 21.0 20.5 20.5 21.5 20.0 19.0 18.5 19.5 21.0 22.0	MAX 27.5 29.0 30.0 31.0 30.0 28.0 28.0 28.0 28.5 28.5 27.0 27.5	MIN JULY 25.5 26.0 27.0 28.0 28.0 28.0 26.5 25.0 25.0 25.5 26.0 24.5 24.0	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 27.0 27.0 27.0 26.0 25.5	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0 27.0 27.5 28.0 28.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.5 24.0 24.0 24.0 24.5 25.0 26.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.5 26.5 26.5 26.0 23.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 22.0 22.5 23.0 24.0 22.5 21.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13	MAX 21.5 21.5 21.0 22.0 21.0 21.0 19.5 19.5 20.5 22.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 17.5 18.5 20.0 21.5 21.0	MEAN 20.5 21.0 20.5 20.5 20.5 20.5 19.0 18.5 19.5 21.0 22.0 22.0 22.0	MAX 27.5 29.0 30.0 31.0 28.0 27.0 28.5 28.5 28.5 27.0 27.5 26.5	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 25.5 26.0 24.5 24.0 24.5	MEAN 26.5 27.0 28.5 29.0 27.0 26.0 26.5 27.0 27.0 27.0 26.0 25.5 25.5	MAX 30.5 31.0 30.5 31.5 29.5 26.0 27.0 27.5 28.0 28.5 29.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.5 25.0 26.0 26.0 27.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5	MAX 21.5 21.0 25.0 25.0 24.5 24.5 25.0 25.5 26.5 26.5 23.0 23.0 22.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 24.0 22.5 21.0 20.5	MEAN 20.0 21.5 23.5 24.0 23.5 23.5 23.5 23.5 24.5 25.0 24.5 25.0 24.5 22.0 21.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14	MAX 21.5 21.5 21.5 21.0 22.0 22.0 22.0 21.0 19.5 19.5 20.5 22.5 22.5 22.5 22.0	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5	MEAN 20.5 21.0 20.5 20.5 20.5 21.5 20.0 19.0 18.5 19.5 21.0 22.0 21.5 20.0	MAX 27.5 29.0 30.0 31.0 30.0 28.0 28.0 28.5 28.5 28.5 27.0 27.5 26.5 	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 25.5 26.0 24.5 24.5 24.5	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 27.0 27.0 26.0 27.0 25.5 25.5 25.5	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.0 27.0 27.0 27.5 28.0 28.5 29.5 30.0	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.0 24.5 25.0 25.0 27.0 27.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5 28.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.5 26.5 26.0 23.0 22.5 23.0	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 22.5 23.0 24.0 22.5 21.0 20.5 21.5	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 22.5 24.5 22.0 24.5 22.0 21.5 22.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MAX 21.5 21.5 21.5 21.0 22.0 21.0 21.0 21.0 19.5 19.5 20.5 22.0 22.5 21.0 19.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5 18.5	MEAN 20.5 21.0 20.5 20.5 20.5 21.5 20.0 19.0 18.5 19.5 21.0 221.0 221.5 20.0 19.0	MAX 27.5 29.0 30.0 31.0 28.0 28.0 28.5 28.5 27.0 27.5 26.5 	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 25.5 26.0 24.5 24.0 24.5 	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 26.5 27.0 27.0 27.0 25.5 25.5 25.5 	MAX 30.5 31.0 30.5 31.5 29.5 26.5 26.0 27.0 27.0 27.5 28.0 28.5 29.5 30.0 29.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.5 25.0 26.0 27.5 27.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5 28.5 28.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.5 26.5 26.5 23.0 23.0 23.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 22.5 23.0 24.0 22.5 21.0 20.5 21.5 23.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 25.0 24.5 25.0 24.5 22.5 22.5 22.5 23.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MAX 21.5 21.5 21.5 21.0 22.0 22.0 22.0 19.5 20.5 22.5 22.5 21.0 19.5 19.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5 18.5 17.5	MEAN 20.5 21.0 20.5 20.5 21.5 20.5 19.0 18.5 19.5 21.0 22.0 21.5 20.0 19.0 18.5	MAX 27.5 29.0 30.0 31.0 28.0 28.0 28.5 28.5 27.0 27.5 26.5 	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 24.5 24.0 24.5 24.0 24.5	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 27.0 26.0 27.0 26.0 25.5 27.5 	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0 27.0 27.5 28.0 28.5 29.5 30.0 29.5 30.0	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.0 24.5 25.0 26.0 27.5 27.5 28.0	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5 28.5 28.5 28.5 29.0	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.5 26.5 26.0 23.0 22.5 23.0 23.5 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 22.5 21.0 20.5 21.5 23.0 24.5 21.5 23.0 23.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 24.0 23.5 24.5 22.0 24.5 22.0 21.5 22.0 21.5 22.5 23.5 23.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MAX 21.5 21.5 21.0 22.0 22.0 21.0 19.5 20.5 22.5 22.5 22.5 21.0 22.5 21.5 19.5 19.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 21.0 19.5 21.0 19.5 18.5 21.0 19.5 18.5	MEAN 20.5 21.0 20.5 20.5 21.5 20.0 19.0 18.5 19.5 21.0 22.0 21.5 20.0 19.0 18.5 19.0	MAX 27.5 29.0 30.0 31.0 28.0 27.0 28.5 28.5 27.0 27.5 26.5 	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.0 25.5 26.0 24.5 24.0 24.5 24.0 24.5 	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 27.0 27.0 25.5 25.5 	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.5 26.0 27.0 27.5 28.0 28.5 29.5 30.0 29.5 30.0 30.5	MIN AUGUST 27.5 28.5 27.5 28.5 27.5 28.5 24.5 24.0 24.0 24.0 24.5 25.0 26.0 27.0 27.5 28.5 28.5 28.5 28.5 29.0 26.0 27.5 28.5 28.5 28.5 28.5 29.5 20.5 29.5 20.5	MEAN 29.0 29.5 29.0 30.0 25.5 25.0 25.5 26.0 25.5 26.5 27.5 28.5 28.5 28.5 28.5 28.5 29.0 29.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.0 25.5 26.5 26.5 23.0 23.5 23.5 24.5 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 24.0 24.0 20.5 21.5 21.0 20.5 21.5 23.0 23.0 23.0 23.0 23.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 25.0 24.5 25.0 24.5 22.0 21.5 22.5 23.5 23.5 23.5 23.5 23.5
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MAX 21.5 21.5 21.5 21.0 22.0 21.0 21.0 19.5 19.5 20.5 22.5 22.5 21.0 19.5 19.0 19.5 19.0 19.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5 18.5 18.5 17.5 18.5 18.5	MEAN 20.5 21.0 20.5 20.5 20.5 20.5 19.0 19.0 18.5 19.5 21.0 22.0 21.5 20.0 19.0 18.5 19.0 19.0 19.0	MAX 27.5 29.0 30.0 31.0 28.0 28.0 28.5 28.5 27.0 27.5 26.5 	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 24.5 24.0 24.5 	MEAN 26.5 27.0 28.5 29.0 27.0 26.0 26.0 27.0 27.0 27.0 27.0 25.5 25.5 25.5 	MAX 30.5 31.0 30.5 30.5 29.5 26.0 27.0 28.0 28.5 29.5 30.0 29.5 30.0 29.5 30.0 29.5 31.0	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.5 25.0 26.5 24.5 27.5 28.0 26.5 27.5 28.5 28.5 29.0 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 24.5 25.5 25.5 25.5 25.5 24.5 25.5 27.5 27.5 27.5 27.5 28.0 28.0 28.5 28.0 28.5 29.5 29.5 29.5 29.5 27.5 28.0 28.5 29.5 29.5 29.5 29.5 29.5 27.5 29.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5 28.5 28.5 28.5 28.5 28.5 29.0 29.5 30.0	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.0 25.5 26.5 26.5 23.0 23.5 23.0 23.5 24.5 24.5 24.5 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 22.5 23.0 24.0 22.5 21.0 20.5 21.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0 22.5 23.0	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.0 24.5 25.5 22.5 23.5 22.5 23.5 22.5 23.5 23.5 23.5 23.5 22.5 23.0
DAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MAX 21.5 21.5 21.5 21.0 22.0 22.0 22.0 22.0 29.5 20.5 22.5 22.5 22.5 21.0 19.5 19.5 19.0 19.5 20.5	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5 18.5 18.5 18.5 18.5 18.5 18.0	MEAN 20.5 21.0 20.5 20.5 21.5 20.5 19.0 18.5 19.5 21.0 22.0 21.5 20.0 19.0 19.0 19.0 19.5	MAX 27.5 29.0 30.0 31.0 30.0 28.0 28.0 28.5 28.5 27.0 27.5 26.5 29.0	MIN JULY 25.5 26.0 27.0 28.0 28.0 26.5 25.0 25.5 26.0 24.5 24.0 24.5 24.5 27.5	MEAN 26.5 27.0 28.5 29.5 29.0 27.0 26.0 27.0 26.0 27.0 26.0 25.5 25.5 28.0	MAX 30.5 31.0 30.5 31.5 30.5 29.5 26.0 27.0 27.5 28.0 28.5 30.0 29.5 30.0 29.5 30.0 30.5	MIN AUGUST 27.5 28.5 27.5 28.5 29.0 26.5 24.0 24.0 24.0 24.0 24.0 24.5 25.0 26.5 24.0 24.5 25.0 26.5 24.0 24.5 25.0 26.5 24.0 24.5 25.0 26.5 25.0 26.5 25.0 26.5 27.5 28.5 28.5 29.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 25.5 24.5 24.5 24.5 25.5 25.5 24.5 24.5 25.5 24.5 24.5 25.5 24.5 24.5 25.5 24.5 25.5 24.5 24.5 25.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 24.5 25.5 25.5 24.5 25.5 24.5 25.5 25.5 25.5 24.5 25.5 25.5 25.5 24.5 25.5 25.5 25.5 25.5 25.5 24.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5 27.5 27.5 27.5 28.5 27.5 28.5 27.5 28.5 27.5 28.5 28.5 28.0 28.5 29.5 28.0 28.5 29.5 28.0 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 29.5 28.5 28.5 28.5 29.5 28.5	MEAN 29.0 29.5 29.0 30.0 29.5 28.0 25.5 25.0 25.5 26.0 26.5 27.5 28.5 28.5 28.5 28.5 28.5 29.0 29.5 30.0 29.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 26.0 23.0 23.5 24.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 22.5 23.0 24.0 22.5 21.0 20.5 21.5 23.0 22.5 23.0 22.5 21.5 23.0 22.5 23.0 22.5 21.5 23.0 22.5 21.5 23.0 22.5 22.5 22.5 22.5 22.5 22.5 22.5 22	MEAN 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 22.5 24.5 22.0 24.5 22.0 24.5 22.5 23.5 23.5 23.5 23.5 23.5 23.5 23
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DAY 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 MONTH	MAX 21.5 21.5 21.0 22.0 21.0 19.5 19.5 20.5 22.5 21.0 19.5 22.5 21.0 19.5 20.5 20.0 21.5 20.5 20.0 21.5 20.0 21.5 20.0 21.0 19.5 20.5 20.0 21.0 19.5 20.5 20.0 21.0 22.5 21.0 22.0 22.0 22.5 21.0 22.5 21.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	MIN JUNE 19.5 20.0 20.0 19.5 21.0 19.5 18.5 17.5 18.5 20.0 21.5 21.0 19.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 19.0 19.5 22.0 23.0 24.5 25.5 25.5 24.5 25.5 24.5 25.5 24.5 25.0 27.5	MEAN 20.5 21.0 21.5 20.5 21.5 20.0 19.0 18.5 19.5 20.0 19.0 18.5 19.0 18.5 19.0 18.5 19.0 18.5 19.0 21.5 20.5 21.5 23.0 24.0 25.0 26.0 27.0 25.5 26.0 25.5 26.0 21.8	MAX 27.5 29.0 30.0 31.0 28.0 28.5 27.0 28.5 27.5 26.5 29.0 29.5 29.5 30.5 29.0 27.0 29.5 29.0 27.0 29.5 30.5 29.0 31.0	MIN JULY 25.5 26.0 27.0 28.0 26.5 25.0 25.5 26.0 24.5 24.5 24.5 24.5 27.0 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.0 24.5 24.5 24.5 27.0 24.5 27.0 24.5 27.0 24.5 24.5 27.0 24.5 24.5 24.5 27.0 24.5 27.0 24.5 24.5 24.5 24.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 27.5 26.5 24.5 24.5 27.5 26.5 27.5 26.5 27.5 26.5 24.5 24.5 24.5 24.5 27.5 26.5 27.5 26.5 24.5 24.5 24.5 27.5 26.5 24.5 24.5 24.5 27.5 26.5 24.5 24.5 24.5 24.5 24.5 27.5 26.5 24.0 24.5 24.0 24.5 24.5 24.0 24.0 24.5 24.5 24.0 24.0 24.5 24.5 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	MEAN 26.5 27.0 28.5 29.0 27.0 26.0 27.0 27.0 26.0 27.0 26.0 25.5 25.5 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.5 27.5 26.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 26.0 26.0 26.0 27.0 28.5 27.0 26.0 27.0 26.0 27.0 27.0 27.0 26.0 27.0 27.0 27.0 26.0 27.0 27.0 27.0 26.0 27.0 27.0 26.0 27.0 27.0 26.0 27.0 27.0 26.0 27.0 27.0 26.0 27.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 26.0 27.0 27.0 26.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 26.0 26.0 26.0 26.0 28.0 28.0 28.0 26.0 26.0 26.0 28.0 28.0 25.5 27.5 26.0 28.0 28.0 25.0 25.0 25.0 25.0 26.0 26.0 26.0 28.0 26.0 26.0 26.0 26.0 28.0 25.0 26.0 25.0 25.0 25.0 25.0 26.9	MAX 30.5 31.0 30.5 30.5 29.5 26.0 27.0 28.0 29.5 30.0 29.5 30.0 30.5 31.0 30.5 31.0 30.5 29.5 29.0 28.0 27.5 29.0 28.0 27.5 26.0 27.5 20.0 29.5 20.0 20.0 20.0 20.0 20.0 20.5 20.0 20.0 20.0 20.5 20.0 20.0 20.0 20.5 20.0 20.0 20.0 20.5 20.0 20.5 20.0 20.0 20.0 20.5 20.0 2	MIN AUGUST 27.5 28.5 27.5 28.5 27.5 24.0 24.0 24.0 24.0 24.5 27.0 27.0 27.0 27.0 27.5 27.5 28.0 27.0 27.0 27.5 28.5 29.0 26.0 27.5 28.5 29.0 26.0 27.5 28.5 29.0 26.0 27.5 29.0 26.0 27.5 29.0 26.0 27.5 29.0 26.0 27.5 29.0 26.0 27.5 29.0 27.5 29.0 26.0 27.5 29.0 27.5 29.0 26.0 27.5 29.0 27.5 29.0 28.5 29.0 26.0 27.5 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 26.0 26.0 27.5 28.5 29.0 28.5 29.0 26.0 27.5 28.5 29.0 28.5 29.0 26.0 26.0 27.5 28.5 29.0 26.0 26.0 27.5 28.5 29.0 26.0 26.0 27.5 28.5 29.0 26.0 26.0 27.5 28.5 29.0 26.0 26.0 27.5 27.5 28.0 27.5 28.0 27.5 28.0 26.0 21.5 21.5 21.5 21.0 21.0 21.0	MEAN 29.0 29.5 29.0 30.0 25.5 25.0 25.5 26.0 25.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	MAX 21.5 21.0 23.0 25.0 24.5 24.5 25.0 25.5 26.5 26.0 23.0 22.5 23.0 23.5 24.5 24.5 24.5 24.5 24.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 23.5 24.5 23.0 25.5 26.5 26.5 26.5 26.5 26.5 26.5 26.5	MIN SEPTEMBE 20.5 19.5 20.0 22.5 23.0 22.5 23.0 24.0 22.5 21.0 20.5 21.0 20.5 21.5 23.0 23.0 22.5 23.0 23.0 23.0 22.5 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 23.0 21.5 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0	MEAN R 21.0 20.0 21.5 23.5 24.0 23.5 23.5 24.5 25.0 24.5 22.0 21.5 22.5 23.5 22.5 23.5 23.5 24.5 22.5 23.5 23.5 24.5 25.0 21.5 22.5 23.5 24.5 25.0 21.5 22.5 23.5 24.5 25.0 21.5 22.5 23.5 24.5 25.0 21.5 22.5 23.5 24.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 25.0 21.5 22.5 23.5 20.5 23.5 20.5 23.5 20.

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		ľ	OVEMBER		D	ECEMBER			JANUARY	•
1	4.3	<2.0	<2.0	5.8	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	3.7	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	5.1	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	5.1	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	4.6	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	3.4	<2.0	<2.0
8	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	2.3	<2.0	<2.0				4.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0	<2.0
19	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	<2.0	2.3	<2.0	<2.0	<2.0
20	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	10	2.2	5.0	<2.0	<2.0	<2.0
21	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	17	7.1	11	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10	6.4	7.9	<2.0	<2.0	<2.0
23	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	10	6.2	7.6	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.4	6.3	7.9	4.2	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.0	5.2	7.2	10	<2.0	6.3
26	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	7.3	<2.0	2.9	10	2.5	5.0
27	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	3.8	2.3	2.6
28	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	2.0
29	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0
30	4.2	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.7	<2.0	<2.0
31	3.8	<2.0	<2.0				<2.0	<2.0	<2.0	3.4	<2.0	<2.0
MONTH	4.3	<2.0	<2.0	5.8	<2.0	<2.0	17	<2.0	2.6	10	<2.0	<2.0
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	MEAN
		FFDDIIADV			MADOU			ADDTT			MAV	
		FEDRUARI			MARCH			AFKID			PRA1	
1	5.7	<2.0	2.3	<2.0	<2.0	<2.0	20	4.5	6.1	33	5.3	12
2	30	4.1	9.7	<2.0	<2.0	<2.0	9.1	4.4	5.8	32	3.0	6.0
3	13	4.2	6.0	8.2	<2.0	3.3	8.8	4.0	5.5	26	5.5	16
4 5	70 3 T0	4.4	6.6 5 4	6.9 4 4	3.1 2.4	5.2	11 3	4.1 3.4	5.8	70 T0	3.9	7.5
5	2.5	5.5	5.1	1.1	2.1	5.1	5.5	3.1	1.5	5.0	2.,	5.5
6	5.6	3.6	4.6	3.1	2.4	2.8	5.8	3.2	3.9	8.9	2.5	4.7
7	4.5	3.0	3.7	2.7	<2.0	2.3	5.2	2.8	3.6	7.1	2.3	3.2
8	3.6	2.6	3.0	2.5	<2.0	<2.0			~ ~			25
9	3.3	2.2	2.7				3.7	<2.0	2.6	5.1	<2.0	5.5
10	5.5	2 0	2 2	<2.0	<2.0	<2.0	3.7 2.0	<2.0 <2.0	2.6 <2.0	5.1 7.3	<2.0 <2.0	2.0
11		2.0	2.3	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	3.7 2.0 <2.0	<2.0 <2.0 <2.0	2.6 <2.0 <2.0	5.1 7.3 6.8	<2.0 <2.0 <2.0	2.0
12	3.3	2.0 2.1	2.3 2.7	<2.0 <2.0 2.0	<2.0 <2.0 <2.0	<2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5	<2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0	5.1 7.3 6.8 4.8	<2.0 <2.0 <2.0	2.0 2.8 <2.0
	3.3 3.0	2.0 2.1 2.3	2.3 2.7 2.8	<2.0 <2.0 2.0 2.4	<2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0	<2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6	<2.0 <2.0 <2.0 <2.0 <2.0	2.0 2.8 <2.0 <2.0
13	3.3 3.0 16	2.0 2.1 2.3 2.5	2.3 2.7 2.8 6.6	<2.0 <2.0 2.4 2.8	<2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 <2.0 2.3	3.7 2.0 <2.0 3.5 <2.0 3.1	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6	<2.0 <2.0 <2.0 <2.0 <2.0	2.0 2.8 <2.0 <2.0
13 14	3.3 3.0 16 10	2.0 2.1 2.3 2.5 5.7	2.3 2.7 2.8 6.6 7.2	<2.0 <2.0 2.4 2.8 3.1	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 <2.0 2.3 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 	<2.0 <2.0 <2.0 <2.0 <2.0	2.0 2.8 <2.0 <2.0
13 14 15	3.3 3.0 16 10 15	2.0 2.1 2.3 2.5 5.7 10	2.3 2.7 2.8 6.6 7.2 13	<2.0 <2.0 2.4 2.8 3.1 <2.0	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 <2.0 2.3 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 	<2.0 <2.0 <2.0 <2.0 <2.0 	<pre>></pre> 2.0 2.8 <2.0 <2.0 <
13 14 15 16	3.3 3.0 16 10 15 14	2.0 2.1 2.3 2.5 5.7 10 11	2.3 2.7 2.8 6.6 7.2 13 12	<2.0 <2.0 2.4 2.8 3.1 <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 <2.0 2.3 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 	<2.0 <2.0 <2.0 <2.0 <2.0 	<pre>> 2.0 2.8 <2.0 <2.0</pre>
13 14 15 16 17	3.3 3.0 16 10 15 14 12	2.0 2.1 2.3 2.5 5.7 10 11 7.4	2.3 2.7 2.8 6.6 7.2 13 12 9.9	<2.0 <2.0 2.4 2.8 3.1 <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 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12	<2.0 <2.0 <2.0 <2.0 <2.0 3.0	<pre>> 2.0 2.8 <2.0 <2.0 6.6</pre>
13 14 15 16 17 18	3.3 3.0 16 10 15 14 12 7.6	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9	<2.0 <2.0 2.4 2.8 3.1 <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	<2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18	<2.0 <2.0 <2.0 <2.0 3.0 <2.0	<pre>> 2.0 2.8 <2.0 <2.0 6.6 8.4</pre>
13 14 15 16 17 18 19	3.3 3.0 16 10 15 14 12 7.6 6.7	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<pre> 2.0 2.8 <2.0 <2.0 <2.0 6.6 8.4 10 2 </pre>
13 14 15 16 17 18 19 20	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12	<2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3
13 14 15 16 17 18 19 20 21	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 <2.0 2.4 28	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4	<2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0
13 14 15 16 17 18 19 20 21 22	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10	<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 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0	<2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5
13 14 15 16 17 18 19 20 21 22 23	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 2.4 28 80 10 14	<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 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9
13 14 15 16 17 18 19 20 21 22 23 24	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10	<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 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4
13 14 15 16 17 18 19 20 21 22 23 24 25	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9 3.3	2.0 2.1 2.3 5.5 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6	<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 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0</pre>	2.0 2.8 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5
13 14 15 16 17 18 19 20 21 22 23 24 25 26	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9 3.3 2.3	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	<2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0 <2.0	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.9 2.7 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 </pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9 3.3 2.3 2.1	2.0 2.1 2.3 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2 <2.0 <2.0	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7 3.7	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 11 3.9 2.7 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4 5.4 4.0	<pre><2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5 2.4 2.4 2.3
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9 3.3 2.3 2.1 <2.0	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0 <2.0 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2 <2.0 <2.0	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7 3.7 33	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	$\begin{array}{c} <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 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2.0 \\ <2$	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0 <2.0 2.2 2.7	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4 4.0 3.8	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5 2.4 2.5 2.4 2.3
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.5 2.9 3.3 2.3 2.1 <2.0	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0 <2.0 <2.0 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2 <2.0 <2.0 <2.0	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7 3.7 3.7 24	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	<pre><2.0 <2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 4.6 33 8.4 6.2 5.0 2.7 <2.0 9.8 16</pre>	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0 <2.2 2.7 24	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4 4.0 3.8 5.7	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.0 2.8 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5 2.4 2.3 2.5
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 3.3 2.1 2.3 2.1 <2.0	2.0 2.1 2.3 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2 <2.0 <2.0 <2.0	<2.0 <2.0 2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7 3.7 33 24 23	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	<pre><2.0 <2.0 <2.0 <2.0 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 4.6 33 8.4 6.2 5.0 2.7 <2.0 9.8 16 16 16 1 6 1 8 1</pre>	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0 2.2 2.7 24 38	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4 4.0 8.5 7 32	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 < 3.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5 2.4 2.3 2.5 2.4 2.3 2.5 12 20
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	3.3 3.0 16 10 15 14 12 7.6 6.7 5.6 4.2 4.9 4.5 2.9 3.3 2.1 <2.0 	2.0 2.1 2.3 2.5 5.7 10 11 7.4 6.3 5.1 4.2 3.2 2.8 2.4 2.3 <2.0 <2.0 <2.0 <2.0 <2.0 <1.1 	2.3 2.7 2.8 6.6 7.2 13 12 9.9 6.9 5.8 4.5 3.8 3.2 2.7 2.5 2.2 <2.0 <2.0 <2.0 <2.0	<2.0 <2.0 2.4 2.8 3.1 <2.0 <2.0 <2.0 <2.0 2.4 28 80 10 14 10 5.6 5.7 3.7 33 24 23 11	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	3.7 2.0 <2.0 3.5 <2.0 3.1 2.7 14 26 37 10 7.3 6.9 5.4 3.8 5.6 6.3 <2.0 <2.0 2.2 2.7 24 38 	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 11 3.9 2.7 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	5.1 7.3 6.8 4.8 2.6 12 18 16 12 8.4 7.0 6.6 5.3 5.4 4.0 3.8 5.7 33 36	<pre><2.0 <2.0 <2.0 <2.0 <2.0 <2.0 3.0 <2.0 6.8 3.9 3.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0</pre>	2.0 2.8 <2.0 <2.0 6.6 8.4 10 7.3 5.0 3.5 2.9 3.4 2.5 2.4 2.3 2.5 12 29

TURBIDITY, FIELD, in (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	34	20	26	14	6.1	8.7	2.9	<2.0	<2.0	2.9	<2.0	<2.0
2	21	12	16	9.2	<2.0	4.3	4.0	<2.0	<2.0	3.3	<2.0	2.6
3	17	5.5	10	8.3	3.1	4.2	13	<2.0	3.4	2.8	<2.0	<2.0
4	11	4.7	6.8	4.5	<2.0	2.4	2.5	<2.0	<2.0	2.7	<2.0	<2.0
5	9.1	2.8	4.9	4.1	<2.0	2.7	3.6	<2.0	2.1	2.7	<2.0	<2.0
6	6.8	3.0	4.9	3.2	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
7	47	3.0	15	3.2	<2.0	<2.0	8.3	<2.0	2.4	<2.0	<2.0	<2.0
8	40	17	27	3.6	<2.0	<2.0	8.2	<2.0	2.3	5.0	<2.0	<2.0
9	28	15	20	2.9	<2.0	<2.0	4.1	<2.0	2.1	<2.0	<2.0	<2.0
10	24	8.9	16	2.4	<2.0	<2.0	3.4	<2.0	<2.0	6.0	<2.0	<2.0
11	12	6.1	8.6	3.9	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0
12	13	4.9	8.3	3.4	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0
13	14	7.0	10	3.9	<2.0	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
14	14	4.8	7.9				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	14	6.0	9.0				3.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	10	4.3	6.4				2.6	<2.0	<2.0	<2.0	<2.0	<2.0
17	36	3.6	7.6				4.0	<2.0	2.0	<2.0	<2.0	<2.0
18	36	2.5	6.1				6.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	12	4.0	7.1	2.6	<2.0	<2.0	5.5	<2.0	<2.0	<2.0	<2.0	<2.0
20	12	4.6	7.4	13	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0
21	8.3	3.2	5.5	3.6	<2.0	<2.0	4.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	6.1	<2.0	3.7	6.4	<2.0	<2.0	3.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	5.0	2.6	3.6	4.6	<2.0	2.4	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	4.7	<2.0	2.9	4.5	<2.0	2.5	2.3	<2.0	<2.0	<2.0	<2.0	<2.0
25	2.8	<2.0	<2.0	9.3	<2.0	4.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
26	3.3	<2.0	2.2	5.4	<2.0	2.4	2.7	<2.0	<2.0	14	<2.0	<2.0
27	3.2	<2.0	<2.0	7.2	<2.0	3.0	5.8	<2.0	2.1	2.0	<2.0	<2.0
28	93	<2.0	28	5.4	<2.0	2.5	2.7	<2.0	<2.0	<2.0	<2.0	<2.0
29	120	17	39				2.6	<2.0	<2.0	<2.0	<2.0	<2.0
30	21	6.7	13				2.7	<2.0	<2.0	<2.0	<2.0	<2.0
31							2.8	<2.0	<2.0			
MONTH	120	<2.0	11	14	<2.0	2.5	13	<2.0	<2.0	14	<2.0	<2.0
VEAR	120	<2.0	3.4									





Figure 37. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton, water year 2002.





Figure 37. Physical characteristics and concentrations of constituents measured at 01463500 Delaware River at Trenton, water year 2002--continued. [--- instrument detection level; turbidity values less than 2.0 NTU are approximate]

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued



Figure 38. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, May 22, 2002.



Figure 39. Cross sectional water-quality measurements with recorded monitor values, at Delaware River at Trenton, September 18, 2002.

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 Assunpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA. -- 10.7 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." Total nitrogen (00601), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal colliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 .-- Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			DIS-	TUR-	UV	UV	BARO-	OXYGEN,		PH	
			CHARGE,	BID-	ABSORB-	ABSORB-	METRIC	DIS-		WATER	SPE-
			INST.	ITY	ANCE	ANCE	PRES-	SOLVED		WHOLE	CIFIC
			CUBIC	FIELD	254 NM,	280 NM,	SURE	(PER-	OXYGEN,	FIELD	CON-
		SAMPLE	FEET	WATER	WTR FLT	WTR FLT	(MM	CENT	DIS-	(STAND-	DUCT-
DATE	TIME	TYPE	PER	UNFLTRD	(UNITS	(UNITS	OF	SATUR-	SOLVED	ARD	ANCE
			SECOND	(NTU)	/CM)	/CM)	HG)	ATION)	(MG/L)	UNITS)	(US/CM)
			(00061)	(61028)	(50624)	(61726)	(00025)	(00301)	(00300)	(00400)	(00095)
NOV											
26	1030	ENVIRONMENTAL	.25	14	1.28	1.08	767	11	1.2	6.6	120
FEB											
04	0910	ENVIRONMENTAL	.50	17	.163	.129	754	73	9.8	6.2	298
MAY											
07	1230	ENVIRONMENTAL	.41	5.7	.186	.149	760	47	4.6	6.0	218
AUG											
06	0930	ENVIRONMENTAL	.06	4.2	.272	.202	759	21	1.8	6.5	125
06	0930	SPLIT REPLICATE		4.2							
06	0931	CONCURRENT REPLICATE		4.2							

								ANC					SOLIDS,
			HARD-		MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE
			NESS	CALCIUM	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180
	TEMPER-	TEMPER-	TOTAL	DIS-	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C
	ATURE	ATURE	(MG/L	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-
DATE	AIR	WATER	AS	(MG/L	(MG/L	(MG/L	(MG/L	AS	(MG/L	(MG/L	AS	(MG/L	SOLVED
	(DEG C)	(DEG C)	CACO3)	AS CA)	AS MG)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)
	(00020)	(00010)	(00900)	(00915)	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)
NOV													
26	15.0	13.5	31	7.94	2.63	9.90	5.41	26	13.1	<.1	2.4	6.7	140
FEB													
04	3.5	2.5	58	13.8	5.65	3.72	29.8	20	55.8	E.1	3.7	25.5	168
MAY													
07	26.0	16.5	48	11.0	4.87	2.89	17.9	21	33.5	E.1	4.2	18.7	115
AUG													
06	27.0	23.0	33	8.70	2.71	3.06	5.94	21	9.43	E.1	3.0	10.6	79
06			34	9.20	2.70	3.60	5.80	29	10.0	.20		11.0	80
06			34	9.20	2.70	3.60	5.80	28	10.0	.20		11.0	7 <i>9</i>

	SOLIDS,	NITRO-	NITRO-		NITRO-	NITRO-	NITRO-		NITRO-		ORTHO-		
	SUM OF	GEN,	GEN, AM-	NITRO-	GEN, AM-	GEN,	GEN,	NITRO-	GEN, PAR	PHOS-	PHOS-	PHOS-	
	CONSTI-	AMMONIA	MONIA +	GEN,	MONIA +	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHORUS	PHOS-
	TUENTS,	DIS-	ORGANIC	AMMONIA	ORGANIC	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	ORTHO	PHORUS
	DIS-	SOLVED	DIS.	TOTAL	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL
DATE	SOLVED	(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 N)	AS P)	AS P)	AS P)	AS P)
	(70301)	(00608)	(00623)	(00610)	(00625)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(70507)	(00665)
NOV													
26	67	.030	.90	.050		E.03	.021		.71	.28			.42
FEB													
04	156	.090	.77	.170		1.33	.008	2.1	.18	.011			.092
MAY													
07	111	.150	.51	.170		1.15	.029	1.7	.07	.010	<.020		.054
AUG													
06	57	.710	1.1	.690		E.04	.011		.32	.045	.047		.184
06	61	.760	.40	.770	1.6	<.050	<.025			<.050	.031	.05	.170
06	60	.770	.73	.760	1.5	<.050	<.025			<.050	.026	.04	.180

Remark codes used in this report:

< -- Less than E -- Estimated value

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV								
26	4.0	<.1	52.8	4.0	>3.9		30	5
04	1.6	<.1	4.2	1.6	3.6		30	32
MAY								
07	1.0	<.1	3.8	1.0	<1.0	3.70	30	3
AUG								
06	2.7	<.1	7.5	2.7	3.0	7.60	30	4
06			7.8				30	<10
06			7.8				30	<10

					BERYL-			CHRO-			
				BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,
				TOTAL	TOTAL	TOTAL	WATER	TOTAL	TOTAL	TOTAL	TOTAL
			ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-	RECOV-	RECOV-	RECOV-
		SAMPLE	TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	ERABLE	ERABLE	ERABLE
DATE	TIME	TYPE	(UG/L								
			AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)
			(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)
AUG											
06	0930	ENVIRONMENTAL	2	47.4	E.04	27	.04	<.8	3.4	1940	1

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG 06	309	E.01	3	E.3	<.05	17

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				
05	0932	220	<100	170	02	1015	2200	2800	1250
12	0930	1700	2300	1800					
19	1030	3000	600	1500					
25	0940	1100	500	800					

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value

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.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION. -- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
12 FEB	1240	44	3.7	.113	.086	773	93	10.6	7.2	377	11.5	10.0	94
04 JUN	1150	63	4.7	.113	.086	754	96	11.8	7.0	400	8.0	6.0	89
04 AUG	1230	42	3.8	.112	.083	767	92	8.3	7.1	441	25.0	20.5	130
14	1210	14	1.7	.094	.070	764	109	8.9	7.7	642	34.0	25.5	160

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 UNFLIRD 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 12	21.7	9.61	5.40	30.7	45	52.3	.4	5.9	29.4	220	210	.030	.67
FEB 04	21.0	8.77	4.36	36.9	39	66.0	.3	6.6	30.6	226	218	.040	.53
JUN 04	23.7	16.5	5.10	31.5	77	54.0	.3	8.3	32.5	274	246	<.030	.54
AUG 14	30.8	21.3	7.76	50.2	98	75.9	.6	9.4	45.2	367	349	.040	.59

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 12	.030	6.18	.024	6.8	.21	.98		1.07	1.0	<.1	4.5	1.0	E2.1
04	.070	4.61	.018	5.1	.12	.54		.60	1.0	<.1	4.1	1.0	2.1
04 AUG	<.030	5.75	.044	6.3	.09	.84	.777	.85	.9	<.1	4.3	.9	<1.0
14	.170	9.77	.030	10	.11	1.78	1.77	1.76	.7	<.1	4.4	.7	<1.1

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 12 FEB 04 JUN 04 AUG		90 80 110	8 13 15
14	1.90	170	2

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
14	1210	El	35.2	<.06	182	.08	E.5	9.8	160	<1	31.6	<.01	3
							GTT.VED	ZINC					

		SILVER,	ZINC,	
	SELE-	TOTAL	TOTAL	
	NIUM,	RECOV-	RECOV-	
	TOTAL	ERABLE	ERABLE	
DATE	(UG/L	(UG/L	(UG/L	
	AS SE)	AS AG)	AS ZN)	
	(01147)	(01077)	(01092)	
AUG				
14	.6	.07	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 UNFLIRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLIRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 04	1150	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
		CHLORO- DI-		CIS-1,2 -DI- CHLORO-	BROMO- DI-	DI- CHLORO- DI-	DI-ISO- PROPYL- ETHER,	ETHER ETHYL	ETHER TERT- BUTYL	ETHER TERT- PENTYL		FREON- 113	METHYL TERT- BUTYL
DATE	CHLORO- BENZENE TOTAL	BROMO- METHANE TOTAL	CHLORO- FORM TOTAL	ETHENE WATER TOTAL	CHLORO- METHANE TOTAL	FLUORO- METHANE TOTAL	WATER, UNFLTRD RECOVER	WATER UNFLTRD RECOVER	ETHYL UNFLTRD RECOVER	METHYL UNFLTRD RECOVER	ETHYL- BENZENE TOTAL	WATER UNFLTRD REC	ETHER WAT UNF REC
	(34301)	(32105)	(0G/L) (32106)	(0G/L) (77093)	(32101)	(34668)	(81577)	(81576)	(50004)	(50005)	(34371)	(77652)	(78032)

	METHYL ENE CHLO- RIDE	META/ PARA- XYLENE WATER UNFLTRD	O- XYLENE WATER WHOLE	STYRENE	TETRA- CHLORO- ETHYL- ENE	TOLUENE	TRI- CHLORO- ETHYL- ENE	TRI- CHLORO- FLUORO- METHANE	VINYL CHLO- RIDE
DATE	TOTAL	REC	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
	(34423)	(85795)	(77135)	(77128)	(34475)	(34010)	(39180)	(34488)	(39175)
FEB									
04	<.2	<.2	<.1	<.1	.2	<.1	<.1	<.2	<.2
01464020 ASSUNPINK CREEK AT PEACE STREET, AT TRENTON, NJ--Continued

WATER-COLUMN PESTICIDE ANALYSES

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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN													
04	1230	.013	<.004	<.005	.190	<.010	E.006	<.005	<.018	<.003	E.021	.014	<.002
		LIN- URON		METHYL AZIN-		METRI-	NAPROP- AMIDE	PENDI- METH-	PRO-	PRO- PANIL	SI-	TEBU- THIURON	TER- BACIL
	TINDANE	WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	DIS-	0.7 U	DIS-		WATER	WATER	0.7 U		DISS,	0.7 U	DISS.	0.7 U	0.7 U
DATE	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, 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)
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
JUN													
04	<.004	<.035	<.027	<.050	.161	<.006	<.007	<.022	.02	<.011	.086	E.02	<.034



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				
05	1030	900	110	230	02	1300	1300	2200	720
12	1000	800	500	110					
19	1130	9000	5200	2700					
25	1052	3000	400	280					

Remark codes used in this report:

< -- Less than E -- Estimated value

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 .-- Water year 2001 to August 2002.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 04	0900	15	.077	.061	769	82	10.1	7.2	268	12.0	7.0	81	24.7
FEB 27	1000	9.0	.068	.056	752	81	9.6	6.8	278	2.0	7.5	81	25.3
MAY		14	100	007	861	RC			0.55	~~ ~	15 0	01	05 6
AUG	0900	14	.108	.087	761	76	7.7	7.2	266	22.0	15.0	18	25.6
08	0900	16	.094	.074	765	75	7.2	7.2	317		17.5	95	30.6

				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)	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)
DEC													
04	4.76	4.61	14.0	45	25.9	.2	13.4	33.9	166	149	.060	.26	.070
FEB													
27	4.35	3.51	14.1	36	28.7	.1	12.0	43.7	170	154	<.030	.17	.070
MAY													
07	4.28	3.92	13.1	44	25.2	.1	11.7	36.6	154	148	.070	.31	.110
AUG													
08	4.54	5.25	20.0	55	36.9	.2	13.5	34.7	195	180	.040	. 24	.060

DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
DEC 04 FEB	.10	.004	.36	.06	.007		.044	.9	<.1	2.5	.9	<1.0	
27 MAY	.15	.003	.32	.08	.004	<.020	.043	.7	<.1	1.8	.7	E1.3	
07 AUG	.22	.012	.52	.09	.009	<.020	.060	.9	<.1	2.9	.9	<1.0	2.80
08	.28	.003	.52	.07	.010	.029	.061	.7	<.1	2.9	.7	E1.3	.500

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 04 FEB 27 MAY 07 AUG 08	30 30 40 50	4 7 6 6

DATE	TIME	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	TRANS- 1,2-DI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE TOTAL (UG/L) (34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)
FEB 27	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 27	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	1.2
	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 2	3 27	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 07	0900	<.006	.011	<.005	.014	<.010	E.024	<.005	<.018	.003	E.006	<.005	<.002

01464380 NORTH RUN AT COOKSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	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)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY													
07	<.004	<.035	<.027	<.050	.064	.008	<.007	<.022	E.01	<.011	<.005	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL GF, RE (UG/L) (82661	u T C L)						

MAY 07... <.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					JUL				
01	1050	170	100	90	01	1045	500	400	430
08	1045	130	<100	50	08	1050	500	300	1300
15	1100	110	100	130	15	1035	130	200	400
23	1215	220	300	20					
30	1208	230	<100	100					

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 year 1998 to current year.

- REMARKS.--Site is at head of tide, infrequently affected, but sampled at low tide. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).
- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
12 FEB	0930	65	7.9	.115	.091	773	92	11.5	7.4	181	8.5	6.5	57
26	1130	51	5.4	.093	.075	756	109	13.3	7.4	190	19.5	6.5	57
JUN													
12	1310	59	9.6	.492	.393	757	85	7.3	7.1	141	29.0	22.5	42
AUG													
22	1130	13	6.6	.170	.135	767	87	7.4	7.0	229	30.0	23.5	72
					ANC					SOLTOS	SOLTDS	NTTRO-	NTTRO-

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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC													
12 FEB	17.3	3.27	3.47	8.26	30	18.6	.2	9.1	22.7	112	103	<.030	.19
26	17.5	3.32	2.57	8.94	27	19.6	.2	8.4	26.8	108	105	<.030	.17
12	12.5	2.54	2.47	6.61	19	14.6	.1	8.7	17.2	98	79	.120	.43
22	22.0	4.06	4.08	11.0	41	22.4	.2	9.9	22.8	136	126	.130	.44
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC									_			_	
12 FEB	.050	.46	.005	.65	.07	.034		.087	.7	<.1	3.9	•7	<1.0
26 JUN	<.030	.41	.008	.58	.08	.032	.030	.068	.7	<.1	2.3	.6	<1.0
12 AUG	.100	.52	.015	.96	.11	.058	.028	.164	1.0	<.1	8.6	1.0	E1.7
22	.140	1.03	.059	1.5	.07	.138	.131	.194	.4	<.1	4.4	.4	<1.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 12 FEB 26 JUN 12 AUG 22	 1.20 .800	20 20 20 30	2 16 19 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 UNFLIRD 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	1130	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD 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	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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 26	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 12	1310	<.006	<.004	<.005	.110	<.010	E.013	<.005	<.018	.013	E.014	<.005	<.002

01464504 CROSSWICKS CREEK AT GROVEVILLE ROAD, AT GROVEVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 12	<.004	<.035	<.027	<.050	.408	<.006	<.007	<.022	.02	<.011	.050	<.02	<.034
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	T C)						

JUN 12... <.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				
05	1000	300	600	80	02	1115	500	300	160
12	1050	16000	6500	1170					
19	1055	1300	500	820					
25	1010	230	100	230					

01464515 DOCTORS CREEK AT ALLENTOWN, NJ

LOCATION.--Lat 40°10'37", long 74°35'57", Monmouth County, Hydrologic Unit 02040201, at bridge on Breza Road in Allentown, and 0.8 mi downstream from Conines Millpond dam.

DRAINAGE AREA.--17.4 mi².

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

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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	1050	4.4	7.0	.079	.061	767	73	8.7	7.1	221	18.5	8.0	65
FEB	2000							•••			2010		
19	1110	7.5	6.2	.066	.052	761	96	12.5	6.9	227	12.5	4.0	57
03 AUG	1200	6.0	5.4	.128	.100	762	50	4.5	6.7	197	21.5	20.5	54
07	1310	1.7	11	.157	.124	763	22	1.9	6.9	251	25.0	22.5	68

					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													
15	16.7	5.75	4.61	10.9	35	28.1	.2	9.0	20.9	122	122	.480	.77
FEB													
19	14.5	4.92	3.91	13.3	26	32.4	.2	9.2	24.9	124	123	.760	1.2
JUN													
03	13.4	4.93	3.58	10.9	24	25.2	.21	7.2	19.1	119	103	.460	.81
AUG													
07	17.6	5.78	4.58	15.4	46	29.8	.30	9.9	16.0	152	130	.840	1.4

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV	.460	.97	.033	1.7	.14	.006		.049	.9	<.1	3.3	.9	2.8
FEB		•••									0.0		
19	.690	.69	.020	1.9	.27	.013	<.020	.060	1.7	E.1	2.8	E1.7	2.8
03 AUG	.490	.81	.039	1.6	.05	.021	<.020	.057	.4	<.1	3.8	.4	E1.1
07	.740	.57	.053	1.9	.25	.026	.024	.127	1.6	<.1	5.1	1.6	E1.5

Remark codes used in this report:

< -- Less than E -- Estimated value

01464515 DOCTORS CREEK AT ALLENTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 15		40	9
FEB 19		30	12
03 AUG		30	6
07	13.7	40	<1

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
07	1310	3	44.1	<.06	50	<.04	<.8	.6	2190	<1	324	<.01	3
							SILVER,	ZINC,					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					

AUG 07... <.4 <.05 5

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	1005	2200	<100	6800	07	0855	300	300	190
17	1051	80	200	320					
24	1000	460	<100	650					
31	1005	300	300	350					

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, 0.4 mi south of Chesterfield, 2.2 mi north of Georgetown, and 2.4 mi upstream of Bacons Run.

DRAINAGE AREA.--8.91 mi².

PERIOD OF RECORD. -- Water year 2001 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, 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 2001 TO SEPTEMBER 2002

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	1050	7.5	15	.125	.096	764	86	9.5	7.0	221	15.0	11.0	78
05 MAY	1010	4.2	16	.128	.107	767	91	12.6	6.7	208	-1.5	2.0	62
07	0950	2.8	23	.213	.176	760	63	6.1	6.7	201	20.0	16.5	65
22	0930	.14	90	.026	.020	767	18	1.7	6.2	222	28.0	18.0	73
		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA.		SOLIDS, RESIDUE	SOLIDS, SUM OF	NITRO- GEN	NITRO- GEN, AM-

	MAGNE-	POTAS-		UNFLIRD	CHLO-	FL00-	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.
(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)
22.9	5.11	6.66	6.46	54	23.3	.5	11.7	15.8	136	125	<.030	.25
17.3	4.51	4.28	8.97	31	23.3	.3	10.5	20.3	122	111	.100	.29
18.7	4.47	4.40	7.29	43	20.3	.3	8.7	17.5	124	109	.140	.65
22.2	4.15	3.88	7.46	41	23.1	.3	15.4	21.7	139	123	.130	.22
	NTTDO	NTEDO		NTEDO		ODTIO		CARRON	CARRON		CARRON	OVVOIEN
NTTDO	OFN	NIIRO-	NTTDO	OFN DAD	DUOC	DUOC		CARBON,	CARDON,	CADDON	CARBON,	DEMAND
GEN	NO2+NO3	NTTPTTF	GEN	TTCITTE	PHOD-	DUATE	PHOS-	OPCANTC	CANTC	OPCANTC	DADTTC-	BTO-
AMMONTA	DTS-	DTS-	DIS-	WAT FLT	DTS-	DTS-	PHORUS	PARTIC.	PARTIC.	DTS-	IILATE	CHEM-
	CALCIUM DIS- SOLVED (MG/L AS CA) (00915) 22.9 17.3 18.7 22.2 NITRO- GEN, AMMONIA	CALCIUM SIUM, DIS- SOLVED SOLVED (MG/L (MG/L AS CA) AS MG (00915) (00925) 22.9 5.11 17.3 4.51 18.7 4.47 22.2 4.15 NITRO- NITRO- GEN, GEN, NO2+NO3 NITRO- NO2+NO3	MAGRE- POIAS- CALCIUM SIUM, SIUM, DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L AS CA) AS MG) AS K) (00915) (00925) (00935) 22.9 5.11 6.66 17.3 4.51 4.28 18.7 4.47 4.40 22.2 4.15 3.88 NITRO- NITRO- GEN, GEN, NO2+NO3 NITRITE AMMONIA DIS- DIS-	NHARNE- PUTAS- CALCTUM STUM, SODTUM, DIS- DIS- DIS- SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L AS CA) AS MG) AS K) AS CA) AS MG) AS K) 22.9 5.11 6.666 6.46 17.3 4.51 4.28 8.97 18.7 4.47 4.40 7.29 22.2 4.15 3.88 7.46 NITRO- MITRO- MITRO- MITRO- MITRO- GEN, GEN, GEN, NITRO- MMONDAD DIS- DIS- DIS- DIS-	MAGNE- POTAS- DOTAS- DINFLIKD CALCIUM SIUM, SDIUM, SDIUM, TIT 4.5 DIS- DIS- DIS- DIS- LAB SOLVED SOLVED SOLVED SOLVED (MG/L (MG/L (MG/L (MG/L (MG/L (MG/L AS AS CA) AS MG) AS K AS NA) CACO3) (00915) (00925) (00935) (00930) (90410) 22.9 5.11 6.66 6.46 54 17.3 4.51 4.28 8.97 31 18.7 4.47 4.40 7.29 43 22.2 4.15 3.88 7.46 41 NITRO- NITRO- NITRO- NITRO- MITRO- GEN, GEN, GEN, PAR GEN, NO2+NO3 NITRTE GEN MICULE	DIS- DIS- <thdis-< th=""> DIS- DIS- <thd< td=""><td>NAGNE- POIRS- DOINS- DINFILMD CHLO- FLUO- DIS- DIS-</td><td>MAGNE- POTAS- ONFLIKD CHLD- FLDC- SIDTA DIS- DIS- DIS- DIS- LAB DIS- DIS- DIS- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED MG/L (MG/L MG/L (MG/L AS AS AS AS AS AS AS AS FD SID2 (00915) (00925) (00930) (90410) (00940) (00950) (00955) 22.9 5.11 6.66 6.46 54 23.3 .5 11.7 17.3 4.51 4.28 8.97 31 23.3 .3 10.5 18.7 4.47 4.40 7.29 43 20.3 .3 8.7 22.2 4.15 3.88 7.46 41 23.1 .3 15.4</td><td>CALCIUM SIDM, SOLUM, SILMA, SOLUM, SILMA, SOLUM, SILMA, SOLUMA, SILMA, SOLUMA, SILMA, SOLUMA, SOLVED RIDE, RIDE, RIDE, SOLVED SOLVED<</td><td>MAGNE- POIAS- ONRELIAD CHLO- FLOO- SILICA, RESIDUE CALCIUM SIUM, SOLVM, TIT 4.5 RIDE, DIS- SULFATE AT 180 DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DEG. C SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L (MG/L SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L (MG/L SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L SOLVED SOLVED DIS- DEG. C (00915) (00925) (00935) (00930) (90410) (00940) (00950) (00955) (00945) (70300) 22.9 5.11 6.66 6.46 54 23.3 .5 11.7 15.8 136 17.3 4.51 4.28 8.97 31 23.3 .3 10.5 20.3 122 18.7</td><td>CALCUM STUM, SOLVED ONFLIKD CHLO- FLOC- STULCA, RESIDE SUN OF DIS- DIS-<td>CALCIUM SIUM, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLV</td></td></thd<></thdis-<>	NAGNE- POIRS- DOINS- DINFILMD CHLO- FLUO- DIS- DIS-	MAGNE- POTAS- ONFLIKD CHLD- FLDC- SIDTA DIS- DIS- DIS- DIS- LAB DIS- DIS- DIS- SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED MG/L (MG/L MG/L (MG/L AS AS AS AS AS AS AS AS FD SID2 (00915) (00925) (00930) (90410) (00940) (00950) (00955) 22.9 5.11 6.66 6.46 54 23.3 .5 11.7 17.3 4.51 4.28 8.97 31 23.3 .3 10.5 18.7 4.47 4.40 7.29 43 20.3 .3 8.7 22.2 4.15 3.88 7.46 41 23.1 .3 15.4	CALCIUM SIDM, SOLUM, SILMA, SOLUM, SILMA, SOLUM, SILMA, SOLUMA, SILMA, SOLUMA, SILMA, SOLUMA, SOLVED RIDE, RIDE, RIDE, SOLVED SOLVED<	MAGNE- POIAS- ONRELIAD CHLO- FLOO- SILICA, RESIDUE CALCIUM SIUM, SOLVM, TIT 4.5 RIDE, DIS- SULFATE AT 180 DIS- DIS- DIS- DIS- DIS- DIS- DIS- DIS- DEG. C SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L (MG/L SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L (MG/L SOLVED DIS- DEG. C (MG/L (MG/L (MG/L MG/L SOLVED SOLVED DIS- DEG. C (00915) (00925) (00935) (00930) (90410) (00940) (00950) (00955) (00945) (70300) 22.9 5.11 6.66 6.46 54 23.3 .5 11.7 15.8 136 17.3 4.51 4.28 8.97 31 23.3 .3 10.5 20.3 122 18.7	CALCUM STUM, SOLVED ONFLIKD CHLO- FLOC- STULCA, RESIDE SUN OF DIS- DIS- <td>CALCIUM SIUM, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLV</td>	CALCIUM SIUM, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLVED, SOLVED SOLV

	NTTRO-	GEN,	GEN,	NTTRO-	GEN, PAR	PHOS-	PHOS-		INORG +	INOR-	CARBON,	ORGANIC	DEMAND,
	GEN,	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-
	AMMONIA	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-
	TOTAL	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	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
	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)				
	(00610)	(00631)	(00613)	(00602)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)
NOV													
28	.070	.11	.004	.35	.16	.011		.093	1.2	<.1	3.7	1.2	3.7
FEB													
05	.090	.64	.013	.93	.21	.010		.088	1.3	<.1	2.6	1.3	<1.0
MAY													
07	.130	.30	.040	.95	.21	.015	<.020	.143	1.4	<.1	4.5	1.4	<1.4
AUG													
22	.110	.09	.003	.31	.14	E.003	<.020	.196	1.1	<.1	1.4	1.1	<1.0

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

392

01464527 BLACKS CREEK AT CHESTERFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				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 2	, 18		30	9					
				FEB	3		20	7					
				MAY	7	4.70	30	6					
				AUG	1		20	13					
DATE	TIME	SAME TYP	PLE PE	_	PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 22 22	0930 0930	ENVIRONM BED MATE	IENTAL ERIAL		 7.00	1000	 9700	 7.6	.2	<2	33.6	<.06 	19
DATE	CADMIUM WATER UNFLIRD 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 22 22	<.04 	<.8 	E.5 	8430 	<1 	534 	<.01 	2 	<.4 	<.05 	2 	 4	 .162
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													
22 22	36	.772	3	74000	8.8	460	.07	1.7	<1	80	E13	 E9	 E11
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 22 22	 E4	 E14	 E27	 E33	 62	 62	 E40	 E22	 E46	 55	 E17	 110	 E40
DATE	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)
AUG													
22	<50	E5	E14	E7	E12	<50	<50	<5	<50	E34	120	<50	E26

01464527 BLACKS CREEK AT CHESTERFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		DED	
		BED	BED
		MAT.	MAT.
	PYRENE,	FALL	SIEVE
	SED, BM	DIAM.	DIAM.
	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN
	(UG/KG)	.004 MM	.062 MM
	(49387)	(80157)	(80164)
AUG			
22			
22	140	1	2

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				
01	1010	300	100	760	15	1100	300	<100	330
08	1030	130	<100	440	22	1050	140	100	270

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 Creek.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD. -- November 1998 to current year.

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".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
NOV													
01 DEC	1120	2.8	764	79	9.3	7.6	879	19.5	8.4	172	210	122	84.9
07	0900	4.3	755	72	7.9	7.2	832	16.0	11.0	144	179	110	80.4
09 MAR	0910	9.8	752	99	14.0	7.6	622	1.0	.5	99	121	96.8	53.0
07	0850	11	762	99	12.8	7.6	567		4.5	97	119	82.9	47.5
арк 04 мау	1230	15	767	178	18.7	8.8	517		13.5	107	126	72.0	46.0
08	1020	10	760	93	8.6	7.5	544	22.5	19.0	117	142	66.8	47.3
13	0920	16	753	77	6.8	7.6	497	19.5	21.0	105	128	51.7	43.2
10	1230	7.4	756	141	11.3	8.3	624		26.0	116	138	83.4	47.0
05	1330	3.9	758	105	9.0	7.9	449		22.5	97	118	46.2	41.9

	NITRO- GEN, AM-	GEN,	GEN,	GEN,	ORTHO- PHOS-		SEDI- MENT,	
	MONIA +	AMMONIA	NO2+NO3	NITRITE	PHATE,	PHOS-	DIS-	SEDI-
	ORGANIC	DIS-	DIS-	DIS-	DIS-	PHORUS	CHARGE,	MENT,
	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	SUS-	SUS-
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	PENDED	PENDED
	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	(T/DAY)	(MG/L)
	(00625)	(00608)	(00631)	(00613)	(00671)	(00665)	(80155)	(80154)
NOV								
01	.61	<.04	1.85	.009	.17	.20	.0	.2
DEC								
07	.85	E.02	3.77	.027	.16	.22	.04	3.7
JAN								
09	.64	.07	1.57	.023	.06	.112	.17	6.4
MAR								
07	.45	<.04	1.58	E.007	.03	.094	.24	8.1
APR								
04	.46	<.04	.66	.012	.03	.069	.15	3.6
MAY					05	110		- -
08	.57	<.04	.98	.028	.05	.119	•14	5.3
12	41	E 02	1 50	011	00	126	10	0 0
тл	.41	E.03	1.50	.011	.09	.130	.42	9.0
10	59	- 01	1 14	014	11	157	12	6 1
SED	. 50	<.04	1.14	.014	•11	.137	.13	0.4
05	50	< 04	1.00	E.005	.08	137	06	5.7
			2.00	2.000				~••

Remark codes used in this report:

< -- Less than E -- Estimated value

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TTME	SAMPLE	ACETO- CHLOR, WATER FLTRD REC	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	CHLOR- PYRIFOS DIS- SOLVED	CYANA- ZINE, WATER, DISS, REC	DCPA WATER FLTRD 0.7 U GF. REC
			(UG/L) (49260)	(UG/L) (46342)	(UG/L) (34253)	(UG/L) (39632)	(UG/L) (82673)	(UG/L) (82680)	(UG/L) (38933)	(UG/L) (04041)	(UG/L) (82682)
NOV											
01 DEC	1120	ENVIRONMENTAL	<.004	<.002	<.005	.019	<.010	<.041	<.005	<.018	<.003
07	0900	ENVIRONMENTAL	<.004	<.002	<.005	.021	<.010	<.041	<.005	<.018	<.003
JAN											
09	0910	ENVIRONMENTAL	<.006	<.004	<.005	.015	<.010	E.005	<.005	<.018	<.003
MAR 07	0950		< 005	< 004	< 005	011	< 010	F 009	< 005	< 018	~ 003
APR	0850	ENVIRONMENTAL	<.000	<.004	<.005	.011	<.010	E.008	<.005	<.010	<.003
04	1230	ENVIRONMENTAL	<.006	<.004	<.005	.014	<.010	<.041	<.005	<.018	<.003
MAY											
08	1020	ENVIRONMENTAL	<.006	<.004	<.005	.032	<.010	E.003	<.005	<.018	<.003
08	1021	SPLIT REPLICATE	<.006	<.004	<.005	.032	<.010	E.003	<.005	<.018	<.003
JUN											
13	0920	ENVIRONMENTAL	.016	<.004	<.005	.509	<.010	E.017	<.005	<.018	<.003
JUL											
10	1230	ENVIRONMENTAL	<.006	<.004	<.005	.168	<.010	E.006	<.005	<.018	<.003
05	1330	ENVIRONMENTAL	<.006	<.004	<.005	.019	<.010	E.011	<.005	<.018	<.003

DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	EPTC WATER FLIRD 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)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
NOV													
01	E.018	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.010	<.01	<.011
07	E.018	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.010	<.01	<.011
09	E.009	<.005	<.006	<.004	<.035	<.027	<.050	E.006	<.006	<.007	<.022	.02	<.011
07	E.007	E.004	<.002	<.004	<.035	<.027	<.050	E.008	<.006	<.007	<.022	<.02	<.011
04	E.007	.005	<.002	<.004	<.035	<.027	<.050	E.010	<.006	<.007	<.022	E.01	<.011
08	E.018	.011	<.002	<.004	<.035	<.027	<.050	.013	<.006	<.007	<.022	.02	<.011
08 JUN	E.018	.012	<.002	<.004	<.035	<.027	<.050	.013	<.006	<.007	<.022	.02	<.011
13	E.038	.015	<.002	<.004	<.035	<.027	<.050	.132	<.006	<.007	<.022	.03	<.011
10 SEP	E.035	.010	<.002	<.004	<.035	<.027	<.050	.038	<.006	<.007	<.022	.12	<.011
05	E.021	.015	<.002	<.004	<.035	<.027	<.050	E.012	<.006	<.007	<.022	.10	<.011

01464907 LITTLE NESHAMINY CREEK AT VALLEY ROAD, NEAR NESHAMINY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV			
01	<.011	<.02	<.034
DEC			
07	<.011	<.02	<.034
JAN			
09	<.005	<.02	<.034
MAR			
07	<.005	<.02	<.034
APR			
04	E.005	<.02	<.034
MAY	000		
08	.008	<.02	<.034
08	.007	<.02	<.034
	222	0.2	- 024
13	.232	.02	<.034
10	0.91	< 02	< 034
4FD	.081	~.02	<.034
05	006	< 02	< 034
~~ • • •	.000	~.04	~•0J4

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, and 4.7 mi upstream of Southwest Branch Rancocas Creek.

DRAINAGE AREA.--6.32 mi².

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

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		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	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													
27	1220	2.5	1.5	.321	.247	768	90	10.4	4.9	108	16.0	9.5	12
FEB													
20	1220	2.2	1.2	.415	.314	761	101	12.9	4.0	104	15.0	5.0	12
JUN													
17	1000	8.5	1.6	1.12	.863	760			4.2	71	27.0	17.0	7
AUG													
19	1210	.67	2.8	.278	.221	748	86	6.9	6.5	95	32.0	25.5	8

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	2.28	1.54	1.23	11.8	<1	19.2	<.1	7.6	10.4	80		<.030	.30
20 JUN	2.41	1.40	1.12	7.85		12.7	<.1	6.8	15.1	68		<.030	.29
17 AUG	1.56	.812	.67	6.07		9.56	E.1	5.9	8.1	67		.030	.63
19	1.45	1.15	1.17	13.2	4	20.9	E.1	1.5	4.5	56	47	<.030	.34

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 27	<.030	.19	<.003	.50	.07	.006		.013	.5	<.1	8.3	.5	E1.6
20 JUN	.030	<.04	<.003		.03	.009	<.020	.013	.5	<.1	9.9	.4	<1.0
17 AUG	.030	E.03	.003		.09	.021	<.020	.032	1.0	<.1	22.4	1.0	E1.3
19	.030	.10	<.003	.44	.07	.017	.028	.035	.8	<.1	5.7	.8	<1.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01465893 LITTLE CREEK AT CHAIRVILLE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 27 FEB 20 JUN 17 AUG 19	 1.00 3.00	20 20 20 20	1 9 6 4

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

		COLI- FORM, FECAL, EC	E COLI, MTEC MF WATER	ENTERO- COCCI, ME MF, WATER			COLI- FORM, FECAL, EC	E COLI, MTEC MF WATER	ENTERO- COCCI, ME MF, WATER
DATE	TIME	BROTH (MPN) (31615)	(COL/ 100 ML) (31633)	(COL/ 100 ML) (31649)	DATE	TIME	BROTH (MPN) (31615)	(COL/ 100 ML) (31633)	(COL/ 100 ML) (31649)
JUL					JUL				
01	1040	20	<100	520	15	1100	20	<100	570
08	0920	40	100	1600	22	1320	80	<100	470
					22	1353	80	<100	50

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 .-- Water year 2001 to September 2002.

REMARKS .-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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 29	1100	.8	.078	.061	766	84	9.2	4.7	33	15.0	11.5	4	.72
07	1030	.9	.048	.036	759	85	10.8	4.8	34	2.0	5.0	4	.72
27	0945	1.6	.215	.169	757	82	7.4	4.6	33	28.0	20.0	3	.56
05	1030	.8	.122	.092	762	83	7.8	4.4	57	25.0	18.5	6	1.01

				ANC					SOLIDS,	NITRO-	NITRO-		NITRO-
	MAGNE-	POTAS-		UNFLTRD	CHLO-	FLUO-	SILICA,		RESIDUE	GEN,	GEN, AM-	NITRO-	GEN,
	SIUM,	SIUM,	SODIUM,	TIT 4.5	RIDE,	RIDE,	DIS-	SULFATE	AT 180	AMMONIA	MONIA +	GEN,	NO2+NO3
	DIS-	DIS-	DIS-	LAB	DIS-	DIS-	SOLVED	DIS-	DEG. C	DIS-	ORGANIC	AMMONIA	DIS-
	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL	SOLVED
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)	AS K)	AS NA)	CACO3)	AS CL)	AS F)	SIO2)	AS SO4)	(MG/L)	AS N)	AS N)	AS N)	AS N)
	(00925)	(00935)	(00930)	(90410)	(00940)	(00950)	(00955)	(00945)	(70300)	(00608)	(00623)	(00610)	(00631)
NOV													
29	.505	.60	1.97	<1	3.21	E.1	6.0	6.3	26	<.030	E.06	.090	E.03
FEB													
07	.520	.46	1.94	<1	3.07	<.1	6.1	6.3	26	.040	E.05	<.030	<.04
JUN													
27	.409	.42	1.86	<1	2.97	<.1	5.8	5.6	20	<.030	.10	.040	<.04
SEP													
05	.827	.47	2.26		3.47	<.1	7.3	12.1	24	<.030	.11	<.030	<.04

	MITRO- GEN,	NITRO- GEN, PAR	PHOS-	ORTHO- PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,	CHLORO- PHYLL A		RESIDUE TOTAL
	NITRITE	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-	BORON,	AT 105
	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC	DIS-	DEG. C,
	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD	SOLVED	SUS-
DATE	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	5 DAY	CORR.	(UG/L	PENDED
	AS N)	AS N)	AS P)	AS P)	AS P)	AS C)	AS C)	AS C)	AS C)	(MG/L)	(UG/L)	AS B)	(MG/L)
	(00613)	(49570)	(00666)	(00671)	(00665)	(00694)	(00688)	(00681)	(00689)	(00310)	(32209)	(01020)	(00530)
NOV													
29	<.003	.04	<.004		.008	.6	<.1	1.7	.6	<1.0		<10	<1
FEB													
07	<.002	<.02	E.003	<.020	.006	.3	<.1	1.5	.3	E1.5		<10	2
JUN													
27	<.003	<.02	.004	<.020	.014	.8	<.1	4.4	.8	<1.0	.700	E9	5
SEP													
05	<.003	.04	.004	<.020	.010	.6	<.1	3.6	.6	<1.0	.500	E10	6

								BENZENE	BENZENE	BENZENE			
		1,1,1-		1,1-DI-			TRANS-	1,3-DI-	1,4-DI-	O-DI-			CARBON
		TRI-	1,1-DI-	CHLORO-	1,2-DI-	1,2-DI-	1,2-DI-	CHLORO-	CHLORO-	CHLORO-			TETRA-
		CHLORO-	CHLORO-	ETHYL-	CHLORO-	CHLORO-	CHLORO-	WATER	WATER	WATER		BROMO-	CHLO-
		ETHANE	ETHANE	ENE	ETHANE	PROPANE	ETHENE	UNFLTRD	UNFLTRD	UNFLTRD	BENZENE	FORM	RIDE
DATE	TIME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	REC	REC	REC	TOTAL	TOTAL	TOTAL
		(UG/L)											
		(34506)	(34496)	(34501)	(32103)	(34541)	(34546)	(34566)	(34571)	(34536)	(34030)	(32104)	(32102)
FEB													
07	1030	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	<.1	<.2	.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	DA	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)		
	FEB 0	7	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water samples are listed in the following table.

						BEN-	CAR-				DEETHYL		
		ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA	ATRA-		EPTC
		CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER	ZINE,	DI-	WATER
		WATER	WATER,	BHC	WATER,	WAT FLD	FLTRD	PYRIFOS	WATER,	FLTRD	WATER,	AZINON,	FLTRD
		FLTRD	DISS,	DIS-	DISS,	0.7 U	0.7 U	DIS-	DISS,	0.7 U	DISS,	DIS-	0.7 U
DATE	TIME	REC	REC,	SOLVED	REC	GF, REC	GF, REC	SOLVED	REC	GF, REC	REC	SOLVED	GF, REC
		(UG/L)											
		(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(04041)	(82682)	(04040)	(39572)	(82668)
JUN													
27	0945	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002
		I.TN-		метнут.			NAPROP-	PENDT-		PRO-		TEBII-	TER-
		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL	SI-	THIURON	BACIL
		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD
	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U	DISS,	0.7 U	0.7 U
DATE	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC
	(UG/L)												
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
JUN													
27	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034

TRI-
FLUR-
ALIN
WAT FLT
0.7 U
GF, REC
(UG/L)
(82661)
<.009

01466100 MOUNT MISERY BROOK AT UPTON, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 01 08	1015 0940	20 <20	<100 <100	110 50	JUL 15 29	1030 0853	20 <20	<100 100	20 20

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ

LOCATION.--Lat 39°53'06", 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.

PERIOD OF DAILY RECORD .--SPECIFIC CONDUCTANCE: October 1968 to September 1992. pH: October 1984 to September 1992. WATER TEMPERATURE: October 1960 to September 1992. DISSOLVED OXYGEN: October 1984 to September 1992.

REMARKS.--Chemical analyses are from samples collected as water flows over the weir at the gaging station. All discharge record represents flow at a point 785 ft downstream of the gaging station. Discharges at the weir may be about 1 ft³/s less than published in Water-Data Report NJ-02-1. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 Temperature of Biological Monitoring Laboratory Freshwater and Biological Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Background, New Jersey Department of Environmental Protection Watershed Management Area 19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1045	.86	.3	.086	.067	775	18	2.2	4.4	35	7.0	6.5	2
FEB 07	1045	.84	.3	.084	.065	760	45	5.8	4.3	38	2.0	4.5	3
MAY 07	1000	1.1	.3	.112	.085	760	35	3.8	4.3	39	23.0	12.0	3
SEP 03	1015	E.95	.3	.253	.189	760	27	2.6	4.2	52	21.0	16.5	5

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	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 DIS. (MG/L AS N) (00623)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)
NOV 13	. 30	. 392	.24	1.93	3.39	<.1	4.7	4.7	16	.030	<.10	.040	<.04
FEB					0105								
07	.35	.480	.32	1.82	3.18	<.1	4.4	5.2	18	<.030	E.05	<.030	<.04
MAY													
07	.41	.546	.27	1.92	3.32	<.1	4.2	5.5	23	<.030	E.08	<.030	<.04
SEP													
03	.60	.818	.27	2.29	4.20	<.1	5.3	7.5	28	<.030	.16	<.030	<.04

DATE	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)	ORTHO- PHOS- PHATE, 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)	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 13 FEB 07 MAY 07	<.003 <.002	<.02 <.02	<.004 <.004	 <.020	<.004 <.004	.2 .2	<.1 <.1	2.0 2.0	.2 .2	2.7 <1.0		E8 <10 F8	2 <1
SEP 03	<.003	.02	<.004	<.020	<.004 E.003	.2	<.1	7.7	.2	<1.0	.200	20	3

Remark codes used in this report:

< -- Less than E -- Estimated value

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1045	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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 07	<.1	<.2	.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.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	3 17	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 07	1000	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003	<.006	<.005	<.002
		LIN- URON WATER	MALA-	METHYL AZIN- PHOS	METO-	METRI- BUZIN	NAPROP- AMIDE WATER	PENDI- METH- ALIN	PRO- METON,	PRO- PANIL WATER	SI- MAZINE,	TEBU- THIURON WATER	TER- BACIL WATER
DATE	LINDANE DIS- SOLVED (UG/L) (39341)	FLTRD 0.7 U GF, REC (UG/L) (82666)	THION, DIS- SOLVED (UG/L) (39532)	WAT FLT 0.7 U GF, REC (UG/L) (82686)	LACHLOR WATER DISSOLV (UG/L) (39415)	SENCOR WATER DISSOLV (UG/L) (82630)	FLTRD 0.7 U GF, REC (UG/L) (82684)	WAT FLT 0.7 U GF, REC (UG/L) (82683)	WATER, DISS, REC (UG/L) (04037)	FLTRD 0.7 U GF, REC (UG/L) (82679)	WATER, DISS, REC (UG/L) (04035)	FLTRD 0.7 U GF, REC (UG/L) (82670)	FLTRD 0.7 U GF, REC (UG/L) (82665)
MAY 07	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034

DATE	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAY 07	<.009

01466500 MCDONALDS BRANCH IN LEBANON STATE FOREST, NJ--Continued

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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				
01	1000	<20	<100	<10	15	1015	40	<100	<10
08	1000	<20	<100	<10	22	1000	20	40	<100
					29	0906	<20	<100	<10

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, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--77.9 mi².

PERIOD OF RECORD. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 06 FEB	0800	29	1.8	.090	.072	761	83	9.4	5.2	42	12.0	10.0	6
27	0800	29	2.6	.080	.062	751	86	9.9	4.9	48	3.0	8.5	6
30 SEP	0715	57	3.0	.364	.286	760	76	7.0	4.4	42	17.0	19.0	5
10	0715	23	2.6	.130	.102	747	85	7.9	4.6	52	15.0	18.0	6

		MAGNE-	POTAS-		ANC UNFLTRD	CHLO-	FLUO-	SILICA,		SOLIDS, RESIDUE	GEN,	NITRO- GEN,AM-	NITRO-
	CALCIUM DIS-	SIUM, DIS-	SIUM, DIS-	SODIUM, DIS-	TIT 4.5 LAB	RIDE, DIS-	RIDE, DIS-	DIS- SOLVED	SULFATE DIS-	AT 180 DEG. C	AMMONIA DIS-	MONIA + ORGANIC	GEN, AMMONIA
ጉአጥም	SOLVED	SOLVED	SOLVED	SOLVED	(MG/L	SOLVED	SOLVED	(MG/L	SOLVED	DIS-	SOLVED	DIS.	TOTAL (MC/I
DAIL	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)
DEC													
06 FEB	1.17	.658	.86	3.94	<1	6.60	<.1	5.5	7.0	32	<.030	E.08	<.030
27 May	1.18	.688	1.01	4.08	<1	6.71	<.1	5.4	8.0	34	<.030	E.09	<.030
30	.93	.560	.87	3.49	<1	5.58	<.1	4.3	7.2	31	.030	.19	.050
10	1.14	.734	.83	4.53	<1	6.82	<.1	6.1	7.5	28	<.030	.13	<.030
	NTERO	NTEDO		NTERO		01011110		CARDON	CARRON		CARRON	OVACEN	000
	CEN	CEN	NTTPO-	CEN DAD	PHOS-	DHOS-		TNOPC +	TNOP-	CAPBON	OPGANIC	DEMAND	DHVLL A
	NO2+NO3	NITRITE	GEN	TICULTE	PHORUS	PHATE,	PHOS-	ORGANIC	GANIC,	ORGANIC	PARTIC-	BIO-	FLUORO-
	DIS-	DIS-	DIS-	WAT FLT	DIS-	DIS-	PHORUS	PARTIC.	PARTIC.	DIS-	ULATE	CHEM-	METRIC
	SOLVED	SOLVED	SOLVED	SUSP	SOLVED	SOLVED	TOTAL	TOTAL	TOTAL	SOLVED	TOTAL	ICAL,	METHOD
DATE	(MCI/T.												
		(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L		(MC/T)	(UC/T)
	AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(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)	AS C) (00689)	(MG/L) (00310)	(UG/L) (32209)
DEC	AS N) (00631)	(MG/L AS N) (00613)	(MG/L AS N) (00602)	(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)	(MG/L) (00310)	(UG/L) (32209)
DEC 06 FEB	AS N) (00631)	(MG/L AS N) (00613) <.003	(MG/L AS N) (00602)	(MG/L AS N) (49570) .04	(MG/L AS P) (00666) E.002	(MG/L AS P) (00671)	(MG/L AS P) (00665)	(MG/L AS C) (00694)	(MG/L AS C) (00688) <.1	(MG/L AS C) (00681) 1.9	(MG/L AS C) (00689)	(MG/L) (00310) E1.1	(UG/L) (32209)
DEC 06 FEB 27	AS N) (00631) .09 .05	(MG/L AS N) (00613) <.003 <.003	(MG/L AS N) (00602) 	(MG/L AS N) (49570) .04 .05	(MG/L AS P) (00666) E.002 E.003	(MG/L AS P) (00671) <.020	(MG/L AS P) (00665) .020 .032	(MG/L AS C) (00694) .9 1.0	(MG/L AS C) (00688) <.1 <.1	(MG/L AS C) (00681) 1.9 2.1	(MG/L AS C) (00689) .9 1.0	(MG/L) (00310) E1.1 2.2	(UG/L) (32209)
DEC 06 FEB 27 MAY 30 SED	AS N) (00631) .09 .05 .04	(MG/L AS N) (00613) <.003 <.003	(MG/L AS N) (00602) .23	(MG/L AS N) (49570) .04 .05 .12	(MG/L AS P) (00666) E.002 E.003 .011	(MG/L AS P) (00671) <.020 <.020	(MG/L AS P) (00665) .020 .032 .046	(MG/L AS C) (00694) .9 1.0 1.6	(MG/L AS C) (00688) <.1 <.1 <.1	(MG/L AS C) (00681) 1.9 2.1 6.1	(MG/L AS C) (00689) .9 1.0 1.6	(MG/L) (00310) E1.1 2.2 2.2	(UG/L) (32209) 2.80

Remark codes used in this report:

< -- Less than
E -- Estimated value</pre>

406

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
DEC 06 FEB	E7	4
27	E8	4
30 SEP	<10	7
10	E10	6

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 01	0935	20	100	60	JUL 15	0950	<20	<100	20
08	1040	20	<100	<10	22 29	1250 0830	20 20	<100 <100	10 20

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. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

- COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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			_										
27 FEB	1000	78	7.6	.131	.102	768	91	10.2	6.7	202	13.5	10.5	34
13 ллм	1240	78	4.8	.118	.094	765	100	12.8	6.6	180	5.0	5.0	30
04	0850	67	12	.350	.279	767	92	8.3	5.9	162	26.5	20.5	21
19	0920	22	15	.285	.231	748	81	6.4	5.9	220	35.0	26.0	30
					ANC					SOLIDS,	SOLIDS,	NITRO-	NITRO-

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)	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)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 27	10.5	1.78	3.27	21.7	16	16.4	E.1	6.7	47.4	124	119	.220	.47
13 JUN	8.74	1.90	2.34	18.5	10	19.6	E.1	7.2	35.5	108	102	.320	.53
04 AUG	6.19	1.40	1.84	18.5	7	19.6	E.1	5.4	29.3	95	88	.270	.56
19	9.09	1.79	3.37	24.3	14	26.8	.1	6.6	34.1	131	119	.300	.62
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV													
27	.210	.26	.044	.73	.13	.024		.21	1.3	<.1	3.6	1.3	E1.7

Remark codes used in this report:

.37

.29

.87

.008

.012

.055

.90

.85

1.5

.04

.25

.14

.040

.046

.076

<.020

.041

.073

.185

.24

.30

.8

2.9

1.3

<.1

<.1

<.1

3.0

6.0

5.4

.8

2.9

1.3

<1.0

E1.1

E1.4

.320

.320

.310

< -- Less than E -- Estimated value

FEB 13...

JUN 04...

AUG

19...

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

				DA	NTE	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	7 27		30	<1					
				FEE 1	3 .3		30	10					
				JUK	1)4	4.00	30	20					
				AUG 1	} 9	5.30	50						
DATE	TIME	SAME TYP	PLE PE	-	PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. (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 19 19	0920 0920	ENVIRONN BED MATE	TENTAL RIAL		 6.20	 260	 31000	 3.6	<.2	<2 	27.7	E.04	52
DATE	CADMIUM WATER UNFLIRD 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 19 19	E.03	<.8 	1.5 	2900	2 	44.6	<.01	1 	<.4 	E.03	8 	 2	.127
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													
19 19	 19	.453	 3	18000	 49	28	<.01	 1.2	 <1	 44	<50	 E4	 E2
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 19 19	<50	 E7	 E13	 E13	 E15	 E21	 E16	 E6	 E19	 E16	 E9	 E30	 E20
DATE	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)
AUG 19													
19	<50	<50	E6	E2	E5	<50	E14	<5	<50	E12	E14	E10	E9

01467005 NORTH BRANCH RANCOCAS CREEK AT IRON WORKS PARK, AT MOUNT HOLLY, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

BED
MAT.
IEVE
LAM.
FINER
FHAN
62 MM
0164)
6

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				
01	1105	1700	1100	380	15	1125	500	600	130
08	1100	800	600	110	22	1300	170	<100	50

01467150 COOPER RIVER AT HADDONFIELD, NJ

LOCATION.--Lat 39°54'11", long 75°01'18", Camden County, Hydrologic Unit 02040202, at 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.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 19.

WATER-OUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 07 FEB	1000	7.6	22	.070	.056	762	81	9.5	7.7	230	13.5	8.5	66
06 MAY	0900	8.0	16	.075	.062	768	90	12.6	7.3	360	7.5	2.0	65
09 AUG	0900	9.7	27	.149	.114	762	75	7.0	7.0	222	13.0	18.5	57
07	1000	4.3	35	.116	.088	764	65	5.6	7.2	234	20.5	23.0	64

					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													
07	17.9	5.30	4.74	14.5	35	29.9	.2	14.0	25.9	144	134	.080	.23
FEB													
06	17.8	4.86	3.84	46.6	25	82.8	.2	12.2	30.7	226	216	.210	.43
MAY													
09	15.9	4.15	3.91	14.6	31	30.6	.20	11.3	22.8	125	124	.340	.69
AUG													
07	17.0	5.14	4.67	14.9	32	30.7	.22	13.7	24.7	155	131	.430	.69

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV										_			
07 FEB	.100	.13	<.003	.36	.13	.006		.115	1.2	<.1	3.0	1.2	1.5
06	.210	.28	.011	.71	.06	E.003	<.020	.111	.9	<.1	2.1	.9	E1.8
MAY										_			
09 AUG	.310	.27	.023	.96	.21	.022	<.020	.26	2.1	<.1	4.5	2.1	E1.9
07	.410	.18	.021	.88	.32	.013	<.020	.24	2.0	<.1	3.7	2.0	2.0

Remark codes used in this report:

< -- Less than E -- Estimated value

01467150 COOPER RIVER AT HADDONFIELD, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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 07 FEB 06 MAY 09 AUG 07	 11.1 15.8	50 40 30 50	3 9 20 15

					BERYL-			CHRO-			
				BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,		COPPER,	IRON,
				TOTAL	TOTAL	TOTAL	WATER	TOTAL	COPPER,	TOTAL	TOTAL
			ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-	DIS-	RECOV-	RECOV-
		SAMPLE	TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE	SOLVED	ERABLE	ERABLE
DATE	TIME	TYPE	(UG/L								
			AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS CU)	AS FE)
			(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01040)	(01042)	(01045)
AUG											
07	0930	FIELD BLANK							<.2		
07	1000	ENVIRONMENTAL	4	71.5	.09	50	.05	.9		1.7	4290

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
AUG				. 01						. 1	
07	<.08	4	95.6	<.01	<.01	<.06	4	E.3	<.05	< <u>-</u>	11

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				
29	0920	300	300	190	12	1010	500	100	240
JUN					19	0950	1700	100	320
05	1020	230	300	150	26	0950	500	900	890

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ

LOCATION.--Lat 39°51'35", long 74°55'46", Camden County, Hydrologic Unit 02040202, at bridge on Kresson Road, 0.5 mi northwest of Kresson Lake, and 2.3 mi south of Marlton.

DRAINAGE AREA.--1.04 mi².

PERIOD OF RECORD.--Water year 1998, 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 2001 TO SEPTEMBER 2002

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	2.3	.351	.274	772	40	5.3	6.8	176	10.0	4.0	59	19.1
13	1000	2.8	.316	.241	764	81	11.1	6.5	173	1.5	2.5	55	18.7
21	0900	3.9	.623	.480	768	77	9.2	6.9	120	11.0	8.0	44	15.3
04	0930	1.0	.416	.312	757	52	4.7	6.1	319	29.5	20.0	140	47.6
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)
NOV 14	2.65	1.41	8.71	27	15.2	<.1	10.9	28.6	120	103	.030	.38	.040
<u>FEB</u> 13 МАУ	1.91	.98	7.88	16	13.2	<.1	9.1	35.7	116	98	<.030	.33	<.030
21 SEP	1.51	1.02	5.63	32	9.20	E.1	9.0	8.6	106	70	.030	.61	.040
04	4.24	1.44	8.22	10	12.3	<.1	11.1	117	246	208	.048	.55	.058
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
14 FEB	E.02	<.003		<.02	.021		.033	.3	<.1	9.2	.3	E1.2	
13 MAY	.21	<.003	.55	.02	.012	<.020	.020	.4	<.1	8.5	.4		
21 SEP	.05	.003	.66	.07	.033	.025	.044	1.0	<.1	14.0	.9	<1.0	.300
04	<.04	<.003		.07	.018	.021	.026	.4	<.1	12.1	.4	<1.0	.100

Remark codes used in this report:

< -- Less than E -- Estimated value

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 14 FEB 13 MAY 21 SEP 04	20 E10 E10 40	6 10 <1 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)
SEP 04	0930	<2	106	E.03	37	.49	<.8	2.9	710	<1	114	E.01	5
						CELE	SILVER,	ZINC,					

	SELE-	TOTAL	TOTAL
	NIUM,	RECOV-	RECOV-
	TOTAL	ERABLE	ERABLE
DATE	(UG/L	(UG/L	(UG/L
	AS SE)	AS AG)	AS ZN)
	(01147)	(01077)	(01092)
SEP			
04	.4	E.04	94

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 13	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
		CHLORO-		CIS-1,2 -DI-	BROMO-	DI- CHLORO- DI-	DI-ISO- PROPYL- FTHEP	ETHER FTHYT.	ETHER TERT- BUTYL	ETHER TERT-		FREON-	METHYL TERT- BUTYL
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) (81577)	WATER UNFLTRD RECOVER (UG/L) (81576)	ETHYL UNFLTRD RECOVER (UG/L) (50004)	METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	WATER UNFLTRD REC (UG/L) (77652)	ETHER WAT UNF REC (UG/L) (78032)
FEB 13	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.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 13	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.2

01467155 NORTH BRANCH COOPER RIVER AT KRESSON, 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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY													
21	0900	<.006	<.004	<.005	E.005	<.010	E.004	<.005	<.018	E.002	E.002	<.005	<.002
		LIN- URON		METHYL AZIN-		METRI-	NAPROP- AMIDE	PENDI- METH-	PRO-	PRO- PANIL	SI-	TEBU- THIURON	TER- BACIL
		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER	MAZINE,	WATER	WATER
	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD
DATE	SOLVED	GE REC	SOLVED	0.70	DISSOLV	DISSOLV	GE BEC	GE REC	DISS,	CIT TI	DISS,	GE BEC	U./U
Dill	(IIG/I_{L})	(IIG/I_{L})	(UG/L)	(IIG/I_{L})	(IIG/L)	(UG/L)	(IIG/I_{L})	(IIG/IL)	(IIG/I_{1})	(IIG/I_{L})	(IIG/I_{L})	(IIG/I_{L})	$(IIG/I_{\rm I})$
	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)
MAY													
21	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	<.01	<.011	<.005	<.02	<.034



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 29 JUN	0950	500	100	160	JUN 12 19	1045 1015	170 500	<100 100	440 230

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. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
17	1110	18	20	.104	.086	763	91	11.1	6.8	168	9.5	7.0	48
FEB													
13	0940	19	9.8	.099	.081	763	92	12.2	6.6	207	5.5	3.5	50
JUN													
13	1250	47	24	.220	.181	760	59	5.2	6.7	170	22.0	21.0	48
AUG													
07	0940	51	13	.197	.166	764	58	5.2	6.9	188	23.5	21.0	52
										ent the	ent the	MTTDO_	MTTDO_

					ANC					SOLLDS,	SOLLD'S	NTIKO-	MITIKO-
		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)
DEC													
17	14.4	3.03	3.24	9.50	29	16.3	.2	10.2	19.7	92	97	.160	.27
FEB													
13	14.9	3.00	2.87	15.9	26	28.8	.2	9.5	22.8	120	117	.060	.20
JUN													
13	14.2	2.92	3.02	9.26	31	17.1	.26	9.5	17.2	106	94	.180	.36
AUG													
07	15.2	3.37	3.29	11.4	36	19.4	.22	9.9	15.8	129	102	<.030	.26
		NITRO-	NITRO-		NITRO-		ORTHO-		CARBON,	CARBON,		CARBON,	OXYGEN
	NITRO-	NITRO- GEN,	NITRO- GEN,	NITRO-	NITRO- GEN, PAR	PHOS-	ORTHO- PHOS-		CARBON, INORG +	CARBON, INOR-	CARBON,	CARBON, ORGANIC	OXYGEN DEMAND,
	NITRO- GEN,	NITRO- GEN, NO2+NO3	NITRO- GEN, NITRITE	NITRO- GEN	NITRO- GEN, PAR TICULTE	PHOS- PHORUS	ORTHO- PHOS- PHATE,	PHOS-	CARBON, INORG + ORGANIC	CARBON, INOR- GANIC,	CARBON, ORGANIC	CARBON, ORGANIC PARTIC-	OXYGEN DEMAND, BIO-
	NITRO- GEN, AMMONIA	NITRO- GEN, NO2+NO3 DIS-	NITRO- GEN, NITRITE DIS-	NITRO- GEN DIS-	NITRO- GEN,PAR TICULTE WAT FLT	PHOS- PHORUS DIS-	ORTHO- PHOS- PHATE, DIS-	PHOS- PHORUS	CARBON, INORG + ORGANIC PARTIC.	CARBON, INOR- GANIC, PARTIC.	CARBON, ORGANIC DIS-	CARBON, ORGANIC PARTIC- ULATE	OXYGEN DEMAND, BIO- CHEM-
	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, NITRITE DIS- SOLVED	NITRO- GEN DIS- SOLVED	NITRO- GEN,PAR TICULTE WAT FLT SUSP	PHOS- PHORUS DIS- SOLVED	ORTHO- PHOS- PHATE, 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	NITRO- GEN, AMMONIA TOTAL (MG/L	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L	NITRO- GEN, NITRITE DIS- SOLVED (MG/L	NITRO- GEN DIS- SOLVED (MG/L	NITRO- GEN,PAR TICULTE WAT FLT SUSP (MG/L	PHOS- PHORUS DIS- SOLVED (MG/L	ORTHO- PHOS- PHATE, 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	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY
DATE	NITRO- GEN, AMMONIA 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,PAR TICULTE WAT FLT SUSP (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	ORTHO- PHOS- PHATE, 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)
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DATE DEC 17	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .24	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 2.6	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0
DATE DEC 17 FEB	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .48	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) .013	ORTHO- PHOS- PHATE, 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) 2.6	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0
DATE DEC 17 FEB 13	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) .090 .050	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .48 .67	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .005 .008	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602) .75 .87	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31 .06	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) .013 .015	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.020	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .24 .116	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 2.6 .9	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7 1.9	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6 .9	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.0
DATE DEC 17 FEB 13 JUN	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) .090 .050	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .48 .67	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .005 .008	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602) .75 .87	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31 .06	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) .013 .015	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.020	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .24 .116	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 2.6 .9	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7 1.9	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6 .9	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.0
DATE DEC 17 FEB 13 JUN 13	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) .090 .050 .170	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .48 .67 .33	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .005 .008 .016	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602) .75 .87 .70	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31 .06 .21	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) .013 .015 .045	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.020 .032	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .24 .116 .33	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 2.6 .9 2.3	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1 <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7 1.9 3.5	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6 .9 2.3	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.0 E1.6
DATE DEC 17 FEE 13 JUN 13 AUG	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610) .090 .050 .170	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .48 .67 .33	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) .005 .008 .016	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602) .75 .87 .70	NITRO- GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570) .31 .06 .21	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666) .013 .015 .045	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) <.020 .032	PHOS- PHORUS TOTAL (MG/L AS P) (00665) .24 .116 .33	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694) 2.6 .9 2.3	CARBON, INOR- GANIC, PARTIC. TOTAL (MG/L AS C) (00688) <.1 <.1 <.1	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681) 1.7 1.9 3.5	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689) 2.6 .9 2.3	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310) <1.0 E1.0 E1.6

Remark codes used in this report:

< -- Less than E -- Estimated value

416

01467359 NORTH BRANCH BIG TIMBER CREEK AT GLENDORA, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC 17 FEB 13 JUN 13 AUG	 2.40	240 230 200	20 12 30
07	1.50	270	1

				BERYL-			CHRO-				MANGA-		
			BARIUM,	LIUM,	BORON,	CADMIUM	MIUM,	COPPER,	IRON,	LEAD,	NESE,	MERCURY	NICKEL,
			TOTAL	TOTAL	TOTAL	WATER	TOTAL						
		ARSENIC	RECOV-	RECOV-	RECOV-	UNFLTRD	RECOV-						
		TOTAL	ERABLE	ERABLE	ERABLE	TOTAL	ERABLE						
DATE	TIME	(UG/L											
		AS AS)	AS BA)	AS BE)	AS B)	AS CD)	AS CR)	AS CU)	AS FE)	AS PB)	AS MN)	AS HG)	AS NI)
		(01002)	(01007)	(01012)	(01022)	(01027)	(01034)	(01042)	(01045)	(01051)	(01055)	(71900)	(01067)
AUG													
07	0940	E1	63.4	<.06	260	E.03	<.8	.9	2760	1	76.7	<.01	2
							SILVER.	ZINC.					
						SELE-	TOTAL	TOTAL					
						NIUM,	RECOV-	RECOV-					
						TOTAL	ERABLE	ERABLE					
				DA	TE	(UG/L	(UG/L	(UG/L					
						AS SE)	AS AG)	AS ZN)					
						(01147)	(01077)	(01092)					
				AUG	1								
				0	7	E.3	<.05	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)
MAY					JUN				
29	0850	110	<100	280	12	0930	800	400	120
JUN					19	0920	300	900	300
05	0940	300	1000	770	26	0925	800	500	2700

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA

LOCATION.--Lat 40°09'05", long 75°36'06", Chester County, PA, Hydrologic Unit 02040203, on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--59.1 mi².

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

PERIOD OF DAILY RECORD .--WATER TEMPERATURE: November 1998 to April 1999, June 1999 to August 1999, June 2000 to September 2001.

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."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV											
07 DEC	1050	ENVIRONMENTAL	16	758	112	13.1	7.8	173	17.0	8.3	51
06 JAN	1030	ENVIRONMENTAL	13	759	106	12.3	7.7	185	20.5	9.2	49
17	1010	ENVIRONMENTAL	25	754	100	13.5	7.6	181	9.0	2.6	38
05	1030	ENVIRONMENTAL	38	765	109	15.2	7.5	159	9.0	2.0	30
11	0900	ENVIRONMENTAL	31	769	108	12.1	7.7	176	18.0	10.8	43
15	0930	ENVIRONMENTAL	112	757	102	10.9	7.4	129	19.0	12.2	27
15 JUN	0931	SPLIT REPLICATE									28
11	1000	ENVIRONMENTAL	25	755	109	9.8	7.7	173	27.5	20.2	42
11 SEP	1010	ENVIRONMENTAL	13	759	101	9.2	8.0	177	22.0	19.8	47
03 03	1049 1050	FIELD BLANK ENVIRONMENTAL	 19	757	103	9.5	7.8	193	28.5	18.8	45

	BICAR-			NITRO-	NITRO-	NITRO-	NITRO-	ORTHO-		SEDI-	
	BONATE	CHLO-		GEN, AM-	GEN,	GEN,	GEN,	PHOS-		MENT,	
	WATER	RIDE,	SULFATE	MONIA +	AMMONIA	NO2+NO3	NITRITE	PHATE,	PHOS-	DIS-	SEDI-
	DIS IT	DIS-	DIS-	ORGANIC	DIS-	DIS-	DIS-	DIS-	PHORUS	CHARGE,	MENT,
	FIELD	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	SUS-	SUS-
DATE	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	PENDED	PENDED
	HCO3	AS CL)	AS SO4)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	(T/DAY)	(MG/L)
	(00453)	(00940)	(00945)	(00625)	(00608)	(00631)	(00613)	(00671)	(00665)	(80155)	(80154)
NOV											
07	62	12.4	12.1	.18	<.04	. 39	<.008	<.02	.014		<1.0
DEC											-200
06	59	12.3	13.3	.25	<.04	.94	<.008	<.02	.016	.13	3.6
JAN											
17	46	16.6	16.0	.22	<.04	1.54	<.008	<.02	.018		<1.0
MAR											
05	37	14.6	15.5	.37	<.04	1.11	E.005	E.01	.041	.33	3.2
APR											
11	52	14.0	13.7	.23	<.04	1.02	.006	E.01	.023		
MAY											
15	33	9.38	12.0	.60	E.03	.92	E.006	E.02	.084	4.5	15
15	34	9.12	11.9	.61	E.03	.91	E.006	.02	.084		14
JUN											
11	51	13.6	12.3	.33	E.02	1.14	E.007	.03	.051	.26	3.8
JUL											
11	57	12.6	11.6	.22	<.04	.58	<.008	E.01	.034	.11	3.0
SEP											
03											
03	55	13.2	20.4	.31	<.04	.68	<.008	.02	.043	.25	4.9

Remark codes used in this report:

< -- Less than E -- Estimated value
SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

							BEN-	CAR-			
			ACETO-	ALA-		ATRA-	FLUR-	BARYL		CYANA-	DCPA
			CHLOR,	CHLOR,	ALPHA	ZINE,	ALIN	WATER	CHLOR-	ZINE,	WATER
			WATER	WATER,	BHC	WATER,	WAT FLD	FLIRD	PIRIFOS	WATER,	FLIRD
האתב	TTME	TYDE	FLIRD	DISS,	DIS-	DISS,			DIS-	DISS,	
DAIE	TIME	TIFE					(IIC/I)	(IIC/I)			(IC/I)
			(49260)	(46342)	(34253)	(39632)	(82673)	(82680)	(38933)	(00/1)	(82682)
			(1)200)	(10312)	(31233)	(35052)	(02075)	(02000)	(30)33)	(01011)	(01001)
NOV											
07	1050	ENVIRONMENTAL	<.004	<.002	<.005	E.006	<.010	<.041	<.005	<.018	<.003
DEC											
06	1030	ENVIRONMENTAL	<.004	<.002	<.005	E.006	<.010	<.041	<.005	<.018	<.003
JAN											
17	1010	ENVIRONMENTAL	<.006	<.004	<.005	.010	<.010	<.041	<.005	<.018	<.003
MAR											
05	1030	ENVIRONMENTAL	<.006	<.004	<.005	.010	<.010	<.041	<.005	<.018	<.003
APR 11	0000		< 004	< 002	< 00F	01.2	~ 010	- 041	< 00F	~ 010	~ 003
MAY	0900	ENVIRONMENTAL	<.004	<.002	<.005	.012	<.010	<.041	<.005	<.010	<.003
15	0930	ENVIRONMENTAL.	< 006	< 004	< 005	1.33	< 010	< 041	< 005	< 018	< 003
лтіN	0550					1.00					
11	1000	ENVIRONMENTAL	<.006	.005	<.005	.284	<.010	<.041	<.005	<.018	<.003
JUL											
11	1010	ENVIRONMENTAL	<.006	<.004	<.005	.034	<.010	<.041	<.005	<.018	<.003
SEP											
03	1049	FIELD BLANK	<.006	<.004	<.005	<.007	<.010	<.041	<.005	<.018	<.003
03	1050	ENVIRONMENTAL	<.006	<.004	<.005	.013	<.010	<.041	<.005	<.018	<.003

	DEETHYL				LIN-		METHYL			NAPROP-	PENDI-		PRO-
	ATRA-		EPTC		URON		AZIN-		METRI-	AMIDE	METH-	PRO-	PANIL
	ZINE,	DI-	WATER		WATER	MALA-	PHOS	METO-	BUZIN	WATER	ALIN	METON,	WATER
	WATER,	AZINON,	FLTRD	LINDANE	FLTRD	THION,	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD
	DISS,	DIS-	0.7 U	DIS-	0.7 U	DIS-	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U
DATE	REC	SOLVED	GF, REC	SOLVED	GF, REC	SOLVED	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC
	(UG/L)												
	(04040)	(39572)	(82668)	(39341)	(82666)	(39532)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)
NOV													
07	E.022	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.010	<.01	<.011
DEC													
06	E.007	<.005	<.002	<.004	<.035	<.027	<.050	E.003	<.006	<.007	<.010	<.01	<.011
JAN													
17	E.018	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011
MAR													
05	E.015	<.005	<.002	<.004	<.035	<.027	<.050	E.004	<.006	<.007	<.022	<.01	<.011
APR													
11	E.009	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.010	<.01	<.011
MAY													
15	E.060	<.005	<.002	<.004	<.035	<.027	<.050	.159	<.006	<.007	<.022	<.01	<.011
JUN													
11	E.055	<.005	<.002	<.004	<.035	<.027	<.050	.034	<.006	<.007	<.022	<.01	<.011
ராட													
11	E.031	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	<.01	<.011
SEP													
03	<.006	<.005	<.002	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.022	<.01	<.011
03	E.018	<.005	<.002	<.004	<.035	<.027	<.050	E.005	<.006	<.007	<.022	E.01	<.011

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV			
07	E.006	<.02	<.034
DEC	- 005		
UD	E.005	<.02	<.034
17	.053	<.02	<.034
MAR			
05	.011	<.02	<.034
APR	200	- 02	- 024
тт Мау	.296	<.02	<.034
15	.022	<.02	<.034
JUN			
11	.302	<.02	<.040
	055	< 02	< 034
SEP	.055	<.0Z	<.034
03	<.005	<.02	<.034
03	.020	<.02	<.034

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 FERIOD 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.

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."

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00051)	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)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3
			(00001)	(00023)	(00501)	(00500)	(00100)	(00055)	(00020)	(00010)	(35000)
NOV											
13	1130	ENVIRONMENTAL	519	773	95	10.9	7.9	607	14.5	9.8	106
12	1150	FNUT PONMENTAL	986	770	96	11 1	7 9	491	123	9.0	95
.TAN	1150	ENVIRONMENTAL	500	//0	30	11.1	7.9	491	12.5	9.0	35
15	1140	ENVIRONMENTAL	1120	762	101	13.3	7.8	558	8.0	3.8	78
FEB											
04	1200	ENVIRONMENTAL	1490	752	108	13.5	7.9	482	5.0	5.4	71
MAR											
07	1130	ENVIRONMENTAL	1230	766	109	13.3	7.8	432	20.2	7.0	72
APR	1050		1550		100	10.0		254	10.0	11 0	
08 MAV	1050	ENVIRONMENTAL	1570	112	109	12.2	7.8	374	12.0	11.0	59
16	1209	FTELD BLANK									
16	1210	ENVIRONMENTAL	4520	755	104	10.3	7.5	266		15.4	53
JUN											
13	1130	ENVIRONMENTAL	1410	756	90	7.3	7.6	389	29.0	25.2	
13	1131	SPLIT REPLICATE									
JUL											
08	1050	ENVIRONMENTAL	648	764	84	6.6	7.8	458	31.0	27.6	81
55P 05	1140	ENIST DONMENTER I	510	761	90	77	7 9	525	27 0	 .	91
0	1140	EIN A TROUMBEN THE	519	101	90		1.0	222	27.0	23.2	01

	BICAR-			NITRO-	NITRO-	NITRO-	NITRO-	ORTHO-		SEDI-	
	BONATE	CHLO-		GEN, AM-	GEN,	GEN,	GEN,	PHOS-		MENT,	
	WATER	RIDE,	SULFATE	MONIA +	AMMONIA	NO2+NO3	NITRITE	PHATE,	PHOS-	DIS-	SEDI-
	DIS IT	DIS-	DIS-	ORGANIC	DIS-	DIS-	DIS-	DIS-	PHORUS	CHARGE,	MENT,
	FIELD	SOLVED	SOLVED	TOTAL	SOLVED	SOLVED	SOLVED	SOLVED	TOTAL	SUS-	SUS-
DATE	MG/L AS	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	PENDED	PENDED
	HCO3	AS CL)	AS SO4)	AS N)	AS N)	AS N)	AS N)	AS P)	AS P)	(T/DAY)	(MG/L)
	(00453)	(00940)	(00945)	(00625)	(00608)	(00631)	(00613)	(00671)	(00665)	(80155)	(80154)
NOV											
13	130	66.5	78.6	.73	.14	4.32	.057	.51	.55	1.4	1.0
DEC											
12	117	49.3	68.4	.59	.12	3.80	.075	.41	.45	96.6	36
JAN											
15	95	83.2	51.4	.68	.18	3.17	.084	.24	.28	9.7	3.2
FEB											
04	87	63.3	48.5	.67	.23	3.78	.122	.26	.31	8.9	2.2
MAR											
07	89	46.7	47.6	.81	.09	2.77	.061	.23	.27	21.9	6.6
APR											
08	72	38.8	44.5	.47	.16	2.97	.052	.22	.25	15.3	3.6
MAY											
16		<.30	<.1	<.10	<.04	<.05	<.008	<.02	<.004		
16	64	19.3	30.9	.68	.12	2.06	.035	.10	.172	255	21
JUN											
13		32.5	48.9	.62	.13	3.10	.065	.27	.31	47.2	12
13											
JUL											
08	98	41.8	56.4	.55	.10	3.31	.055	.33	.37	5.8	3.3
SEP											
05	99	55.2	75.2	.49	.09	3.23	.043	.45	.47	4.3	3.1

Remark codes used in this report:

< -- Less than

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--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 surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	TIME	SAMPLE TYPE	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)	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)
NOV											
13 DEC	1130	ENVIRONMENTAL	<.004	<.002	<.005	.037	<.010	<.041	<.005	<.018	<.003
12 JAN	1150	ENVIRONMENTAL	<.004	<.002	<.005	.035	<.010	<.041	<.005	<.018	<.003
15 FEB	1140	ENVIRONMENTAL	<.006	<.004	<.005	.025	<.010	<.041	<.005	<.018	<.003
04 MAR	1200	ENVIRONMENTAL	<.006	<.004	<.005	.041	<.010	E.006	<.005	<.018	<.003
07 APR	1130	ENVIRONMENTAL	<.006	<.004	<.005	.026	<.010	<.041	<.005	<.018	<.003
08	1050	ENVIRONMENTAL	<.006	<.004	<.005	.021	<.010	E.004	<.005	<.018	<.003
16	1210	ENVIRONMENTAL	.046	.017	<.005	.556	<.010	E.033	E.005	.019	<.003
13	1130	ENVIRONMENTAL	.035	<.015	<.005	.557	<.010	E.008	<.005	<.018	<.003
13 JUL	1131	SPLIT REPLICATE	.034	<.015	<.005	.563	<.010	E.007	<.005	<.018	<.003
08 SEP	1050	ENVIRONMENTAL	.024	<.004	<.005	.341	<.010	<.041	<.005	E.006	<.003
05	1140	ENVIRONMENTAL	<.006	<.004	<.005	.092	<.010	E.007	<.005	<.018	<.003

DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	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)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
NOV													
13 DEC	E.033	<.005	<.002	<.004	<.035	<.027	<.050	E.011	<.006	<.007	<.010	<.01	<.011
12 JAN	E.025	.006	<.002	<.004	<.035	<.027	<.050	.014	<.006	<.007	<.010	.02	<.011
15 FEB	E.020	<.005	<.002	<.004	<.035	<.027	<.050	E.012	<.006	<.007	<.022	E.01	<.011
04 MAR	E.045	<.005	<.002	<.004	<.035	<.027	<.050	.021	<.006	<.007	<.022	.02	<.011
07 APR	E.026	E.004	<.002	<.004	<.035	<.027	<.050	E.012	<.006	<.007	<.022	<.02	<.011
08 MAY	E.013	<.005	<.002	<.004	<.035	<.027	<.050	.014	<.006	<.007	<.022	E.01	<.011
16 ЛЛЛ	E.045	.011	<.002	<.004	<.035	<.027	<.050	.165	<.006	<.007	E.018	.04	<.011
13	E.068	.009	<.002	<.004	<.035	<.027	<.050	.170	<.006	<.007	<.022	.04	<.011
13 ЛЛL	E.061	.009	<.002	<.004	<.035	<.027	<.050	.172	<.006	<.007	<.022	.04	<.011
08 SEP	E.078	E.004	<.002	<.004	<.035	<.027	<.050	.094	<.006	<.007	<.022	.03	<.011
05	E.041	.009	<.002	<.004	<.035	<.027	<.050	.024	<.006	<.007	<.022	.06	<.011

Remark codes used in this report: < -- Less than E -- Estimated value

01474500 SCHUYLKILL RIVER AT PHILADELPHIA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
NOV			
13	.015	E.02	<.034
12	.015	<.02	<.034
JAN	005		
ID FEB	.007	<.02	<.034
04	.015	E.01	<.034
MAR	007	< 02	< 034
APR	.007	~.02	<.034
08	.010	<.02	<.034
MAY 16	042	E 01	< 034
JUN	.012	1.01	
13	.037	E.01	<.034
13	.036	E.01	<.034
08	.052	<.02	<.034
SEP			
05	.026	.02	<.034

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. -- Water year 2001 to August 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
27	1100	3.8	.123	.094	764	91	10.6	7.2	193	12.5	9.0	63	17.0
20	1000	4.4	.072	.056	764	90	11.7	7.3	191	7.5	4.5	65	17.9
JUN		10	220	0.55			c 0		01.2	01 0	10.0	C1	16.4
20 AUG	0900	13	.332	.266	770	71	6.8	7.0	213	21.0	18.0	61	16.4
27	1000	5.0	.158	.123	762	63	5.7	7.2	224	22.5	20.0	72	20.3
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)
NOV													
27	4.98	6.34	8.09	30	19.3	.2	12.2	31.4	134	121	.030	.29	<.030
FEB 20	4.90	4.86	6.64	20	18.5	.2	11.1	34.8	118	118	.100	.25	.090
JUN 20	4.92	11.8	8.30	36	16.5	.2	10.5	22.5	138	120	1.80	3.0	1.90
AUG													
27	5.05	7.60	9.22	38	19.8	.3	13.0	31.2	148	137	.150	.55	.190
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NOV													
27 FEB	.67	<.003	.96	.12	.026		.088	.7	<.1	4.0	.7	3.1	30
20	1.56	.009	1.8	.06	.023	.022	.065	.5	<.1	2.1	.5	E1.6	10
20	.93	.037	3.9	.41	.26	.219	.44	2.8	.5	10.8	2.3	3.9	40
27	1.63	.031	2.2	.38	.08	.083	.19	3.1	<.1	5.1	3.1	<1.0	40

Remark codes used in this report:

< -- Less than E -- Estimated value

424

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 27	2
FEB 20	3
JUN 20	10
27	6

$ \begin{array}{c} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	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)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	FEB 20	1000	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2
FEB 20 <.1	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)
META/ METHYL PARA- O- TETRA- TRI- TRI- ENE XYLENE XYLENE CHLORO- CHLORO- CHLORO- VINYL CHLO- WATER WATER ETHYL- ETHYL- FLUORO- CHLO- RIDE UNFLTRD WHOLE STYRENE ENE TOLUENE ENE METHANE RIDE DATE TOTAL REC TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (UG/L) (34423) (85795) (77135) (77128) (34475) (34010) (39180) (34488) (39175) FEB	FEB 20	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	E.1
FEB		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)		
20 <.2 <.2 <.1 <.1 <.1 <.1 <.1 <.2 <.2		FEE 2	3 20	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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 FLTRD 0.7 U GF, REC (UG/L) (82680)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
JUN 20	0900	<.006	<.004	(34255) E.004	.022	<.010	(82880) E.120	<.005	<.018	<.003	(04040) E.009	.061	<.002

01475090 EDWARDS RUN AT JEFFERSON, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 20	<.004	<.035	<.027	E.043	.055	<.006	<.007	<.022	<.01	<.011	.008	<.02	E.093
					DATE	TRI- FLUR- ALIN WAT FL 0.7 U GF, RE (UG/L) (82661	л СС)						
				J	UN 20	<.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 29	0930	1100	500	220	JUN 05 12 26	0930 0950 1025	500 5000 230	300 1100 100	870 1300 1200

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ

LOCATION.--Lat 39°44'26", long 75°15'34", Gloucester County, Hydrologic Unit 02040202, at bridge on County 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.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE refer to "Quality-Control Data" in the "Introduction." Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, total ammonia + organic nitrogen in bed sediment, total phosphorus in bed sediment, 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 Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR .-- Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 18.

WATER-OUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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	1000	16	7.1	.109	.090	763	76	8.7	7.3	267	12.0	9.5	75
21 MAY	1000	17	4.3	.072	.058	757	88	10.1	7.0	241	16.0	9.0	70
21 AUG	0930	17	5.6	.147	.117	770	74	8.1	7.4	220	14.0	11.5	65
12	1000	4.9	6.2	.108	.084	765	59	5.3	7.4	375	28.5	21.0	85

					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													
20	23.8	3.77	4.61	14.3	56	27.0	.3	12.4	25.0	160	151	.590	.87
FEB													
21	21.7	3.79	3.88	12.7	37	23.5	.2	8.3	30.5	134	134	.370	.59
MAY													
21	19.9	3.68	3.62	11.9	37	20.2	.2	9.3	23.7	139	119	.390	.77
AUG													
12	27.1	4.06	6.21	36.0	74	44.4	.4	13.5	20.0	223	205	2.20	2.6

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
NOV 20 FEB	.560	1.09	.046	2.0	.08	.097		.180	.6	<.1	3.1	.6	2.0
21	.370	1.46	.023	2.0	.11	.057	.033	.116	.7	<.1	2.2	.7	E1.2
MAY 21 AUG	.460	.93	.043	1.7	.04	.084	.071	.140	.7	<.1	3.5	.7	E1.8
12	2.20	1.29	.155	3.9	.02	.21	.213	.34	.2	<.1	3.9	.2	3.4

Remark codes used in this report:

< -- Less than E -- Estimated value

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

			D#	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 2			60	7					
				FEE 2 MAN	1		50	7					
				2	1	.800	50	1					
				1	2	.300	180	3					
DATE	TIME	SAME TYP	PLE PE		PH SED BED MAT (STD UNITS) (70310)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	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 12	0900	FIELD BL	JANK										
12 12	1000 1000	ENVIRONN BED MATE	TENTAL RIAL		6.80	110	10000	2.2	<.2	E2 	46.2	<.06 	159
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			0										
12 12	.05	<.8	<.2 	1.7	830	<.08	<1	40.2	<.01 	<.01	<.06	4	E.3
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													
12 12	<.05	<1 	13										
12				2	.270	33	3.2	3	27000	6.3	140	<.01	4.8
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													
12 12													
12	<1	64	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

01477120 RACCOON CREEK NEAR SWEDESBORO, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
12													
12													
12	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5
			P- CRESOL	PHENAN THRENE 1METHYL	PHENAN THRENE	PHENAN- THRI- DINE	PYRENE, 1- METHYL,	PYRENE,	BED MAT. FALL	BED MAT. SIEVE			

	SED, BM	DIAM.	DIAM.					
	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	WS,<2MM	% FINER	% FINER
DATE	DW, REC	THAN	THAN					
	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	(UG/KG)	.004 MM	.062 MM
	(49451)	(49410)	(49409)	(49393)	(49388)	(49387)	(80157)	(80164)
AUG								
12								
12								
12	<50	<50	<50	<50	<50	<50	.3	.8

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				
29	0955	40	100	100	12	1005	110	100	220
JUN					19	1020	16000	4700	1700
05	0940	500	200	120	19	1035	300	100	170
					26	1040	110	<100	210

Remark codes used in this report: < -- Less than

429

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.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION .-- Determination of dissolved ammonia, total ammonia, dissolved nitrite, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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										0.57			~ ~
II	1240	7.7	9.6	.137	.106	767	97	11.4	7.3	267	10.5	8.5	91
14 JUN	1340	5.8	12	.124	.096	770	105	13.4	6.9	283	4.5	5.5	93
12 AUG	0940	3.3	21	.323	.251	757	94	7.6	7.4	255	27.0	26.0	86
26	1050	.85	40	.282	.207	762	101	8.1	7.5	293	28.5	26.5	99

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 UNFLIRD 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													
11	19.5	10.4	6.19	7.90	44	26.7	E.1	2.7	34.6	168	140	.130	.60
FEB													
14	20.0	10.4	6.13	10.1	32	29.2	E.1	3.6	42.4	158	153	.180	.68
JUN													
12	19.2	9.13	8.01	8.34	48	24.1	.1	3.7	26.2	156	129	.120	.98
AUG													
26	24.6	9.16	8.26	10.6	60	31.8	.2	1.8	23.6	148	147	.258	1.3

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)
DEC 11 FEB	.150	1.13	.035	1.7	.24	.032		.118	1.5	<.1	4.0	1.5	2.5
14 JUN 12	.200	2.64	.060	3.3	.23	.029	<.020	.114	1.6	.1	4.3 9.1	1.5	3.7
AUG 26	.257	.08	.015	1.3	1.40	.049	<.020	.32	7.5	<.1	11.3	7.5	4.5

Remark codes used in this report:

< -- Less than E -- Estimated value

430

01482500 SALEM RIVER AT WOODSTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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)
DEC		20	-
		20	7
14		20	12
12	121	30	33
AUG 26	171	30	32

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				
05	1000	40	<100	70	02	0900	80	400	240
12	1000	110	200	70					
19	1015	500	900	150					
26	1030	270	<100	90					

01482530 MAJOR RUN AT SHARPTOWN, NJ

LOCATION.--Lat 39°38'56", 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. -- Water year 2001 to September 2002.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

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, dissolved orthophosphate, biochemical oxygen demand, total suspended solids, fecal coliform, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Senior Serivces, 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 YEAR OCTOBER 2001 TO SEPTEMBER 2002

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													
29 FEB	0800	17	.122	.090	765	53	5.5	7.4	463	12.0	13.5	160	55.6
21	0800	19	.120	.106	755	43	4.8	7.0	350	10.0	10.0	100	35.5
MAY 29	0715	10	.151	.113	764	45	4.0	7.4	459		21.5	120	42.8
SEP	0,20		1202										
05	0900	21	.170	.130	765	59	5.2	7.3	507	23.0	21.5	130	44.9
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)
NOV													
29	4.41	6.53	24.1	118	54.8	.3	14.2	25.8	278	257	.040	.40	.060
21 MAY	2.97	3.90	16.1	65	36.2	.4	15.6	24.0	188	177	.210	.35	.230
29	3.64	5.71	38.8	95	67.0	.3	8.7	18.6	262	245	.270	.84	.260
05	4.35	7.28	44.0	53	78.2	.3	6.2	62.9	309	281	.072	.49	.068
DATE	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,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, 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)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
NOV													
29 FEB	.12	<.003	.51	.21	.018		.128	1.3	<.1	5.5	1.3	3.1	
21 MAY	.81	.010	1.2	.12	.018	<.020	.29	.9	<.1	2.0	.8	<1.0	
29 SEP	.36	.039	1.2	.33	.055	<.020	.175	1.9	<.1	5.6	1.9	2.8	33.3
05	.25	.003	.74	.80	.053	.033	.28	4.7	<.1	6.0	4.7	3.9	92.0

Remark codes used in this report: < -- Less than

432

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
NOV 29 FEB 21 MAY 29 SEP 05	20 20 20 40	7 18 13 24

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	0800	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.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, UNFLIRD RECOVER (UG/L) (81577)	ETHER ETHYL WATER UNFLIRD 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	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2	<.1	<.1	<.2
	DA	NTE	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 21	<.2	<.2	<.1	<.1	<.1	<.1	<.1	<.2	<.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 surface-water 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)	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)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
MAY 29	0715	.007	<.004	<.005	1.36	<.010	<.041	.007	E.012	<.003	E.110	<.005	<.002

01482530 MAJOR RUN AT SHARPTOWN, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		LIN-	METHYL			NAPROP-	PENDI-		PRO-		TEBU-	TER-	TRI-
		URON WATER	AZIN- PHOS	METO-	METRI- BUZIN	AMIDE WATER	METH- ALIN	PRO- METON,	PANIL WATER	SI- MAZINE,	THIURON WATER	BACIL WATER	FLUR- ALIN
	LINDANE	FLTRD	WAT FLT	LACHLOR	SENCOR	FLTRD	WAT FLT	WATER,	FLTRD	WATER,	FLTRD	FLTRD	WAT FLT
	DIS-	0.7 U	0.7 U	WATER	WATER	0.7 U	0.7 U	DISS,	0.7 U	DISS,	0.7 U	0.7 U	0.7 U
DATE	SOLVED	GF, REC	GF, REC	DISSOLV	DISSOLV	GF, REC	GF, REC	REC	GF, REC	REC	GF, REC	GF, REC	GF, 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)
	(39341)	(82666)	(82686)	(39415)	(82630)	(82684)	(82683)	(04037)	(82679)	(04035)	(82670)	(82665)	(82661)
MAY													
29	<.004	<.035	<.050	1.80	<.006	<.007	<.022	E.01	<.011	.029	<.02	<.034	<.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				
05	0915	3000	1500	390	02	0815	2200	1700	1200
12	0930	1300	1100	1100					
19	0930	1400	800	520					
26	0915	>16000	1400	3000					

Remark codes used in this report: < -- Less than > -- Greater than E -- Estimated value



Figure 40. Location of sites in the Ambient Ground-Water-Quality Network, water year 2002.

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 9

STATION IDENTIFICATION NUMBER	NJ-WRI WELL NUMBEF		LOCAL ENTIFIER		LATITU (NAD19	DE LO 983) (N	NGITUDE AD1983)	ALTITU OF LAN SURFAC (NGVD19 (FT.)	DE D E DI 29) OF (I	EPTH WELL ?T.)	SCR INTE (F	EEN RVAL T.)	AQU: UI	IFER NIT
401606074183501	250804	1 NJ	DEP MW117		401606	5.1 07	41835.0	135	39	9.3	34.3	- 39.3	2111	RDBK
Aquifer units: 211RDBK - Red Ban	nk Sand													
			WATER-QUA	LITY DATA	, WATER Y	EAR OCT	OBER 2003	. TO SEP	TEMBER 20	002				
Loc: ident i- fier	al t-	Sta	tion num	ber Da	te 1	O T Cime	PUMP R FLOW PERIOD PRIOR O SAM- PLING U (MIN) 72004)	TUR- BID- ITY FIELD WATER INFLTRD (NTU) (61028)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEI DIS SOLVI (PER CEN SATUI ATIOI (0030)	N, ED - OXY I D R- SC N) (M 1) (00	W GEN, F DIS- (S DIS- (S DLVED G/L) U (300) (C	PH IATER IHOLE TIELD STAND- ARD INITS) 00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
NJDEP MW117		4016	060741835	01 09-2	6-02 1	.010	40	10	765	12	1	3	7.5	355
:	Local ident- i- fier	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- SOLVE (MG/L AS MG (00925	- POTAS , SIU DIS- D SOLVI (MG/I) AS K) (0093	5- 1, SODI ED SOLV L (MG 0 AS 5) (009	ALH LINI UM, WAT - TOT ED FIH /L MG/I NA) CAG 30) (390	CA- B ITY B DIS T IT D ELD 1 CAS M CO3 1 086) (1	ICAR- DNATE WATER IS IT FIELD G/L AS HCO3 D0453)	CHLO- RIDE, DIS- SOLVEI (MG/L AS CL) (00940)	FLUC RIDI DI: SOLV (MG, AS 1 (009)	D- E, VED /L F) 50)
NJDEP MW117		09-26-02	14.0	150	57.2	1.92	1.72	8.3	6 73	3	88	9.84	.19	9
	Local ident- i- fier	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- SOLVE (MG/L (70301	, NITRO GEN - AMMONI , DIS SOLVI D (MG/1) AS N) (00608	O- NIT GEN, IA MONI - ORGA ED DIS L (MG AS 3) (006	RO- NIT AM- GH A + NO2- NIC DI . SOI ./L (MC N) AS 23) (006)	ERO- 1 EN, HNO3 N: ES- EVED S S/L N) 2 531) ((NITRO- GEN, ITRITE DIS- SOLVED (MG/L AS N) D0613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	CARBO ORGAI DIS SOLVI (MG AS (006)	DN, NIC ED /L E1) 81)
NJDEP MW117		09-26-02	6.8	83.2	222	214	<.04	.7	1 E.()2 ·	<.008	.06	.8	
	Local ident- i- fier	Date	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM DIS- SOLVED (UG/L AS BA (01005	BERYI , LIUM, DIS- SOLVI (UG/I) AS BI) (01010	BOR DI ED SOL C (UG E) AS D) (010	ON, CADA S- DI VED SOI J/L (UC B) AS 20) (010	(110M 1 15- 1 2VED 2 3/L CD) 2 025) (1	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) D1030)	COPPER, DIS- SOLVEI (UG/L AS CU) (01040)	IROI DI: SOL ¹ (UG, AS 1 (0104	N, 5- VED /L FE) 46)
NJDEP MW117		09-26-02	3	.12	1.8	19	<.06	16)4	<.8	.8	89	9
:	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)	NICKEL DIS- SOLVE (UG/L AS NI (01065	SELE- , NIUM, DIS- D SOLVI (UG/I) AS SI) (0114	- SILV - DI ED SOL L (UG E) AS 5) (010	TH2 ER, LIU S- DIS WED SOLM /L (UC AG) AS 7 75) (010	AL- M, 2 JED 9 J/L 9 TL) 1 057) (0	ZINC, DIS- SOLVED (UG/L AS ZN) 01090)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-1 CHLOI ETHAI TOTZ (UG/1 (344)	DI- RO- NE AL L) 96)
NJDEP MW117		09-26-02	<.08	79.8	<.01	1.02	<.3	<1	<.()4	3	<.1	<.:	1
:	Local ident- i- fier	Date	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	BENZEN - 1,3-D - CHLORG - WATEN UNFLTI REC (UG/L) (34566	NE BENZ 1- 1,4- 0- CHLC R WAT RD UNFL RE 0 (UG/ 5) (345	ENE BENZ DI- O-I RO- CHLC ER WAT TRD UNFI C RI L) (UG, 71) (345	ZENE DI- DRO- TER ZTRD BJ SC (1 536) (1	ENZENE IOTAL JG/L) 34030)	BROMO- FORM TOTAL (UG/L) (32104)	CARBO TETI CHLO RIDI TOTI (UG (321)	DN RA- D- E AL /L) D2)
NJDEP MW117		09-26-02	<.1	<.2	<.1	<.1	<.1	<.	1 <.	.1	<.1	<.2	<.:	2

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Local ident- i- fier	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)
NJDEP MW11	7	09-26-02	<.1	<.2	<.1	<.1	<.1	<.2	<.2	<.2	<.1	<.2
	Local ident- i- fier	Date	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLIRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
NJDEP MW11	7	09-26-02	<.1	<.1	<.2	<.2	<.2	<.1	<.1	<.1	<.1	<.1
	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)	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)
NJDEP MW11	7	09-26-02	<.2	<.2	1.0	1	1.5	4	<.006	<.006	<.004	<.005
	Local ident- i- fier	Date	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLITRD 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 FLIRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
NJDEP MW11	7	09-26-02	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
	Local ident- i- fier	Date	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLIRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLIRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLIRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	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)
NJDEP MW11	7	09-26-02	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050
NTDED NOT	Local ident- i- fier	Date	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 FLTRD 0.7 U GF, REC (UG/L) (82684)	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 GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
NJDEP MW11	1	09-26-02	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	PHORATE WATER FLIRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLIRD 0.7 U GF, REC (UG/L) (82685)	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)	TER- BUFOS WATER FLIRD 0.7 U GF, REC (UG/L) (82675)
NJDEP MW117	09-26-02	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02
				Local ident- i- fier	Date	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)				
		N	IJDEP MW11	7	09-26-02	<.005	<.002				

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 11

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE (NAD1983)	LONGITUDE (NAD1983)	ALTITUDE OF LAND SURFACE (NGVD1929) (FT.)	DEPTH OF WELL (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
401942074510101	210608	NJDEP MW76	401942	0745101	218	35	25 - 35	231LCKG

Aquifer units: 231LCKG - Lockatong Formation

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Station number	Date	Time	Sample type	Medium code	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 MW76	401942074510101	05-20-02 05-20-02 05-20-02 05-23-02	1400 1405 1410 1020	STANDPIPI PUMP BLAI EQUIPMEN ENVIRONM	E BLANK VK F BLANK ENTAL	 .25	 50	 1.6	 764	 4

	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 MW76		05-20-02						E.01				
		05-20-02						.03				
		05-20-02						.05	<.008		<.09	
		05-23-02	.4	7.9	466	14.0	200	59.7	12.6	9.95	16.1	146

	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 MW76		05-20-02										

05-20-02										
05-20-02				<.13						
05-23-02	178	12.6	.18	14.7	74.0	307	292	<.04	E.06	1.02

	Local ident- i- fier	Date	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, 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)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
NJDEP MW76		05-20-02 05-20-02 05-20-02 05-23-02	 .460	 E.01	 .5	 <1 8	 <.05 5.25	 <.2 4.0	 <1 16	 <.06 <.06	 <7 36	<.04 .20 .07 .09
	Local ident- i- fier	Date	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	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)	THAL- LIUM, DIS- SOLVED (UG/L AS TL) (01057)
NJDEP MW76		05-20-02 05-20-02 05-20-02 05-23-02	 <.8 <.8	 <.2 16.8	 <10 <10	<.08 .21 .13 #.17	<.1 <.1 .1 49.8	 <.01 <.01	.08 .43 .07 <.06	 <.3 1.6	 <1 <1	 <.04 .34

Remark codes used in this report: < -- Less than E -- Estimated value # -- Value unreliable because equipment blank equals 0.13

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Local ident- i- fier	Date	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)	BENZENE O-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
NJDEP MW76		05-20-02										
		05-20-02										
		05-20-02 05-23-02	4 4	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1
	Local ident- i- fier	Date	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)	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)
NJDEP MW76		05-20-02										
		05-20-02										
		05-20-02 05-23-02	<.1	<.2	<.2	<.1	<.2	<.1	<.1	<.1	<.2	<.2
	Local ident- i- fier	Date	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLIRD RECOVER (UG/L) (50005)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FREON- 113 WATER UNFLIRD 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 UNFLIRD REC (UG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (UG/L) (77135)	STYRENE TOTAL (UG/L) (77128)
NJDEP MW76		05-20-02										
		05-20-02										
		05-20-02 05-23-02	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.1	<.1
	Local ident- i- fier	Date	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)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
NJDEP MW76		05-20-02										
		05-20-02										
		05-20-02 05-23-02	<.1	<.1	<.1	<.2	<.2	4.3	9	4.1	10	<.006
	Local ident- i- fier	Date	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)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)
NJDEP MW76		05-20-02 05-20-02 05-20-02 05-23-02	 <.006	 <.004	 <.005	 <.007	 <.010	 <.002	 <.041	 <.020	 <.005	 <.018

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Local ident- i- fier	Date	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)	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)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)
NJDEP MW76		05-20-02										
		05-20-02 05-23-02	<.003	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004
	Local ident- i- fier	Date	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)	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 FLIRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
NJDEP MW76		05-20-02 05-20-02 05-20-02										
	Local ident- i- fier	Date	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 FLIRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLIRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLIRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLIRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
NJDEP MW76		05-20-02 05-20-02 05-20-02 05-23-02	 <.004	 <.022	 <.006	 <.011	 <.01	 <.004	 <.010	 <.011	 <.02	 <.005
		Lo ide i fi	cal nt- - er Da	TH THJ WZ FI 0. .te GF, (UC (82	EBU- 2 CURON BA ATER WA ATER WA ATER WA ATER WA ATER WA REC GF (12) (12) (12) (12) (12) (12) (12) (12)	TER- 1 ACIL BU ATER W2 LTRD FI .7 U .7 C .7 U .7 U	TER- TH JFOS BEN ATER WA LTRD FI .7 U 0., REC GF, 3/L) (UC 2675) (82	HIO- TF NCARB LA ATER WA LTRD FI .7 U 0., REC GF, S/L) (UC 2681) (82	RIAL- ATE ATER JTRD 7 U REC 3/L) 2678)			
	NJDE	P MW76	05-2 05-2 05-2 05-2	20-02 20-02 20-02 2 3-02	 3.02 <	 .034	 <.02 <.	 .005 <.	 002			

AMBIENT GROUND-WATER-QUALITY NETWORK

WATERSHED MANAGEMENT AREA 20

STATION IDENTIFICATION NUMBER 400811074414101	NJ-WR WELL NUMBE 051505	D R ID NJ	LOCAL ENTIFIER DEP MW121		LATITU (NAD19 40081	DE LONG 183) (NAD 1 074	HTUDE 01983)	ALTITUDE OF LAND SURFACE (NGVD1929) (FT.) 74	DEPTH OF WEI (FT.) 53.8	H SC L INT) (1	REEN ERVAL FT.) - 53.8	AQUIFER UNIT 211EGLS	
Aquifer units: 211EGLS - Englis	shtown F	ormation											
Loo iden i fio	cal ht- - er	Sta	WATER-QUA	LITY DATA	te I	EAR OCTOE Sa 'ime t	mple) Ype	TO SEPTEME Medium FI code RA (C (OC	3ER 2002 OF I LOW TC LTE I 3/M) (0059) (7	PUMP R FLOW PERIOD PRIOR F D SAM- W PLING UN (MIN) (1 72004) (6	TUR- B BID- M ITY P IELD ATER FLTRD NTU) 1028) (0	ARO- PH ETRIC WATE RES- WHOL SURE FIEL (MM (STAN OF ARD HG) UNIT 0025) (0040	REDD) S)
NJDEP MW12	L	4008	110744141	.01 09-2 09-2	26-02 1 26-02 1	.629 AME .630 ENV	BIENT BL.	ank Fal	 •25	130	 13	765 6.3	
	Local ident- i- fier	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- SOLVE (MG/L AS K) (00935	- , SODIUM, DIS- D SOLVED (MG/L AS NA)) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE 5 WATER DIS IT FIELD 5 MG/L AS HCO3 0 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	
NJDEP MW12:	L	09-26-02 09-26-02	 15.5	 49	 14.2	 3.37	2.35	 8.02	 66	 81	 6.03	.12	
	Local ident- i- fier	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO GEN,AM MONIA ORGANI DIS. (MG/L AS N) (00623	- NITRO- - GEN, + NO2+NO3 C DIS- SOLVED (MG/L AS N)) (00631)	NITRO- GEN, NITRITH DIS- SOLVEI (MG/L AS N) (00613)	- ORTHO- PHOS- E PHATE, DIS- O SOLVED (MG/L AS P) 0 (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	
NJDEP MW12	L	09-26-02 09-26-02	 16.5	 14.3	 118	<.04	<.10	.33	.057	.02	1.0	 2	
	Local ident- i- fier	Date	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- SOLVE (UG/L AS B) (01020	, CADMIUM DIS- D SOLVED (UG/L AS CD)) (01025)	CHRO- MIUM, DIS- SOLVEI (UG/L AS CR) (01030)	COPPER, DIS- D SOLVED (UG/L) AS CU)) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	
NJDEP MW12:	L	09-26-02 09-26-02	 .12	.9	 49	 <.06	 14	.07	 <.8	.6	 15800	 <.08	
	Local ident- i- fier	Date	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- SOLVE (UG/L AS AG (01075	THAL- , LIUM, DIS- D SOLVED (UG/L) AS TL)) (01057)	ZINC, DIS- SOLVEI (UG/L AS ZN) (01090)	1,1,1- TRI- CHLORO- D ETHANE TOTAL) (UG/L)) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	
NJDEP MW12	L	09-26-02 09-26-02	 183	 <.01	 3.55	 <.3	<1	 <.04	 16	<.1 <.1	<.1 <.1	<.1 <.1	

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	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 UNFLIRD 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)
NJDEP MW121	09-26-02 09-26-02	<.2 <.2	<.1 <.1	<.1 <.1	<.1 <.1	<.1 <.1	<.1 <.1	<.1 <.1	<.2 <.2	<.2 <.2	<.1 <.1
Local ident- i- fier	Date	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)
NJDEP MW121	09-26-02 09-26-02	<.2 <.2	<.1 <.1	<.1 <.1	<.1 <.1	<.2 <.2	<.2 <.2	<.2 <.2	<.1 <.1	<.2 <.2	<.1 <.1
Local ident- i- fier	Date	FREON- 113 WATER UNFLIRD 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 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)
NJDEP MW121	09-26-02 09-26-02	<.1 <.1	<.2 •5	<.2 <.2	<.2 <.2	<.1 <.1	<.1 <.1	<.1 <.1	<.1 <.1	<.1 <.1	<.2 <.2
Local ident- i- fier	Date	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)	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)
NJDEP MW121	09-26-02 09-26-02	<.2 <.2	 .61	.824	 1.2	 3	 <.006	 <.006	 <.004	 <.005	 <.007
Local ident- i- fier	Date	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
NJDEP MW121	09-26-02 09-26-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	 <.005	<.005
Local ident- i- fier	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)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
NJDEP MW121	09-26-02 09-26-02	 <.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006

AMBIENT GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Loc iden i- fie	al ht- br Date	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)	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)
NJDEP MW121	09-26-02 09-26-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011
Loc idem i- fie	al t- r Date	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	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- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)
NJDEP MW121	09-26-02 09-26-02	 <.01	<.004	<.010	<.011	 <.02	<.005	 <.02	<.034	 <.02	<.005
		NJDEF	Lo ide i fi fi	cal nt- - er Da 09-2 09-2	TF LA WA FI 0. (UG (82 26-02 <.	ETAL- TTE TTER TTR 7 U REC 2/L) 6678)					



Figure 41. Location of sites in the Long Island-New Jersey National Water-Quality Assessment Program, ground-water low-intensity-phase synoptic study, water year 2002.

LINJ NAWQA GROUND-WATER-QUALITY NETWORK

STATION IDENTIFICATION NUMBER	NJ-WRD WELL NUMBER	LOCAL IDENTIFIER	LATITUDE (NAD1983)	LONGITUDE (NAD1983)	ALTITUDE OF LAND SURFACE (NGVD1929) (FT.)	DEPTH OF WELL (FT.)	SCREEN INTERVAL (FT.)	AQUIFER UNIT
394342075040301	151210	USGS NU02	394342.6	0750400.6	142	19.5	17.5 - 19.5	121CKKD
394340075012701	151220	USGS NU08	394338.9	0750126.3	155	30.5	28.5 - 30.5	121CKKD
394604075003601	070836	USGS NU11	394604.5	0750033.5	165	37	30 - 37	121CKKD
394233074574401	070843	USGS NU16	394232.4	0745742.4	125	22	20 - 22	121CKKD
394446075031001	151258	USGS NU29	394442.9	0750307.4	120	19	17 - 19	121CKKD
392558075051901	110925	USGS UND02	392544.9	0750507.7	50	26	24 - 26	121CKKD
393940074534201	070842	USGS UND09	393939.3	0745341.5	100	14	12 - 14	121CKKD
394939074414701	051420	SUSCP11 AGEMIAN DOM	394939.4	0744142.2	95	102	92 - 102	121CKKD
395618074223501	291276	SUSCP13 PENA DOM	395619.3	0742231.6	165	118	108 - 118	121CKKD
393050074412501	011282	SUSCP22 GRIECO DOM	393050.5	0744123.9	60	104	94 - 104	121CKKD
390643074522501	090499	SUSCP23 MATTHEWS DOM	390643.0	0745225.2	10	38	33 - 38	121CKKD
392820075144301	111017	SUSCP24 ERIANNE DOM	392820.2	0751441.2	80	68	58 - 68	121CKKD

Aquifer unit: 121CKKD - Kirkwood-Cohansey

REMARKS.--Samples were analyzed for volatile organic compounds (VOCs) with laboratory schedule 2020 and pesticides with schedule 2001 (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 definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Quality-Control Data" in the "Introduction".

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

PH

Local ident- i- fier	Station number	Date	Time	Sample Type	TURBID- ITY (SEVER- ITY) (01350)	OXYGEN, DIS- SOLVED (MG/L) (00300)	WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)
		GI	OUCESTER	R COUNTY					
USGS NU02	394342075040301	06-27-02 06-27-02	1658 1659	EQUIPMENT BLANK SOURCE SOLUTION	 BLANK				
USGS NU08	394340075012701	07-01-02	1500	ENVIRONMENTAL		7.5	4.6	56	16.6
			CAMDEN (COUNTY					
USGS NU11	394604075003601	07-11-02	1000	ENVIRONMENTAL		9.0	5.2	135	15.4
		07-11-02	1001	SEQUENTIAL REPLI	CATE				
		07-11-02	1002	SPLIT SPIKE					
		07-11-02	1003	CONCURRENT SPIKE					
		07-11-02	1005	FIELD BLANK					
USGS NU16	394233074574401	07-01-02	1800	ENVIRONMENTAL			5.4	201	
		GI	OUCESTER	R COUNTY					
USGS NU29	394446075031001	07-15-02	1300	ENVIRONMENTAL		.3	6.1	102	18.2
		CU	MBERLANI	COUNTY					
USGS UND02	392558075051901	07-10-02	1800	ENVIRONMENTAL		.2	5.6	51	14.0
			CAMDEN (COUNTY					
USGS UND09	393940074534201	07-09-02	1300	ENVIRONMENTAL		1.3	4.5	51	15.5
		BU	TRLINGTON	1 COUNTY					
SUSCP11 AGEMIAN DOM	394939074414701	08-06-02	1500	ENVIRONMENTAL	<1	4.2	5.4	309	13.3
			OCEAN (COUNTY					
SUSCP13 PENA DOM	395618074223501	08-06-02	1200	ENVIRONMENTAL	<1	1.1	4.8	31	13.5
		A	TLANTIC	COUNTY					
SUSCP22 GRIECO DOM	393050074412501	07-18-02	1300	ENVIRONMENTAL	1	6.6	4.7	92	13.4
		07-18-02	1305	FIELD BLANK					
		07-18-02	1307	SEQUENTIAL REPLI	CATE				
		c	APE MAY	COUNTY					
SUSCP23 MATTHEWS DOM	390643074522501	08-07-02	1000	ENVIRONMENTAL	<1	3.0		345	13.5
		CU	IMBERLANI	COUNTY					
SUSCO24 FOTAMME DOM	392820075144201	08-08-02	0910	FNUTRONMENTAT					
DUDGE 27 EXTAINE DOM	3720200/3144301	08-08-02	1000	ENVIRONMENTAL	<1	.4	5.9	217	15.7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Local ident- i- fier	Date	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	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)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
					G	LOUCESTER	COUNTY					
USGS	NU02	06-27-02 06-27-02										
USGS	NU08	07-01-02 07-11-02	6.81 .12	2.15 .911	2.57 .60	15.0 5.81	1 1	<.03 <.03	19.5 9.31	<.10 <.10	4.40 6.15	21.5 E.1
						CAMDEN C	OUNTY					
USGS	NU11	07-11-02 07-11-02 07-11-02 07-11-02 07-11-02	6.68 6.75 E.01	1.93 1.95 <.008	3.17 3.44 <.10	10.5 10.6 E.06	8 	E.02 E.03 <.03	18.0 17.6 <.30	<.10 <.10 <.10	5.61 5.63 <.13	11.7 11.7 <.1
USGS	NU16	07-01-02	13.3	4.36	2.75	12.1	10	E.03	27.4	<.10	3.14	18.2
					G	LOUCESTER	COUNTY					
USGS	NU29	07-15-02	5.37	1.33	1.90	12.3	30	<.03	4.62	<.10	2.70	7.0
					c	UMBERLAND	COUNTY					
USGS	UND02	07-10-02	.68	.523	.41	1.78	10	.12	3.32	<.10	5.31	7.2
						CAMDEN C	OUNTY					
USGS	UND09	07-09-02	.23	.242	.19	1.69		<.03	3.32	E.07	4.57	15.1
					В	URLINGTON	COUNTY					
SUSCE	11 AGEMIAN DO	08-06-02	34.0	6.98	5.68	3.49	8	.04	20.2	<.10	7.05	43.2
						OCEAN C	OUNTY					
SUSCF	13 PENA DOM	08-06-02	.50	.518	.35	2.68	2	.04	5.57	<.10	5.17	1.1
						ATLANTIC	COUNTY					
SUSCE	22 GRIECO DOM	07-18-02 07-18-02 07-18-02	3.55 	1.77 	•74 	7.63 	2 	.12 	20.0	<.10 	7.49 	1.2
						CAPE MAY	COUNTY					
SUSCE	23 MATTHEWS D	08-07-02	28.8	3.47	5.05	23.0	32	.06	41.3	<.10	12.0	29.6
					c	UMBERLAND	COUNTY					
SUSCE	24 ERIANNE DO	08-08-02 08-08-02	.03 6.79	E.005 6.09	.94 6.67	66.2 19.9	 26	.03 .07	21.1 34.1	<.10 <.10	5.11 5.29	10.1 11.3

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	Local ident- i- fier	Date	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 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) (00613)	ORTHO- PHOS- PHATE, 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)
					G	LOUCESTER	COUNTY					
USGS NU02		06-27-02 06-27-02		<.04 <.04	<.10 <.10	<.05 <.05	<.008 <.008	<.02 <.02		<1 <1	<.05 <.05	<.2 <.2
USGS NU08		07-11-02	29	<.04	<.10	.85	<.008	<.02	.5		E.02	E.I
						CAMDEN C	OUNTY					
USGS NU11		07-11-02 07-11-02 07-11-02 07-11-02 07-11-02	78 76 <10	<.04 <.04 <.04	E.06 <.10 <.10	3.01 3.02 <.05	<.008 <.008 <.008	<.02 <.02 <.02	•4 .5 <.3	18 <1	<.05 <.05 <.05	E.1 <.2 <.2
USGS NU16		07-01-02	98	<.04	E.05	1.11	<.008	<.02	.8	19	<.05	<.2
					G	LOUCESTER	COUNTY					
USGS NU29		07-15-02	46	.13	.34	.05	<.008	E.01	5.7	73	.20	1.2
					С	UMBERLAND	COUNTY					
USGS UND02		07-10-02	30	.08	.11	.06	<.008	.03	2.3	61	E.03	.7
						CAMDEN C	OUNTY					
USGS UND09		07-09-02	21	<.04	<.10	<.05	<.008	<.02	1.0	1550	E.03	<.2
					B	URLINGTON	COUNTY					
SUSCP11 AGE	MIAN DO	08-06-02	236	<.04	E.07	13.3	<.008	<.02		1	<.05	E.1
						OCEAN C	OUNTY					
SUSCP13 PEN	ia dom	08-06-02	16	<.04	<.10	<.05	<.008	<.02		47	<.05	<.2
						ATLANTIC	COUNTY					
SUSCP22 GRI	ECO DOM	07-18-02 07-18-02	49 	<.04	<.10	.70	<.008	<.02	<.3 	62 	<.05 	< .2
		07-18-02										
						CAPE MAY	COUNTY					
SUSCP23 MAT	THEWS D	08-07-02	224	.49	.57	7.04	.011	<.02		42	<.05	E.1
					c	UMBERLAND	COUNTY					
SUSCP24 ERI	ANNE DO	08-08-02 08-08-02	184 128	 .12	 .20	 2.97	<.008	 <.02		 <1	 E.02	.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

ı ic 1	local lent- i- Eier	Date	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)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)
					G	LOUCESTER	COUNTY					
USGS NU02		06-27-02 06-27-02	<1 <1	<.06 <.06	<7 <7	<.04 <.04	<.8 <.8	<.02 <.02	E.2 E.2		<.08 <.08	<.3 <.3
USGS NU08		07-11-02				E.03				<10		
						CAMDEN C	OUNTY					
USGS NU11		07-11-02 07-11-02 07-11-02 07-11-02	17 17 	<.06 E.04 	37 39 	<.04 <.04 	<.8 <.8 	.18 .18 	E.2 E.2	<10 <i>E6</i> 	<.08 <.08 	<.3 <.3
		07-11-02	<1	<.06	<7	<.04	<.8	<.02	E.1	<10	<.08	E.2
USGS NU16		07-01-02	62	<.06	19	.08	<.8	.74	.4	<10	<.08	E.3
					G	LOUCESTER	COUNTY					
USGS NU29		07-15-02	27	<.06	60	<.04	2.2	.08	1.4	1150	E.05	<.3
					c	UMBERLAND	COUNTY					
USGS UND02		07-10-02	3	<.06	15	<.04	<.8	.16	<.2	7500	E.04	<.3
						CAMDEN C	OUNTY					
USGS UND09		07-09-02	43	.19	16	.17	E.4	1.41	1.1	<10	.09	E.2
					B	URLINGTON	COUNTY					
SUSCP11 AGEM	lan do	08-06-02	36	<.06	17	<.04	<.8	.09	3.0	<10	.23	E.3
						OCEAN C	OUNTY					
SUSCP13 PENA	DOM	08-06-02	9	<.06	8	<.04	<.8	.60	2.6	<10	.20	E.3
						ATLANTIC	COUNTY					
SUSCP22 GRIE	CO DOM	07-18-02 07-18-02	47 	<.06	E6	.07	<.8 	.53	2.6	22 	.54	.5
		07-18-02										
						CAPE MAY	COUNTY					
SUSCP23 MATTH	HEWS D	08-07-02	48	.10	38	.21	<.8	.91	.9	24	<.08	2.1
					С	UMBERLAND	COUNTY					
SUSCP24 ERIAN	INE DO	08-08-02 08-08-02	 29	 <.06	 37	 <.04	 <.8	 .18	 .5	<10 745	 <.08	 <.3

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

] ic	Local lent- i- fier	Date	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	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)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	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)
					G	LOUCESTER	COUNTY					
			_					_				
USGS NU02		06-27-02	.3			<.2	.12	<.3	<.08	<.04	<.2	<1
		06-27-02	.1			<.2	<.06	<.3	<.08	<.04	<.2	<1
USGS NU08		07-11-02	E1.8						21.0			
						CAMDEN C	OUNTY					
			_									
USGS NU11		07-11-02	7.2			<.2	.50	1.7	34.6	<.04	<.2	1
		07-11-02	7.2			<.2	.39	1.5	33.9	<.04	<.2	1
		07-11-02										
		07-11-02										
		07-11-02	E.1			E.1	.11	<.3	<.08	<.04	<.2	<1
USGS NU16		07-01-02	36.0			E.1	.84	E.3	51.7	<.04	E.1	<1
					G	LOUCESTER	COUNTY					
USGS NU29		07-15-02	20.8			2.2	.53	.5	31.4	<.04	3.2	<1
					c	UMBERLAND	COUNTY					
USGS UND02		07-10-02	44.9			<.2	.12	<.3	6.78	.04	.8	1
						CAMDEN C	OUNTY					
USGS UND09		07-09-02	14.0			<.2	2.64	E.2	4.25	<.04	.3	17
					в	URLINGTON	COUNTY					
SUSCP11 AGEM	IAN DO	08-06-02	3.6			<.2	.30	3.7	128	E.04	<.2	<1
						OCEAN C	OUNTY					
SUSCP13 PENA	DOM	08-06-02	8.2	.95	.85	<.2	.58	<.3	4.08	<.04	<.2	2
						ATLANTIC	COUNTY					
		07 10 00	2 6			-	1 20		21 0	T 02		4
SUSCPZZ GRIE	CO DOM	07-18-02	3.0			.5	1.38	<.3	21.0	E.03	E.I	4
		07-18-02										
						CAPE MAY	COUNTY					
aua ap 0.2 v	-		64.0				1.04		1.00	05		•
SUSCP23 MATT	HEWS D	08-07-02	64.8			<.2	1.04	<.3	T02	.05	<.2	2
					C	UMBERLAND	COUNTY					
SUSCP24 ERIA	NNE DO	08-08-02	<2.0									
		08-08-02	28.5			<.2	.49	<.3	45.6	.05	E.1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
				G	LOUCESTER	COUNTY					
USGS NU02	06-27-02 06-27-02 07-01-02	 <.004	 E.004	 <.041	 E.004	 <.005	 <.013	 <.007	 <.01	 .009	 <.009
USGS NU08	07-11-02	<.004	<.007	<.041	<.006	<.005	<.013	<.007	<.01	<.005	<.009
					CAMDEN CO	OUNTY					
USGS NU11	07-11-02 07-11-02 07-11-02 07-11-02 07-11-02	<.004 <.004 .654 <.004	<.007 <.007 .775 <.007	<.041 <.041 E.990 <.041	<.006 <.006 E.374 <.006	.016 .016 .687 <.005	<.013 <.013 .802 <.013	<.007 <.007 .695 <.007	E.01 E.01 .76 <.01	.012 .012 .523 <.005	<.009 <.009 .694 <.009
USGS NU16	07-01-02	<.004	<.007	<.041	E.003	<.005	<.013	<.007	.04	.008	<.009
				G	LOUCESTER	COUNTY					
USGS NU29	07-15-02										
				c	UMBERLAND	COUNTY					
USGS UND02	07-10-02	<.004	<.007	<.041	<.006	<.005	<.013	<.007	<.01	<.005	<.009
					CAMDEN CO	OUNTY					
USGS UND09	07-09-02	<.004	<.007	<.041	<.006	<.005	<.013	<.007	<.01	<.005	<.009
				E	URLINGTON	COUNTY					
SUSCP11 AGEMIAN DO	08-06-02	.534	.972	<.041	E.226	<.005	<.013	<.007	<.01	<.005	<.009
					OCEAN CO	OUNTY					
SUSCP13 PENA DOM	08-06-02	<.004	<.007	<.041	<.006	<.005	<.013	<.007	<.01	<.005	<.009
					ATLANTIC (COUNTY					
SUSCP22 GRIECO DON	07-18-02	<.004	<.007	<.041	<.006	<.005	<.013	<.007	<.01	<.005	E.001
	07-10-02										
					CAPE MAY	COUNTY					
SUSCP23 MATTHEWS I	08-07-02	<.004	<.007	E.005	<.006	<.005	<.013	<.007	<.01	<.005	<.009
				c	UMBERLAND	COUNTY					
SUSCP24 ERIANNE DO	08-08-02 08-08-02	<.004	<.007	<.041	<.006	<.005	.270	.010	.02	.071	 <.009

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Local ident- i- fier	Date	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	CHLORO- FORM TOTAL (UG/L) (32106)	METHYL TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)
				G	LOUCESTER	COUNTY					
USGS NU02	06-27-02 06-27-02 07-01-02 07-11-02	<.03 <.03 <.03 <.03	<.04 <.04 <.04 <.04	<.1 <.1 <.1	<.05 <.05 <.05 <.05	<.02 <.02 .17	<.2 <.2 .6	<.2 <.2 <.2	<.03 <.03 E.01 <.03	<.04 <.04 <.04 <.04	<.09 <.09 <.09 E.08
	0, 11 01			~••	CAMDEN C	OUNTY					2.00
USGS NU11	07-11-02 07-11-02 07-11-02 07-11-02	<.03 <.03 .47	<.04 <.04 .76	<.1 <.1 2.0	<.05 <.05 .46	1.60 1.66 1.93	•4 .4 2.0	<.2 <.2 1.7	<.03 <.03 .99	E.06 <i>E.06</i> <i></i> .47	<.09 <.09 1.98
	07-11-02	<.03	<.04	<.1	<.05	.11	<.2	<.2	<.03	<.04	<.09
USGS NU16	07-01-02	<.03	<.04	<.1	<.05	1.65	E.2	<.2	<.03	<.04	<.09
				G	LOUCESTER	COUNTY					
USGS NU29	07-15-02	<.03	<.04	<.1	<.05	E.05	<.2	<.2	<.03	<.04	<.09
				c	UMBERLAND	COUNTY					
USGS UND02	07-10-02	<.03	<.04	<.1	<.05	<.02	<.2	<.2	<.03	<.04	<.09
					CAMDEN C	OUNTY					
USGS UND09	07-09-02	<.03	<.04	<.1	<.05	E.03	<.2	<.2	<.03	<.04	<.09
				E	URLINGTON	COUNTY					
SUSCP11 AGEMIAN DO	08-06-02	<.03	<.04	<.1	<.05	E.06	<.2	<.2	<.03	<.04	<.09
					OCEAN C	OUNTY					
SUSCP13 PENA DOM	08-06-02	<.03	<.04	<.1	<.05	.14	<.2	<.2	<.03	<.04	<.09
					ATLANTIC	COUNTY					
SUSCP22 GRIECO DOM	07-18-02 07-18-02	<.03	<.04	<.1	<.05	.30	<.2	M	<.03	<.04	<.09
	07-18-02										
					CAPE MAY	COUNTY					
SUSCP23 MATTHEWS D	08-07-02	E.02	E.04	E.1	.11	E.05	.3	<.2	E.02	E.05	<.09
				c	UMBERLAND	COUNTY					
SUSCP24 ERIANNE DO	08-08-02 08-08-02	 <.03	 <.04	 <.1	 <.05	 .34	 м	 <.2	 <.03	 <.04	 <.09

Remark codes used in this report: < -- Less than E -- Estimated value M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

i	Local dent- i- fier	Date	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	RA-224 2 SIGMA WATER FLTRD (PCI/L) (50834)	RADIUM 224, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99324)	RA-224 WATER FLTRD (PCI/L) (50833)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RADIUM 226, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99325)	RADIUM 226, DIS- SOLVED (PCI/L) (09503)
					G	LOUCESTER	COUNTY					
USGS NU02		06-27-02										
		06-27-02										
		07-01-02										
USGS NU08		07-11-02										
						CAMDEN C	OUNTY					
USGS NU11		07-11-02										
		07-11-02										
		07-11-02										
		07-11-02										
		07-11-02										
USGS NU16		07-01-02										
					G	LOUCESTER	COUNTY					
USGS NU29		07-15-02										
					c	UMBERLAND	COUNTY					
USGS UND02		07-10-02										
						CAMDEN C	OUNTY					
USGS UND09		07-09-02										
					В	URLINGTON	COUNTY					
SUSCP11 AGEM	IAN DO	08-06-02	2.9	13.1	2.0	11.1	.76	.67000	2	.32	.10000	.87
						OCEAN C	OUNTY					
SUSCP13 PENA	DOM	08-06-02	.93	2.9	.88	2.8	.42	.45000	.65	.20	.09100	.344
						ATLANTIC	COUNTY					
SIISCD22 CDIE		07-18-02	15	71	99	5.0	0042	34000	- 0029	001	88 13000	- 00163
DUDCEZZ GICIE	CO DOM	07-18-02	26	- 1	80	3.0	38	42000		32	16000	
		07-18-02	1 5	7 5	1 1	4.6	. 50	89000	.20	40	15000	.40
			1.5						.15		.13000	
						CAPE MAY	COUNTY					
SUSCP23 MATT	HEWS D	08-07-02	1.7	2.3	2.4	6.5	.10	.17000	.074	.16	.04300	.466
					c	UMBERLAND	COUNTY					
SUSCP24 ERIA	NNE DO	08-08-02										
		08-08-02	1.7	6.8	1.6	10.4	.42	.18000	.65	.36	.08100	1

LINJ NAWQA GROUND-WATER-QUALITY NETWORK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

i	Local dent- i- fier I	Date	RA-228 2 SIGMA WATER, DISS, (PCI/L) (76000)	RADIUM 228, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99326)	RADIUM 228 DIS- SOLVED (PCI/L AS RA-228) (81366)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	RADON 222 TOTAL (PCI/L) (82303)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
				G	LOUCESTER	COUNTY		
USGS NU02	06- 06- 07-	-27-02 -27-02 -01-02	 	 	 	 	 	<.02 <.02 .03
USGS NU08	07-	-11-02						
					CAMDEN CO	DUNTY		
USGS NU11	07 - 07- 07- 07-	-11-02 -11-02 -11-02 -11-02	 	 	 	 	 	E.02 E.01
USGS NU16	07- 07 -	-11-02 -01-02						<.02 E.01
				G	LOUCESTER	COUNTY		
USGS NU29	07-	-15-02						.30
				c	UMBERLAND	COUNTY		
USGS UND02	07-	-10-02						E.01
					CAMDEN CO	DUNTY		
USGS UND09	07-	-09-02						.08
				в	URLINGTON	COUNTY		
SUSCP11 AGEM	IAN DO 08-	-06-02	.54	.51200	2	21	140	<.02
					UCEAN CO	JUNIY		
SUSCP13 PENA	DOM 08-	-06-02	.38	.51100	.831	20	130	.02
					ATLANTIC (COUNTY		
SUSCP22 GRIE	CO DOM 07- 07- 07-	-18-02 -18-02 -18-02	•52 •34 •49	.54000 .56300 .52800	1 .461 1	30 	250 	.02
					CAPE MAY (COUNTY		
SUSCP23 MATT	HEWS D 08-	-07-02	.33	.51500	.559	35	670	.14
				C	UMBERLAND	COUNTY		
SUSCP24 ERIA	NNE DO 08- 08-	-08-02 -08-02	.53	 .48400	2	 35	 410	 E.01
1	٨							
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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)



01398000 Neshanic River at Reaville Agricultural Land Use Indicator Station Ambient Stream Monitoring Network (file photograph, U.S. Geological Survey, West Trenton, New Jersey)



01382000 Passaic River at Two Bridges Watershed Integrator Station Ambient Stream Monitoring Network (file photograph, U.S. Geological Survey, West Trenton, New Jersey)

CONVERSION FACTORS AND DATUMS

Multiply	Ву	To obtain
	Length	
inch (in.)	2.54x10 ¹	millimeter
foot (ft)	2.54X10 ⁻²	meter
mile (mi)	1.609x10 ⁰	kilometer
	Area	
acre	4 047x10 ³	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590x10 ⁰	square kilometer
	Volume	
gallon (gal)	3.785x10 ⁰	liter
	3.785x10 ⁰	cubic decimeter
	3.785x10 ⁻³	cubic meter
million gallons (Mgal)	3.785x10 ³	cubic meter
	3.785x10 ⁻³	cubic hectometer
cubic foot (ft ³)	2.832x10 ¹	cubic decimeter
	2.832x10 ⁻²	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447x10 ³	cubic meter
	2.447x10 ⁻³	cubic hectometer
acre-foot (acre-ft)	1.233x10 ³	cubic meter
	1.233x10 ⁻³	cubic hectometer
	1.233x10 ⁻⁶	cubic kilometer
	Flow	
cubic foot per second (ft ³ /s)	2.832x10 ¹	liter per second
	2.832x10 ¹	cubic decimeter per second
	2.832x10 ⁻²	cubic meter per second
gallon per minute (gal/min)	6.309x10 ⁻²	liter per second
	6.309x10 ⁻²	cubic decimeter per second
	6.309x10 ⁻⁵	cubic meter per second
million gallons per day (Mgal/d)	4.381x10 ¹	cubic decimeter per second
	4.381x10 ⁻²	cubic meter per second
	Mass	
ton (short)	9.072x10 ⁻¹	megagram or metric ton

Horizontal coordinate information is referenced to the North American Datum of 1927 (NAD27), unless otherwise noted.

Vertical coordinate information is referenced to the National Geodetic Vertical Datum of 1929 (NGVD of 1929), unless otherwise noted.