

## ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES DELAWARE RIVER BASIN NAWQA PROJECT

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

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

NAWQA study units are divided into three groups that are studied intensively on a rotational basis. Three NAWQA studies have been active in the state of Pennsylvania. The Lower Susquehanna (LSUS) study unit conducted intensive sampling from 1993 through 1995 and is currently in a low-intensity phase. The Allegheny and Monongahela River Basins (ALMN) study unit conducted intensive sampling from 1996 through 1998 and is currently in a low-intensity phase. The Delaware River Basin (DELR) study unit started intensive sampling in 1999 and will complete this phase of the study in 2001. It will then enter the low-intensity phase and is scheduled to resume intensive sampling in 2008.

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.er.usgs.gov/nawqa/nawqa\\_home.html](http://water.er.usgs.gov/nawqa/nawqa_home.html).

Delaware River Basin (DELR) NAWQA fixed stations (fig. 10) are: Delaware River at Port Jervis, NY (01434000); Jordan Creek near Schnecksville, PA (01451800); Lehigh River at Glendon, PA (01454700); Delaware River at Trenton, NJ (01463500); Little Neshaminy Creek at Valley Rd. near Neshaminy, PA (01464907); Cooper River at Haddonfield, NJ (01467150); Tulpehocken Creek near Bernville, PA (01470779); French Creek near Phoenixville, PA (01472157); Schuylkill River at Philadelphia, PA (01474500); and Raccoon Creek near Swedesboro, NJ (01477120) (Figure 10). Data from Pennsylvania fixed stations are published in the continuous-record section of this report. Additional data on bed sediment, fish tissue, fish community, and synoptic sampling sites can be found in the special-studies section of this report. A complete list of Delaware NAWQA data can be found in 'Water Resources Data, New Jersey, Water Year 2000', Water-Data Report NJ-00-3.

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**Laboratory Measurements**

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

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

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

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

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

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

PCODE.--The USGS/EPA parameter code.

MRL.--Minimum reporting level.

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

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

Selected surface water samples from DELR-NAWQA study sites were analyzed for volatile organic compounds (VOCs) in water year 2000. The National Water Quality Lab (NWQL) created a method for accurate determination of VOCs in water in the nanogram per liter range, schedules 2020/2021. The method described in USGS Open-File Report 97-829 (Connor and others) is similar to USEPA method 524-2 (Mund, 1995) and the method described by Rose and Schroeder (1995). Minor improvements to instrument operating conditions include the following: additional compounds, quantitation ions that are different from those recommended in USEPA Method 524.2 because of interferences from the additional compounds, and a data reporting strategy for measuring detected compounds extrapolated at less than the lowest calibration standard or measured at less than the reporting limit. The minimum reporting limit (MRL) 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 ( $\mu\text{g/L}$ ), 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 MRL but greater than or equal to the long-term method-detection limit are reported as estimated concentrations (E) to alert the data user to decreased confidence in accurate quantitation. Values for analytes in the 2020/2021 schedules are preceded by an "E" in the following situations:

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

**Only VOCs detected for one or more samples are listed in the water-quality tables.**

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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.

MRL.--Minimum reporting level..

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

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

Selected surface-water samples from Delaware River Basin National Water-Quality Assessment Program (DELR NAWQA) study sites were analyzed during the 2000 water year for pesticide metabolites on schedule LCAA (Hostetler and Thurman, 1999). Samples from the following sites were analyzed: 01470779 Tulpehocken Creek near Bernville, PA; 01474500 Schuylkill River at Philadelphia, PA; and 01470962 Tulpehocken Creek Water Plant Intake at Blue Marsh, PA. **Only metabolites detected in one or more samples are listed in the water-quality tables.**

PCode	Pesticide metabolite (OA, Oxanilic Acid; ESA, Ethanesulfonic Acid)	MRL ( $\mu\text{G/L}$ )	Metabolite parent compound (PCode)
61030	Acetochlor OA	0.05	Acetochlor (49260)
61029	Acetochlor ESA	0.05	Acetochlor (49260)
61031	Alachlor OA	0.05	Alachlor (46342)
50009	Alachlor ESA	0.05	Alachlor (46342)
61044	Metolachlor OA	0.05	Metolachlor (39415)
61043	Metolachlor ESA	0.05	Metolachlor (39415)

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**STREAMBED SEDIMENTS**

**TABLE 6.--**Delaware River Basin NAWQA project site descriptions.

**REMARKS.--**The following table lists sites at which stream bed sediments were collected during calendar year 2000. The location of the stream gage is described if one is present at the site. Samples were collected throughout a section within several hundred meters upstream and (or) downstream of the stream gage, unless stated otherwise in the description. Streambed sediment samples were collected during low-flow conditions during June and July 2000 to determine concentrations of trace elements and hydrophobic organic compounds. Bed sediment samples at each site were composites of the top 1-2 centimeters of material from at least five different depositional areas within the stream reach. A subsample from the composite sample collected at each site was processed for particle-size analysis. Additionally, subsamples from the composite were: (1) processed using a 2.0-millimeter stainless-steel mesh sieve for preparation of material for organic contaminant analysis, and (2) processed using a 63-micrometer nylon-cloth sieve for preparation of material for trace element analysis. Specific details describing the sediment samples can be found in Shelton and Capel, 1994, Guidelines for collecting and processing samples of streambed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 94-458, 20 p.

Station Number	County, State	Hydrologic Unit	Site Name and description
01462100	Bucks, PA	02040105	<b>Pidcock Creek near New Hope, PA</b> lat 40 19'46", long 74 56'14"; samples were collected upstream of State Route 32 in the Bowman Hill Wildflower Preserve.
01463810	Mercer, NJ	02040105	<b>Shabakunk Creek near Lawrenceville, NJ</b> lat 40 15'19", long 7444'17"; samples were collected upstream of Princeton Pike.
01464710	Bucks, PA	02040201	<b>Pine Run at Chalfont, PA</b> lat 40 17'20", long 75 12'11"; sample were collected vicinity of New Britain Township park at end of Forest Drive, off of Park Avenue.
01464907	Bucks, PA	02040201	<b>Little Neshaminy Creek at Valley Road nr Neshaminy, PA</b> lat 40 13' 45", long 70 07'12", stream gage on left bank at bridge on Valley Road, 1.0 mi east of Neshaminy, and 6.7 mi upstream from mouth; samples were collected upstream of Valley Road.
01472100	Chester, PA	02040203	<b>Pigeon Creek near Parker Ford, PA</b> lat 40 11'48", long 75 35'13"; samples were collected upstream of BethelChurch Road.
01472157	Chester, PA	02040203	<b>French Creek near Phoenixville, PA</b> lat 40 09'05", long 75 36'06", stream gage on right bank 70 ft downstream from two-span county bridge on French Creek Road, 4.5 mi northwest of Phoenixville, and 7.3 mi upstream from mouth; samples were collected upstream of French Creek Road.
01473470	Montgomery, PA	02040203	<b>Stony Creek at Sterigere Street at Norristown, PA</b> lat 40 07'38", long 75 20'43"; samples were collected upstream of Sterigere Street.
01475430	Delaware, PA	02040202	<b>Darby Creek at Foxcroft, PA</b> lat 39 59'45", long 75 21'21"; samples were collected upstream of State Route 320.
01475845	Chester, PA	02040202	<b>Crum Creek at Goshen Road near Whitehorse, PA</b> lat 39 59'24", long 75 26'16"; samples were collected vicinity of Goshen Road.
01476470	Delaware, PA	02040202	<b>Ridley Creek near Media, PA.</b> lat 39 55'57", long 75 24'42"; samples were collected vicinity of unnamed road upstream of West Rose Tree Road, and off of Ridley Creek Road.
01480665	Chester, PA	02040205	<b>East Branch Brandywine Creek near Dorlan, PA</b> lat 40 03'08", long 75 43'28"; samples were collected downstream of Reeds Road.

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STREAMBED SEDIMENTS AND FISH TISSUE

STREAMBED SEDIMENTS

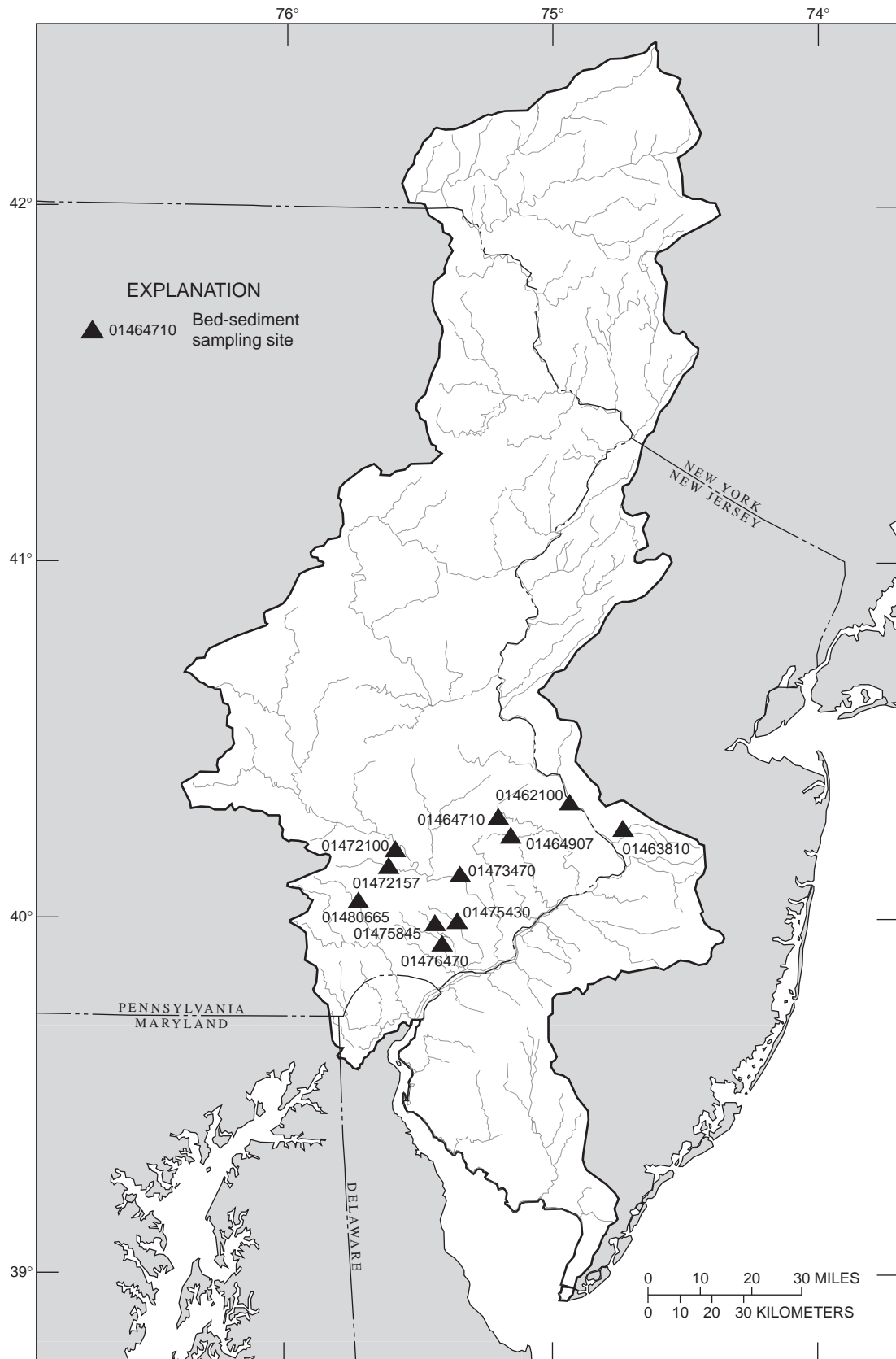


Figure 13.--Location of Delaware River Basin National Water-Quality Assessment Program bed-sediment sampling sites.

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**STREAMBED SEDIMENTS--Continued**

**STREAMBED SEDIMENT PARAMETER NAMES FOR SEMI-VOLATILE ORGANIC COMPOUNDS**

**REMARKS.**--Some parameter names for semi-volatile organic compounds (SVOCs) in streambed sediments are abbreviated in the streambed sediment table and station records. Full parameter names for these abbreviated SVOC names are provided in the table below. [PCode, USGS/EPA parameter code.]

PCode	Compound
49381	Di-n-butyl phthalate
49382	Di-n-octyl phthalate
49401	bis(2-Chloroethoxy)methane
49402	Naphthalene
49403	1,2-Dimethylnaphthalene
49404	1,6-Dimethylnaphthalene
49405	2,3,6-Trimethylnaphthalene
49406	2,6-Dimethylnaphthalene
49411	4H-cyclopenta[d,e,f]phenanthrene
49421	3,5-Dimethylphenol
49422	4-Chloro-3-methylphenol
49426	Bis(2-ethylhexyl) phthalate
49431	N-Nitrosodi-n-propylamine
49433	N-Nitrosodiphenylamine
49439	1,2-Dichlorobenzene
49441	1,3-Dichlorobenzene
49442	1,4-Dichlorobenzene
49446	Pentachloronitrobenzene
49448	Hexachlorobutadiene
49454	4-Bromophenylphenylether
49455	4-Chlorophenyl phenyl ether
49456	bis(2-Chloroethyl)ether
49457	bis(2-Chloroisopropyl)ether
49460	Pentachloroanisole
49461	Dibenz[a,h]anthracene
49468	Benzo[c]cinnoline
49489	Hexachlorocyclopentadiene



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**STREAMBED SEDIMENTS--Continued**

**REMARKS.**--Stream bed sediment samples were collected during low-flow conditions in the Delaware River Basin during June and July 2000 to determine concentrations of trace elements and hydrophobic organic compounds in stream bed sediments. Sites were located throughout the Delaware River Basin in New Jersey and Pennsylvania. Bed sediment samples at each site were composites of the top 1 to 2 centimeters of material from at least 5 different depositional areas within the stream reach. A subsample from the composite sample collected at each site was processed for particle-size analysis. Additionally, subsamples from the composite were: (1) processed using a 2.0- millimeter stainless-steel mesh sieve for preparation of material for organic contaminant analysis, and (2) processed using a 63-micrometer nylon-cloth sieve for preparation of material for trace element analysis. Specific details describing the guidelines used in collecting and in processing the stream bed sediment samples can be found in Shelton and Capel, 1994, Guidelines for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 94-458, 20 p.

LIST OF SITES AND SAMPLE COLLECTION DATES

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE
MERCER COUNTY, NJ				
01463810	SHABAKUNK CREEK NEAR LAWRENCEVILLE, NJ	06-12-00	1100	ENVIRONMENTAL
BUCKS COUNTY, PA				
01462100	PIDCOCK CREEK NEAR NEW HOPE, PA	06-12-00	1600	ENVIRONMENTAL
01464710	PINE RUN AT CHALFONT, PA	06-13-00	1330	ENVIRONMENTAL
01464907	LITTLE NESHAMINY C AT VALLEY ROAD NR NESHAMINY, PA	06-13-00	0900	ENVIRONMENTAL
CHESTER COUNTY, PA				
01472100	PIGEON CREEK NEAR PARKER FORD, PA	06-21-00	1000	ENVIRONMENTAL
01472157	FRENCH CREEK NEAR PHOENIXVILLE, PA	06-21-00	1300	ENVIRONMENTAL
01475845	CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA	06-15-00	0900	ENVIRONMENTAL
01480665	EAST BRANCH BRANDYWINE CREEK NEAR DORLAN, PA	07-26-00	1000	ENVIRONMENTAL
DELAWARE COUNTY, PA				
01475430	DARBY CREEK AT FOXCROFT, PA	06-14-00	1400	ENVIRONMENTAL
01476470	RIDLEY CREEK NEAR MEDIA, PA	06-14-00	1030	ENVIRONMENTAL
MONTGOMERY COUNTY, PA				
01473470	STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA	06-15-00	1300	ENVIRONMENTAL

TRACE ELEMENTS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION NUMBER	DATE	CALCIUM BOT MAT <63U WS FIELD (34830)	MAGNE- SIUM BOT MAT <63U WS FIELD (34900)	POTAS- SIUM BOT MAT <63U WS FIELD (34940)	SODIUM BOT MAT <63U WS FIELD (34960)	SULFUR BOT MAT <63U WS FIELD (34970)	PHOS- PHORUS BOT MAT <63U WS FIELD (34935)	CARBON,	CARBON,	CARBON,	ALUM- INUM BOT MAT FIELD (34790)
								INORG, SED, BM WS, <63U DW, REC (PER- CENT) (49269)	ORG + INORG, SED, BM WS, <63U DW, REC (PER- CENT) (49267)	ORGANIC SED, BM WS, <63U DW, REC (PER- CENT) (49266)	
MERCER COUNTY, NJ											
01463810	06-12-00	.61	.56	1.4	.87	.20	.12	.05	3.5	3.4	5.9
BUCKS COUNTY, PA											
01462100	06-12-00	.50	.71	1.7	1.0	.06	.12	.05	2.6	2.5	6.6
01464710	06-13-00	.38	.60	1.9	.92	.09	.13	.02	2.7	2.7	8.0
01464907	06-13-00	.45	.53	1.8	1.2	.07	.10	.02	2.1	2.1	6.7
CHESTER COUNTY, PA											
01472100	06-21-00	.27	.42	1.6	.44	.05	.11	.01	1.9	1.8	6.2
01472157	06-21-00	.70	.70	1.5	.71	.08	.14	.04	3.9	3.8	7.0
01475845	06-15-00	.65	.73	1.3	.50	.10	.18	.04	4.2	4.2	6.9
01480665	07-26-00	1.1	.73	1.3	.71	.09	.14	.03	4.8	4.8	7.2
DELAWARE COUNTY, PA											
01475430	06-14-00	1.2	1.3	1.4	.61	.12	.17	.22	4.4	4.2	6.8
01476470	06-14-00	.69	.86	1.3	.57	.08	.18	.03	3.1	3.0	7.0
MONTGOMERY COUNTY, PA											
01473470	06-15-00	.88	.82	1.8	1.2	.08	.11	.26	3.0	2.8	7.0

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**STREAMBED SEDIMENTS--Continued**

TRACE ELEMENTS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	ANTI-MONY	ARSENIC	BARIUM	BERYL-LIUM	BISMUTH	CADMIUM	CERIUM	CHROMIUM	COBALT	COPPER
			BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
			<63U WS	<63U WS	<63U WS	<63U WS	<180UWS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS
			FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
			(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)
			(34795)	(34800)	(34805)	(34810)	(34816)	(34825)	(34835)	(34840)	(34845)	(34850)
			MERCER COUNTY, NJ									
01463810		06-12-00	2.5	9.2	450	2.4	1	1.5	94	78	15	82
			BUCKS COUNTY, PA									
01462100		06-12-00	.6	11	570	2.1	<1	.1	100	72	16	36
01464710		06-13-00	.8	8.0	630	3.0	<1	.2	110	79	18	34
01464907		06-13-00	.8	6.5	490	2.5	<1	.2	110	69	13	76
			CHESTER COUNTY, PA									
01472100		06-21-00	.7	8.2	530	2.6	<1	<.1	120	67	15	29
01472157		06-21-00	.5	7.1	560	2.1	<1	.4	110	77	20	44
01475845		06-15-00	.5	7.1	640	2.1	<1	.3	130	120	26	36
01480665		07-26-00	.9	6.5	580	1.9	<1	.2	100	72	16	27
			DELAWARE COUNTY, PA									
01475430		06-14-00	.8	6.7	620	1.6	<1	.6	130	170	24	53
01476470		06-14-00	.5	5.2	610	2.6	<1	.1	140	140	26	42
			MONTGOMERY COUNTY, PA									
01473470		06-15-00	1.0	7.1	520	2.9	<1	.5	110	75	14	42
STATION	NUMBER	DATE	EUROPIUM	GALLIUM	GOLD	HOLMIUM	IRON	LANTHANUM	LEAD	LITHIUM	MANGANESE	MERCURY
			BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
			<63U WS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS	<63U WS
			FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD	FIELD
			(µG/G)	(µG/G)	(µG/G)	(µG/G)	PERCENT	(µG/G)	(µG/G)	(µG/G)	(µG/G)	(µG/G)
			(34855)	(34860)	(34870)	(34875)	(34880)	(34885)	(34890)	(34895)	(34905)	(34910)
			MERCER COUNTY, NJ									
01463810		06-12-00	1	14	<1	<1	3.5	46	210	37	450	.21
			BUCKS COUNTY, PA									
01462100		06-12-00	2	16	<1	1	3.5	50	31	52	2600	.05
01464710		06-13-00	2	20	<1	1	3.9	54	42	41	1000	.07
01464907		06-13-00	1	16	<1	<1	3.2	55	45	33	800	.09
			CHESTER COUNTY, PA									
01472100		06-21-00	2	16	<1	1	3.2	58	38	32	1100	.06
01472157		06-21-00	2	18	<1	2	4.5	62	50	34	1300	.10
01475845		06-15-00	2	19	<1	2	5.0	78	51	34	2000	.12
01480665		07-26-00	2	18	<1	2	4.0	56	49	27	960	.08
			DELAWARE COUNTY, PA									
01475430		06-14-00	2	18	<1	2	5.1	74	77	28	1200	.36
01476470		06-14-00	3	18	<1	2	5.2	78	46	32	1300	.12
			MONTGOMERY COUNTY, PA									
01473470		06-15-00	2	17	<1	1	3.5	55	90	36	940	.10

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**STREAMBED SEDIMENTS--Continued**

TRACE ELEMENTS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	MOLYB-	NEODYM-	NICKEL	NIOBIUM	SCAN-	SELE-	SILVER	STRON-	TANTA-
			DENUM BOT MAT <63U WS FIELD (µG/G) (34915)	IUM BOT MAT <63U WS FIELD (µG/G) (34920)	BOT MAT <63U WS FIELD (µG/G) (34925)	BOT MAT <63U WS FIELD (µG/G) (34930)	DIUM BOT MAT <63U WS FIELD (µG/G) (34945)	NIUM BOT MAT <63U WS FIELD (µG/G) (34950)	BOT MAT <63U WS FIELD (µG/G) (34955)	TIUM BOT MAT <63U WS FIELD (µG/G) (34965)	LUM BOT MAT <63U WS FIELD (µG/G) (34975)
					MERCER COUNTY, NJ						
01463810		06-12-00	1.8	40	32	17	11	.9	.3	82	2
					BUCKS COUNTY, PA						
01462100		06-12-00	.9	43	30	18	13	.9	.2	100	1
01464710		06-13-00	1.2	47	32	20	15	.7	.3	82	2
01464907		06-13-00	1.2	46	26	19	12	.6	.3	97	1
					CHESTER COUNTY, PA						
01472100		06-21-00	.7	50	30	19	11	.8	.2	75	2
01472157		06-21-00	1.3	56	32	18	15	1.3	.2	98	1
01475845		06-15-00	1.3	70	77	17	17	1.9	.2	100	1
01480665		07-26-00	1.2	50	28	16	12	1.3	.2	180	1
					DELAWARE COUNTY, PA						
01475430		06-14-00	1.1	64	96	19	17	1.4	.2	120	1
01476470		06-14-00	1.0	68	100	20	17	1.3	.2	110	1
					MONTGOMERY COUNTY, PA						
01473470		06-15-00	1.3	47	30	19	13	.8	.2	95	1
STATION	NUMBER	DATE	THAL-	TIN	TITA-	VANA-	YTTER-	YTTRIUM	ZINC	THORIUM	URANIUM
			LIIUM BED MAT D SIEVE <63 U TOTAL (µG/G) (04064)	BOT MAT <63U WS FIELD (µG/G) (34985)	NIUM, SED, BM WS, <63U DRY WGT REC (49274)	DIUM BOT MAT <63U WS FIELD (µG/G) (35005)	BIUM BOT MAT <63U WS FIELD (µG/G) (35015)	BOT MAT <63U WS FIELD (µG/G) (35010)	BOT MAT <63U WS FIELD (µG/G) (35020)	BOT MAT <63U WS FIELD (µG/G) (34980)	BOT MAT <63U WS FIELD (µG/G) (35000)
					MERCER COUNTY, NJ						
01463810		06-12-00	<1	16	.43	86	2	24	400	13	4.3
					BUCKS COUNTY, PA						
01462100		06-12-00	<1	4	.43	94	2	25	120	13	4.3
01464710		06-13-00	<1	5	.44	98	3	27	150	15	5.9
01464907		06-13-00	<1	5	.45	83	2	23	150	16	6.2
					CHESTER COUNTY, PA						
01472100		06-21-00	<1	4	.46	82	3	26	120	14	4.4
01472157		06-21-00	<1	4	.49	110	4	48	200	12	3.6
01475845		06-15-00	<1	3	.52	110	5	56	200	12	2.5
01480665		07-26-00	<1	4	.48	90	4	41	170	10	2.9
					DELAWARE COUNTY, PA						
01475430		06-14-00	<1	5	.59	120	4	44	230	14	3.1
01476470		06-14-00	<1	4	.64	120	5	53	160	14	3.5
					MONTGOMERY COUNTY, PA						
01473470		06-15-00	<1	6	.44	88	2	24	220	15	5.3

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**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	2,2'-BI QUINO- LINE, SED, BM WS,<2MM DW, REC (µG/KG) (49391)	3,5- XYLENOL SED, BM WS,<2MM DW, REC (µG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (µG/KG) (49454)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (µG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (µG/KG) (49411)	9,10- ANTHRA- QUINONE SED, BM WS,<2MM DW, REC (µG/KG) (49437)	9H-FLU- ORENE, 1METHYL SED, BM WS,<2MM DW, REC (µG/KG) (49398)
			MERCER COUNTY, NJ									
01463810	06-12-00	.5	37	36	<100	<100	<100	<100	530	920	90	
			BUCKS COUNTY, PA									
01462100	06-12-00	.5	31	30	<100	<100	<100	<100	<100	<100	<100	<100
01464710	06-13-00	.3	26	26	<100	<100	<100	<100	<100	E80	<100	<100
01464907	06-13-00	.2	21	21	<100	<100	<100	<100	110	280	<100	<100
			CHESTER COUNTY, PA									
01472100	06-21-00	<.2	14	14	<100	<100	<100	<100	M	E50	<100	<100
01472157	06-21-00	.5	33	33	E10	<50	<50	<50	E10	E40	<50	<50
01475845	06-15-00	<.2	20	20	<100	<100	<100	<100	E70	160	<100	<100
01480665	07-26-00	<.2	43	43	<100	<100	<100	<100	<100	E40	<100	<100
			DELAWARE COUNTY, PA									
01475430	06-14-00	1.5	31	29	<100	<100	<100	<100	200	510	E20	<100
01476470	06-14-00	<.2	18	18	<100	<100	<100	<100	E50	150	<100	<100
			MONTGOMERY COUNTY, PA									
01473470	06-15-00	1.8	22	20	<100	<100	<100	<100	200	540	<100	<100
			MERCER COUNTY, NJ									
01463810	06-12-00	280	210	340	120	<1	<1	270	620	<100	2700	<100
			BUCKS COUNTY, PA									
01462100	06-12-00	<100	<100	<100	<100	<3	<3	<100	M	<100	<100	<100
01464710	06-13-00	<100	<100	<100	<100	<2	<2	<100	E20	<100	140	<100
01464907	06-13-00	E70	E40	E20	E50	<1	<1	E10	140	<100	550	<100
			CHESTER COUNTY, PA									
01472100	06-21-00	E10	<100	E20	<100	<2	<2	<100	<100	<100	<100	<100
01472157	06-21-00	<50	<50	E20	<50	<1	<1	<50	E10	<50	E20	E20
01475845	06-15-00	E50	E20	E60	<100	<3	<3	<100	E90	<100	360	<100
01480665	07-26-00	<100	<100	E30	<100	<1	<1	<100	E30	<100	E70	E70
			DELAWARE COUNTY, PA									
01475430	06-14-00	E70	E50	E60	E70	<1	<1	E50	180	<100	820	<100
01476470	06-14-00	E50	E20	<100	<100	<1	<1	<100	E70	<100	240	<100
			MONTGOMERY COUNTY, PA									
01473470	06-15-00	130	E70	110	E70	<1	<1	E80	180	<100	1000	<100

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**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE	BENZO	BENZOB	BENZO(G
			124TRI- CHLORO- SED, BM WS,<2MM DW, REC (µG/KG) (49438)	HEXA- CHLORO- SED, BM WS,<2MM DW, REC (µG/KG) (49343)	M-DI- CHLORO- SED, BM WS,<2MM DW, REC (µG/KG) (49441)	NITRO- SED, BM WS,<2MM DW, REC (µG/KG) (49444)	O-DI- CHLORO- SED, BM WS,<2MM DW, REC (µG/KG) (49439)	P-DI- CHLORO- SED, BM WS,<2MM DW, REC (µG/KG) (49442)	PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (µG/KG) (49446)	PYRENE SED, BM WS,<2MM DW, REC (µG/KG) (49389)	(A) ANTHENE SED, BM WS,<2MM DW, REC (µG/KG) (49458)	FLUOR- SED, BM WS,<2MM DW, REC (µG/KG) (49458)	FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (µG/KG) (49458)
			MERCER COUNTY, NJ										
01463810	06-12-00	<100	<1	<100	<100	<100	<100	<100	<100	<100	2600	2800	1800
			BUCKS COUNTY, PA										
01462100	06-12-00	<100	<3	<100	<100	<100	<100	<100	<100	<100	E40	E70	<100
01464710	06-13-00	<100	<2	<100	<100	<100	<100	<100	<100	<100	170	200	100
01464907	06-13-00	<100	<1	<100	<100	<100	<100	<100	<100	<100	500	560	190
			CHESTER COUNTY, PA										
01472100	06-21-00	<100	<2	<100	<100	<100	<100	<100	<100	<100	E40	E60	E20
01472157	06-21-00	<50	<1	<50	<50	<50	<50	<50	<50	<50	E40	E50	E20
01475845	06-15-00	<100	<3	<100	<100	<100	<100	<100	<100	<100	400	400	180
01480665	07-26-00	<100	<1	<100	<100	<100	<100	<100	<100	<100	E80	100	E40
			DELAWARE COUNTY, PA										
01475430	06-14-00	<100	<1	<100	M	<100	<100	<100	<100	<100	1100	1100	720
01476470	06-14-00	<100	<1	<100	<100	<100	<100	<100	<100	<100	270	300	130
			MONTGOMERY COUNTY, PA										
01473470	06-15-00	<100	<1	<100	<100	<100	<100	<100	<100	<100	1300	1300	650
			BENZO K	BENZOCI		BIS2CHL							
			FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (µG/KG) (49397)	NNOLINE BED MAT WS <2MM DRY WGT REC (µG/KG) (49468)	BETA- BHC, SED, BM WS,<2MM DW, REC (µG/KG) (49339)	ETHYL ETHER SED, BM WS,<2MM DW, REC (µG/KG) (49456)	CARBA- ZOLE SED, BM WS,<2MM DW, REC (µG/KG) (49449)	CHLORO- NEB, SED, BM WS,<2MM DW, REC (µG/KG) (49322)	CHRY- SENE SED, BM WS,<2MM DW, REC (µG/KG) (49450)	CIS- CHLOR- DANE, SED, BM WS,<2MM DW, REC (µG/KG) (49320)	CIS- NONA- CHLOR, SED, BM WS,<2MM DW, REC (µG/KG) (49316)		
			MERCER COUNTY, NJ										
01463810	06-12-00		2800	E100	<1	<100	170	<5	3600	14	2		
			BUCKS COUNTY, PA										
01462100	06-12-00		E20	<100	<3	<100	<100	<15	E50	<3	<3		
01464710	06-13-00		210	<100	<2	<100	<100	<10	240	<2	<2		
01464907	06-13-00		510	<100	<1	<100	E100	<5	650	2	<1		
			CHESTER COUNTY, PA										
01472100	06-21-00		E40	<100	<2	<100	<100	<10	E40	<2	<2		
01472157	06-21-00		E40	E10	<1	<50	<50	<5	50	<1	<1		
01475845	06-15-00		480	<100	<3	<100	<100	<15	510	E3	<3		
01480665	07-26-00		E60	<100	<1	<100	E10	<5	E80	<1	<1		
			DELAWARE COUNTY, PA										
01475430	06-14-00		1400	<100	<1	<100	170	<5	1500	15	2		
01476470	06-14-00		250	<100	<1	<100	E30	<5	350	E1	<1		
			MONTGOMERY COUNTY, PA										
01473470	06-15-00		1300	<100	<1	<100	230	<5	1500	2	E1		

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**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	CIS- PER- METHRIN	DCPA,	DIBENZ (AH),AN THRACEN	DIEL- DRIN,	DIPHNYL AMINE,N NITROSO	DPROPYL AMINE,N NITROSO	ENDO- SULFAN I,	ENDRIN,	FLUOR- ANTHENE BED MAT		
			SED, BM WS,<2MM DW, REC (µG/KG) (49349)	SED, BM WS,<2MM DW, REC (µG/KG) (49324)	SED, BM WS,<2MM DW, REC (µG/KG) (49461)	SED, BM WS,<2MM DW, REC (µG/KG) (49331)	SED, BM WS,<2MM DW, REC (µG/KG) (49433)	SED, BM WS,<2MM DW, REC (µG/KG) (49431)	SED, BM WS,<2MM DW, REC (µG/KG) (49332)	SED, BM WS,<2MM DW, REC (µG/KG) (49335)	WS <2MM DRY WGT REC (µG/KG) (49466)		
					MERCER COUNTY, NJ								
01463810		06-12-00	<36	<5	540	12	<100	<100	<13	<2	6600		
					BUCKS COUNTY, PA								
01462100		06-12-00	<15	<15	<100	<3	<100	<100	<3	<6	E90		
01464710		06-13-00	<10	<10	E30	<2	<100	<100	<2	<4	350		
01464907		06-13-00	<5	<5	E70	2	<100	<100	<1	<2	1500		
					CHESTER COUNTY, PA								
01472100		06-21-00	<31	<10	M	<2	<100	<100	<2	<4	E90		
01472157		06-21-00	<23	<5	E10	<1	<50	<50	<1	<2	80		
01475845		06-15-00	<15	<15	E60	E3	<100	<100	<3	<6	950		
01480665		07-26-00	<5	<5	E20	<1	<100	<100	<1	<2	140		
					DELAWARE COUNTY, PA								
01475430		06-14-00	<11	<5	220	14	<100	<100	<3	<2	3000		
01476470		06-14-00	<5	<5	E40	<1	<100	<100	<1	<2	740		
					MONTGOMERY COUNTY, PA								
01473470		06-15-00	<12	<5	110	2	<100	<100	<1	<2	3200		
					HEPTA- CHLOR EPOXIDE	HEPTA- CHLOR,	INDENO 123-CD PYRENE	ISODRIN	ISOPHOR ONE	ISO- QUINO- LINE,	LINDANE	M-CRE- SOL, 4- CHLORO-	METHANE 2CHLORO ETHOXY
STATION	NUMBER	DATE	SED, BM WS,<2MM DW, REC (µG/KG) (49342)	SED, BM WS,<2MM DW, REC (µG/KG) (49341)	SED, BM WS,<2MM DW, REC (µG/KG) (49390)	SED, BM WS,<2MM DW, REC (µG/KG) (49344)	SED, BM WS,<2MM DW, REC (µG/KG) (49400)	SED, BM WS,<2MM DW, REC (µG/KG) (49394)	SED, BM WS,<2MM DW, REC (µG/KG) (49345)	SED, BM WS,<2MM DW, REC (µG/KG) (49422)	SED, BM WS,<2MM DW, REC (µG/KG) (49401)		
					MERCER COUNTY, NJ								
01463810		06-12-00	<1	<1	2100	<1	<100	<100	<1	<100	<100		
					BUCKS COUNTY, PA								
01462100		06-12-00	<3	<3	E30	<3	<100	<100	<3	<100	<100		
01464710		06-13-00	<2	<2	150	<2	<100	<100	<2	<100	<100		
01464907		06-13-00	<1	<1	280	<1	<100	<100	<1	<100	<100		
					CHESTER COUNTY, PA								
01472100		06-21-00	<2	<2	E40	<2	<100	E20	<2	<100	<100		
01472157		06-21-00	<1	<1	E40	<1	<50	E20	<1	<50	<50		
01475845		06-15-00	<3	<3	260	<3	<100	<100	<3	<100	<100		
01480665		07-26-00	<1	<1	E80	<1	<100	<100	<1	<100	<100		
					DELAWARE COUNTY, PA								
01475430		06-14-00	<3	<1	910	<1	<100	<100	<1	<100	<100		
01476470		06-14-00	<1	<1	180	<1	<100	<100	<1	<100	<100		
					MONTGOMERY COUNTY, PA								
01473470		06-15-00	<1	<1	1000	<1	<100	<100	<1	<100	<100		

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**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	METHOXY	METHOXY		NAPHTHAL	NAPHTHAL	NAPHTHAL	NAPHTHAL	NAPHTHAL	NAPHTHAL
			CHLOR, O, P'-, SED, BM WS, <2MM DW, REC (µG/KG) (49347)	CHLOR, P, P'-, SED, BM WS, <2MM DW, REC (µG/KG) (49346)	MIREX, SED, BM WS, <2MM DW, REC (µG/KG) (49348)	ENE, 12 DIMETHL SED, BM WS, <2MM DW, REC (µG/KG) (49403)	ENE, 16 DIMETHL SED, BM WS, <2MM DW, REC (µG/KG) (49404)	ENE, 236 TRIMETH SED, BM WS, <2MM DW, REC (µG/KG) (49405)	ENE, 26 DIMETHL SED, BM WS, <2MM DW, REC (µG/KG) (49406)	ENE, 2- CHLORO- SED, BM WS, <2MM DW, REC (µG/KG) (49407)	ENE, 2- ETHYL- SED, BM WS, <2MM DW, REC (µG/KG) (49948)
01463810	06-12-00	<5	<10		MERCER COUNTY, NJ <1	<100	E70	E50	150	<100	<100
01462100	06-12-00	<15	<15		BUCKS COUNTY, PA <3	<100	E30	<100	E40	<100	<100
01464710	06-13-00	<10	<10		<2	<100	<100	<100	E60	<100	<100
01464907	06-13-00	<5	<5		<1	<100	<100	<100	E20	<100	<100
01472100	06-21-00	<10	<10		CHESTER COUNTY, PA <2	<100	<100	<100	E10	<100	<100
01472157	06-21-00	<5	<5		<1	<50	<50	<50	E20	<50	<50
01475845	06-15-00	<15	<15		<3	<100	<100	<100	E80	<100	<100
01480665	07-26-00	<5	<5		<1	E10	E10	<100	E50	<100	<100
01475430	06-14-00	<5	<5		DELAWARE COUNTY, PA <1	<100	<100	<100	E40	<100	<100
01476470	06-14-00	<5	<5		<1	<100	<100	<100	E50	<100	<100
01473470	06-15-00	<5	<5		MONTGOMERY COUNTY, PA <1	<100	E10	<100	E40	<100	<100
01463810	06-12-00	<100	10		MERCER COUNTY, NJ <10	5	<2	36	20	31	E220
01462100	06-12-00	<100	<3		BUCKS COUNTY, PA <3	<6	<3	<3	E1	<6	<150
01464710	06-13-00	<100	<1		<2	<4	<2	<2	E1	<4	<100
01464907	06-13-00	<100	<1		<2	<2	<1	2	3	E1	E60
01472100	06-21-00	<100	<2		CHESTER COUNTY, PA <3	<4	<2	<2	E1	<4	<100
01472157	06-21-00	<50	<1		<1	<2	<1	<1	E1	<2	<50
01475845	06-15-00	<100	<3		<3	<6	<3	E2	E1	<6	<150
01480665	07-26-00	<100	<1		<1	<2	<1	<1	<1	<2	<50
01475430	06-14-00	<100	<1		DELAWARE COUNTY, PA <5	<2	<3	4	2	E3	E60
01476470	06-14-00	<100	<1		<2	<2	<1	1	E1	<2	<50
01473470	06-15-00	<100	<1		MONTGOMERY COUNTY, PA <5	<2	<1	<3	2	<3	<50

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	P-CRESOL	PENTA-CHLORO-ANISOLE	PHENAN-THRENE	PHENAN-1METHYL-THRENE	PHENAN-THRI-DINE	PHENOL-C8-ALKYL-	PHENOL, 2CHLORO-BED MAT	PHENOL, CHLORO-	PHENOL
			SED, BM WS, <2MM DW, REC (µG/KG) (49451)	SED, BM WS, <2MM DW, REC (µG/KG) (49460)	SED, BM WS, <2MM DW, REC (µG/KG) (49410)	SED, BM WS, <2MM DW, REC (µG/KG) (49409)	SED, BM WS, <2MM DW, REC (µG/KG) (49393)	SED, BM WS, <2MM DW, REC (µG/KG) (49424)	WS <2MM DRY WGT REC (µG/KG) (49467)	SED, BM WS, <2MM DW, REC (µG/KG) (49425)	SED, BM WS, <2MM DW, REC (µG/KG) (49413)
					MERCER COUNTY, NJ						
01463810	06-12-00	840	<1		160	3500	110	<100	<100	--	E60
					BUCKS COUNTY, PA						
01462100	06-12-00	180	<3		<100	E30	<100	<100	<100	--	E100
01464710	06-13-00	E80	<2		<100	120	<100	<100	<100	--	E40
01464907	06-13-00	E20	<1		E50	960	<100	<100	<100	--	E10
					CHESTER COUNTY, PA						
01472100	06-21-00	E20	<2		<100	E20	<100	<100	<100	--	E20
01472157	06-21-00	70	<1		<50	E20	<50	<50	<50	E80	E20
01475845	06-15-00	250	<3		<100	510	<100	<100	<100	--	120
01480665	07-26-00	E40	<1		E10	E50	<100	<100	<100	--	E30
					DELAWARE COUNTY, PA						
01475430	06-14-00	E70	<1		110	1200	<100	<100	<100	--	E50
01476470	06-14-00	E30	<1		E20	460	<100	<100	<100	--	E70
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	E70	<1		130	1400	E50	<100	<100	--	E40
STATION	NUMBER	DATE	PHENOL, 246TRI-CHLORO-SED, BM WS, <2MM DW, REC (µG/KG) (49415)	PHTHALATE, BIS2-ETHHEXL SED, BM WS, <2MM DW, REC (µG/KG) (49426)	PHTHALATE, BENZYL- SED, BM WS, <2MM DW, REC (µG/KG) (49427)	PHTHALATE, DIBUTYL- SED, BM WS, <2MM DW, REC (µG/KG) (49381)	PHTHALATE, DIETHYL- SED, BM WS, <2MM DW, REC (µG/KG) (49383)	PHTHALATE, DIMETHYL- SED, BM WS, <2MM DW, REC (µG/KG) (49384)	PHTHALATE, DIOCTYL- SED, BM WS, <2MM DW, REC (µG/KG) (49382)	PYRENE, 1-METHYL, SED, BM WS, <2MM DW, REC (µG/KG) (49388)	PYRENE, SED, BM WS, <2MM DW, REC (µG/KG) (49387)
					MERCER COUNTY, NJ						
01463810	06-12-00	--	2200		520	E60	E10	<100	<100	380	5200
					BUCKS COUNTY, PA						
01462100	06-12-00	--	E80		190	E20	E20	<100	<100	<100	E80
01464710	06-13-00	--	200		150	E40	E20	<100	<100	<100	300
01464907	06-13-00	--	110		E80	E10	E20	<100	<100	E40	1100
					CHESTER COUNTY, PA						
01472100	06-21-00	--	E60		E60	E10	E20	<100	<100	E20	E80
01472157	06-21-00	E10	90		E30	E10	E10	<50	<50	E20	80
01475845	06-15-00	--	130		250	<100	E30	<100	<100	E60	790
01480665	07-26-00	--	E40		E80	E30	<100	<100	<100	E20	120
					DELAWARE COUNTY, PA						
01475430	06-14-00	--	460		120	<100	E10	<100	<100	E70	2400
01476470	06-14-00	--	E80		160	E20	E20	<100	<100	E30	600
					MONTGOMERY COUNTY, PA						
01473470	06-15-00	--	420		150	E30	E10	<100	E10	E80	2400



**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**STREAMBED SEDIMENTS--Continued**

ORGANOCHLORINE AND SEMI-VOLATILE ORGANIC COMPOUNDS IN STREAMBED SEDIMENTS, WATER YEAR 2000

STATION	NUMBER	DATE	QUINO- LINE, SED, BM WS, <2MM DW, REC (µG/KG) (49392)	THIOPH ENE, DI- BENZO- SED, BM WS, <2MM DW, REC (µG/KG) (49452)	TOLUENE 2,4-DI- NITRO- SED, BM WS, <2MM DW, REC (µG/KG) (49395)	TOLUENE 2,6-DI- NITRO- SED, BM WS, <2MM DW, REC (µG/KG) (49396)	TOXA- PHENE SED, BM WS, <2MM DW, REC (µG/KG) (49351)	TRANS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (µG/KG) (49321)	TRANS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (µG/KG) (49317)	TRANS- PER- METHRIN SED, BM WS, <2MM DW, REC (µG/KG) (49350)	BED MAT. SIEVE DIAM. % FINER THAN (80164)		
01463810	06-12-00	<100	210		MERCER COUNTY, NJ		<100	<100	<200	13	8	<19	59
					BUCKS COUNTY, PA								
01462100	06-12-00	<100	<100	<100	<100	<100	<600	<3	<3	<15			88
01464710	06-13-00	<100	<100	<100	<100	<100	<400	<2	<2	<10			78
01464907	06-13-00	<100	E60	<100	<100	<100	<200	1	2	<5			58
					CHESTER COUNTY, PA								
01472100	06-21-00	<100	<100	<100	<100	<100	<400	<2	<2	<54			36
01472157	06-21-00	<50	<50	<50	<50	<50	<200	<1	<1	<48			35
01475845	06-15-00	<100	<100	<100	<100	<100	<600	E2	E2	<15			31
01480665	07-26-00	<100	<100	<100	<100	<100	<200	<1	<1	<5			39
					DELAWARE COUNTY, PA								
01475430	06-14-00	<100	E60	<100	<100	<100	<200	11	8	<5			54
01476470	06-14-00	<100	E40	<100	<100	<100	<200	E1	E1	<5			36
					MONTGOMERY COUNTY, PA								
01473470	06-15-00	<100	E70	<100	<100	<100	<200	2	2	<9			28

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT

FISH COLLECTION RESULTS

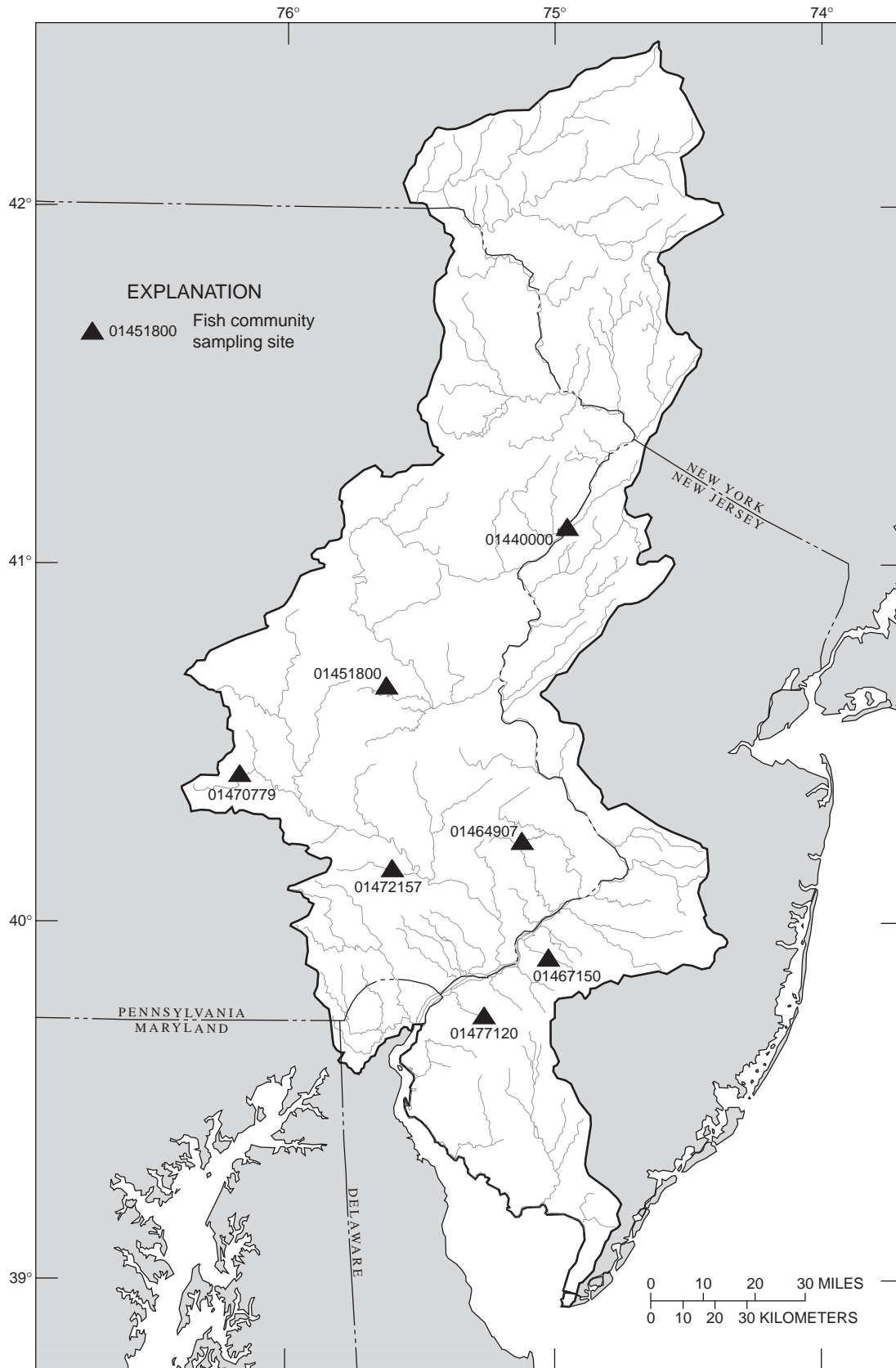


Figure 14.--Location of Delaware River Basin National Water-Quality Assessment Program fish-community sampling sites.

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**FISH COLLECTION RESULTS--Continued**

Fish-community surveys were conducted at 7 stream sites in the Delaware River basin during the 2000 water year. Sites were located in New Jersey and Pennsylvania. Fish were collected by electrofishing with pulsed-DC current in a representative 153 to 310 meter long reach at each stream site. One electrofishing pass was conducted at each reach. One-quarter inch mesh was used for the dip nets. Fish were identified, measured, weighed, and checked for anomalies such as parasites, lesions, and skeletal deformities. Most individuals were returned to the stream after processing. More details regarding collection methods can be found in Meador and others, 1993, Methods for sampling fish communities as part of the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 93-104, 40 p. Additional surface-water and/or water-quality data for these sites can be found in the continuous record station section of this report. Family names are in uppercase, scientific names are in italics, and common names follow. Minimum and maximum total lengths (in mm) are in parenthesis below abundance.

SITE LOCATIONS

Station Number	Station name	Collection Date
01440000	FLAT BROOK NEAR FLATBROOKVILLE, NJ	07-20-00
01451800	JORDAN CREEK NEAR SCHNECKSVILLE, PA	07-11-00
01464907	LITTLE NESHAMINY C AT VALLEY ROAD NR NESHAMINY, PA	07-13-00
01467150	COOPER RIVER AT HADDONFIELD, NJ	07-19-00
01470779	TULPEHOCKEN CR NR BERNVILLE, PA.	07-10-00
01472157	FRENCH CREEK NEAR PHOENIXVILLE, PA.	07-12-00
01477120	RACCOON CREEK NEAR SWEDESBORO, NJ	07-18-00

Fish species, numbers, minimum and maximum total lengths (in mm), collected during water year 2000

FAMILY	01440000	01451800	01464907	01467150	01470779	01472157	01477120
<i>scientific name</i>							
<i>common name</i>							
<b>PETROMYZONTIDAE</b>							
<i>Lampetra appendix</i> , American brook lamprey	0	0	0	0	0	0	40 (106-165)
<i>Petromyzon marinus</i> , sea lamprey	11 (128-145)	0	0	0	0	0	2 (155-164)
<b>ANGUILLIDAE</b>							
<i>Anguilla rostrata</i> , American eel	152 (155-590)	8 (200-560)	50 (190-635)	38 (103-600)	0	3 (315-780)	27 (145-645)
<b>CLUPEIDAE</b>							
<i>Alosa pseudoharengus</i> , alewife	0	0	0	275 (47-59)	0	0	0
<b>CYPRINIDAE</b>							
<i>Cyprinella analostana</i> , satinfin shiner	0	12 (68-90)	37 (48-84)	0	0	10 (40-99)	11 (50-76)
<i>C. spiloptera</i> , spotfin shiner	0	0	74 (46-88)	0	13 (47-115)	3 (57-97)	0
<i>Cyprinus carpio</i> , common carp	0	0	1 (237)	14 (107-530)	44 (327-580)	0	0
<i>Exoglossum maxillingua</i> , cutlips minnow	282 (46-132)	45 (56-125)	0	0	20 (61-123)	132 (50-130)	0
<i>Hybognathus regius</i> , eastern silvery minnow	0	0	0	51 (87-114)	0	0	0
<i>Luxilus cornutus</i> , common shiner	24 (48-91)	76 (27-127)	14 (91-138)	0	0	35 (70-123)	7 (77-123)
<i>Notemigonus crysoleucas</i> , golden shiner	0	0	3 (74-154)	0	1 (75)	0	2 (108-124)
<i>Notropis amoenus</i> , comely shiner	0	0	0	0	0	0	8 (30-35)
<i>N. hudsonius</i> , spottail shiner	0	1 (40)	333 (67-115)	128 (40-98)	28 (68-103)	0	9 (37-121)
<i>N. procne</i> , swallowtail shiner	0	0	825 (43-75)	0	0	0	0
<i>Pimephales notatus</i> , bluntnose minnow	0	49 (39-88)	0	0	7 (38-72)	0	0
<i>P. promelas</i> , fathead minnow	0	1 (55)	0	0	0	0	0
<i>Rhinichthys atratulus</i> , blacknose dace	145 (41-70)	302 (30-76)	0	0	34 (52-85)	12 (55-65)	0
<i>R. cataractae</i> , longnose dace	21 (25-110)	91 (36-101)	0	0	47 (63-106)	19 (35-115)	0
<i>Semotilus corporalis</i> , fallfish	0	0	0	0	0	26 (36-275)	26 (33-272)

FAMILY	01440000	01451800	01464907	01467150	01470779	01472157	01477120
<i>scientific name</i>							
<i>common name</i>							
<b>CATOSTOMIDAE</b>							
<i>Catostomus commersoni</i> , white sucker	54 (32-466)	209 (29-340)	226 (47-300)	38 (164-277)	144 (37-398)	40 (40-390)	28 (39-402)
<i>Erimyzon oblongus</i> , creek chubsucker	0	0	0	7 (94-188)	0	0	0
<i>Hypentelium nigricans</i> , northern hog sucker	10 (80-310)	0	0	0	0	0	0
<b>ICTALURIDAE</b>							
<i>Ameiurus catus</i> , white catfish	0	0	0	0	0	0	2 (245-408)
<i>A. natalis</i> , yellow bullhead	0	0	33 (90-251)	0	1 (109)	5 (81-256)	0
<i>A. nebulosus</i> , brown bullhead	0	0	0	21 (47-224)	0	2 (92-95)	0
<i>Ictalurus punctatus</i> , channel catfish	0	0	0	0	2 (331-440)	0	0
<i>Noturus insignis</i> , marginated madtom	9 (65-125)	61 (55-137)	0	0	0	16 (76-140)	0
<b>ESOCIDAE</b>							
<i>Esox americanus</i> , redfin pickerel	0	0	1 (131)	0	0	0	1 (68)
<b>UMBRIDAE</b>							
<i>Umbra pygmaea</i> , eastern mudminnow	0	0	0	0	0	0	1 (60)
<b>SALMONIDAE</b>							
<i>Oncorhynchus mykiss</i> , rainbow trout	0	4 (209-310)	0	0	5 (238-370)	4 (208-360)	0
<i>Salmo trutta</i> , brown trout	0	1 (212)	0	0	1 (296)	99 (180-325)	0
<b>APHREDODERIDAE</b>							
<i>Aphredoderus sayanus</i> , pirate perch	0	0	0	0	0	0	3 (78-89)
<b>CYPRINODONTIDAE</b>							
<i>Fundulus diaphanus</i> , banded killifish	0	67 (50-78)	886 (50-94)	0	0	0	0
<b>PERCICHTHYIDAE</b>							
<i>Morone americana</i> , white perch	0	0	0	5 (124-192)	0	0	0
<b>CENTRARCHIDAE</b>							
<i>Ambloplites rupestris</i> , rock bass	2 (80-85)	47 (63-171)	62 (59-190)	0	12 (70-172)	153 (45-202)	0
<i>Lepomis auritus</i> , redbreast sunfish	0	9 (57-134)	314 (45-180)	0	0	7 (42-88)	7 (90-125)
<i>L. cyanellus</i> , green sunfish	0	4 (55-81)	117 (38-106)	35 (27-141)	1 (60)	9 (46-146)	3 (64-106)
<i>L. gibbosus</i> , pumpkinseed	0	6 (81-95)	15 (53-132)	324 (47-131)	1 (109)	0	31 (50-111)
<i>L. macrochirus</i> , bluegill	1 (85)	34 (54-88)	12 (55-99)	184 (47-165)	18 (59-149)	11 (50-116)	10 (48-102)
<i>Micropterus dolomieu</i> , smallmouth bass	2 (159-164)	6 (122-358)	14 (152-333)	0	1 (145)	42 (83-310)	0
<i>M. salmoides</i> , largemouth bass	0	0	3 (166-195)	40 (33-351)	6 (102-160)	0	3 (39-192)
<b>PERCIDAE</b>							
<i>Etheostoma olmstedi</i> , tessellated darter	59 (46-70)	6 (51-78)	102 (45-68)	23 (35-75)	10 (55-72)	64 (32-71)	17 (32-84)
<i>Percina peltata</i> , shield darter	66 (60-84)	0	0	0	0	23 (64-86)	0

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT



Figure 15.--Location of miscellaneous continuous-record temperature sites in the Delaware River Basin National Water-Quality Assessment Program.

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**CONTINUOUS WATER-TEMPERATURE DATA**

Continuous water-temperature data were collected at the Delaware River Basin National Water Quality Assessment synoptic sites from July 17 through September 30, 2000. These data were collected to coincide with ecological data that were being collected during that time frame at most of these sites. Each site was instrumented with an, in situ, submersible, water-temperature logger that was programmed to record every 30 minutes. Additional water-quality data for these sites can be found starting on page 496.

**01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

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

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01460880 LOCKATONG CREEK AT RAVEN ROCK, NJ (LAT 40 24 58N LONG 075 01 05W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.0	22.0	22.5	24.0	22.0	23.0
2	---	---	---	---	---	---	24.0	21.5	22.5	24.5	22.5	23.5
3	---	---	---	---	---	---	24.0	22.5	23.0	24.0	23.0	23.5
4	---	---	---	---	---	---	23.0	21.5	22.5	24.0	22.0	23.0
5	---	---	---	---	---	---	22.5	20.0	21.5	22.5	17.5	19.5
6	---	---	---	---	---	---	21.0	19.0	20.0	18.0	15.5	17.0
7	---	---	---	---	---	---	23.5	20.0	22.0	18.0	15.5	16.5
8	---	---	---	---	---	---	24.5	21.5	23.0	18.0	15.5	17.0
9	---	---	---	---	---	---	25.0	22.5	23.5	20.0	17.0	18.5
10	---	---	---	---	---	---	25.0	23.0	24.0	21.0	19.0	20.0
11	---	---	---	---	---	---	24.0	22.0	23.0	---	---	---
12	---	---	---	---	---	---	22.5	19.0	20.5	---	---	---
13	---	---	---	---	---	---	19.5	19.0	19.0	---	---	---
14	---	---	---	---	---	---	19.0	18.5	19.0	---	---	---
15	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	22.5	19.5	21.0	---	---	---
17	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	23.5	20.0	21.5	19.5	18.0	19.0	---	---	---
19	---	---	---	21.5	19.0	20.0	20.0	17.0	18.5	---	---	---
20	---	---	---	21.0	18.0	19.5	19.0	17.0	18.0	---	---	---
21	---	---	---	21.5	18.0	19.5	18.5	16.0	17.5	---	---	---
22	---	---	---	22.0	19.5	20.5	19.0	16.0	17.5	---	---	---
23	---	---	---	21.0	19.0	20.0	18.5	17.0	18.0	---	---	---
24	---	---	---	20.0	19.0	19.5	20.5	18.0	19.0	---	---	---
25	---	---	---	20.5	19.0	19.5	20.5	18.0	19.5	---	---	---
26	---	---	---	19.5	19.0	19.5	20.0	18.0	19.0	---	---	---
27	---	---	---	20.5	19.0	20.0	20.5	18.5	19.5	---	---	---
28	---	---	---	22.0	19.5	20.5	21.0	20.0	20.5	---	---	---
29	---	---	---	21.5	20.0	21.0	21.0	20.5	21.0	---	---	---
30	---	---	---	23.0	20.5	21.5	22.0	19.5	21.0	---	---	---
31	---	---	---	24.0	21.5	23.0	23.0	21.0	22.0	---	---	---
MONTH	---	---	---	24.0	18.0	20.5	25.0	16.0	20.5	24.5	15.5	20.0

**01462100 PIDCOCK CREEK NEAR NEW HOPE, PA (LAT 40 19 46N LONG 074 56 14W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	21.5	22.5	24.5	22.5	23.0
2	---	---	---	---	---	---	23.5	21.5	22.5	25.0	23.0	24.0
3	---	---	---	---	---	---	23.5	22.0	22.5	24.0	23.0	23.5
4	---	---	---	---	---	---	22.5	21.5	22.0	24.0	22.0	23.0
5	---	---	---	---	---	---	22.0	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	21.0	19.5	20.0	18.5	16.5	17.5
7	---	---	---	---	---	---	23.5	20.0	21.5	18.0	15.0	16.5
8	---	---	---	---	---	---	24.0	22.0	23.0	18.0	15.0	16.5
9	---	---	---	---	---	---	25.0	23.0	24.0	19.5	17.0	18.0
10	---	---	---	---	---	---	25.5	23.5	24.0	21.0	18.5	20.0
11	---	---	---	---	---	---	24.0	22.5	23.0	21.5	19.5	20.5
12	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
13	---	---	---	---	---	---	20.0	19.5	19.5	---	---	---
14	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
15	---	---	---	---	---	---	21.0	18.5	19.5	---	---	---
16	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	24.5	20.5	22.0	19.5	18.0	19.0	---	---	---
19	---	---	---	22.0	19.0	20.5	19.5	17.5	18.5	---	---	---
20	---	---	---	22.5	18.5	20.0	20.0	18.0	18.5	---	---	---
21	---	---	---	23.5	18.0	20.5	19.5	17.0	18.0	---	---	---
22	---	---	---	24.0	19.5	21.5	19.5	16.5	18.0	---	---	---
23	---	---	---	23.0	19.0	21.0	18.5	17.5	18.5	---	---	---
24	---	---	---	21.0	20.0	20.5	20.5	18.5	19.0	---	---	---
25	---	---	---	21.5	19.5	20.5	21.5	18.5	20.0	---	---	---
26	---	---	---	20.5	19.5	19.5	21.5	18.5	20.0	---	---	---
27	---	---	---	20.5	19.5	20.5	21.5	19.0	20.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.5	20.5	21.0	---	---	---
29	---	---	---	22.0	20.5	21.5	21.5	20.5	21.0	---	---	---
30	---	---	---	23.5	21.0	22.0	22.0	20.0	21.0	---	---	---
31	---	---	---	25.0	22.5	23.5	23.5	21.5	22.0	---	---	---
MONTH	---	---	---	25.0	18.0	21.0	25.5	16.5	20.5	25.0	15.0	20.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01464710 PINE RUN AT CHALFONT, PA (LAT 40 17 20N LONG 075 12 11W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	26.5	24.5	25.5	26.0	24.5	25.0
2	---	---	---	---	---	---	26.0	24.5	25.0	26.5	24.0	25.0
3	---	---	---	---	---	---	25.5	23.0	25.0	26.0	24.0	24.5
4	---	---	---	---	---	---	25.5	23.0	24.5	26.0	23.0	24.5
5	---	---	---	---	---	---	24.0	22.5	23.5	23.0	18.0	20.5
6	---	---	---	---	---	---	24.0	22.0	22.5	20.0	16.5	18.0
7	---	---	---	---	---	---	25.0	22.5	23.5	19.5	15.0	17.5
8	---	---	---	---	---	---	26.0	24.0	25.0	19.5	15.5	17.5
9	---	---	---	---	---	---	26.5	24.5	25.5	22.0	18.0	19.5
10	---	---	---	---	---	---	27.0	25.0	26.0	22.0	19.5	21.0
11	---	---	---	---	---	---	26.0	23.5	25.0	23.0	20.5	21.5
12	---	---	---	---	---	---	24.5	22.0	23.0	23.5	21.0	22.0
13	---	---	---	---	---	---	22.0	21.0	21.5	23.5	21.0	22.0
14	---	---	---	---	---	---	21.0	20.0	20.5	22.5	20.5	21.5
15	---	---	---	---	---	---	24.0	20.5	22.0	22.5	20.5	21.5
16	---	---	---	---	---	---	24.0	22.0	22.5	21.0	18.5	19.5
17	---	---	---	---	---	---	22.5	20.5	21.5	19.0	17.5	18.0
18	---	---	---	---	---	---	21.0	20.0	20.5	19.0	17.5	18.0
19	---	---	---	22.0	19.0	20.5	21.5	19.0	20.0	19.5	18.0	18.5
20	---	---	---	22.5	18.5	20.5	21.5	19.0	20.0	20.5	18.5	19.5
21	---	---	---	23.0	18.0	20.5	21.5	18.0	19.5	20.5	19.0	20.0
22	---	---	---	23.5	20.0	21.5	21.5	17.5	19.5	19.0	18.0	18.5
23	---	---	---	22.5	19.0	21.0	20.5	18.5	20.0	18.5	18.0	18.5
24	---	---	---	21.5	20.0	20.5	22.5	19.5	21.0	19.5	18.5	19.0
25	---	---	---	22.5	19.5	21.0	23.0	19.5	21.0	---	---	---
26	---	---	---	20.5	20.0	20.5	23.0	18.5	21.0	---	---	---
27	---	---	---	22.0	20.5	21.5	23.0	19.5	21.0	---	---	---
28	---	---	---	23.5	21.5	22.0	25.0	22.0	23.5	---	---	---
29	---	---	---	23.0	21.5	22.5	23.5	22.0	23.0	---	---	---
30	---	---	---	25.0	22.0	23.0	23.5	21.0	22.0	---	---	---
31	---	---	---	26.5	23.0	25.0	24.5	22.0	23.0	---	---	---
MONTH	---	---	---	26.5	18.0	21.5	27.0	17.5	22.5	26.5	15.0	20.5

**01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	24.0	22.0	23.0	25.0	23.0	24.0
2	---	---	---	---	---	---	24.0	22.0	23.0	25.0	23.5	24.0
3	---	---	---	---	---	---	23.5	22.5	23.0	25.0	23.0	24.0
4	---	---	---	---	---	---	23.0	22.0	22.5	24.0	23.0	23.5
5	---	---	---	---	---	---	22.5	20.5	21.5	23.0	19.0	20.5
6	---	---	---	---	---	---	21.0	19.5	20.5	19.0	17.0	18.0
7	---	---	---	---	---	---	24.0	21.0	22.5	19.0	17.0	18.0
8	---	---	---	---	---	---	24.0	22.5	23.5	19.5	17.5	18.5
9	---	---	---	---	---	---	24.5	22.5	23.5	21.5	19.0	20.5
10	---	---	---	---	---	---	24.5	23.0	23.5	22.5	21.0	21.5
11	---	---	---	---	---	---	23.5	22.0	22.5	22.5	21.0	22.0
12	---	---	---	---	---	---	22.5	20.5	21.5	23.0	21.5	22.0
13	---	---	---	---	---	---	20.5	19.5	20.0	23.0	21.0	22.5
14	---	---	---	---	---	---	19.5	19.0	19.5	21.0	19.5	20.5
15	---	---	---	---	---	---	21.5	19.0	20.5	21.0	19.5	20.5
16	---	---	---	---	---	---	22.5	20.5	21.5	19.5	17.5	18.5
17	---	---	---	---	---	---	21.0	19.5	20.5	18.0	16.0	17.5
18	---	---	---	---	---	---	20.5	19.0	19.5	---	---	---
19	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
20	---	---	---	---	---	---	19.5	18.0	19.0	---	---	---
21	---	---	---	---	---	---	19.5	17.0	18.5	---	---	---
22	---	---	---	23.0	21.0	22.0	20.0	17.5	19.0	---	---	---
23	---	---	---	22.5	20.5	21.5	20.0	19.0	19.5	---	---	---
24	---	---	---	21.5	21.0	21.5	21.0	19.5	20.5	---	---	---
25	---	---	---	21.5	20.5	21.0	21.5	19.5	21.0	---	---	---
26	---	---	---	21.0	19.5	20.5	21.5	19.5	20.5	---	---	---
27	---	---	---	21.5	21.0	21.5	22.0	20.0	21.0	---	---	---
28	---	---	---	22.0	21.0	21.5	22.5	21.5	22.0	---	---	---
29	---	---	---	22.0	21.5	22.0	22.0	21.5	21.5	---	---	---
30	---	---	---	23.5	22.0	22.5	23.5	20.5	22.0	---	---	---
31	---	---	---	24.5	22.0	23.0	23.5	22.5	23.0	---	---	---
MONTH	---	---	---	24.5	19.5	21.5	24.5	17.0	21.0	25.0	16.0	21.0



**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	22.5	23.0	24.5	22.0	23.0
2	---	---	---	---	---	---	24.0	21.5	22.5	24.5	23.0	23.5
3	---	---	---	---	---	---	23.0	22.0	22.5	25.0	22.0	23.0
4	---	---	---	---	---	---	22.5	21.0	22.0	24.0	22.0	23.0
5	---	---	---	---	---	---	22.5	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	20.0	18.5	19.5	18.5	16.0	17.0
7	---	---	---	---	---	---	24.5	20.0	22.0	18.5	15.5	17.0
8	---	---	---	---	---	---	24.5	22.0	23.0	19.5	16.0	17.5
9	---	---	---	---	---	---	24.5	22.0	23.0	21.0	18.0	19.5
10	---	---	---	---	---	---	24.5	22.0	23.0	22.0	19.5	20.5
11	---	---	---	---	---	---	23.0	20.5	22.0	22.0	20.0	21.0
12	---	---	---	---	---	---	21.0	19.5	20.0	22.5	20.0	21.0
13	---	---	---	---	---	---	19.5	18.5	19.0	23.0	20.5	22.0
14	---	---	---	---	---	---	19.5	18.5	19.0	21.0	18.5	20.0
15	---	---	---	---	---	---	22.0	18.5	20.0	21.0	18.5	20.0
16	---	---	---	---	---	---	22.5	20.0	21.0	18.5	16.0	17.5
17	---	---	---	---	---	---	21.0	18.5	19.5	17.5	15.0	16.5
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	20.0	17.5	18.5	---	---	---
20	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
21	---	---	---	---	---	---	19.5	16.0	17.5	---	---	---
22	---	---	---	22.5	19.5	20.5	20.0	16.0	18.0	---	---	---
23	---	---	---	22.0	18.5	20.0	19.5	18.0	18.5	---	---	---
24	---	---	---	20.0	19.0	19.5	20.5	18.5	19.5	---	---	---
25	---	---	---	20.0	19.0	19.5	21.5	18.5	20.0	---	---	---
26	---	---	---	21.0	19.0	19.5	21.5	18.5	20.0	---	---	---
27	---	---	---	21.0	20.0	20.5	21.5	19.0	20.5	---	---	---
28	---	---	---	21.5	19.5	20.5	22.5	20.0	21.0	---	---	---
29	---	---	---	20.5	19.5	20.0	22.0	20.5	21.0	---	---	---
30	---	---	---	22.5	20.0	21.0	22.0	20.0	21.0	---	---	---
31	---	---	---	24.5	22.5	23.0	22.5	20.5	21.5	---	---	---
MONTH	---	---	---	24.5	18.5	20.5	24.5	16.0	20.5	25.0	15.0	20.0

**01471520 WYOMISSING CREEK AT WEST READING, PA (LAT 40 19 41N LONG 075 56 41W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.0	19.0	20.0	24.5	18.5	21.0
2	---	---	---	---	---	---	22.0	19.5	20.5	21.0	19.0	20.0
3	---	---	---	---	---	---	23.5	19.0	20.5	20.0	18.5	19.0
4	---	---	---	---	---	---	21.5	18.0	19.5	20.5	18.0	19.0
5	---	---	---	---	---	---	20.0	16.5	18.0	18.0	15.0	16.5
6	---	---	---	---	---	---	17.5	16.0	16.5	17.0	13.5	15.0
7	---	---	---	---	---	---	21.0	17.0	19.0	17.0	13.5	15.0
8	---	---	---	---	---	---	21.5	18.0	19.5	17.0	14.0	15.5
9	---	---	---	---	---	---	23.0	19.0	20.5	19.0	15.5	17.0
10	---	---	---	---	---	---	21.5	18.5	20.0	19.5	16.5	18.0
11	---	---	---	---	---	---	20.5	18.0	19.0	19.0	17.0	18.0
12	---	---	---	---	---	---	19.5	17.5	18.5	20.0	17.0	18.5
13	---	---	---	---	---	---	18.5	17.0	17.5	21.5	17.0	20.0
14	---	---	---	---	---	---	20.0	16.5	17.5	19.5	15.0	17.0
15	---	---	---	---	---	---	19.5	16.0	18.0	19.5	16.0	18.0
16	---	---	---	---	---	---	20.5	17.5	18.5	16.0	14.0	15.0
17	---	---	---	---	---	---	18.5	16.0	17.5	16.0	12.5	14.0
18	---	---	---	---	---	---	17.0	16.0	16.5	16.0	13.5	15.0
19	---	---	---	18.5	16.5	17.0	18.0	15.0	16.5	18.5	14.5	16.5
20	---	---	---	19.5	16.0	17.0	18.0	15.0	16.5	18.5	15.5	17.0
21	---	---	---	20.5	16.0	18.0	18.0	14.0	16.0	18.0	15.5	17.0
22	---	---	---	20.0	17.5	18.5	18.0	14.0	16.0	16.0	13.5	15.0
23	---	---	---	19.5	16.0	17.5	18.0	16.0	16.5	15.0	14.0	14.5
24	---	---	---	17.5	16.0	16.5	18.5	16.0	17.0	16.5	15.0	15.5
25	---	---	---	18.5	16.0	17.0	19.5	15.5	17.5	---	---	---
26	---	---	---	18.0	16.5	17.5	19.0	15.5	17.5	---	---	---
27	---	---	---	18.0	16.5	17.5	20.5	16.0	18.0	---	---	---
28	---	---	---	20.0	17.0	18.0	20.0	18.0	19.0	---	---	---
29	---	---	---	22.5	17.5	19.0	18.0	17.5	18.0	---	---	---
30	---	---	---	20.0	18.0	19.0	24.0	17.0	18.5	---	---	---
31	---	---	---	21.0	18.0	19.5	21.5	18.5	20.0	---	---	---
MONTH	---	---	---	22.5	16.0	18.0	24.0	14.0	18.0	24.5	12.5	17.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	21.5	19.6	20.5	21.5	19.3	20.0
2	---	---	---	---	---	---	21.5	19.3	20.5	21.5	19.9	20.5
3	---	---	---	---	---	---	21.0	19.9	20.5	20.5	19.6	20.0
4	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.3	20.0
5	---	---	---	---	---	---	20.5	17.5	19.0	20.0	16.3	17.5
6	---	---	---	---	---	---	18.5	16.6	17.5	16.5	13.7	15.0
7	---	---	---	---	---	---	21.5	18.0	19.5	16.5	13.7	15.0
8	---	---	---	---	---	---	22.0	19.5	20.5	16.5	14.1	15.5
9	---	---	---	---	---	---	22.0	19.6	21.0	18.5	15.8	17.0
10	---	---	---	---	---	---	22.0	19.6	20.5	19.5	17.2	18.5
11	---	---	---	---	---	---	21.0	18.8	20.0	19.0	17.8	18.5
12	---	---	---	---	---	---	19.5	18.2	19.0	20.0	18.2	19.0
13	---	---	---	---	---	---	18.0	17.4	18.0	20.5	18.3	19.5
14	---	---	---	---	---	---	17.5	17.2	17.5	18.5	15.8	17.0
15	---	---	---	---	---	---	20.0	16.6	18.0	18.5	16.7	18.0
16	---	---	---	---	---	---	21.0	18.2	19.5	16.5	14.5	15.5
17	---	---	---	---	---	---	19.0	16.7	18.0	15.5	12.7	14.0
18	---	---	---	---	---	---	18.0	16.4	17.0	16.0	13.4	14.5
19	---	---	---	19.5	16.4	17.5	18.0	15.6	17.0	16.5	14.8	15.5
20	---	---	---	19.0	15.9	17.5	18.0	15.3	16.5	18.0	15.5	17.0
21	---	---	---	19.5	15.8	17.5	17.5	14.1	16.0	18.0	16.3	17.5
22	---	---	---	20.0	17.2	18.5	17.5	14.4	16.0	16.5	13.9	15.0
23	---	---	---	19.5	16.3	18.0	17.5	16.3	17.0	15.5	14.2	15.0
24	---	---	---	18.0	16.9	17.0	18.5	16.7	17.5	16.5	15.5	16.0
25	---	---	---	19.0	16.6	18.0	19.5	16.6	18.0	---	---	---
26	---	---	---	18.5	17.2	17.5	19.0	15.9	17.5	---	---	---
27	---	---	---	18.5	17.2	18.0	19.0	16.6	18.0	---	---	---
28	---	---	---	20.5	17.5	19.0	20.0	17.8	18.5	---	---	---
29	---	---	---	19.5	18.5	19.0	19.0	18.2	18.5	---	---	---
30	---	---	---	20.5	18.5	19.5	20.0	17.8	19.0	---	---	---
31	---	---	---	21.5	19.1	20.5	20.5	19.1	20.0	---	---	---
MONTH	---	---	---	21.5	15.8	18.5	22.0	14.1	18.5	21.5	12.7	17.0

**01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.0	22.0
2	---	---	---	---	---	---	24.0	21.0	22.5	23.5	21.5	22.5
3	---	---	---	---	---	---	23.0	21.0	22.5	23.0	22.0	22.5
4	---	---	---	---	---	---	22.0	20.5	21.5	23.0	21.0	22.0
5	---	---	---	---	---	---	22.0	19.0	20.5	22.0	17.5	19.0
6	---	---	---	---	---	---	20.5	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	23.0	19.5	21.0	17.0	14.5	16.0
8	---	---	---	---	---	---	24.0	20.5	22.0	18.0	15.0	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	20.0	17.0	18.5
10	---	---	---	---	---	---	24.0	22.0	23.0	20.5	18.5	19.5
11	---	---	---	---	---	---	23.0	21.0	22.0	20.5	19.0	20.0
12	---	---	---	---	---	---	21.5	20.0	20.5	21.5	19.5	20.5
13	---	---	---	---	---	---	20.0	19.0	19.0	21.5	19.5	21.0
14	---	---	---	---	---	---	19.0	18.0	18.5	19.5	17.5	18.5
15	---	---	---	---	---	---	21.5	17.5	19.5	19.5	17.5	18.5
16	---	---	---	---	---	---	22.0	20.0	21.0	17.5	15.5	16.5
17	---	---	---	---	---	---	21.0	18.5	19.5	16.0	13.5	15.0
18	---	---	---	---	---	---	19.5	17.5	18.5	16.5	14.0	15.5
19	---	---	---	21.5	17.5	19.0	19.5	17.0	18.0	17.0	15.5	16.5
20	---	---	---	20.0	17.0	18.5	19.0	17.0	18.0	19.0	16.0	17.5
21	---	---	---	21.0	17.5	19.0	18.5	15.5	17.5	19.0	17.5	18.5
22	---	---	---	21.5	18.5	20.0	19.0	15.5	17.5	17.5	15.0	16.5
23	---	---	---	20.5	18.0	19.5	18.5	17.5	18.0	16.5	15.0	15.5
24	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	17.5	16.0	16.5
25	---	---	---	20.0	18.0	19.0	20.5	17.5	19.0	17.0	14.0	15.5
26	---	---	---	19.5	18.0	18.5	20.0	17.5	19.0	14.0	13.0	13.5
27	---	---	---	19.5	18.0	19.0	20.5	18.0	19.0	15.0	12.0	13.5
28	---	---	---	21.5	19.0	20.0	21.0	19.0	20.0	14.5	12.5	13.5
29	---	---	---	21.5	20.0	20.5	20.5	19.5	20.0	13.0	11.0	12.5
30	---	---	---	22.0	20.5	21.0	21.0	19.5	20.0	13.5	10.0	11.5
31	---	---	---	23.0	21.0	22.0	22.0	20.0	21.0	---	---	---
MONTH	---	---	---	23.0	17.0	19.5	24.0	15.5	20.0	23.5	10.0	17.5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**CONTINUOUS WATER-TEMPERATURE DATA--Continued**

**014721884 PICKERING CREEK AT CHARLESTOWN ROAD BRIDGE AT CHARLESTOWN, PA (LAT 40 05 57N LONG 075 33 20W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	22.5	21.0	21.5	22.5	20.5	21.5
2	---	---	---	---	---	---	23.0	21.0	22.0	23.5	21.0	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	21.0	22.0
5	---	---	---	---	---	---	21.5	19.0	20.5	21.5	17.0	19.0
6	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	22.5	19.5	20.5	17.0	14.5	16.0
8	---	---	---	---	---	---	23.5	21.0	22.0	17.5	15.0	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	19.5	16.5	18.0
10	---	---	---	---	---	---	24.0	22.0	23.0	20.0	18.0	19.0
11	---	---	---	---	---	---	22.5	21.0	21.5	20.5	18.5	19.5
12	---	---	---	---	---	---	21.5	15.0	20.0	21.5	19.5	20.0
13	---	---	---	---	---	---	18.0	16.0	17.0	20.5	19.5	20.0
14	---	---	---	---	---	---	18.0	17.5	18.0	19.5	17.0	18.5
15	---	---	---	---	---	---	20.0	17.5	19.0	19.0	17.5	18.5
16	---	---	---	---	---	---	21.5	19.5	20.5	17.5	15.5	16.5
17	---	---	---	---	---	---	20.0	18.5	19.5	16.0	14.0	15.0
18	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
19	---	---	---	21.0	17.5	19.0	19.0	16.5	17.5	---	---	---
20	---	---	---	20.0	17.0	18.5	19.0	16.5	17.5	---	---	---
21	---	---	---	20.5	17.0	19.0	18.0	15.5	17.0	---	---	---
22	---	---	---	21.5	18.5	20.0	18.0	15.5	17.0	---	---	---
23	---	---	---	21.0	18.0	19.5	18.0	17.0	17.5	---	---	---
24	---	---	---	19.5	18.5	19.0	19.5	17.5	18.5	---	---	---
25	---	---	---	19.5	17.5	18.5	20.0	17.5	19.0	---	---	---
26	---	---	---	19.0	18.0	18.5	19.5	17.0	18.5	---	---	---
27	---	---	---	19.5	18.0	18.5	20.0	18.0	19.0	---	---	---
28	---	---	---	21.0	18.5	20.0	21.0	19.0	20.0	---	---	---
29	---	---	---	21.0	20.0	20.5	20.0	19.5	20.0	---	---	---
30	---	---	---	22.0	20.0	21.0	21.0	19.0	20.0	---	---	---
31	---	---	---	23.0	20.5	21.5	21.5	20.0	20.5	---	---	---
MONTH	---	---	---	23.0	17.0	19.5	24.0	15.0	19.5	23.5	14.0	19.0

**01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.0	21.5	22.5	23.5	21.5	22.5
2	---	---	---	---	---	---	23.5	21.0	22.5	24.5	22.0	23.5
3	---	---	---	---	---	---	23.5	21.5	22.5	24.0	22.5	23.0
4	---	---	---	---	---	---	22.0	20.5	21.0	24.5	22.0	23.0
5	---	---	---	---	---	---	22.0	18.5	20.5	22.0	17.0	19.0
6	---	---	---	---	---	---	19.5	18.0	19.0	18.0	14.5	16.5
7	---	---	---	---	---	---	23.5	19.5	21.5	17.5	14.0	16.0
8	---	---	---	---	---	---	25.5	21.0	23.0	18.0	14.5	16.5
9	---	---	---	---	---	---	25.5	22.0	23.5	20.5	17.0	19.0
10	---	---	---	---	---	---	25.5	22.5	23.5	21.5	19.0	20.0
11	---	---	---	---	---	---	25.0	21.0	23.0	22.0	19.5	20.5
12	---	---	---	---	---	---	22.5	19.5	20.5	22.5	20.0	21.0
13	---	---	---	---	---	---	19.5	19.0	19.5	22.5	19.0	21.0
14	---	---	---	---	---	---	19.0	18.5	18.5	20.0	16.5	18.5
15	---	---	---	---	---	---	21.5	18.0	19.5	20.0	17.5	19.0
16	---	---	---	---	---	---	23.5	19.5	21.0	17.5	15.0	16.5
17	---	---	---	---	---	---	21.5	17.5	19.5	17.0	13.0	15.0
18	---	---	---	---	---	---	19.5	17.5	18.5	17.5	13.5	15.5
19	---	---	---	22.0	18.0	19.5	20.5	16.0	18.0	17.0	15.5	16.0
20	---	---	---	20.5	17.5	19.0	20.0	16.0	18.0	19.5	16.5	18.0
21	---	---	---	21.5	17.5	19.5	19.5	14.5	17.0	19.5	16.5	18.5
22	---	---	---	22.0	19.5	20.5	19.5	15.0	17.5	17.5	14.0	16.0
23	---	---	---	21.0	18.0	20.0	18.5	17.5	18.0	16.0	14.5	15.0
24	---	---	---	20.5	19.0	19.5	21.0	18.0	19.5	18.0	16.0	16.5
25	---	---	---	21.0	18.5	19.5	21.0	17.5	19.5	---	---	---
26	---	---	---	20.5	19.0	19.5	20.5	17.0	19.0	---	---	---
27	---	---	---	21.0	19.0	20.0	21.0	18.0	19.5	---	---	---
28	---	---	---	22.0	19.5	21.0	22.5	19.0	21.0	---	---	---
29	---	---	---	22.0	20.5	21.0	21.5	20.0	21.0	---	---	---
30	---	---	---	23.0	20.5	21.5	22.0	19.5	21.0	---	---	---
31	---	---	---	24.0	21.5	22.5	23.0	20.5	22.0	---	---	---
MONTH	---	---	---	24.0	17.5	20.0	25.5	14.5	20.5	24.5	13.0	18.5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01473470 STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	22.0	23.0	24.5	22.0	23.0
2	---	---	---	---	---	---	24.5	22.0	23.5	25.0	22.5	23.5
3	---	---	---	---	---	---	23.5	22.0	23.0	25.5	23.0	23.5
4	---	---	---	---	---	---	23.0	21.5	22.5	24.5	22.5	23.0
5	---	---	---	---	---	---	23.0	20.0	21.5	22.5	18.5	20.5
6	---	---	---	---	---	---	20.5	19.5	20.0	19.5	16.5	18.0
7	---	---	---	---	---	---	24.5	20.0	22.0	19.0	16.0	17.5
8	---	---	---	---	---	---	25.0	22.0	23.5	19.0	16.0	17.5
9	---	---	---	---	---	---	25.0	22.5	24.0	21.0	17.5	19.0
10	---	---	---	---	---	---	25.5	23.0	24.0	21.5	19.0	20.0
11	---	---	---	---	---	---	24.0	21.5	23.0	21.5	20.0	20.5
12	---	---	---	---	---	---	22.5	20.5	21.0	22.5	20.0	21.5
13	---	---	---	---	---	---	20.5	19.5	20.0	23.0	20.5	22.0
14	---	---	---	---	---	---	19.5	19.0	19.5	21.0	18.5	20.0
15	---	---	---	---	---	---	22.0	19.0	20.5	21.0	18.5	20.0
16	---	---	---	---	---	---	23.5	20.0	21.5	18.5	16.5	17.5
17	---	---	---	---	---	---	21.5	19.0	20.5	18.0	15.0	16.0
18	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
19	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
20	---	---	---	---	---	---	20.5	17.5	18.5	---	---	---
21	---	---	---	23.0	18.5	20.5	20.0	16.5	18.0	---	---	---
22	---	---	---	24.0	20.0	21.5	20.0	16.5	18.0	---	---	---
23	---	---	---	22.5	20.0	21.0	19.5	18.0	19.0	---	---	---
24	---	---	---	21.0	20.0	20.5	20.5	18.5	19.5	---	---	---
25	---	---	---	21.0	19.5	20.5	22.0	18.5	20.0	---	---	---
26	---	---	---	20.5	19.5	20.0	22.0	18.5	20.0	---	---	---
27	---	---	---	21.0	20.5	20.5	21.5	19.0	20.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.0	20.0	21.0	---	---	---
29	---	---	---	22.0	20.5	21.0	21.5	20.5	21.0	---	---	---
30	---	---	---	23.5	21.0	22.0	23.0	20.0	21.0	---	---	---
31	---	---	---	24.5	21.5	23.0	24.0	21.0	22.0	---	---	---
MONTH	---	---	---	24.5	18.5	21.0	25.5	16.5	21.0	25.5	15.0	20.0

**01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.0	21.5	22.0	22.5	21.0	22.0
2	---	---	---	---	---	---	23.5	21.0	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.5	22.0
4	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
5	---	---	---	---	---	---	22.0	19.5	20.5	21.5	17.0	19.0
6	---	---	---	---	---	---	20.0	18.5	19.0	17.5	15.0	16.5
7	---	---	---	---	---	---	22.5	19.5	21.0	17.0	14.5	16.0
8	---	---	---	---	---	---	23.5	21.0	22.0	17.5	14.5	16.0
9	---	---	---	---	---	---	24.0	21.5	22.5	19.5	16.5	18.0
10	---	---	---	---	---	---	24.0	22.0	23.0	20.0	18.0	19.0
11	---	---	---	---	---	---	23.0	21.0	22.0	20.0	19.0	19.5
12	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.0	20.0
13	---	---	---	---	---	---	19.5	19.0	19.0	21.0	19.5	20.5
14	---	---	---	---	---	---	19.0	18.5	18.5	19.5	17.5	18.5
15	---	---	---	---	---	---	21.0	18.5	19.5	19.5	18.0	19.0
16	---	---	---	---	---	---	22.0	19.5	20.5	18.0	15.5	16.5
17	---	---	---	---	---	---	20.0	18.0	19.5	16.0	14.0	15.0
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
20	---	---	---	---	---	---	19.0	17.0	17.5	---	---	---
21	---	---	---	21.0	17.5	19.0	18.5	15.5	17.0	---	---	---
22	---	---	---	21.5	19.0	20.0	18.5	15.5	17.0	---	---	---
23	---	---	---	20.5	18.0	19.5	18.5	17.0	18.0	---	---	---
24	---	---	---	19.5	19.0	19.5	20.0	18.0	19.0	---	---	---
25	---	---	---	19.5	19.0	19.0	20.5	18.0	19.0	---	---	---
26	---	---	---	20.0	18.5	19.0	20.0	17.5	18.5	---	---	---
27	---	---	---	20.5	19.5	20.0	20.5	18.0	19.0	---	---	---
28	---	---	---	20.5	19.0	20.0	20.5	19.0	20.0	---	---	---
29	---	---	---	20.5	19.5	20.0	20.5	19.5	20.0	---	---	---
30	---	---	---	23.0	20.0	21.0	21.0	19.0	20.0	---	---	---
31	---	---	---	23.0	21.5	22.0	22.5	20.0	21.0	---	---	---
MONTH	---	---	---	23.0	17.5	20.0	24.0	15.5	20.0	23.0	14.0	19.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01475510 DARBY CREEK NEAR DARBY, PA (LAT 39 55 44N LONG 075 16 22W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	24.5	23.0	23.5	24.5	22.0	23.0
2	---	---	---	---	---	---	25.0	22.5	24.0	25.5	23.0	24.0
3	---	---	---	---	---	---	24.0	23.0	23.5	25.0	23.5	24.0
4	---	---	---	---	---	---	23.5	21.5	22.5	24.5	22.5	23.5
5	---	---	---	---	---	---	23.5	21.0	22.0	22.5	18.5	20.5
6	---	---	---	---	---	---	22.0	20.0	21.0	19.0	17.0	18.0
7	---	---	---	---	---	---	24.0	21.0	22.5	19.0	16.0	17.5
8	---	---	---	---	---	---	25.5	22.5	24.0	19.5	16.5	18.0
9	---	---	---	---	---	---	26.0	23.5	24.5	21.5	18.0	19.5
10	---	---	---	---	---	---	26.0	23.5	25.0	23.0	19.5	21.0
11	---	---	---	---	---	---	24.5	23.0	23.5	---	---	---
12	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
13	---	---	---	---	---	---	21.5	20.0	20.5	---	---	---
14	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
15	---	---	---	---	---	---	22.0	18.5	20.5	---	---	---
16	---	---	---	---	---	---	23.5	21.0	22.0	---	---	---
17	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
18	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
19	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
20	---	---	---	21.0	18.0	19.5	20.0	18.0	19.0	---	---	---
21	---	---	---	23.0	19.0	21.0	20.0	17.0	18.5	---	---	---
22	---	---	---	23.5	20.0	22.0	20.5	17.0	19.0	---	---	---
23	---	---	---	23.0	20.0	21.5	20.0	18.5	19.5	---	---	---
24	---	---	---	21.5	20.5	21.0	21.5	19.0	20.0	---	---	---
25	---	---	---	21.0	19.5	20.5	22.5	19.5	21.0	---	---	---
26	---	---	---	20.5	19.0	20.0	22.0	19.5	21.0	---	---	---
27	---	---	---	21.0	20.5	20.5	22.5	19.5	21.0	---	---	---
28	---	---	---	22.0	20.0	21.0	22.5	21.0	21.5	---	---	---
29	---	---	---	22.5	20.5	21.5	22.0	21.0	21.5	---	---	---
30	---	---	---	24.0	21.0	22.5	23.0	20.5	21.5	---	---	---
31	---	---	---	25.5	22.5	23.5	23.5	22.0	22.5	---	---	---
MONTH	---	---	---	25.5	18.0	21.0	26.0	17.0	21.5	25.5	16.0	21.0

**01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	24.5	23.0	24.0	24.0	23.0	23.5
2	---	---	---	---	---	---	25.0	23.5	24.0	24.5	23.5	24.0
3	---	---	---	---	---	---	24.5	23.5	23.5	24.0	23.5	24.0
4	---	---	---	---	---	---	23.5	22.0	23.0	24.0	23.0	23.5
5	---	---	---	---	---	---	23.0	21.5	22.5	23.0	19.0	21.0
6	---	---	---	---	---	---	22.0	20.5	21.0	19.0	17.5	18.5
7	---	---	---	---	---	---	23.5	21.0	22.5	19.0	17.0	18.0
8	---	---	---	---	---	---	25.0	23.0	24.0	19.0	17.5	18.0
9	---	---	---	---	---	---	26.0	24.0	25.0	21.0	18.5	19.5
10	---	---	---	---	---	---	26.0	24.0	25.0	21.5	20.0	21.0
11	---	---	---	---	---	---	24.5	23.0	24.0	---	---	---
12	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
13	---	---	---	---	---	---	21.5	20.5	21.0	---	---	---
14	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
15	---	---	---	---	---	---	21.5	19.0	20.5	---	---	---
16	---	---	---	---	---	---	23.0	21.5	22.0	---	---	---
17	---	---	---	---	---	---	22.0	20.5	21.0	---	---	---
18	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
19	---	---	---	---	---	---	20.0	18.5	19.5	---	---	---
20	---	---	---	21.0	18.5	19.5	20.0	19.0	19.5	---	---	---
21	---	---	---	22.0	19.5	21.0	19.5	18.0	19.0	---	---	---
22	---	---	---	22.5	20.5	21.5	20.0	18.0	19.0	---	---	---
23	---	---	---	22.0	20.5	21.5	20.0	19.0	19.5	---	---	---
24	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5	---	---	---
25	---	---	---	21.0	20.5	20.5	21.5	20.0	21.0	---	---	---
26	---	---	---	21.5	19.5	20.5	21.5	20.0	21.0	---	---	---
27	---	---	---	21.5	21.0	21.5	23.0	20.5	21.5	---	---	---
28	---	---	---	22.0	21.0	21.5	22.0	21.5	22.0	---	---	---
29	---	---	---	22.0	21.5	22.0	22.0	21.5	22.0	---	---	---
30	---	---	---	23.5	21.5	22.5	25.0	21.0	22.0	---	---	---
31	---	---	---	24.5	22.5	24.0	24.0	22.5	23.0	---	---	---
MONTH	---	---	---	24.5	18.5	21.5	26.0	18.0	22.0	24.5	17.0	21.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.0	21.5
2	---	---	---	---	---	---	---	---	---	23.0	21.5	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.5	22.0
4	---	---	---	---	---	---	---	---	---	22.0	21.5	21.5	22.5	21.0	21.5
5	---	---	---	---	---	---	---	---	---	21.5	19.5	20.5	21.0	16.5	18.5
6	---	---	---	---	---	---	---	---	---	20.0	18.5	19.0	17.0	15.0	16.0
7	---	---	---	---	---	---	---	---	---	22.0	19.5	21.0	16.5	14.0	15.5
8	---	---	---	---	---	---	---	---	---	23.0	21.0	22.0	16.5	14.0	15.5
9	---	---	---	---	---	---	---	---	---	23.5	22.0	22.5	19.0	16.5	17.5
10	---	---	---	---	---	---	---	---	---	23.5	22.0	22.5	20.0	18.0	18.5
11	---	---	---	---	---	---	---	---	---	22.5	21.0	21.5	20.0	19.0	19.5
12	---	---	---	---	---	---	---	---	---	21.0	19.5	20.5	21.0	19.0	20.0
13	---	---	---	---	---	---	---	---	---	19.5	18.5	19.0	21.0	19.0	20.0
14	---	---	---	---	---	---	---	---	---	18.5	18.0	18.5	19.0	17.0	18.0
15	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0	19.0	17.5	18.5
16	---	---	---	---	---	---	---	---	---	21.5	19.0	20.0	17.5	15.0	16.0
17	---	---	---	---	---	---	---	---	---	20.0	18.0	19.0	15.5	13.5	14.5
18	---	---	---	---	---	---	---	---	---	19.0	17.5	18.0	---	---	---
19	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
20	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5	---	---	---
21	---	---	---	20.0	17.0	18.5	17.5	15.5	16.5	---	---	---	---	---	---
22	---	---	---	20.5	18.5	19.5	17.5	15.5	16.5	---	---	---	---	---	---
23	---	---	---	20.0	18.0	19.0	18.0	17.0	17.5	---	---	---	---	---	---
24	---	---	---	19.5	18.5	19.0	19.0	17.5	18.5	---	---	---	---	---	---
25	---	---	---	19.0	18.0	18.5	20.0	17.5	18.5	---	---	---	---	---	---
26	---	---	---	19.0	18.0	18.5	19.5	17.0	18.5	---	---	---	---	---	---
27	---	---	---	19.5	19.0	19.5	19.5	17.5	18.5	---	---	---	---	---	---
28	---	---	---	21.0	19.0	20.0	20.5	19.0	19.5	---	---	---	---	---	---
29	---	---	---	21.0	19.5	20.5	20.0	19.5	20.0	---	---	---	---	---	---
30	---	---	---	22.0	20.0	21.0	20.5	19.5	20.0	---	---	---	---	---	---
31	---	---	---	22.5	21.0	21.5	21.5	20.0	21.0	---	---	---	---	---	---
MONTH	---	---	---	22.5	17.0	19.5	23.5	15.5	19.5	23.0	13.5	18.5			

**01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	23.5	22.5	23.0	23.5	22.0	22.5
2	---	---	---	---	---	---	---	---	---	24.0	22.5	23.0	23.5	22.0	23.0
3	---	---	---	---	---	---	---	---	---	23.0	22.5	23.0	23.5	22.0	23.0
4	---	---	---	---	---	---	---	---	---	22.5	22.0	22.0	23.5	22.0	22.5
5	---	---	---	---	---	---	---	---	---	22.5	20.5	21.5	22.0	17.5	19.5
6	---	---	---	---	---	---	---	---	---	20.5	19.0	20.0	18.0	16.0	17.0
7	---	---	---	---	---	---	---	---	---	23.0	20.0	21.5	17.5	15.0	16.0
8	---	---	---	---	---	---	---	---	---	24.0	21.5	23.0	17.5	15.0	16.5
9	---	---	---	---	---	---	---	---	---	25.0	22.5	23.5	19.5	17.0	18.0
10	---	---	---	---	---	---	---	---	---	25.0	23.0	24.0	20.5	18.5	19.5
11	---	---	---	---	---	---	---	---	---	23.5	22.0	22.5	---	---	---
12	---	---	---	---	---	---	---	---	---	22.5	19.0	21.0	---	---	---
13	---	---	---	---	---	---	---	---	---	19.5	19.0	19.5	---	---	---
14	---	---	---	---	---	---	---	---	---	19.0	18.5	19.0	---	---	---
15	---	---	---	---	---	---	---	---	---	20.5	18.5	19.5	---	---	---
16	---	---	---	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	---	---	---	21.0	19.0	20.0	---	---	---
18	---	---	---	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
19	---	---	---	---	---	---	---	---	---	19.5	17.5	18.5	---	---	---
20	---	---	---	20.0	18.0	19.0	19.0	17.5	18.0	---	---	---	---	---	---
21	---	---	---	21.0	18.0	19.5	19.0	16.0	17.5	---	---	---	---	---	---
22	---	---	---	22.0	19.5	20.5	19.0	16.0	17.5	---	---	---	---	---	---
23	---	---	---	21.5	19.0	20.0	19.0	17.5	18.5	---	---	---	---	---	---
24	---	---	---	20.5	19.5	20.0	20.0	18.0	19.0	---	---	---	---	---	---
25	---	---	---	20.0	19.0	19.5	21.0	18.5	19.5	---	---	---	---	---	---
26	---	---	---	19.5	18.5	19.0	20.5	18.0	19.0	---	---	---	---	---	---
27	---	---	---	20.0	19.0	19.5	20.5	18.5	19.5	---	---	---	---	---	---
28	---	---	---	21.5	19.5	20.5	21.0	19.5	20.0	---	---	---	---	---	---
29	---	---	---	21.5	20.5	21.0	21.0	20.0	20.5	---	---	---	---	---	---
30	---	---	---	22.5	21.0	21.5	21.5	20.0	20.5	---	---	---	---	---	---
31	---	---	---	23.5	21.5	22.5	22.5	21.0	21.5	---	---	---	---	---	---
MONTH	---	---	---	23.5	18.0	20.0	25.0	16.0	20.5	23.5	15.0	20.0			

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**CONTINUOUS WATER-TEMPERATURE DATA--Continued**

**01476950 WEST BRANCH CHESTER CREEK NEAR CHESTER HEIGHTS, PA (LAT 39 52 36N LONG 075 27 05W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	22.0	22.5	23.5	21.5	22.5
2	---	---	---	---	---	---	24.5	21.5	23.0	23.5	22.0	23.0
3	---	---	---	---	---	---	23.5	22.5	22.5	23.5	22.0	22.5
4	---	---	---	---	---	---	22.5	21.5	22.0	23.5	22.0	22.5
5	---	---	---	---	---	---	23.0	20.0	21.0	22.0	17.5	19.5
6	---	---	---	---	---	---	20.5	19.0	19.5	18.0	15.5	17.0
7	---	---	---	---	---	---	23.5	20.0	21.5	18.0	15.0	16.5
8	---	---	---	---	---	---	24.5	21.5	23.0	18.0	15.0	17.0
9	---	---	---	---	---	---	25.0	22.5	23.5	20.5	17.5	19.0
10	---	---	---	---	---	---	25.0	22.5	23.5	21.0	18.5	20.0
11	---	---	---	---	---	---	23.5	22.0	23.0	21.5	19.5	20.5
12	---	---	---	---	---	---	23.0	20.5	21.5	---	---	---
13	---	---	---	---	---	---	20.5	19.5	20.0	---	---	---
14	---	---	---	---	---	---	19.5	18.5	19.0	---	---	---
15	---	---	---	---	---	---	21.5	18.0	20.0	---	---	---
16	---	---	---	---	---	---	23.5	20.0	21.5	---	---	---
17	---	---	---	---	---	---	21.5	19.0	20.0	---	---	---
18	---	---	---	---	---	---	20.0	18.0	19.0	---	---	---
19	---	---	---	---	---	---	20.0	17.5	18.5	---	---	---
20	---	---	---	21.0	17.5	19.0	19.5	17.5	18.5	---	---	---
21	---	---	---	22.0	17.5	20.0	19.5	16.0	17.5	---	---	---
22	---	---	---	22.5	19.5	21.0	19.5	16.0	17.5	---	---	---
23	---	---	---	21.5	19.0	20.5	19.0	17.5	18.5	---	---	---
24	---	---	---	20.5	19.5	20.0	20.5	18.0	19.5	---	---	---
25	---	---	---	20.0	18.5	19.5	21.5	18.5	20.0	---	---	---
26	---	---	---	20.0	18.5	19.0	20.5	18.0	19.0	---	---	---
27	---	---	---	20.5	20.0	20.0	21.0	18.5	20.0	---	---	---
28	---	---	---	22.5	19.5	21.0	21.0	19.5	20.5	---	---	---
29	---	---	---	22.0	20.5	21.0	21.0	20.0	20.5	---	---	---
30	---	---	---	23.0	20.5	22.0	22.0	19.5	21.0	---	---	---
31	---	---	---	24.0	21.5	22.5	22.5	21.0	21.5	---	---	---
MONTH	---	---	---	24.0	17.5	20.5	25.0	16.0	20.5	23.5	15.0	20.0

**01478200 MIDDLE BRANCH WHITE CLAY CREEK NEAR LANDENBERG, PA (LAT 39 46 54N LONG 075 48 03W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	22.5	21.0	22.0	23.0	21.5	22.5
2	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	22.5	21.5	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	21.0	22.0
5	---	---	---	---	---	---	21.0	19.0	20.5	21.5	17.0	18.5
6	---	---	---	---	---	---	20.0	18.0	19.0	17.0	15.0	16.0
7	---	---	---	---	---	---	22.5	19.5	21.0	17.0	14.0	15.5
8	---	---	---	---	---	---	23.0	21.0	22.0	18.0	14.5	16.5
9	---	---	---	---	---	---	24.0	22.0	23.0	19.5	17.5	18.5
10	---	---	---	---	---	---	24.0	22.0	23.0	20.5	18.0	19.5
11	---	---	---	---	---	---	23.0	21.0	22.5	21.0	19.5	20.0
12	---	---	---	---	---	---	22.5	20.0	21.0	---	---	---
13	---	---	---	---	---	---	20.0	19.0	19.5	---	---	---
14	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
15	---	---	---	---	---	---	21.0	17.5	19.0	---	---	---
16	---	---	---	---	---	---	22.0	20.0	21.0	---	---	---
17	---	---	---	---	---	---	20.5	18.0	19.5	---	---	---
18	---	---	---	---	---	---	19.5	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
20	---	---	---	20.0	17.0	18.0	18.5	17.0	17.5	---	---	---
21	---	---	---	20.5	17.0	19.0	18.0	15.5	17.0	---	---	---
22	---	---	---	21.0	18.5	20.0	18.0	15.0	17.0	---	---	---
23	---	---	---	20.5	18.0	19.5	18.5	17.0	18.0	---	---	---
24	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	---	---	---
25	---	---	---	20.0	18.0	19.0	20.5	18.0	19.0	---	---	---
26	---	---	---	19.5	18.0	18.5	20.0	17.0	18.5	---	---	---
27	---	---	---	20.0	18.5	19.0	20.0	18.0	19.0	---	---	---
28	---	---	---	21.5	19.0	20.0	20.5	19.0	20.0	---	---	---
29	---	---	---	21.5	20.0	20.5	20.5	19.5	20.0	---	---	---
30	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5	---	---	---
31	---	---	---	22.5	21.0	21.5	22.5	20.5	21.5	---	---	---
MONTH	---	---	---	22.5	17.0	19.5	24.0	15.0	20.0	23.0	14.0	19.5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA (LAT 39 49 11N LONG 075 41 29W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	22.0	22.5	23.0	21.0	22.0
2	---	---	---	---	---	---	23.5	21.5	22.5	22.5	21.5	22.0
3	---	---	---	---	---	---	22.5	21.5	22.0	23.0	21.0	22.0
4	---	---	---	---	---	---	22.0	21.0	21.5	23.0	20.5	21.5
5	---	---	---	---	---	---	22.0	19.0	20.5	20.5	16.5	18.5
6	---	---	---	---	---	---	19.5	18.0	19.0	18.0	14.5	16.0
7	---	---	---	---	---	---	22.5	19.5	21.0	17.5	14.0	16.0
8	---	---	---	---	---	---	23.5	20.5	22.0	18.0	14.5	16.0
9	---	---	---	---	---	---	24.0	21.5	22.5	20.0	17.0	18.5
10	---	---	---	---	---	---	24.0	21.5	23.0	21.0	17.5	19.0
11	---	---	---	---	---	---	23.5	20.5	22.0	20.5	18.5	19.5
12	---	---	---	---	---	---	22.0	19.5	21.0	---	---	---
13	---	---	---	---	---	---	19.5	19.0	19.0	---	---	---
14	---	---	---	---	---	---	19.0	18.5	18.5	---	---	---
15	---	---	---	---	---	---	20.5	17.5	19.0	---	---	---
16	---	---	---	---	---	---	22.5	19.0	20.5	---	---	---
17	---	---	---	---	---	---	20.5	18.0	19.0	---	---	---
18	---	---	---	---	---	---	19.0	18.0	18.5	---	---	---
19	---	---	---	---	---	---	19.5	17.0	18.0	---	---	---
20	---	---	---	20.0	17.0	18.5	19.0	16.5	17.5	---	---	---
21	---	---	---	21.0	17.0	19.0	19.0	15.0	17.0	---	---	---
22	---	---	---	21.5	18.5	19.5	18.5	15.0	17.0	---	---	---
23	---	---	---	20.5	18.0	19.0	19.0	17.0	18.0	---	---	---
24	---	---	---	19.0	18.5	19.0	20.0	17.5	19.0	---	---	---
25	---	---	---	19.5	18.0	19.0	20.5	17.5	19.0	---	---	---
26	---	---	---	19.0	18.5	18.5	20.5	17.0	18.5	---	---	---
27	---	---	---	20.0	19.0	19.5	20.5	17.5	19.0	---	---	---
28	---	---	---	21.5	19.0	20.5	21.0	19.0	20.0	---	---	---
29	---	---	---	22.0	20.0	21.0	21.0	19.5	20.0	---	---	---
30	---	---	---	22.5	20.5	21.5	21.5	19.5	20.5	---	---	---
31	---	---	---	24.0	21.5	22.5	22.5	20.0	21.0	---	---	---
MONTH	---	---	---	24.0	17.0	20.0	24.0	15.0	20.0	23.0	14.0	19.0

**01480665 EAST BRANCH BRANDYWINE CREEK NEAR DORLAN, PA (LAT 40 03 08N LONG 075 43 28W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	24.0	21.5	22.5	22.5	20.5	21.5
2	---	---	---	---	---	---	24.5	21.0	22.5	23.5	21.0	22.0
3	---	---	---	---	---	---	23.0	21.0	22.0	23.0	21.0	22.0
4	---	---	---	---	---	---	22.0	20.5	21.0	23.5	20.5	21.5
5	---	---	---	---	---	---	22.5	18.5	20.5	20.5	16.0	18.5
6	---	---	---	---	---	---	19.5	17.5	18.5	18.0	13.5	16.0
7	---	---	---	---	---	---	23.0	19.0	21.0	17.5	13.0	15.5
8	---	---	---	---	---	---	24.5	20.5	22.5	18.0	14.0	16.0
9	---	---	---	---	---	---	24.5	21.5	23.0	20.5	16.0	18.5
10	---	---	---	---	---	---	24.5	21.5	23.0	21.0	17.5	19.0
11	---	---	---	---	---	---	23.0	20.5	21.5	21.0	18.0	19.5
12	---	---	---	---	---	---	22.0	19.0	20.5	22.0	19.0	20.5
13	---	---	---	---	---	---	19.5	18.5	19.0	21.0	18.5	20.0
14	---	---	---	---	---	---	18.5	18.0	18.5	19.5	16.0	18.0
15	---	---	---	---	---	---	21.5	17.0	19.0	19.0	16.5	18.0
16	---	---	---	---	---	---	23.0	19.0	21.0	17.0	14.5	16.0
17	---	---	---	---	---	---	21.0	17.5	19.5	16.5	12.5	14.5
18	---	---	---	---	---	---	19.0	17.0	18.0	16.5	13.0	15.0
19	---	---	---	---	---	---	20.5	16.0	18.0	16.0	14.5	15.5
20	---	---	---	---	---	---	19.5	16.0	17.5	18.5	15.0	17.0
21	---	---	---	21.5	16.5	19.0	19.0	14.5	16.5	19.5	16.0	17.5
22	---	---	---	22.0	18.0	20.0	18.5	14.5	16.5	17.0	14.0	15.5
23	---	---	---	21.5	17.0	19.0	18.0	16.5	17.5	15.5	14.5	15.0
24	---	---	---	19.0	18.0	18.5	20.0	17.5	18.5	18.0	15.5	16.5
25	---	---	---	20.0	17.0	18.5	21.5	17.0	19.0	---	---	---
26	---	---	---	18.5	18.0	18.0	21.0	16.5	18.5	---	---	---
27	---	---	---	19.5	18.0	18.5	20.0	17.0	19.0	---	---	---
28	---	---	---	23.0	18.5	20.5	22.0	18.5	19.5	---	---	---
29	---	---	---	22.0	20.0	20.5	20.5	19.0	19.5	---	---	---
30	---	---	---	23.0	20.0	21.5	21.5	19.0	20.0	---	---	---
31	---	---	---	24.5	20.5	22.0	22.0	19.5	20.5	---	---	---
MONTH	---	---	---	24.5	16.5	19.5	24.5	14.5	20.0	23.5	12.5	18.0



**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

CONTINUOUS WATER-TEMPERATURE DATA--Continued

**01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	22.0	20.5	21.0	21.0	19.5	20.5
2	---	---	---	---	---	---	22.0	20.0	21.0	21.0	20.0	20.5
3	---	---	---	---	---	---	21.5	20.0	20.5	21.5	19.5	20.5
4	---	---	---	---	---	---	22.0	20.0	21.0	21.5	20.0	20.5
5	---	---	---	---	---	---	20.5	18.0	19.0	20.0	16.0	17.5
6	---	---	---	---	---	---	18.5	17.0	18.0	17.0	14.0	15.5
7	---	---	---	---	---	---	21.5	18.5	20.0	16.5	14.0	15.5
8	---	---	---	---	---	---	22.0	19.5	20.5	17.5	14.5	16.0
9	---	---	---	---	---	---	22.0	20.0	21.0	19.0	16.5	17.5
10	---	---	---	---	---	---	22.0	20.0	21.0	19.5	17.5	18.5
11	---	---	---	---	---	---	21.5	19.0	20.5	19.5	18.0	18.5
12	---	---	---	---	---	---	20.0	18.5	19.5	20.0	18.0	19.5
13	---	---	---	---	---	---	18.5	18.0	18.0	21.0	18.5	20.0
14	---	---	---	---	---	---	18.5	17.5	17.5	18.5	16.5	17.5
15	---	---	---	---	---	---	20.0	17.0	18.5	19.5	17.0	18.5
16	---	---	---	---	---	---	21.0	18.5	19.5	17.0	14.5	15.5
17	---	---	---	---	---	---	19.0	17.5	18.0	16.0	13.0	14.5
18	---	---	---	---	---	---	18.0	17.0	17.0	16.5	14.0	15.0
19	---	---	---	---	---	---	18.5	16.0	17.0	---	---	---
20	---	---	---	---	---	---	18.0	16.0	17.0	---	---	---
21	---	---	---	19.5	16.5	18.0	17.5	14.5	16.0	---	---	---
22	---	---	---	20.0	17.5	18.5	18.0	14.5	16.5	---	---	---
23	---	---	---	19.0	16.5	18.0	17.5	16.5	17.0	---	---	---
24	---	---	---	18.0	17.5	17.5	18.5	17.0	18.0	---	---	---
25	---	---	---	19.0	17.0	18.0	19.0	17.0	18.0	---	---	---
26	---	---	---	19.0	17.5	18.0	19.0	16.5	18.0	---	---	---
27	---	---	---	19.0	18.5	18.5	19.0	17.0	18.0	---	---	---
28	---	---	---	20.5	18.0	19.5	20.0	18.5	19.0	---	---	---
29	---	---	---	20.0	19.0	19.5	19.0	18.0	19.0	---	---	---
30	---	---	---	21.0	19.0	19.5	20.0	18.0	19.0	---	---	---
31	---	---	---	23.5	19.5	21.0	20.5	19.0	20.0	---	---	---
MONTH	---	---	---	23.5	16.5	18.5	22.0	14.5	19.0	21.5	13.0	18.0

**01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)**

TEMPERATURE, WATER (DEG. C), JULY 17 TO SEPTEMBER 30

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	23.5	22.0	23.0	22.5	20.5	21.5
2	---	---	---	---	---	---	23.0	21.0	22.0	22.5	21.0	21.5
3	---	---	---	---	---	---	23.0	21.5	22.0	22.5	20.5	21.5
4	---	---	---	---	---	---	22.0	21.0	21.5	22.5	20.5	21.5
5	---	---	---	---	---	---	22.0	19.5	21.0	20.5	16.5	18.5
6	---	---	---	---	---	---	20.0	18.5	19.5	17.5	14.5	16.0
7	---	---	---	---	---	---	22.5	20.0	21.0	17.0	13.5	15.5
8	---	---	---	---	---	---	23.5	20.5	22.0	17.5	14.0	16.0
9	---	---	---	---	---	---	23.0	21.0	22.0	19.5	16.0	18.0
10	---	---	---	---	---	---	23.5	21.0	22.0	20.0	17.0	18.5
11	---	---	---	---	---	---	22.5	20.0	21.0	20.0	18.0	19.0
12	---	---	---	---	---	---	21.5	17.0	20.0	21.5	19.0	20.0
13	---	---	---	---	---	---	18.5	18.0	18.0	21.5	19.0	20.5
14	---	---	---	---	---	---	19.5	18.0	18.5	20.0	17.5	19.0
15	---	---	---	---	---	---	20.5	18.0	19.5	19.5	18.0	19.0
16	---	---	---	---	---	---	22.0	19.0	20.5	18.0	15.5	17.0
17	---	---	---	---	---	---	20.0	18.0	19.0	17.0	14.0	15.5
18	---	---	---	---	---	---	18.5	17.0	18.0	17.5	14.5	16.0
19	---	---	---	---	---	---	19.0	16.5	17.5	---	---	---
20	---	---	---	---	---	---	18.5	16.0	17.0	---	---	---
21	---	---	---	20.5	16.5	18.5	18.0	14.5	16.5	---	---	---
22	---	---	---	21.0	17.5	19.5	18.0	14.5	16.5	---	---	---
23	---	---	---	20.5	17.0	19.0	18.0	16.0	17.0	---	---	---
24	---	---	---	19.0	18.0	18.5	19.5	17.0	18.0	---	---	---
25	---	---	---	20.5	18.0	19.5	20.0	17.0	18.5	---	---	---
26	---	---	---	20.0	18.5	19.5	19.5	16.0	18.0	---	---	---
27	---	---	---	20.0	19.0	19.5	19.5	17.0	18.5	---	---	---
28	---	---	---	21.5	19.5	20.5	20.0	18.5	19.0	---	---	---
29	---	---	---	21.0	19.5	20.5	20.5	18.5	19.5	---	---	---
30	---	---	---	22.0	19.5	20.5	20.5	19.0	19.5	---	---	---
31	---	---	---	23.5	20.0	21.5	22.0	19.5	21.0	---	---	---
MONTH	---	---	---	23.5	16.5	19.5	23.5	14.5	19.5	22.5	13.5	18.5

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
 DELAWARE RIVER BASIN NAWQA PROJECT

SURFACE WATER SYNOPTIC SURVEY

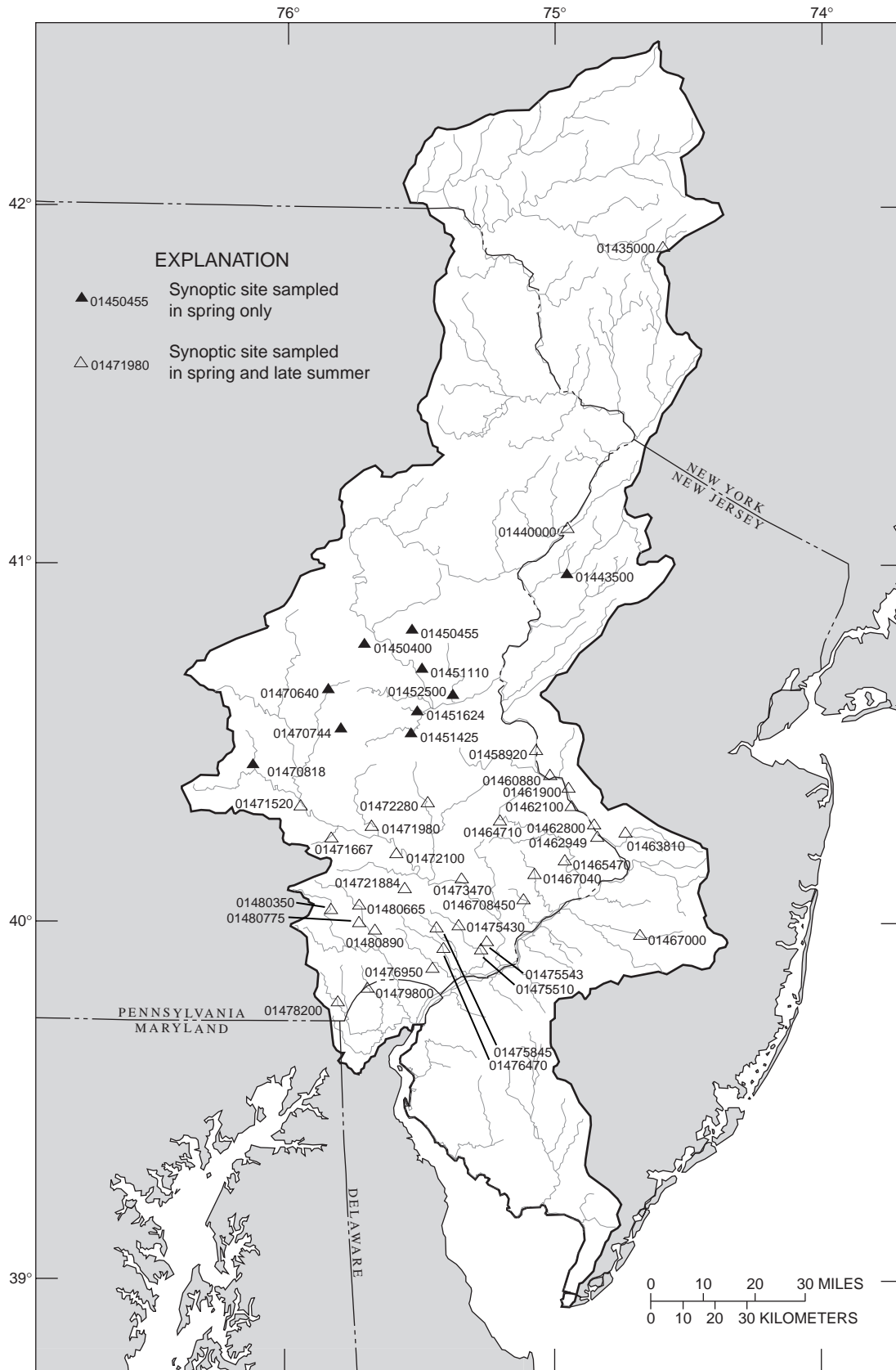


Figure 16.--Location of Delaware River Basin National Water-Quality Assessment Program synoptic sites.

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

Miscellaneous water-quality sites are locations where non-routine water-quality data are collected during one year for use in hydrologic analyses. Data are collected either intermittently or systematically for a limited period of time. Water-quality data presented in this table were collected by the Delaware River Basin National Water-Quality Assessment Program (NAWQA) as part of two basin-wide synoptic surveys of nutrients, pesticides, major ions, and organic carbon, during periods of base flow; the first survey was May 15 through June 27, 2000, and the second was September 11 through October 16, 2000. Selected samples were analyzed for pesticides on schedule 2001 (listed with minimum reporting levels on page 463); only pesticides identified by the analyses in one or more samples are listed in the water-quality tables. Bed sediment and fish community data are available for some of these sites, and presented on pages 467-481.

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) (MG/L) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
		01435000	NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)							
JUN 2000										
26...	1420	ENVIRONMENTAL	247	717	108	9.8	6.7	24	27.5	17.0
OCT 16...	1040	ENVIRONMENTAL	60	729	93	10.0	6.4	27	9.5	10.0
		01440000	FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)							
MAY 2000										
24...	1010	ENVIRONMENTAL	157	739	154	15.6	7.7	163	25.0	13.5
OCT 05...	1150	ENVIRONMENTAL	28	717	112	10.9	7.6	251	14.5	13.5
		01443500	PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)							
MAY 2000										
31...	0900	ENVIRONMENTAL	130	758	99	9.9	8.0	400	13.5	15.0
		01450400	LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)							
MAY 2000										
31...	1800	ENVIRONMENTAL	91	750	109	10.7	7.5	78	22.0	16.0
		01450455	BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)							
MAY 2000										
31...	1449	FIELD BLANK	--	--	--	--	--	--	--	--
31...	1450	ENVIRONMENTAL	68	752	118	11.9	7.4	85	23.5	14.5
		01451110	HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)							
MAY 2000										
31...	1030	ENVIRONMENTAL	63	763	108	11.6	7.7	196	14.5	12.5
		01451425	LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)							
MAY 2000										
31...	1510	ENVIRONMENTAL	45	761	126	12.6	8.5	392	24.5	15.0
		01451624	CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)							
MAY 2000										
31...	1310	ENVIRONMENTAL	20	765	118	11.9	8.3	547	19.5	15.0
		01452500	MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)							
MAY 2000										
31...	0750	ENVIRONMENTAL	67	765	103	11.0	8.0	522	11.0	12.5
		01458920	TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)							
MAY 2000										
18...	1330	ENVIRONMENTAL	5.2	761	127	11.6	8.7	220	27.5	19.5
SEP 11...	0910	ENVIRONMENTAL	.68	767	118	10.6	7.9	311	22.0	21.0

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
DELAWARE RIVER BASIN NAWQA PROJECT**

**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
	01435000 NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)										
JUN 2000 26...	7	2.08	.53	.2	1.0	2	3	--	1.5	<.1	2.1
OCT 16...	9	2.52	.64	.3	1.1	4	4	--	1.5	E.1	2.5
	01440000 FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)										
MAY 2000 24...	59	17.4	3.88	.5	7.9	46	56	--	13.0	<.1	4.5
OCT 05...	97	27.9	6.52	.7	10.2	85	103	--	16.8	<.2	3.2
	01443500 PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)										
MAY 2000 31...	150	37.9	12.9	1.1	20.1	122	149	--	38.9	<.1	4.7
	01450400 LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)										
MAY 2000 31...	27	6.98	2.25	.5	2.6	16	19	--	4.6	<.1	5.1
	01450455 BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)										
MAY 2000 31...	--	<.02	<.01	<.2	<.1	--	--	--	<.3	<.1	<.1
31...	28	7.28	2.32	.5	3.3	16	19	--	5.6	<.1	5.6
	01451110 HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)										
MAY 2000 31...	76	22.0	5.17	1.1	5.9	38	47	--	11.1	<.1	6.4
	01451425 LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)										
MAY 2000 31...	180	44.7	16.3	1.7	7.4	127	145	7	15.8	<.1	8.8
	01451624 CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)										
MAY 2000 31...	240	57.2	23.0	2.1	18.4	E210	E256	--	38.5	<.1	7.7
	01452500 MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)										
MAY 2000 31...	230	57.4	20.0	4.9	11.4	145	177	--	22.3	<.1	7.3
	01458920 TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)										
MAY 2000 18...	82	19.1	8.32	1.0	8.5	59	72	--	11.6	<.1	5.6
SEP 11...	120	28.9	11.6	1.3	11.4	71	87	--	13.2	<.1	3.6

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
	01435000	NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)									
JUN 2000 26...	4.7	<.020	E.10	E.10	--	<.050	--	<.010	<.006	<.010	<.008
OCT 16...	4.9	<.041	E.10	.10	--	.052	.14	<.006	<.006	<.018	E.002
	01440000	FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)									
MAY 2000 24...	10.2	<.020	.14	.20	.24	.104	.30	<.010	.007	<.010	.014
OCT 05...	13.5	<.020	.12	.14	--	<.050	--	<.010	E.005	<.010	.010
	01443500	PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)									
MAY 2000 31...	15.3	<.020	.39	.44	.87	.482	.92	<.010	.020	.011	.042
	01450400	LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)									
MAY 2000 31...	7.5	<.020	<.10	.19	--	1.13	1.3	<.010	.007	.010	.013
	01450455	BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)									
MAY 2000 31...	<.3	<.020	<.10	<.10	--	<.050	--	<.010	<.006	<.010	<.008
31...	8.1	<.020	E.10	E.10	--	1.22	--	<.010	.006	<.010	E.006
	01451110	HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)									
MAY 2000 31...	21.2	.020	.11	.19	3.6	3.46	3.6	<.010	.007	<.010	--
	01451425	LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)									
MAY 2000 31...	19.8	<.020	<.10	.15	--	5.54	5.7	.012	.009	.013	--
	01451624	CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)									
MAY 2000 31...	31.2	.023	<.10	.14	--	4.63	4.8	.015	.006	.011	--
	01452500	MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)									
MAY 2000 31...	69.2	.026	.10	.29	5.0	4.90	5.2	.013	.025	.026	--
	01458920	TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)									
MAY 2000 18...	25.4	<.020	.26	.31	.38	.116	.43	<.010	.011	<.010	--
SEP 11...	51.5	<.020	.20	.23	--	<.050	--	<.010	.012	<.010	.016

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DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L) AS B (01020)	IRON, DIS- SOLVED (µG/L) AS FE (01046)	MANGA- NESE, DIS- SOLVED (µG/L) AS MN (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L) AS C (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	ACETO- CHLOR, WATER FLTRD REC (µG/L) (49260)
	01435000		NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)								
JUN 2000 26...	18	14	<1	<16	E10	5	1.8	<.2	3.8	6	<.002
OCT 16...	20	16	<1	<13	<10	E2	1.0	<.2	.16	1	<.004
	01440000		FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)								
MAY 2000 24...	100	86	4	E8	140	10	3.4	<.2	1.4	3	<.002
OCT 05...	139	129	1	E11	30	10	1.9	<.2	.19	2	<.004
	01443500		PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)								
MAY 2000 31...	226	206	7	E12	80	16	4.9	--	2.4	7	<.002
	01450400		LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)								
MAY 2000 31...	57	44	6	E8	60	12	1.2	<.2	1.0	4	.024
	01450455		BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)								
MAY 2000 31...	<10	--	--	<16	<10	<2	--	--	--	--	--
31...	52	48	2	<16	30	5	1.1	<.2	.28	2	E.003
	01451110		HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)								
MAY 2000 31...	121	111	5	E14	30	4	1.6	<.2	.27	2	<.002
	01451425		LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)								
MAY 2000 31...	229	218	14	24	E10	8	.93	<.2	.58	5	.012
	01451624		CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)								
MAY 2000 31...	311	--	8	E10	<10	6	.68	<.2	.25	5	<.002
	01452500		MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)								
MAY 2000 31...	320	301	13	17	E10	7	1.0	.3	1.6	9	<.002
	01458920		TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)								
MAY 2000 18...	130	115	1	62	10	3	4.0	<.2	.02	1	<.002
SEP 11...	171	164	6	136	<10	5	2.6	<.2	.00	3	<.002

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DATE	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED REC (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	DI- AZINON, DIS- SOLVED (µG/L) (39572)
	01435000	NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)									
JUN 2000 26...	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.003	<.002
OCT 16...	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
	01440000	FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)									
MAY 2000 24...	<.002	.005	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006	<.002
OCT 05...	<.002	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
	01443500	PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)									
MAY 2000 31...	<.002	.011	E.001	<.002	<.003	<.003	<.004	<.004	<.002	E.010	<.002
	01450400	LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)									
MAY 2000 31...	<.002	.122	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.045	<.002
	01450455	BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)									
MAY 2000 31...	--	--	--	--	--	--	--	--	--	--	--
31...	.007	.080	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.031	E.001
	01451110	HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)									
MAY 2000 31...	<.002	.235	<.002	<.002	<.003	<.003	<.004	.005	<.002	E.075	<.002
	01451425	LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)									
MAY 2000 31...	<.002	1.03	<.002	<.002	<.003	<.003	.006	<.004	E.002	E.27	<.002
	01451624	CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)									
MAY 2000 31...	<.002	.231	<.002	<.002	<.003	<.003	.006	.024	<.002	E.24	<.002
	01452500	MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)									
MAY 2000 31...	<.002	.288	<.002	<.002	<.003	<.003	<.004	.015	<.002	E.16	<.002
	01458920	TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)									
MAY 2000 18...	<.002	.022	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.022	<.002
SEP 11...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002

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DATE	DI- ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (82668)	FONOFOS WATER DISS REC (04095)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (82684)	P, P' DDE DISSOLV (µG/L) (34653)
	01435000	NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)									
JUN 2000 26...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003	<.006
OCT 16...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007	<.002
	01440000	FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)									
MAY 2000 24...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.001	<.004	<.003	<.006
OCT 05...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	<.007	E.002
	01443500	PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.006	<.004	<.003	<.006
	01450400	LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.042	<.004	<.003	<.006
	01450455	BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)									
MAY 2000 31...	--	--	--	--	--	--	--	--	--	--	--
31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003	<.006
	01451110	HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.064	<.004	<.003	<.006
	01451425	LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.434	<.004	<.003	<.006
	01451624	CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.057	<.004	<.003	<.006
	01452500	MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)									
MAY 2000 31...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.051	<.004	<.003	<.006
	01458920	TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)									
MAY 2000 18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003	<.006
SEP 11...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006



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DATE	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
	01435000	NEVERSINK RIVER NEAR CLARYVILLE NY (LAT 41 53 24N LONG 074 35 25W)									
JUN 2000											
26...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
OCT											
16...	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	--	<.002	<.009
	01440000	FLAT BROOK NEAR FLATBROOKVILLE NJ (LAT 41 06 24N LONG 074 57 09W)									
MAY 2000											
24...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
OCT											
05...	<.010	<.015	<.004	<.010	<.011	<.011	<.016	<.034	--	<.002	<.009
	01443500	PAULINS KILL AT BLAIRSTOWN NJ (LAT 40 58 51N LONG 074 57 14W)									
MAY 2000											
31...	<.004	E.008	<.003	<.007	<.004	E.002	<.010	<.007	--	<.001	<.002
	01450400	LIZARD CREEK AT ASHFIELD, PA (LAT 40 46 56N LONG 075 42 41W)									
MAY 2000											
31...	.007	<.018	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
	01450455	BUCKWHA CREEK AT LITTLE GAP, PA. (LAT 40 49 21N LONG 075 32 04W)									
MAY 2000											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<.004	<.018	<.003	<.007	<.004	E.002	<.010	<.007	--	<.001	<.002
	01451110	HOKENDAUQUA CREEK NR NORTHAMPTON, PA. (LAT 40 42 50N LONG 075 29 45W)									
MAY 2000											
31...	<.004	E.010	<.003	<.007	<.004	.041	<.010	<.007	--	<.001	<.002
	01451425	LITTLE LEHIGH CREEK NEAR EAST TEXAS, PA. (LAT 40 31 59N LONG 075 32 09W)									
MAY 2000											
31...	.022	<.018	<.003	<.007	<.004	.014	<.010	<.007	E.002	<.001	<.002
	01451624	CEDAR CREEK AB LAKE MUHLENBERG AT ALLENTOWN, PA (LAT 40 35 39N LONG 075 30 44W)									
MAY 2000											
31...	.012	.024	<.003	<.007	<.004	.022	E.003	<.007	--	<.001	<.002
	01452500	MONOCACY CREEK AT BETHLEHEM, PA. (LAT 40 38 28N LONG 075 22 47W)									
MAY 2000											
31...	.012	E.016	<.003	<.007	<.004	.021	<.010	<.007	--	<.001	<.002
	01458920	TINICUM CREEK NEAR SMITHTOWN, PA (LAT 40 29 09N LONG 075 04 10W)									
MAY 2000											
18...	<.004	E.006	<.003	<.007	<.004	.007	<.010	<.007	--	<.001	<.002
SEP											
11...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002

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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 (µS/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)									
MAY 2000 30...	1340	ENVIRONMENTAL	7.6	769	--	--	7.5	168	19.0
SEP 11...	1100	ENVIRONMENTAL	1.2	767	105	9.6	7.7	199	22.5
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)									
MAY 2000 30...	1110	ENVIRONMENTAL	9.0	760	106	10.8	7.6	247	15.0
SEP 11...	1410	ENVIRONMENTAL	2.0	767	145	12.7	8.2	314	24.0
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)									
MAY 2000 18...	1640	ENVIRONMENTAL	3.1	762	100	9.2	7.9	263	27.5
SEP 12...	0800	ENVIRONMENTAL	1.3	764	80	7.2	7.6	290	22.0
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)									
MAY 2000 30...	0830	ENVIRONMENTAL	8.2	770	101	10.7	7.4	309	14.0
SEP 12...	1440	ENVIRONMENTAL	1.8	766	144	12.2	8.5	304	28.5
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)									
JUN 2000 05...	1240	ENVIRONMENTAL	8.5	767	109	10.4	7.7	296	22.0
SEP 12...	1030	ENVIRONMENTAL	2.0	766	99	9.0	7.8	319	26.5
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)									
JUN 2000 05...	1440	ENVIRONMENTAL	4.2	767	96	9.2	7.6	357	21.0
SEP 12...	1220	ENVIRONMENTAL	1.8	763	74	6.6	7.8	371	28.0
01464710 PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)									
MAY 2000 17...	1130	ENVIRONMENTAL	5.6	756	100	9.2	7.7	300	24.0
SEP 25...	1010	ENVIRONMENTAL	7.9	758	75	7.1	7.6	229	13.0
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)									
MAY 2000 30...	0850	ENVIRONMENTAL	20	--	--	--	7.6	260	16.5
SEP 18...	0840	ENVIRONMENTAL	11	766	88	8.7	6.7	242	20.5

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DATE	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)											
MAY 2000											
30...	14.5	52	12.8	5.00	2.0	8.7	34	41	--	9.7	<.1
SEP											
11...	20.5	65	16.1	5.98	2.8	10.2	47	58	--	11.2	.1
01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)											
MAY 2000											
30...	14.5	82	20.3	7.50	2.0	11.8	--	--	--	18.6	<.1
SEP											
11...	22.5	110	28.2	9.42	2.5	14.7	--	--	--	22.2	.1
01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)											
MAY 2000											
18...	19.5	97	22.7	9.85	1.7	10.5	76	93	--	16.4	<.1
SEP											
12...	20.5	110	27.3	11.2	2.2	11.1	89	109	--	14.3	<.1
01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)											
MAY 2000											
30...	13.5	87	20.5	8.79	2.2	19.6	53	65	--	39.1	<.1
SEP											
12...	24.0	93	22.4	9.05	2.6	19.7	68	79	2	32.0	<.1
01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)											
JUN 2000											
05...	17.5	97	25.5	8.01	1.8	16.0	56	68	--	30.5	<.1
SEP											
12...	20.5	110	29.3	8.80	1.8	16.1	63	77	--	31.2	<.1
01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)											
JUN 2000											
05...	17.5	110	29.0	9.31	2.8	23.0	86	105	--	40.7	.1
SEP											
12...	21.5	120	33.7	9.84	3.5	21.4	90	110	--	36.0	.2
01464710 PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)											
MAY 2000											
17...	19.0	91	22.1	8.60	2.2	16.2	64	78	--	30.6	<.1
SEP											
25...	17.5	75	18.7	6.80	3.0	11.9	56	68	--	19.3	<.1
01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)											
MAY 2000											
30...	15.0	87	22.6	7.39	2.0	14.0	51	62	--	27.3	<.1
SEP											
18...	16.0	72	18.8	6.15	2.6	11.4	50	60	--	19.5	<.1

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DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	
	01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)										
MAY 2000 30...	8.5	20.0	<.020	.27	.27	1.4	1.13	1.4	<.010	.023	.014
SEP 11...	4.2	19.7	<.020	.21	.44	1.6	1.43	1.9	<.010	.028	.016
	01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)										
MAY 2000 30...	12.5	23.5	<.020	.17	.18	1.8	1.63	1.8	<.010	.036	.027
SEP 11...	6.8	37.3	<.020	.13	.24	.29	.161	.40	<.010	.018	.010
	01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)										
MAY 2000 18...	11.8	22.2	.038	.29	.41	.94	.649	1.1	.017	.044	.042
SEP 12...	11.0	24.0	<.020	.19	.24	.63	.442	.68	<.010	.055	.040
	01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)										
MAY 2000 30...	11.2	23.1	<.020	.18	.22	1.6	1.37	1.6	<.010	.046	.032
SEP 12...	5.4	22.0	<.020	.23	.23	.38	.147	.38	<.010	.055	.040
	01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA (LAT 40 14 38N LONG 074 50 31W)										
JUN 2000 05...	16.1	22.9	.058	.17	.34	3.1	2.96	3.3	.019	.027	.020
SEP 12...	16.2	23.1	<.020	.19	.21	3.4	3.18	3.4	.010	.037	.027
	01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)										
JUN 2000 05...	14.9	26.0	.085	.31	.46	1.3	.954	1.4	.051	.023	.012
SEP 12...	11.7	27.0	.024	.25	.32	1.0	.756	1.1	.013	.036	.018
	01464710 PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)										
MAY 2000 17...	7.2	19.6	.121	.57	.85	1.4	.874	1.7	.083	.043	.019
SEP 25...	7.8	18.8	.039	.39	.90	.75	.361	1.3	<.010	.029	.018
	01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)										
MAY 2000 30...	7.3	23.0	.151	.44	.48	1.6	1.14	1.6	.060	.009	<.010
SEP 18...	11.4	16.2	.284	.51	.58	1.9	1.35	1.9	.119	.035	.023

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DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC PARTIC- ULATE SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
	01460880	LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)									
MAY 2000 30...	--	101	92	--	49	60	3	4.0	<.2	.06	3
SEP 11...	.063	115	105	1	73	E10	3	2.7	<.2	.01	2
	01461900	ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)									
MAY 2000 30...	--	145	137	1	34	10	6	2.3	<.2	.01	M
SEP 11...	.032	179	168	2	57	<10	5	1.6	<.2	.06	11
	01462100	PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)									
MAY 2000 18...	--	154	144	6	46	50	40	3.0	<.2	.04	4
SEP 12...	.064	162	157	5	58	10	11	2.4	<.2	.01	4
	01462800	JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)									
MAY 2000 30...	--	175	163	3	38	20	7	2.8	<.2	.04	2
SEP 12...	.058	172	155	1	55	<10	5	2.5	<.2	.03	5
	01462949	BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA. (LAT 40 14 38N LONG 074 50 31W)									
JUN 2000 05...	.073	183	168	19	22	70	110	2.0	.6	.43	19
SEP 12...	.047	187	178	2	17	20	24	1.6	<.2	.01	3
	01463810	SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)									
JUN 2000 05...	.059	211	202	5	66	130	70	3.4	.3	.05	4
SEP 12...	.070	211	201	3	94	60	55	2.9	<.2	.03	6
	01464710	PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)									
MAY 2000 17...	.129	167	149	52	19	70	186	4.2	.6	.36	24
SEP 25...	.155	139	122	71	21	50	99	4.5	.9	.65	30
	01465470	MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)									
MAY 2000 30...	.033	149	140	8	E15	50	159	2.3	.3	.32	6
SEP 18...	.074	142	122	2	E13	90	173	2.9	<.2	.06	2

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DATE	ACETO- CHLOR, WATER, FLTRD REC (µG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)
	01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)										
MAY 2000 30...	.023	.008	.292	<.002	<.002	<.003	<.040	<.004	<.004	<.002	E.054
SEP 11...	<.002	<.002	.023	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.040
	01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)										
MAY 2000 30...	.050	E.003	.695	<.002	<.002	<.003	<.003	<.004	.011	<.002	E.13
SEP 11...	<.002	<.002	.038	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.078
	01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)										
MAY 2000 18...	.017	<.002	.096	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.045
SEP 12...	<.002	<.002	.026	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.049
	01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)										
MAY 2000 30...	E.003	<.002	.589	<.002	<.002	<.003	<.015	<.004	<.004	<.002	E.084
SEP 12...	<.002	<.002	.027	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.042
	01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA. (LAT 40 14 38N LONG 074 50 31W)										
JUN 2000 05...	<.002	<.002	.023	<.002	<.002	E.004	<.003	<.004	<.004	<.002	E.041
SEP 12...	<.002	<.002	.015	<.002	<.002	<.003	<.003	E.001	<.004	<.002	E.038
	01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)										
JUN 2000 05...	<.004	<.002	.034	<.002	<.002	E.006	<.003	E.003	<.004	<.002	E.024
SEP 12...	<.002	<.002	<.007	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.007
	01464710 PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)										
MAY 2000 17...	.025	<.002	.154	<.002	<.002	E.025	<.003	<.004	.484	<.002	E.052
SEP 25...	<.002	<.002	.015	<.002	<.002	E.007	<.003	<.004	.011	E.002	E.019
	01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)										
MAY 2000 30...	<.002	<.002	.031	<.002	<.002	E.011	<.003	<.004	<.004	<.002	E.028
SEP 18...	<.002	<.002	.016	E.002	<.002	<.003	<.003	<.004	<.004	<.002	E.014

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DATE	DI- AZINON, DIS- SOLVED (µG/L) (39572)	DI- ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)
	01460880 LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)										
MAY 2000 30...	<.002	<.001	<.002	<.003	<.004	.056	<.005	<.001	.175	.008	<.003
SEP 11...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003
	01461900 ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)										
MAY 2000 30...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.068	<.004	<.003
SEP 11...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	E.002	<.004	<.003
	01462100 PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)										
MAY 2000 18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.014	<.004	<.003
SEP 12...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003
	01462800 JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)										
MAY 2000 30...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.045	<.004	<.003
SEP 12...	<.002	<.001	<.002	<.003	<.004	<.002	E.004	<.001	E.003	<.004	<.003
	01462949 BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA. (LAT 40 14 38N LONG 074 50 31W)										
JUN 2000 05...	E.003	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.030	<.004	<.003
SEP 12...	.005	<.001	<.002	<.003	<.004	<.002	E.005	<.001	.022	<.004	<.003
	01463810 SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)										
JUN 2000 05...	.020	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003
SEP 12...	.018	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.026	<.004	<.003
	01464710 PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)										
MAY 2000 17...	.015	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.088	<.004	<.003
SEP 25...	.034	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003
	01465470 MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)										
MAY 2000 30...	.010	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.020	<.004	<.003
SEP 18...	.072	<.005	<.002	<.003	<.004	<.002	<.005	<.001	.031	<.004	<.075

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DATE	P,P' DDE DISSOLV (µG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
		01460880	LOCKATONG C AT RAVEN ROCK NJ (LAT 40 24 58N LONG 075 01 05W)								
MAY 2000											
30...	<.006	<.004	E.006	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.005	<.003	<.007	<.004	.005	<.010	<.007	<.001	<.002
		01461900	ALEXAUKEN C NR LAMBERTVILLE NJ (LAT 40 22 51N LONG 074 56 54W)								
MAY 2000											
30...	<.006	<.004	E.003	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.008	<.003	<.007	<.004	.006	<.010	<.007	<.001	<.002
		01462100	PIDCOCK C NR NEW HOPE, PA. (LAT 40 19 46N LONG 074 56 14W)								
MAY 2000											
18...	<.006	<.004	E.010	<.003	<.007	<.004	.015	<.010	<.007	<.001	<.002
SEP											
12...	<.006	<.004	E.007	<.003	<.007	<.004	.007	<.010	<.007	<.001	<.002
		01462800	JACOBS C AT SOMERSET NJ (LAT 40 16 42N LONG 074 51 14W)								
MAY 2000											
30...	<.006	<.004	E.011	<.003	<.007	<.004	E.005	<.010	<.007	<.001	<.002
SEP											
12...	<.006	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	<.001	<.002
		01462949	BUCK CREEK BELOW BROCK CREEK AT YARDLEY, PA. (LAT 40 14 38N LONG 074 50 31W)								
JUN 2000											
05...	<.006	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	<.001	E.001
SEP											
12...	<.006	<.004	<.018	<.003	<.007	<.004	.008	<.010	<.007	<.001	<.002
		01463810	SHABAKUNK CREEK NR LAWRENCEVILLE NJ (LAT 40 15 19N LONG 074 44 17W)								
JUN 2000											
05...	<.006	.011	<.030	<.003	<.007	<.004	<.005	E.006	<.007	<.001	E.001
SEP											
12...	<.006	<.004	.074	<.003	<.007	<.004	<.005	.015	<.007	<.001	<.002
		01464710	PINE RUN AT CHALFONT, PA. (LAT 40 17 20N LONG 075 12 11W)								
MAY 2000											
17...	<.006	<.004	.027	.015	<.007	<.004	.028	<.010	<.007	<.001	E.003
SEP											
25...	<.006	<.004	.024	<.009	<.007	<.004	<.010	<.010	<.007	<.001	<.004
		01465470	MILL CREEK NEAR LANGHORNE, PA. (LAT 40 10 40N LONG 074 57 43W)								
MAY 2000											
30...	<.006	<.004	.080	<.003	<.007	<.004	.018	E.003	<.007	<.001	<.002
SEP											
18...	E.003	<.004	.045	<.003	<.007	<.004	.013	<.010	<.007	<.001	E.001



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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 (µS/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
01467000			NORTH BRANCH RANOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)							
JUN 2000 27...	1010	ENVIRONMENTAL	70	763	83	6.9	5.8	59	29.5	24.5
OCT 03...	1220	ENVIRONMENTAL	169	761	105	10.3	4.4	48	22.5	16.0
01467040			PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)							
MAY 2000 15...	1600	ENVIRONMENTAL	22	762	109	10.3	7.8	458	20.5	18.0
SEP 18...	1140	ENVIRONMENTAL	22	763	107	10.2	7.8	549	24.5	17.5
0146708450			TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)							
MAY 2000 15...	1020	ENVIRONMENTAL	7.8	761	103	10.4	7.6	482	18.5	15.0
SEP 18...	1330	ENVIRONMENTAL	6.8	767	98	9.6	7.8	493	23.0	16.5
01470640			ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)							
JUN 2000 01...	0900	ENVIRONMENTAL	38	750	104	10.4	7.3	132	24.0	15.0
01470744			MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)							
JUN 2000 01...	1208	FIELD BLANK	--	--	--	--	--	--	--	--
01...	1209	FIELD BLANK	--	--	--	--	--	--	--	--
01...	1210	ENVIRONMENTAL	19	750	133	13.0	8.5	220	30.0	16.0
01470818			LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)							
JUN 2000 01...	1228	FIELD BLANK	--	--	--	--	--	--	--	--
01...	1229	FIELD BLANK	--	--	--	--	--	--	--	--
01...	1230	ENVIRONMENTAL	99	759	106	10.1	8.2	549	32.0	17.5
01471520			WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)							
JUN 2000 01...	1430	ENVIRONMENTAL	20	755	100	9.4	8.1	446	31.0	18.0
SEP 25...	1640	ENVIRONMENTAL	12	759	100	10.2	8.1	510	14.5	14.5
01471667			HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)							
MAY 2000 17...	1520	ENVIRONMENTAL	19	761	100	9.8	7.6	120	21.5	16.0
SEP 25...	1440	ENVIRONMENTAL	5.8	751	102	10.2	8.1	159	14.5	14.5

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DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000 27...	10	2.45	.97	1.0	5.4	--	--	--	8.0	<.1	4.3
OCT 03...	7	1.63	.66	.7	3.3	<1	--	--	5.8	<.1	10.9
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000 15...	120	32.2	10.1	4.2	36.6	72	86	--	64.9	.6	13.0
SEP 18...	150	39.8	11.9	6.0	47.5	69	84	--	78.0	1.0	15.1
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000 15...	150	35.8	15.1	4.0	28.2	75	91	--	76.4	<.1	11.7
SEP 18...	160	38.6	16.4	4.4	30.2	83	101	--	83.1	.1	13.6
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000 01...	51	13.8	3.95	.9	4.3	28	34	--	7.4	<.1	6.1
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000 01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	86	25.1	5.70	1.2	7.6	42	47	2	14.3	<.1	6.9
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000 01...	--	<.02	<.01	<.2	<.1	--	--	--	<.3	<.1	M
01...	--	--	--	--	--	--	--	--	--	--	--
01...	260	74.4	17.2	2.8	9.8	198	241	--	20.5	<.1	7.1
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000 01...	190	51.1	14.9	2.3	15.8	132	161	--	33.2	<.1	12.2
SEP 25...	220	56.4	18.3	2.6	17.9	166	202	--	37.1	.1	12.6
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000 17...	47	12.4	3.79	1.2	5.1	22	27	--	7.6	<.1	10.2
SEP 25...	55	14.8	4.29	1.5	6.3	30	37	--	8.4	<.1	12.4

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	7.3	.082	.32	.48	.43	.116	.60	<.010	.026	.017	.080
OCT											
03...	6.4	.026	.27	.35	.32	.051	.40	<.010	.010	<.010	.034
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	--	.104	.55	.60	4.2	3.60	4.2	.045	.912	.809	.917
SEP											
18...	40.6	1.40	2.1	2.2	7.6	5.52	7.8	.155	1.32	1.23	1.39
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	31.6	.031	.22	.23	2.3	2.11	2.3	.017	.023	.033	.044
SEP											
18...	33.3	<.020	.16	.19	2.9	2.76	2.9	<.010	.039	.031	.047
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	12.7	.046	.16	.24	2.2	2.06	2.3	.021	.015	<.010	.027
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	16.4	<.020	.11	.19	4.3	4.15	4.3	.013	.013	<.010	.023
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	<.3	<.020	<.10	<.10	--	<.050	--	<.010	<.006	<.010	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	29.7	.026	.23	.40	8.6	8.34	8.7	.058	.055	.033	--
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	25.2	<.020	E.10	.13	--	2.49	2.6	<.010	.017	.011	.024
SEP											
25...	29.2	.022	.11	.13	3.0	2.88	3.0	<.010	.023	.020	.032
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	21.3	<.020	.15	.24	1.0	.852	1.1	<.010	.012	.012	--
SEP											
25...	24.5	<.020	.12	.12	1.3	1.13	1.2	<.010	.020	.019	.039

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DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	ACETO- CHLOR, WATER FLTRD REC (µG/L) (49260)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000 27...	52	34	9	21	1210	21	6.6	3.7	1.5	8	<.002
OCT 03...	43	--	3	40	780	16	9.5	.9	1.7	4	<.004
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000 15...	286	--	3	111	50	33	4.0	<.2	.27	5	.021
SEP 18...	346	312	3	131	30	23	3.9	.3	.21	4	<.002
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000 15...	284	257	4	33	20	26	2.5	<.2	.08	4	.009
SEP 18...	305	282	1	52	E10	9	1.6	<.2	.01	M	<.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000 01...	88	75	10	E9	70	80	1.8	<.2	.40	4	<.002
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000 01...	--	--	--	--	--	--	<.33	--	--	--	--
01...	--	--	--	--	--	--	<.33	<.2	--	--	<.002
01...	140	121	6	E12	20	11	1.4	<.2	.20	4	.007
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000 01...	<10	--	--	<16	<10	<2	--	--	--	--	--
01...	--	--	--	--	--	--	<.33	<.2	--	--	<.002
01...	317	317	21	19	10	12	1.6	.2	6.0	22	.010
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000 01...	264	245	3	23	20	11	1.3	<.2	.12	2	<.002
SEP 25...	296	287	3	E15	<10	7	1.3	.3	.19	6	<.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000 17...	88	79	7	64	60	39	1.4	<.2	.35	7	<.002
SEP 25...	106	95	6	75	20	29	1.6	<.2	.04	2	<.002

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DATE	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	DI- AZINON, DIS- SOLVED (µG/L) (39572)
01467000	NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)										
JUN 2000 27...	<.002	.005	<.002	<.002	E.007	<.030	<.004	<.004	<.002	E.003	<.002
OCT 03...	<.002	<.007	<.010	<.002	<.041	<.020	E.005	<.018	<.003	<.006	<.005
01467040	PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)										
MAY 2000 15...	<.002	.095	<.002	<.002	E.15	<.003	.015	<.004	<.002	E.049	.038
SEP 18...	<.002	.010	<.002	<.002	E.033	<.003	<.004	<.004	<.002	E.010	.020
0146708450	TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)										
MAY 2000 15...	<.002	.053	<.002	<.002	E.010	<.003	<.004	<.004	<.002	E.032	.014
SEP 18...	<.002	.006	E.001	<.002	<.003	<.003	<.004	<.004	<.002	E.006	.005
01470640	ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)										
JUN 2000 01...	<.002	.127	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.047	<.002
01470744	MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)										
JUN 2000 01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
01...	<.002	.565	<.002	<.002	<.003	<.003	.009	<.004	<.002	E.11	<.002
01470818	LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)										
JUN 2000 01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
01...	<.002	.256	<.002	<.002	<.003	<.003	E.003	.009	<.002	E.20	.115
01471520	WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)										
JUN 2000 01...	<.002	.044	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.043	<.002
SEP 25...	<.002	.039	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.067	E.003
01471667	HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)										
MAY 2000 17...	<.002	.046	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.013	<.002
SEP 25...	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.015	<.002

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DATE	DI- ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P, P' DDE DISSOLV (µG/L) (34653)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	.009	<.006
OCT											
03...	<.005	<.002	<.003	<.004	<.035	<.027	<.050	<.013	<.006	.007	<.002
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	<.001	<.002	<.003	.007	<.002	<.005	<.001	.031	<.004	<.003	<.006
SEP											
18...	<.007	<.002	<.003	<.004	<.002	<.005	<.001	.023	<.004	<.010	<.006
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	.022	<.002	<.003	<.004	<.002	<.005	<.001	.016	<.004	<.003	<.006
SEP											
18...	.021	<.002	<.003	<.004	<.002	<.005	<.001	.010	<.004	<.003	E.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.053	<.004	<.003	<.006
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.234	<.004	<.003	<.006
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.072	<.004	<.003	<.006
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.020	<.001	E.003	<.004	<.003	E.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	<.001	<.002	<.003	<.004	<.002	.020	<.010	.023	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006

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DATE	PENDI-METH-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO-METON, WATER, DISS, REC (µG/L) (04037)	PRON-AMIDE WATER, FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO-PANIL WATER, FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI-MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU-THIURON WATER, FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER-BACIL WATER, FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER-BUTHYL-AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL-LATE WATER, FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON NJ (LAT 39 58 10N LONG 074 41 05W)											
JUN 2000											
27...	<.004	E.003	<.003	<.007	<.004	.007	E.007	E.020	--	<.001	<.002
OCT 03...	<.010	<.015	<.004	<.010	<.011	<.011	E.006	E.041	--	<.002	<.009
01467040 PENNYPACK CREEK AT PAPER MILL, PA (LAT 40 08 24N LONG 075 04 28W)											
MAY 2000											
15...	<.015	.051	<.003	<.007	<.004	.031	<.010	<.007	--	<.001	<.002
SEP 18...	<.004	.030	<.003	<.007	<.004	.020	<.010	<.050	--	<.001	<.002
0146708450 TACONY CREEK AT CHELTENHAM, PA (LAT 40 04 08N LONG 075 06 57W)											
MAY 2000											
15...	.019	.032	<.003	<.007	<.004	.030	<.010	<.007	--	<.001	E.002
SEP 18...	<.004	.023	<.003	<.007	<.004	.010	E.005	<.007	--	<.001	<.002
01470640 ONTELAUNEE CREEK AT WANAMAKERS, PA (LAT 40 39 17N LONG 075 50 44W)											
JUN 2000											
01...	.006	<.018	<.003	<.007	<.004	.020	E.004	<.007	--	<.001	<.002
01470744 MILL CR AT DIETRICKS MILL BRIDGE NEAR KUTZTOWN, PA (LAT 40 32 44N LONG 075 47 50W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
01...	.011	E.008	<.003	<.007	<.004	.011	<.010	<.007	--	<.001	<.002
01470818 LITTLE NORTHKILL CREEK NEAR BERNVILLE, PA. (LAT 40 26 33N LONG 076 07 23W)											
JUN 2000											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<.004	<.018	<.003	<.007	<.004	<.005	<.010	<.007	--	<.001	<.002
01...	.016	.021	<.003	<.007	<.004	.196	.010	<.007	--	<.001	<.002
01471520 WYOMISSING CR. @ WEST READING PA (LAT 40 19 41N LONG 075 56 41W)											
JUN 2000											
01...	<.004	.019	<.003	<.007	<.004	.013	E.007	<.007	E.004	<.001	<.002
SEP 25...	<.004	.021	<.003	<.007	<.004	.015	E.007	<.007	--	<.001	<.002
01471667 HAY CREEK NEAR SCARLETS MILL, PA (LAT 40 14 21N LONG 075 49 48W)											
MAY 2000											
17...	<.010	E.008	<.003	<.007	<.004	.036	<.010	<.007	--	<.001	<.002
SEP 25...	<.004	E.003	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002

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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
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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 (µS/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)
01471980			MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)						
MAY 2000 18...	0720	ENVIRONMENTAL	84	762	91	8.9	7.8	298	19.0
SEP 25...	1600	ENVIRONMENTAL	45	759	103	10.1	8.3	352	15.0
01472100			PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)						
MAY 2000 16...	1350	ENVIRONMENTAL	14	761	99	9.9	7.5	164	23.5
OCT 02...	1000	ENVIRONMENTAL	8.4	759	100	10.6	7.5	192	16.0
014721884			PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)						
MAY 2000 16...	1710	ENVIRONMENTAL	30	759	105	10.3	7.8	227	23.0
SEP 18...	1650	ENVIRONMENTAL	16	752	112	10.8	8.1	234	23.5
01472280			MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)						
MAY 2000 18...	1030	ENVIRONMENTAL	4.5	758	103	9.9	7.9	256	24.0
SEP 25...	1320	ENVIRONMENTAL	4.6	759	102	10.1	8.3	305	17.0
01473470			STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)						
MAY 2000 16...	0850	ENVIRONMENTAL	7.8	764	108	10.9	7.8	456	18.0
SEP 19...	1000	ENVIRONMENTAL	8.0	762	98	9.5	7.9	449	18.0
01475430			DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)						
MAY 2000 17...	1530	ENVIRONMENTAL	17	759	130	12.4	7.6	313	24.0
SEP 18...	0950	ENVIRONMENTAL	10	760	96	9.7	7.8	274	20.0
01475510			DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)						
MAY 2000 18...	1540	ENVIRONMENTAL	--	751	118	10.6	8.1	373	26.5
SEP 11...	1400	ENVIRONMENTAL	17	764	123	10.7	8.4	539	31.0
01475543			COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)						
MAY 2000 30...	1250	ENVIRONMENTAL	8.9	767	--	--	7.8	444	19.5
SEP 11...	1010	ENVIRONMENTAL	5.4	764	101	9.1	7.8	480	24.0



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DATE	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)											
MAY 2000											
18...	17.0	120	30.9	10.8	1.9	10.1	89	109	--	20.4	<.1
SEP											
25...	16.0	140	35.2	12.3	3.3	13.2	104	127	--	29.0	.1
01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)											
MAY 2000											
16...	15.0	52	12.8	4.83	1.5	8.0	28	34	--	11.4	<.1
OCT											
02...	12.5	70	18.0	6.10	1.9	8.7	38	47	--	12.5	<.1
014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)											
MAY 2000											
16...	16.0	79	20.3	6.87	1.4	9.9	47	57	--	22.8	<.1
SEP											
18...	16.0	85	22.2	7.15	2.2	9.8	53	65	--	21.4	<.1
01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)											
MAY 2000											
18...	16.5	93	24.4	7.79	1.8	11.6	72	89	--	17.1	<.1
SEP											
25...	15.5	110	30.0	9.25	2.7	14.1	89	108	--	20.2	<.1
01473470 STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)											
MAY 2000											
16...	15.0	140	34.6	13.1	2.3	29.0	93	113	--	57.8	<.1
SEP											
19...	17.0	150	36.9	13.6	3.1	26.0	107	131	--	49.5	.1
01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)											
MAY 2000											
17...	17.5	110	24.6	11.7	2.2	13.0	69	84	--	33.6	<.1
SEP											
18...	14.5	100	22.5	10.6	2.8	11.1	62	76	--	26.2	<.1
01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)											
MAY 2000											
18...	19.5	120	27.4	12.1	2.7	19.3	64	78	--	49.9	<.1
SEP											
11...	22.0	130	30.3	12.7	3.4	46.9	66	78	1	97.8	<.1
01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)											
MAY 2000											
30...	15.5	140	35.5	13.2	3.7	23.6	65	79	--	66.0	<.1
SEP											
11...	20.5	150	35.9	13.8	3.8	27.1	65	79	--	70.9	<.1

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DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
	01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)										
MAY 2000											
18...	12.5	15.9	.255	.19	.44	2.4	2.19	2.6	.123	.023	.018
SEP											
25...	15.1	18.2	<.020	.18	.20	2.3	2.14	2.3	<.010	.059	.052
	01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)										
MAY 2000											
16...	15.2	16.0	.064	.26	.42	2.9	2.61	3.0	.012	.056	.045
OCT											
02...	19.0	17.5	<.041	.15	.18	3.2	3.01	3.2	E.005	.070	.062
	014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)										
MAY 2000											
16...	17.3	15.4	<.020	.14	.23	1.9	1.81	2.0	<.010	.010	<.010
SEP											
18...	18.1	14.2	<.020	.16	.22	1.8	1.59	1.8	<.010	.023	.015
	01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)										
MAY 2000											
18...	8.3	19.4	.020	.25	.31	1.0	.775	1.1	<.010	.030	.026
SEP											
25...	10.3	25.1	<.020	.17	.30	1.1	.883	1.2	<.010	.044	.040
	01473470 STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)										
MAY 2000											
16...	8.3	32.3	.023	.26	.39	1.7	1.47	1.9	<.010	.050	.035
SEP											
19...	11.5	35.1	.020	.25	.29	1.8	1.56	1.8	<.010	.084	.071
	01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)										
MAY 2000											
17...	15.7	19.9	.020	.20	.26	2.1	1.94	2.2	.010	.017	<.010
SEP											
18...	15.7	18.1	<.020	.15	.19	2.0	1.90	2.1	<.010	.034	.023
	01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)										
MAY 2000											
18...	14.2	23.5	<.020	.16	.24	2.2	2.04	2.3	.016	.019	.012
SEP											
11...	12.8	25.6	<.020	.17	.17	2.0	1.84	2.0	<.010	.033	.020
	01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)										
MAY 2000											
30...	13.8	33.3	.056	.21	.24	2.6	2.36	2.6	.029	.037	.026
SEP											
11...	11.6	37.8	<.020	.18	.20	2.5	2.28	2.5	.013	.048	.033

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DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L AS B) (01020)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	CARBON, ORGANIC PARTIC- ULATE SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
	01471980	MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)									
MAY 2000 18...	--	175	166	4	20	30	4	2.1	<.2	.77	3
SEP 25...	.075	208	198	3	22	20	9	2.3	.2	.05	M
	01472100	PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)									
MAY 2000 16...	.078	109	98	10	E8	60	25	1.7	<.2	.26	7
OCT 02...	.097	124	120	6	20	40	23	1.6	<.2	--	--
	014721884	PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)									
MAY 2000 16...	.020	141	130	4	<16	100	20	1.8	<.2	.34	4
SEP 18...	.030	151	134	4	<16	60	16	2.0	<.2	.16	4
	01472280	MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)									
MAY 2000 18...	--	147	138	3	79	20	5	2.6	<.2	.04	3
SEP 25...	.063	181	169	16	121	10	5	2.5	<.2	.04	3
	01473470	STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)									
MAY 2000 16...	.059	256	240	2	39	30	20	3.0	<.2	.05	2
SEP 19...	.096	257	247	9	63	10	12	3.1	<.2	.05	2
	01475430	DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)									
MAY 2000 17...	.032	185	171	4	16	60	26	2.1	<.2	.23	5
SEP 18...	.045	170	153	5	E12	20	11	2.2	<.2	.06	2
	01475510	DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)									
MAY 2000 18...	.033	214	197	2	E9	80	20	1.9	<.2	--	2
SEP 11...	.040	288	277	1	20	30	8	1.5	<.2	.10	2
	01475543	COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)									
MAY 2000 30...	.056	257	239	2	20	80	25	1.7	<.2	.14	6
SEP 11...	.065	261	250	1	30	20	16	1.8	<.2	.02	2

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DATE	ACETO- CHLOR, WATER FLTRD REC (µG/L) (49260)	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)
	01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)										
MAY 2000											
18...	<.002	<.002	.364	<.002	<.002	E.019	<.003	<.004	<.004	<.002	E.078
SEP											
25...	<.002	<.002	.040	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.085
	01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)										
MAY 2000											
16...	.014	<.002	.036	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.018
OCT											
02...	<.004	<.002	.009	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014
	014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)										
MAY 2000											
16...	<.002	E.004	.210	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.057
SEP											
18...	<.002	<.002	.015	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.046
	01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)										
MAY 2000											
18...	<.002	<.002	.123	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.043
SEP											
25...	<.002	<.002	.052	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.073
	01473470 STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)										
MAY 2000											
16...	.059	.007	.088	<.002	<.002	E.029	<.003	E.002	<.004	E.001	E.055
SEP											
19...	<.002	<.002	.015	<.002	<.002	E.046	<.003	<.004	<.004	E.002	E.016
	01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)										
MAY 2000											
17...	.005	<.002	.049	E.004	<.002	E.009	<.003	<.004	<.004	<.002	E.030
SEP											
18...	<.002	<.002	.014	<.002	<.002	<.003	<.003	<.004	.008	<.002	E.011
	01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)										
MAY 2000											
18...	<.002	<.002	.034	<.002	<.002	E.008	<.003	<.004	<.004	<.002	E.022
SEP											
11...	<.002	<.002	.006	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.009
	01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)										
MAY 2000											
30...	<.002	<.002	.065	E.001	<.002	E.007	<.003	E.003	<.004	E.001	E.019
SEP											
11...	<.002	<.002	.012	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.013

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DATE	DI-AZINON, DIS-SOLVED (µG/L) (39572)	DI-ELDRIN, DIS-SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS-SOLVED (µG/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA-THION, DIS-SOLVED (µG/L) (39532)	METHYL-AZIN-PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO-LACHLOR WATER DISSOLV (µG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (µG/L) (82630)	NAPROP-AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)
	01471980 MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)										
MAY 2000 18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.133	<.004	<.003
SEP 25...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003
	01472100 PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)										
MAY 2000 16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.017	<.004	<.003
OCT 02...	<.005	<.005	<.002	<.003	<.004	<.035	<.027	<.050	E.004	<.006	<.007
	014721884 PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)										
MAY 2000 16...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.092	<.004	<.003
SEP 18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003
	01472280 MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)										
MAY 2000 18...	<.002	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.038	<.004	<.003
SEP 25...	E.003	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003
	01473470 STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)										
MAY 2000 16...	.015	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.049	<.004	<.003
SEP 19...	.011	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003
	01475430 DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)										
MAY 2000 17...	.008	.010	<.002	<.003	<.004	<.002	<.005	<.010	.029	<.004	<.003
SEP 18...	.006	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.019	<.004	<.003
	01475510 DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)										
MAY 2000 18...	.014	.019	<.002	<.003	<.004	<.002	<.005	<.001	.024	<.004	<.003
SEP 11...	.005	.025	<.002	<.003	<.004	<.002	<.005	<.001	.008	<.004	<.003
	01475543 COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)										
MAY 2000 30...	.008	.032	<.002	<.003	<.004	<.002	<.005	<.001	.024	<.004	<.003
SEP 11...	.007	.033	<.002	<.003	<.004	<.002	<.005	<.001	.004	<.004	<.003

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DATE	P, P' DDE DISSOLV (µG/L) (34653)	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
	01471980	MANATAWNY CREEK NEAR POTTSTOWN, PA. (LAT 40 16 22N LONG 075 40 49W)									
MAY 2000											
18...	<.006	<.004	<.018	<.003	<.007	<.004	.013	<.010	<.007	<.001	<.002
SEP											
25...	<.006	<.004	E.008	<.003	<.007	<.004	.008	<.010	<.007	<.001	<.002
	01472100	PIGEON CREEK NEAR PARKER FORD, PA (LAT 40 11 48N LONG 075 35 13W)									
MAY 2000											
16...	<.006	.009	<.018	<.003	<.007	<.004	9.42	<.010	<.007	<.001	<.002
OCT											
02...	E.002	<.010	<.015	<.004	<.010	<.011	.027	<.016	<.034	<.002	E.001
	014721884	PICKERING CR AT CHLSTWN RD BR. AT CHLSTWN, PA (LAT 40 05 57N LONG 075 33 20W)									
MAY 2000											
16...	<.006	.006	E.004	<.003	<.007	<.004	.040	<.010	<.007	<.001	<.002
SEP											
18...	<.006	<.004	E.004	<.003	<.007	<.004	.013	<.010	<.007	<.001	<.002
	01472280	MACOBY CREEK AT GREEN LANE, PA (LAT 40 20 22N LONG 075 28 20W)									
MAY 2000											
18...	<.006	<.004	<.018	<.003	<.007	<.004	.043	<.010	<.007	<.001	<.002
SEP											
25...	<.006	<.004	E.012	<.003	<.007	<.004	.036	<.010	<.007	<.001	<.002
	01473470	STONY CREEK AT STERIGERE STREET AT NORRISTOWN, PA (LAT 40 07 38N LONG 075 20 43W)									
MAY 2000											
16...	<.006	.014	.033	.006	<.007	<.004	.041	E.010	<.007	<.001	E.002
SEP											
19...	<.006	<.004	.028	<.003	<.007	<.004	.014	E.009	<.007	<.001	<.002
	01475430	DARBY CREEK AT FOXCROFT, PA (LAT 39 59 45N LONG 075 21 21W)									
MAY 2000											
17...	<.006	.007	E.010	<.003	<.007	<.004	.015	<.010	<.007	<.001	E.004
SEP											
18...	<.006	<.004	E.008	<.003	<.007	<.004	.009	<.010	<.007	<.001	<.002
	01475510	DARBY CREEK NEAR DARBY, PA. (LAT 39 55 44N LONG 075 16 22W)									
MAY 2000											
18...	<.006	<.004	E.015	<.003	<.007	<.004	.191	<.010	<.007	<.001	<.002
SEP											
11...	<.006	<.004	E.012	<.003	<.007	<.004	.010	<.010	<.007	<.001	<.002
	01475543	COBBS CREEK AT EAST LANSDOWNE, PA (LAT 39 57 06N LONG 075 15 05W)									
MAY 2000											
30...	<.006	<.010	.018	<.003	<.007	<.004	.013	.017	<.007	<.001	E.001
SEP											
11...	<.006	.005	E.010	<.003	<.007	<.004	.010	.013	<.007	<.001	E.003

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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 (µS/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)									
MAY 2000									
17...	1800	ENVIRONMENTAL	15	757	115	11.0	7.7	206	20.5
SEP									
18...	1320	ENVIRONMENTAL	7.3	758	104	10.4	7.8	190	28.0
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)									
MAY 2000									
18...	1250	ENVIRONMENTAL	31	756	102	9.8	7.8	238	27.5
SEP									
11...	1720	ENVIRONMENTAL	16	759	111	9.9	8.1	269	30.0
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)									
MAY 2000									
18...	0920	ENVIRONMENTAL	21	758	107	10.5	7.6	280	23.5
SEP									
12...	1720	ENVIRONMENTAL	7.5	754	101	8.7	8.0	329	29.0
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)									
MAY 2000									
15...	1620	ENVIRONMENTAL	16	761	108	10.4	7.8	216	21.0
SEP									
12...	0920	ENVIRONMENTAL	5.8	756	99	9.0	7.8	247	24.5
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)									
MAY 2000									
15...	1210	ENVIRONMENTAL	10	762	108	10.6	7.8	347	18.0
SEP									
12...	1400	ENVIRONMENTAL	4.0	753	119	10.4	8.3	372	29.0
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)									
MAY 2000									
16...	1710	ENVIRONMENTAL	18	751	107	10.2	7.8	232	19.0
SEP									
25...	1020	ENVIRONMENTAL	13	745	101	9.8	7.7	248	14.5
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)									
MAY 2000									
16...	1420	ENVIRONMENTAL	22	752	131	12.6	8.1	189	--
SEP									
25...	0910	ENVIRONMENTAL	16	752	109	10.9	7.8	208	15.5
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)									
MAY 2000									
16...	1110	ENVIRONMENTAL	17	762	103	10.7	7.9	304	22.0
SEP									
19...	0940	ENVIRONMENTAL	12	754	92	9.1	7.9	321	18.5

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DATE	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)											
MAY 2000											
17...	17.5	70	15.0	7.80	1.7	9.1	42	52	20.6	<.1	13.2
SEP											
18...	15.0	67	14.6	7.31	2.6	7.5	45	55	15.1	<.1	15.4
01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)											
MAY 2000											
18...	17.0	75	15.8	8.58	1.9	11.6	46	56	26.4	<.1	12.4
SEP											
11...	20.5	86	18.8	9.58	2.4	15.9	51	62	28.4	<.1	15.1
01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)											
MAY 2000											
18...	16.0	84	20.1	8.33	2.8	14.8	44	53	34.6	<.1	15.5
SEP											
12...	22.0	94	23.0	8.90	3.6	20.8	51	62	37.9	.1	15.3
01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)											
MAY 2000											
15...	17.0	71	16.7	7.15	3.2	9.0	39	48	17.2	<.1	12.3
SEP											
12...	19.5	81	19.1	8.13	3.5	10.4	45	55	18.2	<.1	13.0
01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)											
MAY 2000											
15...	16.0	120	30.4	11.5	4.0	11.7	73	89	29.4	.1	13.8
SEP											
12...	21.5	140	33.9	12.7	3.6	12.3	79	96	31.5	<.1	16.1
01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)											
MAY 2000											
16...	17.0	79	19.7	7.20	2.9	9.0	45	55	16.6	<.1	14.1
SEP											
25...	15.9	86	21.5	7.81	3.4	9.4	51	62	16.4	<.1	15.6
01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)											
MAY 2000											
16...	16.5	64	17.0	5.30	1.5	8.1	34	41	12.9	<.1	14.4
SEP											
25...	15.0	73	19.1	6.02	2.2	9.1	47	57	15.1	<.1	19.4
01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)											
MAY 2000											
16...	13.5	110	27.7	10.7	2.1	11.1	74	90	26.0	.1	10.5
SEP											
19...	15.5	130	33.4	11.8	2.7	10.3	86	105	23.7	<.1	10.5



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DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
	01475845	CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)									
MAY 2000											
17...	11.3	<.020	.18	.22	1.9	1.71	1.9	<.010	.007	<.010	.026
SEP											
18...	11.5	<.020	.18	.19	1.8	1.58	1.8	<.010	.029	.020	.042
	01476470	RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)									
MAY 2000											
18...	15.8	<.020	.19	.35	2.0	1.79	2.1	.010	.055	.048	.101
SEP											
11...	18.5	<.020	.15	.18	2.1	1.92	2.1	<.010	.133	.101	.144
	01476950	W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)									
MAY 2000											
18...	18.5	<.020	.18	.24	2.6	2.40	2.6	.022	.064	.056	.090
SEP											
12...	23.7	<.020	.19	.22	4.7	4.52	4.7	<.010	.177	.153	.189
	01478200	M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)									
MAY 2000											
15...	17.1	.043	.31	.39	4.3	3.98	4.4	.089	.105	.082	.122
SEP											
12...	17.4	<.020	.19	.28	5.4	5.17	5.5	<.010	.201	.172	.206
	01479800	EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)									
MAY 2000											
15...	33.3	.026	.33	.43	3.1	2.79	3.2	.020	.046	.030	.041
SEP											
12...	35.5	<.020	.24	.25	3.2	2.96	3.2	<.010	.056	.044	.065
	01480350	WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)									
MAY 2000											
16...	17.0	.068	.50	.57	4.0	3.48	4.1	.071	.073	.059	--
SEP											
25...	18.0	<.020	.25	.35	4.8	4.51	4.9	<.010	.081	.070	.127
	01480665	EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)									
MAY 2000											
16...	15.3	<.020	.21	.30	3.0	2.82	3.1	<.010	.015	.012	.031
SEP											
25...	14.6	<.020	.19	.33	3.2	3.02	3.4	<.010	.029	.025	.042
	01480775	BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)									
MAY 2000											
16...	21.5	<.020	.18	.21	3.3	3.16	3.4	<.010	.013	<.010	.022
SEP											
19...	22.0	.021	.11	.17	2.9	2.80	3.0	<.010	.025	.018	.034

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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	TUR- BID- ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS- SOLVED (µG/L) AS B) (01020)	IRON, DIS- SOLVED (µG/L) AS FE) (01046)	MANGA- NESE, DIS- SOLVED (µG/L) AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L) AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L) AS C) (00689)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	ACETO- CHLOR, WATER FLTRD REC (µG/L) (49260)
	01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)										
MAY 2000											
17...	121	112	3	18	50	8	1.8	<.2	.26	7	<.002
SEP											
18...	126	108	2	E7	40	8	2.2	<.2	.06	3	<.002
	01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)										
MAY 2000											
18...	144	128	6	21	100	22	2.0	<.2	1.5	18	<.002
SEP											
11...	171	148	2	33	50	9	1.7	.2	.13	3	<.002
	01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)										
MAY 2000											
18...	177	152	3	19	80	29	2.2	<.2	.28	5	<.002
SEP											
12...	188	184	3	43	30	14	2.5	<.2	.14	7	<.002
	01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)										
MAY 2000											
15...	145	124	8	E15	40	12	3.1	<.2	.26	6	.355
SEP											
12...	144	140	1	20	10	4	1.7	.2	.03	2	<.002
	01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)										
MAY 2000											
15...	213	191	3	E10	60	13	3.5	<.2	--	--	<.002
SEP											
12...	218	206	4	E14	E10	7	2.2	<.2	.02	2	<.002
	01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)										
MAY 2000											
16...	154	129	23	E14	90	31	4.4	.4	.72	15	.006
SEP											
25...	157	143	9	E8	30	18	2.4	.4	.22	6	<.002
	01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)										
MAY 2000											
16...	125	107	3	<16	30	6	2.4	<.2	.20	3	<.002
SEP											
25...	136	127	2	<16	20	7	2.1	<.2	.03	1	<.002
	01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)										
MAY 2000											
16...	182	168	4	E10	40	13	2.0	<.2	.38	8	<.002
SEP											
19...	186	178	4	E15	20	15	1.8	<.2	.13	4	<.002

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

DATE	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	DI- AZINON, DIS- SOLVED (µG/L) (39572)
	01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)										
MAY 2000											
17...	<.002	.032	<.002	<.002	E.014	<.003	<.004	.006	<.002	E.024	E.004
SEP											
18...	<.002	.006	<.002	<.002	E.019	<.003	<.004	<.004	<.002	E.018	.029
	01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)										
MAY 2000											
18...	<.002	.049	<.002	<.002	<.003	<.003	<.004	.018	<.002	E.042	<.002
SEP											
11...	<.002	.009	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.034	E.002
	01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)										
MAY 2000											
18...	<.002	.064	<.002	<.002	E.029	<.003	<.004	<.004	<.002	E.052	<.002
SEP											
12...	<.002	.022	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.061	<.002
	01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)										
MAY 2000											
15...	<.002	E4.91	<.002	<.002	<.003	<.003	.021	<.004	<.002	E.18	<.002
SEP											
12...	<.002	.020	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.13	E.002
	01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)										
MAY 2000											
15...	<.002	.059	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.040	.015
SEP											
12...	<.002	.010	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.038	.006
	01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)										
MAY 2000											
16...	.008	2.38	<.002	<.002	<.003	<.003	.024	<.004	<.002	E.14	E.003
SEP											
25...	E.002	.030	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.10	<.002
	01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)										
MAY 2000											
16...	<.002	.502	<.002	<.002	E.003	<.003	<.004	<.004	<.002	E.12	<.002
SEP											
25...	<.002	.060	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.11	<.002
	01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)										
MAY 2000											
16...	<.002	1.19	<.002	<.002	<.003	<.003	.008	<.004	<.002	E.16	<.002
SEP											
19...	<.002	.056	<.002	<.002	E.006	<.003	<.004	<.004	<.002	E.11	E.003

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

DATE	DI-ELDRIN DIS-SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS-SOLVED (µG/L) (39341)	LIN-URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA-THION, DIS-SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)
	01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)										
MAY 2000											
17...	<.001	<.002	<.003	<.004	<.002	<.005	<.010	.018	<.004	<.003	<.006
SEP											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	<.002	<.004	<.003	<.006
	01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)										
MAY 2000											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.034	<.004	<.003	<.006
SEP											
11...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.005	<.004	<.003	<.006
	01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)										
MAY 2000											
18...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.029	<.004	<.003	<.006
SEP											
12...	<.001	<.002	<.003	.015	<.002	<.005	<.001	.008	<.004	<.003	<.006
	01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)										
MAY 2000											
15...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.00	.104	<.003	<.006
SEP											
12...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.015	<.004	<.003	<.006
	01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)										
MAY 2000											
15...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.035	<.004	<.003	<.006
SEP											
12...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.007	<.004	<.003	<.006
	01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)										
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	1.33	.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.037	<.004	<.003	<.006
	01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)										
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.184	<.004	<.003	<.006
SEP											
25...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.022	<.004	<.003	<.006
	01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)										
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.124	<.004	<.003	E.001
SEP											
19...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.009	<.004	<.003	<.006

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
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DATE	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER, FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER, FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER, FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER, FLTRD 0.7 µ GF, REC (µG/L) (82665)	TER- BUTHYL- AZINE, WATER, DISS, REC (µG/L) (04022)	TRIAL- LATE WATER, FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)
	01475845 CRUM CREEK AT GOSHEN ROAD NEAR WHITEHORSE, PA (LAT 39 59 24N LONG 075 26 16W)										
MAY 2000											
17...	.005	E.010	<.003	<.007	<.004	.044	<.010	<.007	--	<.001	<.002
SEP											
18...	<.004	E.007	<.003	<.007	<.004	.013	<.010	<.007	--	<.001	<.002
	01476470 RIDLEY CREEK NEAR MEDIA, PA (LAT 39 55 57N LONG 075 24 42W)										
MAY 2000											
18...	<.004	<.018	<.003	<.007	<.004	.011	<.010	<.007	--	<.001	<.002
SEP											
11...	<.004	E.004	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
	01476950 W B CHESTER CREEK NEAR CHESTER HEIGHTS, PA. (LAT 39 52 36N LONG 075 27 05W)										
MAY 2000											
18...	<.004	E.008	<.003	<.007	<.004	2.38	<.010	<.007	--	<.001	<.002
SEP											
12...	<.004	E.005	<.003	<.007	<.004	.047	<.010	<.007	E.004	<.001	<.002
	01478200 M. BR. WHITE CLAY CREEK NEAR LANDENBERG, PA. (LAT 39 46 54N LONG 075 48 03W)										
MAY 2000											
15...	.013	E.004	<.003	<.007	<.004	.024	<.010	<.007	--	<.001	<.002
SEP											
12...	<.004	<.018	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002
	01479800 EAST BRANCH RED CLAY CREEK NEAR FIVE POINT, PA. (LAT 39 49 11N LONG 075 41 29W)										
MAY 2000											
15...	.006	E.002	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	E.001
SEP											
12...	<.004	E.004	<.003	<.007	<.004	.010	<.010	<.007	--	<.001	<.002
	01480350 WEST BRANCH BRANDYWINE CREEK AT CEDAR KNOLL, PA (LAT 40 02 22N LONG 075 49 43W)										
MAY 2000											
16...	.117	<.018	<.003	<.007	<.004	.167	<.010	<.007	--	<.001	<.002
SEP											
25...	<.004	E.004	<.003	<.007	<.004	.009	<.010	<.007	--	<.001	<.002
	01480665 EAST BR BRANDYWINE CR NR DORLAN, PA. (LAT 40 03 08N LONG 075 43 28W)										
MAY 2000											
16...	.017	E.005	<.003	<.007	<.004	.049	E.004	<.007	--	<.001	<.002
SEP											
25...	<.004	E.005	<.003	<.007	<.004	.924	<.010	<.007	--	<.001	<.002
	01480775 BEAVER CREEK NEAR DOWNINGTOWN, PA (LAT 40 00 12N LONG 075 43 28W)										
MAY 2000											
16...	.010	E.012	<.003	<.007	<.004	.018	<.010	<.007	--	<.001	<.002
SEP											
19...	<.004	.022	<.003	<.007	<.004	.014	<.010	<.007	--	<.001	E.004

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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
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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 (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)		
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)											
MAY 2000											
16...	0840	ENVIRONMENTAL	14	763	--	--	7.6	433	--		
SEP											
19...	0810	ENVIRONMENTAL	8.8	754	95	9.3	8.0	491	17.5		
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)											
MAY 2000											
16...	--	160	35.5	17.1	2.1	16.9	105	128	37.0	<.1	6.3
SEP											
19...	16.0	210	41.9	24.7	4.1	17.0	113	138	37.9	<.1	5.9
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)											
MAY 2000											
16...											
SEP											
19...											
DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L) (00900)	CALCIUM DIS-SOLVED (MG/L) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L) (00935)	SODIUM, DIS-SOLVED (MG/L) (00930)	ALKA-LINITY WAT DIS TOT IT (MG/L) (39086)	BICAR-BONATE WATER DIS IT (MG/L) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) (00950)	SILICA, DIS-SOLVED (MG/L) (00955)
DATE	SULFATE DIS-SOLVED AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625)	NITRO-GEN DIS-SOLVED AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED AS N) (00631)	NITRO-GEN, TOTAL (MG/L) (00600)	NITRO-GEN, NITRITE DIS-SOLVED AS N) (00613)	PHOS-PHORUS PHOS-ORTHO, DIS-SOLVED AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED AS P) (00671)	PHOS-PHORUS TOTAL (MG/L) (00665)
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)											
MAY 2000											
16...	34.6	.024	.13	.20	2.3	2.13	2.3	.015	.016	.015	.024
SEP											
19...	64.6	<.020	.11	.14	2.0	1.90	2.0	<.010	.028	.022	.033
01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)											
MAY 2000											
16...	236	222	--	16	20	6	1.5	<.2	.12	3	<.002
SEP											
19...	292	272	4	29	E10	4	1.6	<.2	.07	3	<.002
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BORON, DIS-SOLVED (µG/L) (01020)	IRON, DIS-SOLVED (µG/L) (01046)	MANGA-NESE, DIS-SOLVED (µG/L) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L) (00689)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ACETO-CHLOR, WATER FLTRD REC (µG/L) (49260)

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
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**SURFACE WATER SYNOPTIC SAMPLING--Continued  
May 15 through June 27, and September 11 through October 16, 2000**

DATE	ALA- CHLOR, WATER, DISS, REC, (µG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (µG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 µ GF, REC (µG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (µG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 µ GF, REC (µG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 µ GF, REC (µG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (µG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (µG/L) (04041)	DCPA WATER FLTRD 0.7 µ GF, REC (µG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (µG/L) (04040)	DI- AZINON, DIS- SOLVED (µG/L) (39572)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	<.002	.048	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.061	.005
SEP											
19...	<.002	.020	<.002	<.002	<.003	<.003	E.002	<.004	<.002	E.045	.156
DATE	DI- ELDRIN DIS- SOLVED (µG/L) (39381)	EPTC WATER FLTRD 0.7 µ GF, REC (µG/L) (82668)	FONOFOS WATER DISS REC (µG/L) (04095)	LINDANE DIS- SOLVED (µG/L) (39341)	LIN- URON WATER FLTRD 0.7 µ GF, REC (µG/L) (82666)	MALA- THION, DIS- SOLVED (µG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 µ GF, REC (µG/L) (82686)	METO- LACHLOR WATER DISSOLV (µG/L) (39415)	METRI- BUZIN WATER DISSOLV (µG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82684)	P,P' DDE DISSOLV (µG/L) (34653)
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.034	<.004	<.003	<.006
SEP											
19...	<.001	<.002	<.003	<.004	<.002	<.005	<.001	.013	<.004	<.003	<.006
DATE	PENDI- METH- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82683)	PRO- METON, WATER, DISS, REC (µG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 µ GF, REC (µG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (µG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82679)	SI- MAZINE, WATER, DISS, REC (µG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 µ GF, REC (µG/L) (82670)	TER- BACIL WATER FLTRD 0.7 µ GF, REC (µG/L) (82665)	TRIAL- LATE WATER FLTRD 0.7 µ GF, REC (µG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 µ GF, REC (µG/L) (82661)	
	01480890 VALLEY CREEK NEAR ALTOR, PA (LAT 39 58 56N LONG 075 39 53W)										
MAY 2000											
16...	.011	E.013	<.003	<.007	<.004	.019	E.006	<.007	<.001	<.002	
SEP											
19...	<.004	E.018	<.003	<.007	<.004	.013	E.004	<.007	<.001	<.002	