

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

The Pennsylvania Water Quality Network (WQN) is a statewide, fixed station water-quality sampling system currently operated by the Department of Environmental Protection (PaDEP), Bureau of Water Supply and Wastewater Management in cooperation with the United States Geological Survey (USGS). It is designed to assess both the quality of Pennsylvania's surface waters and the effectiveness of the water quality management program by accomplishing three basic objectives:

- * Monitor temporal water quality trends in major surface streams throughout the Commonwealth of Pennsylvania
- * Monitor temporal water-quality trends in selected reference waters
- * Monitor temporal water quality trends in selected Pennsylvania lakes.

Major streams are defined as interstate waters and intrastate streams with drainage areas of roughly 200 mi² or greater. These waters are sampled at or near their mouths to measure overall quality before flows enter the next higher order stream or before exiting the Commonwealth. In this way, trends can be established and the effectiveness of water-quality management programs can be assessed by watershed. Samples are collected on fixed time intervals resulting in coverage of a range of flow regimes. All samples were collected by the USGS and analyzed by the PaDEP laboratory in Harrisburg, Pa.

Most of the current WQN standard sites are co-located with USGS gage stations and others are equipped with a wire weight gage. Currently the network consists of 104 standard stream sites, 21 reference stream sites, and 20 lakes distributed across the Commonwealth.

Standard stations are sampled bimonthly (6 times per year) for physical and chemical parameters and stream discharge or a stage reading. Reference stations sampled monthly at 25-30 day intervals for physical and chemical parameters and stream discharge or a stage reading. Benthic macroinvertebrate samples are also collected annually at all WQN stations.

In February 2005 the 21 reference stream sites were discontinued and 21 new reference stream sites were established. Since the new reference stream sites were established in the middle of the water year chemical data is presented for both sets of reference stream sites. Biological data is only presented for the reference stream sites that were active in October 2005. This report presents data from the sites in the Ohio River Basin. Data from the Delaware River Basin and Susquehanna River Basin can be found in Volumes 1 and 2 of the USGS Pennsylvania Water Resources Data Reports.

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TABLE 1.--List of stream sites sampled as part of the Pennsylvania Water-Quality Network (WQN).

Station number	WQN No.	Location	Latitude	Longitude	Drainage area (mi ²)
03008899	881	Havens Run at SR46 at Norwich, PA	41°38'53"	78°21'45"	5.49
^a 03010500	807	Allegheny River at Eldred, PA	41°57'48"	78°23'11"	550
03010956	858	Tunungwant Creek at Bradford, PA	41°57'44"	78°37'30"	138
03012600	866	Allegheny River at Warren, PA	41°49'28"	79°07'09"	2,223
^a 03015000	832	Conewango Creek at Russell, PA	41°56'17"	79°08'00"	816
^a 03015500	831	Brokenstraw Creek at Youngsville, PA	41°51'09"	79°19'03"	321
03015795	877	East Hickory Creek near Queen, PA (Reference station)	41°38'31"	79°20'18"	20.3
^a 03016000	805	Allegheny River at West Hickory, PA	41°34'15"	79°24'29"	3,660
03017500	830	Tionesta Creek at Lynch, PA	41°36'07"	79°03'01"	233
03017800	871	Minister Creek at Trueman's, PA (Reference station)	41°37'16"	79°09'11"	10.2
03020449	873	West Branch Caldwell Creek near Grand Valley, PA (Reference station)	41°41'40"	79°34'16"	18.1
^a 03020500	868	Oil Creek at Rouseville, PA	41°28'54"	79°41'44"	300
03022000	869	French Creek at Venango, PA (Reference station)	41°46'19"	80°06'29"	597
03022515	879	Woodcock Creek at Refuge near Hickory Corners, PA (Reference station)	41°39'53"	79°57'53"	10.4
^a 03023100	846	French Creek at Meadville, PA	41°37'57"	80°09'35"	788
03025490	845	French Creek at Franklin, PA	41°24'06"	79°49'54"	1,237
03026175	867	Allegheny River at Kennerdell, PA (Biological only)	41°15'51"	79°50'29"	6,266
^a 03029500	822	Clarion River at Cooksburg, PA	41°19'50"	79°12'33"	807
03030852	843	Clarion River at Callensburg, PA	41°07'47"	79°33'18"	1,163
^a 03031500	803	Allegheny River at Parker, PA (Reference station)	41°06'02"	79°40'53"	7,671
03031505	875	Silver Creek at Walley Mill near North Washington, PA (Reference station)	41°02'39"	79°46'36"	5.50
^a 03032500	820	Redbank Creek at St. Charles, PA	40°59'40"	79°23'40"	528
^a 03034000	861	Mahoning Creek at Punxsutawney, PA	40°56'21"	79°00'31"	158
^a 03036500	802	Allegheny River at Kittanning, PA	40°49'13"	79°31'54"	8,973
03039410	880	Quemahoning Creek at Enoch near Quecreek, PA	40°04'42"	79°06'07"	6.71
03039815	870	Clear Shade Creek above Confluence near Cairnbrook, PA (Reference station)	40°08'54"	78°49'03"	32.1
03044000	810	Conemaugh River at Tunnelton, PA	40°27'16"	79°23'28"	1,358
03044838	878	Mill Creek at Waterford near Wilpen, PA (Reference station)	40°15'06"	79°09'19"	11.7
03049652	801	Allegheny River at Hulton Bridge at Oakmont, PA	40°31'39"	79°50'51"	11,577
03063000	725	Monongahela River at Lock and Dam 8 at Point Marion, PA	39°43'37"	79°54'42"	2,720
03070470	733	Mill Run near Elliottsville, PA (Reference station)	39°45'49"	79°39'49"	9.0
03071700	727	Cheat River at Point Marion, PA	39°44'31"	79°53'59"	1,422
^a 03072000	714	Dunkard Creek at Shannopin, PA	39°45'33"	79°58'15"	229
^a 03075070	702	Monongahela River at Elizabeth, PA	40°15'44"	79°54'05"	5,340
03077500	709	Youghiogheny River at Youghiogheny River Dam, PA	39°48'19"	79°21'52"	436
03078020	726	Casselman River near Salisbury, PA	39°43'56"	79°06'03"	70.8
^a 03083500	706	Youghiogheny River at Sutersville, PA	40°14'24"	79°48'24"	1,715
^a 03085000	701	Monongahela River at Braddock, PA	40°23'28"	79°51'30"	7,337
^a 03086000	901	Ohio River at Sewickley, PA	40°32'57"	80°12'21"	19,500
03099600	915	Mahoning River at North Edinburg, PA	41°01'06"	80°26'27"	1,099
^a 03101500	911	Shenango River at Pymatuning Dam, PA	41°29'53"	80°27'37"	167
^a 03102500	913	Little Shenango River at Greenville, PA	41°25'19"	80°22'35"	104
03103500	910	Shenango River at Sharpsville, PA	41°15'58"	80°28'22"	584

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

TABLE 1.--List of stream sites sampled as part of the Pennsylvania Water-Quality Network (WQN)--continued.

Station number	WQN No.	Location	Latitude	Longitude	Drainage area (mi ²)
03104500	909	Shenango River at New Castle, PA	41°00'00"	80°21'21"	792
03105810	917	Connoquenessing Creek at Renfrew, PA	40°48'21"	79°57'55"	137
^a 03106000	907	Connoquenessing Creek near Zelienople, PA	40°49'01"	80°14'33"	356
^a 03106500	922	Slippery Rock Creek at Wurtemburg, PA	40°53'02"	80°14'02"	398
^a 03107500	905	Beaver River at Beaver Falls, PA	40°45'48"	80°18'55"	3,106
^a 03108000	903	Raccoon Creek at Moffatts Mill, PA	40°37'40"	80°20'16"	178
03109670	901	Ohio River at mile 44.5 at Newell, WV	40°37'10"	80°35'24"	22,784
04212945	643	Conneaut Creek near Cherry Hill, PA	41°55'04"	80°28'09"	149
04213273	641	Twelvemile Creek near Moorheadville, PA (Reference station)	42°12'15"	79°54'46"	12.5

^aOther data for this station can be found in the continuous station records section of this report.

Ninety lakes are part of the WQN. Of these 90 lakes, approximately 15-25 are sampled annually during mid-summer stratification for five years; and then a different set of 15 to 25 lakes is sampled for five years. Using this schedule all 90 lakes are sampled over a 30-year period. Lakes are sampled for physical and chemical parameters and chlorophyll-*a*. Two samples are collected from the deepest point of the lake with the first sample being collected 1-meter below the surface and the second sample collected 1-meter from the bottom. Each sample is analyzed separately. A temperature and DO profile is collected at the site through the water column.

TABLE 2.--List of lakes sampled as part of the Pennsylvania Water-Quality Network.

Station number	WQN No.	Location	Latitude	Longitude	Drainage area (mi ²)
03021545	L811	Union City Reservoir near Union City, PA	41°54'54"	79°48'55"	2.15
03023012	L810W	Tamarack Lake West near Meadville, PA	41°36'45"	80°07'02"	2.11
03023373	L810E	Tamarack Lake East near Meadville, PA	41°34'47"	80°04'39"	2.11
03024228	L809	Sugar Lake near Bradleypoint, PA	41°33'59"	79°56'36"	21.8

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REMARKS.--Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat un- f lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat un- f lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, mg/L (00915)
03008899 Havens Run at SR46 at Norwich, PA (LAT 41 38 53N LONG 078 21 45W)													
FEB 2005													
08...	1045	1028	9813	5.0	1.0	13.7	6.3	7.2	60	49	2.0	17	4.6
MAR													
15...	1400	1028	9813	7.7	2.0	14.2	6.7	6.5	51	50	1.3	14	3.8
APR													
19...	1245	1028	9813	6.7	1.0	10.4	7.0	7.1	46	44	10.8	15	3.9
MAY													
03...	1300	1028	9813	9.1	1.0	11.1	6.3	7.0	47	46	6.2	14	3.6
JUN													
14...	1115	1028	9813	1.8	<1.0	8.3	7.2	7.3	66	69	18.8	22	6.1
JUL													
26...	1230	1028	9813	.64	2.0	8.5	7.2	7.6	72	68	20.7	24	7.1
AUG													
23...	1200	1028	9813	.44	2.0	9.2	7.2	6.8	78	79	16.5	27	6.8
SEP													
07...	1245	1028	9813	--	2.0	9.9	7.4	7.3	76	73	15.7	24	7.0
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)													
NOV 2004													
18...	1200	1028	9813	71	--	13.4	7.9	7.2	315	289	8.0	69	--
JAN 2005													
20...	1215	1028	9813	382	--	16.2	7.0	7.3	157	170	.1	36	--
MAR													
15...	1400	1028	9813	228	--	12.2	6.6	7.6	225	304	2.3	49	--
MAY													
03...	1030	1028	9813	253	--	12.6	7.6	7.6	147	142	6.5	37	--
JUL													
26...	1100	1028	9813	26	--	8.9	7.7	8.0	344	333	22.2	76	--
SEP													
07...	1230	1028	9813	41	--	13.2	8.9	8.6	300	298	20.5	74	--
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)													
NOV 2004													
18...	0930	1028	9813	--	--	11.5	7.4	7.2	128	129	9.7	43	--
JAN 2005													
20...	0915	1028	9813	--	--	16.0	7.0	7.5	95	97	2.0	29	--
MAR													
23...	1345	1028	9813	1970	--	14.2	7.4	7.8	139	145	1.6	40	--
MAY													
25...	1220	1028	9813	1000	--	10.8	7.6	7.8	111	113	14.6	33	--
SEP													
07...	1245	1028	9813	2060	--	9.0	8.1	7.8	138	143	22.0	46	--
03015795 East Hickory Creek near Queen, PA (LAT 41 38 31N LONG 079 20 18W)													
FEB 2005													
24...	1030	1028	9813	36	2.0	14.4	6.7	6.8	41	40	-.5	13	--
APR													
19...	1020	1028	9813	16	1.0	10.7	6.5	6.7	39	42	9.4	11	--
MAY													
24...	1040	1028	9813	13	--	9.6	6.3	--	--	43	10.7	--	--
JUN													
29...	0945	1028	9813	5.0	3.0	8.1	6.4	6.8	45	46	20.0	16	--
JUL													
27...	0745	1028	9813	18	12	8.0	6.9	7.3	49	51	20.0	17	--
AUG													
29...	1020	1028	9813	1.5	1.0	8.7	7.0	6.6	55	59	16.6	19	--
SEP													
08...	0745	1028	9813	1.9	2.0	9.4	6.9	6.5	53	55	13.5	17	--

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover -able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03008899 Havens Run at SR46 at Norwich, PA (LAT 41 38 53N LONG 078 21 45W)													
FEB 2005 08...	4.7	1.2	1.3	10	6.6	<.2	7.1	40	<2	.030	.49	<.040	<.01
MAR 15...	3.8	1.0	1.1	6	5.1	<.2	6.8	44	4	<.020	.47	<.040	<.01
APR 19...	4.0	1.1	1.1	6	3.4	<.2	7.2	44	<2	.030	.39	<.040	<.01
MAY 03...	3.8	.99	1.1	6	4.0	<.2	7.1	26	<2	.020	.40	<.040	<.01
JUN 14...	6.1	1.5	1.5	12	5.1	<.2	7.6	50	<2	<.020	.37	<.040	<.01
JUL 26...	7.0	1.7	1.7	16	5.8	<.2	7.6	50	4	<.020	.23	<.040	<.01
AUG 23...	7.6	1.7	1.9	22	6.2	<.2	8.2	64	<2	.020	.17	<.040	<.01
SEP 07...	6.9	1.7	1.7	15	6.4	<.2	8.3	100	2	.020	.27	<.040	<.01
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)													
NOV 2004 18...	20.7	--	4.3	42	--	<.2	8.0	210	<2	<.020	.14	<.040	<.01
JAN 2005 20...	10.1	--	2.5	23	--	<.2	8.7	100	4	.040	.33	<.040	.01
MAR 15...	13.8	--	3.6	33	--	<.2	9.5	136	8	<.020	.26	<.040	.01
MAY 03...	10.8	--	2.5	26	--	<.2	8.5	86	<2	.020	.22	<.040	<.01
JUL 26...	21.9	--	5.2	54	--	<.2	8.7	206	6	<.020	<.04	<.040	<.01
SEP 07...	22.3	--	4.5	47	--	<.2	8.7	178	<2	.060	<.04	<.040	<.01
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)													
NOV 2004 18...	12.8	--	2.7	35	--	--	8.1	128	<2	<.020	.26	<.040	.01
JAN 2005 20...	8.4	--	2.0	21	--	--	8.3	132	8	.040	.40	<.040	.03
MAR 23...	12.1	--	2.5	29	--	--	9.2	116	<2	.030	.47	<.040	<.01
MAY 25...	10.0	--	2.0	26	--	--	8.9	102	<2	<.020	.31	<.040	<.01
SEP 07...	13.5	--	2.9	35	--	--	8.6	90	12	.030	.09	<.040	.01
03015795 East Hickory Creek near Queen, PA (LAT 41 38 31N LONG 079 20 18W)													
FEB 2005 24...	2.8	--	1.4	6	1.6	<.2	8.7	84	6	.100	.31	<.040	<.01
APR 19...	2.5	--	1.2	5	1.6	<.2	8.5	46	<2	<.020	.19	<.040	<.01
MAY 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	3.5	--	1.6	9	1.4	<.2	7.1	54	4	.030	.15	<.040	.01
JUL 27...	3.9	--	1.8	14	1.4	<.2	5.9	44	2	<.020	.11	<.040	.03
AUG 29...	4.3	--	2.0	24	2.3	<.2	5.2	36	6	<.020	.12	<.040	.01
SEP 08...	3.9	--	1.7	18	2.3	<.2	6.9	82	4	.030	.14	<.040	<.01

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MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover- able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover- able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unf mg/L (00722)
03008899 Havens Run at SR46 at Norwich, PA (LAT 41 38 53N LONG 078 21 45W)													
FEB 2005													
08...	<.010	.67	--	1.0	<20	10	40	<4.0	30	<.20	<4	<4	--
MAR													
15...	<.010	.47	--	2.2	<20	<10	50	<4.0	20	<.20	<4	<4	--
APR													
19...	<.010	.38	.8	7.6	10	10	50	<4.0	20	<.20	<4	<4	--
MAY													
03...	<.010	.52	.8	.4	<20	<10	30	<4.0	20	<.20	<4	<4	--
JUN													
14...	<.010	.36	1.1	.7	40	30	40	<4.0	30	<.20	<4	<4	--
JUL													
26...	<.010	.21	1.2	.4	40	30	50	<4.0	30	<.20	<4	7	--
AUG													
23...	<.010	.26	1.1	<.2	120	20	50	<4.0	30	<.20	<4	<4	--
SEP													
07...	<.010	.31	--	<.2	20	30	40	<4.0	30	<.20	<4	<4	--
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)													
NOV 2004													
18...	<.010	.38	1.7	--	--	--	<200	--	--	--	--	<10	<1.00
JAN 2005													
20...	<.010	.50	1.3	--	--	--	310	--	--	--	--	<10	<1.00
MAR													
15...	.012	.34	1.4	--	--	--	<200	--	--	--	--	<10	<1.00
MAY													
03...	.011	.32	--	--	--	--	<200	--	--	--	--	<10	<1.00
JUL													
26...	<.010	.11	--	--	--	--	<200	--	--	--	--	<10	<1.00
SEP													
07...	.017	.15	--	--	--	--	<200	--	--	--	--	<10	<1.00
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)													
NOV 2004													
18...	.030	.44	2.5	--	--	--	210	--	--	--	--	<10	--
JAN 2005													
20...	.020	.64	1.7	--	--	--	370	--	--	--	--	<10	--
MAR													
23...	.014	.48	1.4	--	--	--	<200	--	--	--	--	<10	--
MAY													
25...	.017	.51	--	--	--	--	<200	--	--	--	--	<10	--
SEP													
07...	.012	.29	--	--	--	--	<200	--	--	--	--	<10	--
03015795 East Hickory Creek near Queen, PA (LAT 41 38 31N LONG 079 20 18W)													
FEB 2005													
24...	<.010	.63	--	.5	<10	40	60	<4.0	20	<.20	<4	<4	--
APR													
19...	<.010	.23	--	3.5	<20	20	100	<4.0	20	<.20	<4	<4	--
MAY													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
29...	.020	.30	--	.7	--	10	130	<4.0	20	<.20	<4	<4	--
JUL													
27...	.041	.28	--	.8	650	60	470	<4.0	30	<.20	<4	4	--
AUG													
29...	.011	.25	--	1.1	80	30	120	<4.0	20	<.20	<4	<4	--
SEP													
08...	.014	.19	--	.7	<20	30	100	<4.0	20	<.20	<4	<4	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03008899 Havens Run at SR46 at Norwich, PA (LAT 41 38 53N LONG 078 21 45W)											
FEB 2005 08...	<20	80	<1.0	<1.0	10	20	<4.0	<4.0	5.3	<5.0	<5
MAR 15...	20	90	<1.0	<1.0	<10	10	<4.0	<4.0	<5.0	5.4	<5
APR 19...	20	80	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	<5.0	8
MAY 03...	<20	60	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	<5.0	<5
JUN 14...	20	130	<1.0	<1.0	20	20	<4.0	<4.0	<5.0	<5.0	<5
JUL 26...	<20	130	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
AUG 23...	<20	250	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0	<5
SEP 07...	30	110	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)											
NOV 2004 18...	--	300	--	<1.0	--	110	--	<50	--	<10	<5
JAN 2005 20...	--	540	--	<1.0	--	100	--	<50	--	<10	<5
MAR 15...	--	600	--	<1.0	--	130	--	<50	--	<10	<5
MAY 03...	--	330	--	<1.0	--	80	--	<50	--	<10	<5
JUL 26...	--	430	--	<1.0	--	100	--	<50	--	20	<5
SEP 07...	--	490	--	<1.0	--	80	--	<50	--	<10	<5
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)											
NOV 2004 18...	--	330	--	<1.0	--	80	--	<50	--	<10	--
JAN 2005 20...	--	630	--	<1.0	--	40	--	<50	--	<10	--
MAR 23...	--	220	--	<1.0	--	40	--	<50	--	<10	--
MAY 25...	--	70	--	<1.0	--	20	--	<50	--	<10	--
SEP 07...	--	70	--	<1.0	--	60	--	<50	--	<10	--
03015795 East Hickory Creek near Queen, PA (LAT 41 38 31N LONG 079 20 18W)											
FEB 2005 24...	80	130	<1.0	<1.0	20	20	<4.0	<4.0	--	--	<5
APR 19...	70	230	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	5.6	<5
MAY 24...	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	810	810	<1.0	<1.0	20	30	<4.0	4.9	<5.0	<5.0	<5
JUL 27...	390	1390	<1.0	<1.0	30	70	<4.0	<4.0	<5.0	5.7	5
AUG 29...	280	640	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0	<5
SEP 08...	50	610	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0	<5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Pressure, osmotic water, unfltrd mosm/kg (82550)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfl lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfl lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)													
NOV 2004 16...	1115	1028	9813	144	--	14.2	7.4	6.9	69	63	2.3	21	5.0
JAN 2005 18...	1230	1028	9813	1040	--	15.3	6.9	7.0	48	49	.1	14	3.5
MAR 22...	1405	1028	9813	385	--	12.1	6.8	6.6	77	81	4.3	19	5.1
MAY 24...	1355	1028	9813	190	--	10.2	6.9	7.4	65	67	12.7	19	4.8
JUL 26...	0855	1028	9813	42	--	8.0	7.4	7.7	100	106	22.5	31	7.9
SEP 08...	1120	1028	9813	44	--	10.3	7.6	6.7	95	98	17.5	28	8.0
03017800 Minister Creek at Trumans, PA (LAT 41 37 16N LONG 079 09 11W)													
OCT 2004 21...	1200	1028	9813	7.6	1.0	11.0	6.4	6.5	33	30	9.6	10	2.1
NOV 17...	1000	1028	9813	10	<1.0	12.6	6.6	6.5	33	31	5.0	10	2.3
DEC 15...	1415	1028	9813	23	1.0	13.6	6.3	6.2	32	32	2.4	10	2.2
JAN 2005 19...	1130	1028	9813	42	2.0	15.3	5.9	6.6	29	30	.8	10	2.2
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)													
OCT 2004 20...	1045	1028	9813	12	1.0	10.6	7.1	7.0	96	100	8.5	33	--
NOV 17...	0845	1028	9813	12	1.0	12.1	7.0	6.8	80	83	4.5	26	--
DEC 27...	1030	1028	9813	40	3.0	14.0	6.7	7.1	64	102	.0	20	--
JAN 2005 12...	0900	1028	9813	120	2.0	13.0	6.5	7.2	61	65	3.0	19	--
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)													
OCT 2004 21...	1200	1028	9813	1130	3.0	10.3	7.6	7.6	236	230	10.0	95	--
NOV 16...	0830	1028	9813	590	5.0	12.2	7.4	7.9	268	276	4.0	110	--
DEC 15...	0915	1028	9813	2040	5.0	13.3	7.8	7.8	188	196	1.0	75	--
JAN 2005 11...	0855	1028	9813	2900	3.0	13.5	7.2	7.8	161	166	2.0	63	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover- able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover- able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)													
NOV 2004 16...	5.2	1.7	1.8	16	--	--	7.4	68	4	<.020	.30	<.040	<.01
JAN 2005 18...	3.5	1.3	1.4	9	--	--	8.4	56	<2	.020	.44	<.040	<.01
MAR 22...	4.9	1.6	1.6	9	--	--	8.7	52	2	<.020	.40	<.040	<.01
MAY 24...	5.0	1.6	1.7	13	--	--	8.1	36	<2	.060	.23	<.040	<.01
JUL 26...	8.2	2.4	2.5	31	--	--	6.8	62	<2	.030	.08	<.040	<.01
SEP 08...	7.6	2.4	2.3	27	--	--	8.0	74	<2	.030	.16	<.040	<.01
03017800 Minister Creek at Trumans, PA (LAT 41 37 16N LONG 079 09 11W)													
OCT 2004 21...	2.2	.99	1.0	6	1.1	<.2	6.5	22	2	<.020	.13	<.040	<.01
NOV 17...	2.3	1.0	1.1	5	.9	<.2	6.6	46	20	<.020	.27	<.040	<.01
DEC 15...	2.2	.99	1.0	4	1.1	<.2	7.3	56	<2	.020	.30	<.040	<.01
JAN 2005 19...	2.1	1.0	1.0	5	.8	<.2	7.6	34	10	.040	.36	<.040	<.01
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)													
OCT 2004 20...	8.8	--	2.6	24	8.2	<.2	7.2	72	4	<.020	.08	<.040	<.01
NOV 17...	6.9	--	2.1	23	4.6	<.2	8.0	66	22	.030	.40	<.040	<.01
DEC 27...	5.1	--	1.7	13	3.7	<.2	8.4	40	6	<.020	.67	<.040	<.01
JAN 2005 12...	5.1	--	1.5	13	4.4	<.2	8.1	48	<2	<.020	.49	<.040	.01
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)													
OCT 2004 21...	28.7	--	5.7	81	15.2	<.2	10.5	174	2	<.020	.46	<.040	.03
NOV 16...	34.9	--	6.4	98	15.4	<.2	11.7	190	10	.030	.91	<.040	.02
DEC 15...	22.8	--	4.4	63	11.5	<.2	9.9	136	4	.030	.62	<.040	.02
JAN 2005 11...	19.3	--	3.6	52	10.3	<.2	9.1	134	18	<.020	.69	<.040	.03

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover -able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, unfltrd recover -able, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unfl mg/L (00722)
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)													
NOV 2004 16...	<.010	.37	--	1.2	--	<10	20	--	--	--	<4	<4	--
JAN 2005 18...	<.010	.68	--	1.5	--	30	140	--	--	--	<4	<4	--
MAR 22...	<.010	.41	--	1.0	--	20	100	--	--	--	<4	<4	--
MAY 24...	.014	.33	--	.8	--	10	50	--	--	--	<4	<4	--
JUL 26...	.013	.19	--	.7	--	30	100	--	--	--	<4	<4	--
SEP 08...	.013	.24	--	.8	--	30	90	--	--	--	<4	<4	--
03017800 Minister Creek at Trumans, PA (LAT 41 37 16N LONG 079 09 11W)													
OCT 2004 21...	<.010	.17	--	.3	<20	40	60	<4.0	30	<.20	<4	<4	--
NOV 17...	<.010	.33	--	.9	<20	20	30	<4.0	30	<.20	<4	<4	--
DEC 15...	<.010	.59	--	.4	<10	40	50	<4.0	40	<.20	<4	<4	--
JAN 2005 19...	<.010	.40	--	1.1	<20	80	90	<4.0	38	<.20	<4	<4	--
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)													
OCT 2004 20...	.013	.33	--	1.0	220	10	60	<4.0	30	<.20	<4	<4	--
NOV 17...	.012	.58	--	.6	<20	<10	40	<4.0	20	<.20	<4	<4	--
DEC 27...	<.010	1.0	--	.5	<20	20	80	<4.0	20	<.20	<4	<4	--
JAN 2005 12...	.011	.45	--	1.3	50	70	220	<4.0	20	<.20	<4	<4	--
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)													
OCT 2004 21...	.046	.80	--	1.4	2000	10	270	<4.0	30	<.20	<4	<4	--
NOV 16...	.024	1.2	--	1.9	100	10	40	<4.0	30	<.20	<4	<4	--
DEC 15...	.020	.86	--	1.2	80	30	280	<4.0	20	<.20	<4	5	--
JAN 2005 11...	.029	.80	--	1.4	180	20	520	<4.0	20	<.20	<4	<4	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, fltrd, µg/L (01056)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover-able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)	Phen-olic com-pounds, water, unfltrd µg/L (32730)
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)											
NOV 2004 16...	80	240	<1.0	<1.0	30	30	<4.0	<4.0	<5.0	<5.0	--
JAN 2005 18...	50	220	<1.0	<1.0	40	50	<4.0	<4.0	7.7	12	--
MAR 22...	70	270	<1.0	<1.0	40	50	<4.0	<4.0	5.0	5.0	--
MAY 24...	120	290	<1.0	<1.0	30	40	<4.0	<4.0	<5.0	<5.0	--
JUL 26...	110	480	<1.0	<1.0	60	80	<4.0	<4.0	<5.0	9.2	--
SEP 08...	190	470	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0	--
03017800 Minister Creek at Trumans, PA (LAT 41 37 16N LONG 079 09 11W)											
OCT 2004 21...	50	100	<1.0	<1.0	10	10	<4.0	<4.0	5.7	5.8	<5
NOV 17...	30	70	<1.0	<1.0	5	6	<4.0	<4.0	<5.0	<5.0	<5
DEC 15...	--	--	<1.0	<1.0	20	20	<4.0	<4.0	12	12	<5
JAN 2005 19...	<20	50	<1.0	<1.0	40	40	<4.0	<4.0	14	15	<5
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)											
OCT 2004 20...	160	480	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
NOV 17...	90	270	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
DEC 27...	80	170	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
JAN 2005 12...	160	590	<1.0	<1.0	20	30	<4.0	<4.0	<5.0	<5.0	<5
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)											
OCT 2004 21...	80	700	<1.0	<1.0	20	50	<4.0	<4.0	<5.0	<5.0	<5
NOV 16...	150	400	<1.0	<1.0	50	60	<4.0	<4.0	<5.0	5.6	<5
DEC 15...	100	610	<1.0	<1.0	20	40	<4.0	<4.0	<5.0	<5.0	<5
JAN 2005 11...	70	870	<1.0	1.5	20	50	<4.0	<4.0	<5.0	<5.0	<5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)
03022515 Woodcock Creek at Refuge near Hickory Corners, PA (LAT 41 39 53N LONG 079 57 53W)													
FEB 2005													
23...	1050	1028	9813	23	3.0	13.1	7.2	7.6	128	133	1.5	45	--
MAR													
16...	1100	1028	9813	8.7	4.0	13.1	7.2	7.6	158	162	1.5	61	--
APR													
18...	1130	1028	9813	6.8	3.0	10.2	7.3	7.8	163	165	13.3	67	20.0
MAY													
17...	1000	1028	9813	8.0	<1.0	10.1	7.6	7.6	151	152	10.0	63	18.3
JUN													
28...	1045	1028	9813	2.0	5.0	7.6	7.6	8.0	230	241	26.0	110	32.4
JUL													
19...	1045	1028	9813	1.7	4.0	5.3	7.3	7.7	220	232	23.5	99	31.6
AUG													
18...	0815	1028	9813	.44	5.0	4.6	7.3	--	--	263	18.0	130	37.4
SEP													
20...	1115	1028	9813	.32	2.0	4.8	7.4	7.8	268	276	17.5	130	37.9
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)													
NOV 2004													
23...	0900	1028	9813	1430	--	11.4	7.4	7.9	247	247	7.0	95	--
MAR 2005													
17...	0845	1028	9813	1630	--	13.3	8.2	7.9	236	243	1.3	89	--
MAY													
18...	0900	1028	9813	1600	--	9.0	8.0	8.1	214	218	12.6	80	--
JUL													
20...	0845	1028	9813	812	--	7.3	7.4	8.1	276	292	25.0	110	--
SEP													
21...	0900	1028	9813	261	--	8.7	8.0	8.1	341	342	19.5	130	--
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)													
MAR 2005													
17...	1230	1028	9813	6940	--	14.0	7.2	7.9	177	183	3.5	58	--
MAY													
18...	1345	1028	9813	7110	--	10.9	8.4	8.4	158	163	15.3	55	--
JUL													
20...	1335	1028	9813	3670	--	7.7	8.0	8.0	197	207	27.0	65	--
SEP													
21...	1300	1028	9813	3330	--	8.3	8.0	7.6	231	235	21.5	75	--
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)													
NOV 2004													
18...	1115	1028	9813	1430	--	11.0	6.8	6.8	258	263	7.0	78	--
JAN 2005													
13...	1145	1028	9813	10100	--	13.6	6.4	6.8	139	144	4.5	46	--
MAR													
21...	1330	1028	9813	2890	--	12.8	6.4	6.8	226	238	2.3	63	--
MAY													
19...	0840	1028	9813	818	--	9.2	6.9	7.0	278	278	13.7	84	--
JUL													
21...	0820	1028	9813	174	--	7.6	6.7	7.4	335	350	23.5	80	--
SEP													
22...	0830	1028	9813	217	--	8.3	7.0	6.5	236	244	18.5	61	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover -able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03022515 Woodcock Creek at Refuge near Hickory Corners, PA (LAT 41 39 53N LONG 079 57 53W)													
FEB 2005 23...	13.7	--	2.5	33	12.0	<.2	9.6	94	12	.050	.32	<.040	<.01
MAR 16...	18.5	--	3.5	48	11.4	<.2	11.4	118	4	.030	.36	<.040	<.01
APR 18...	20.7	3.7	3.8	58	7.8	<.2	11.0	156	<2	.040	.20	<.040	.01
MAY 17...	19.4	3.2	3.4	55	8.1	<.2	8.1	114	6	.020	.12	<.040	.02
JUN 28...	32.7	5.7	5.8	101	8.4	<.2	8.5	192	4	.070	<.04	<.040	.03
JUL 19...	30.3	5.5	5.7	80	7.6	<.2	21.8	136	<2	.040	.06	<.040	.04
AUG 18...	38.8	6.8	7.1	--	8.4	<.2	10.2	176	<2	.070	<.04	<.040	.03
SEP 20...	38.1	7.4	7.8	116	9.1	<.2	12.2	194	<2	.040	<.04	<.040	.02
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)													
NOV 2004 23...	28.6	--	5.8	87	--	--	12.1	170	2	<.020	.64	<.040	.01
MAR 2005 17...	27.2	--	5.1	69	--	--	13.1	156	2	.030	.95	<.040	.01
MAY 18...	23.4	--	5.1	74	--	--	10.9	160	4	<.020	.40	<.040	.01
JUL 20...	33.9	--	6.5	97	--	--	15.8	192	12	.030	.53	<.040	.02
SEP 21...	38.8	--	8.8	112	--	--	18.0	236	<2	.030	.27	<.040	<.01
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)													
MAR 2005 17...	17.6	--	3.5	44	--	--	11.7	122	<2	.030	.59	<.040	<.01
MAY 18...	16.1	--	3.5	46	--	--	11.0	146	6	<.020	.29	<.040	<.01
JUL 20...	19.6	--	3.9	51	--	--	11.7	144	4	.030	.37	<.040	.02
SEP 21...	21.4	--	5.1	59	--	--	11.7	154	12	<.020	.16	<.040	<.01
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)													
NOV 2004 18...	18.4	--	7.8	12	--	--	84.0	192	14	.030	.26	<.040	<.01
JAN 2005 13...	10.7	--	4.6	8	--	--	45.5	94	<2	.020	.40	<.040	<.01
MAR 21...	15.4	--	6.0	7	--	--	68.9	178	8	.070	.44	<.040	.01
MAY 19...	19.3	--	8.6	10	--	--	97.6	180	4	.040	.24	<.040	<.01
JUL 21...	20.2	--	7.1	21	--	--	100	252	12	.080	.36	<.040	<.01
SEP 22...	14.6	--	5.9	15	--	--	71.6	186	14	<.020	.33	<.040	.01

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover -able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unfl mg/L (00722)
03022515 Woodcock Creek at Refuge near Hickory Corners, PA (LAT 41 39 53N LONG 079 57 53W)													
FEB 2005 23...	<.010	.93	--	.2	40	10	90	<4.0	10	<.20	<4	<4	--
MAR 16...	.011	.51	--	.8	20	<10	80	<4.0	20	<.20	<4	<4	--
APR 18...	.022	.35	2.8	6.3	<20	<10	110	<4.0	20	<.20	<4	<4	--
MAY 17...	.029	.40	4.6	.4	100	20	190	<4.0	20	<.20	<4	<4	--
JUN 28...	.039	.35	5.1	80.0	340	110	100	4.2	30	<.20	<4	<4	--
JUL 19...	.075	.39	6.1	1.0	1100	20	120	<4.0	30	<.20	<4	<4	--
AUG 18...	.053	.22	4.9	1.1	240	20	110	<4.0	30	<.20	<4	<4	--
SEP 20...	.047	.32	5.8	.6	400	<10	90	<4.0	30	<.20	<4	<4	--
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)													
NOV 2004 23...	.016	1.0	3.0	--	--	--	<200	--	--	--	--	<10	--
MAR 2005 17...	.019	1.1	2.2	--	--	--	<200	--	--	--	--	<10	--
MAY 18...	.029	.70	--	--	--	--	<200	--	--	--	--	<10	--
JUL 20...	.049	.74	--	--	--	--	240	--	--	--	--	<10	--
SEP 21...	.016	.46	--	--	--	--	<200	--	--	--	--	<10	--
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)													
MAR 2005 17...	.015	.68	1.7	--	--	--	<200	--	--	--	--	<10	--
MAY 18...	.012	.61	--	--	--	--	<200	--	--	--	--	<10	--
JUL 20...	.032	.52	--	--	--	--	<200	--	--	--	--	<10	--
SEP 21...	.020	.30	--	--	--	--	<200	--	--	--	--	<10	--
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)													
NOV 2004 18...	.014	.38	1.9	--	--	--	300	--	--	--	--	<10	--
JAN 2005 13...	<.010	.43	1.4	--	--	--	480	--	--	--	--	<10	--
MAR 21...	.010	.58	1.6	--	--	--	450	--	--	--	--	<10	--
MAY 19...	<.010	.43	--	--	--	--	290	--	--	--	--	<10	--
JUL 21...	<.010	.49	--	--	--	--	<200	--	--	--	--	<10	--
SEP 22...	.016	.42	--	--	--	--	<200	--	--	--	--	<10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03022515 Woodcock Creek at Refuge near Hickory Corners, PA (LAT 41 39 53N LONG 079 57 53W)											
FEB 2005 23...	130	310	<1.0	<1.0	40	40	<4.0	<4.0	<5.0	<5.0	<5
MAR 16...	80	440	<1.0	<1.0	70	80	<4.0	<4.0	<5.0	<5.0	<5
APR 18...	140	580	<1.0	<1.0	70	90	<4.0	<4.0	<5.0	<5.0	<5
MAY 17...	480	940	<1.0	<1.0	100	100	<4.0	<4.0	<5.0	<5.0	<5
JUN 28...	100	860	<1.0	<1.0	480	520	<4.0	<4.0	<5.0	<5.0	<5
JUL 19...	80	1220	<1.0	<1.0	530	560	<4.0	<4.0	<5.0	<5.0	<5
AUG 18...	480	860	<1.0	<1.0	500	510	<4.0	<4.0	5.6	<5.0	<5
SEP 20...	20	660	<1.0	<1.0	560	590	<4.0	<4.0	--	--	<5
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)											
NOV 2004 23...	--	340	--	<1.0	--	20	--	<50	--	80	--
MAR 2005 17...	--	380	--	<1.0	--	40	--	<50	--	<10	--
MAY 18...	--	370	--	<1.0	--	30	--	<50	--	<10	--
JUL 20...	--	410	--	<1.0	--	80	--	<50	--	<10	--
SEP 21...	--	100	--	<1.0	--	20	--	<50	--	<10	--
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)											
MAR 2005 17...	--	190	--	<1.0	--	30	--	<50	--	<10	--
MAY 18...	--	200	--	<1.0	--	30	--	<50	--	<10	--
JUL 20...	--	180	--	<1.0	--	70	--	<50	--	<10	--
SEP 21...	--	130	--	<1.0	--	80	--	<50	--	<10	--
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)											
NOV 2004 18...	--	820	--	<1.0	--	960	--	<50	--	30	--
JAN 2005 13...	--	860	--	<1.0	--	780	--	<50	--	40	--
MAR 21...	--	970	--	<1.0	--	840	--	<50	--	30	--
MAY 19...	--	630	--	<1.0	--	1200	--	<50	--	30	--
JUL 21...	--	230	--	<1.0	--	570	--	<50	--	<10	--
SEP 22...	--	230	--	<1.0	--	220	--	<50	--	<10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)
03031505 Silver Creek at Walley Mill nr North Washington PA (LAT 41 02 39N LONG 079 46 36W)													
OCT 2004													
26...	1250	1028	9813	2.6	2.0	11.1	7.2	7.1	190	195	9.5	66	--
NOV													
22...	1030	1028	9813	2.5	2.0	11.5	7.1	7.3	172	169	7.0	61	--
DEC													
13...	1045	1028	9813	20	3.0	11.8	6.3	7.2	129	145	5.0	45	--
03039410 Quemahoning Creek at Enoch near Quecreek, PA (LAT 40 04 42N LONG 079 06 07W)													
FEB 2005													
16...	1115	1028	9813	34	4.0	11.4	7.0	7.3	281	287	4.8	51	--
MAR													
08...	1415	1028	9813	42	6.0	12.3	6.7	7.2	386	385	3.3	52	--
APR													
27...	1145	1028	9813	7.1	6.0	10.6	7.1	7.4	390	397	11.8	68	19.9
MAY													
10...	0800	1028	9813	3.1	2.0	8.9	7.6	7.3	402	403	11.3	85	23.4
JUN													
23...	0745	1028	9813	.97	4.0	7.3	7.2	7.7	465	481	17.5	110	30.5
JUL													
13...	0730	1028	9813	1.1	10	5.9	7.2	7.2	524	545	21.0	130	33.6
AUG													
10...	0745	1028	9813	.29	9.0	5.8	7.2	7.5	531	552	20.0	140	37.8
SEP													
27...	1215	1028	9813	.56	10	6.5	7.3	7.6	519	529	17.5	150	40.5
03039815 Clear Shade Creek ab Confluence nr Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)													
OCT 2004													
21...	0915	1028	9813	37	<1.0	10.9	6.2	6.5	44	42	8.9	14	4.4
NOV													
16...	1030	1028	9813	49	1.0	13.3	5.1	6.5	42	35	4.1	14	4.0
DEC													
07...	0900	1028	9813	93	<1.0	11.6	5.2	6.3	38	36	5.8	11	3.4
JAN 2005													
19...	1345	1028	9813	101	3.0	14.5	6.3	6.7	36	46	.0	12	3.4
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)													
NOV 2004													
09...	0910	1028	9813	1300	--	11.0	7.1	7.0	478	481	8.0	170	--
JAN 2005													
25...	0915	1028	9813	2500	--	13.0	6.7	6.8	441	432	.5	160	--
MAR													
09...	1245	1028	9813	6440	--	12.4	6.8	7.2	410	420	3.3	130	--
MAY													
11...	1310	1028	9813	915	--	9.6	7.0	7.0	614	620	19.2	200	--
JUL													
18...	1015	1028	9813	599	--	7.7	7.9	7.5	948	111	25.0	340	--
SEP													
28...	1245	1028	9813	600	--	8.6	7.1	7.4	944	980	21.0	330	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover- able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover- able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03031505 Silver Creek at Walley Mill nr North Washington PA (LAT 41 02 39N LONG 079 46 36W)													
OCT 2004 26...	17.0	--	5.7	29	15.2	<.2	31.6	138	<2	<.020	.48	<.040	<.01
NOV 22...	16.4	--	4.9	26	13.5	<.2	27.9	108	<2	<.020	.80	<.040	<.01
DEC 13...	11.6	--	3.9	16	9.6	<.2	20.6	128	10	<.020	1.52	<.040	<.01
03039410 Quemahoning Creek at Enoch near Quecreek, PA (LAT 40 04 42N LONG 079 06 07W)													
FEB 2005 16...	14.5	--	3.5	21	56.1	<.2	14.4	156	18	.030	1.99	<.040	.01
MAR 08...	15.1	--	3.5	19	94.4	<.2	13.6	220	34	.050	1.73	<.040	.01
APR 27...	19.4	4.6	4.6	34	86.6	<.2	15.8	232	4	<.020	1.17	<.040	.01
MAY 10...	23.8	6.1	6.2	44	81.6	<.2	14.8	268	2	.070	1.01	<.040	.02
JUN 23...	30.9	8.1	8.2	58	99.4	<.2	13.2	308	32	.070	.68	<.200	.05
JUL 13...	34.8	10.6	9.6	65	123	<.2	12.0	424	22	.080	.26	<.200	.04
AUG 10...	40.1	9.2	9.9	67	122	<.2	12.1	446	8	.060	.22	<.040	.05
SEP 27...	41.3	10.0	10.3	78	112	<.2	12.3	430	24	.040	.20	<.040	.03
03039815 Clear Shade Creek ab Confluence nr Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)													
OCT 2004 21...	4.1	.9	.9	6	2.6	<.2	8.2	28	4	<.020	.21	<.040	<.01
NOV 16...	4.0	.9	.9	6	2.2	<.2	7.8	44	2	<.020	.33	<.040	<.01
DEC 07...	3.3	.8	.8	4	1.9	<.2	8.6	26	<2	.030	.32	<.040	<.01
JAN 2005 19...	3.4	.9	.9	5	1.9	<.2	8.4	24	<2	.040	.33	<.040	<.01
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)													
NOV 2004 09...	44.1	--	14.0	24	--	--	322	332	6	.130	.73	<.040	<.01
JAN 2005 25...	41.0	--	13.4	18	--	--	156	312	2	.500	1.04	<.040	<.01
MAR 09...	32.7	--	11.4	17	--	--	101	276	4	.160	1.05	<.040	<.01
MAY 11...	52.3	--	16.2	14	--	--	204	406	4	.180	.70	<.040	<.01
JUL 18...	89.8	--	29.0	22	--	--	305	822	<2	.090	1.03	<.200	.01
SEP 28...	87.9	--	27.7	22	--	--	296	722	2	.040	.97	<.040	<.01

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover -able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unf mg/L (00722)
03031505 Silver Creek at Walley Mill nr North Washington PA (LAT 41 02 39N LONG 079 46 36W)													
OCT 2004 26...	<.010	.68	--	.5	120	<10	20	<4.0	70	<.20	<4	<4	--
NOV 22...	<.010	1.0	--	.8	<20	<10	60	<4.0	60	<.20	<4	<4	--
DEC 13...	<.010	1.7	--	<.2	--	<10	50	<4.0	70	<.20	<4	<4	--
03039410 Quemahoning Creek at Enoch near Quecreek, PA (LAT 40 04 42N LONG 079 06 07W)													
FEB 2005 16...	.035	2.7	--	.4	550	150	770	<4.0	50	<.20	<4	<4	--
MAR 08...	.036	1.9	--	.6	240	230	970	<4.0	50	<.20	<4	<4	--
APR 27...	.010	1.2	1.5	.9	120	50	140	<4.0	50	<.20	<4	<4	--
MAY 10...	.024	1.6	1.9	2.1	380	<10	230	<4.0	70	<.20	<4	<4	--
JUN 23...	.030	.85	2.6	.7	1000	20	850	<4.0	80	<.20	<4	<4	--
JUL 13...	.042	.57	3.2	.8	1000	20	440	<4.0	90	<.20	<4	<4	--
AUG 10...	.036	.48	3.0	.6	2100	40	430	<4.0	80	<.20	<4	<4	--
SEP 27...	.033	.57	4.2	1.6	1500	<10	290	<4.0	90	<.20	<4	<4	--
03039815 Clear Shade Creek ab Confluence nr Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)													
OCT 2004 21...	<.010	.25	--	.6	<20	130	220	<4.0	40	<.20	<4	<4	--
NOV 16...	<.010	.54	--	.7	<20	70	180	<4.0	40	<.20	<4	<4	--
DEC 07...	<.010	.36	--	.2	<20	80	230	<4.0	40	<.20	<4	<4	--
JAN 2005 19...	<.010	.38	--	1.4	<10	80	280	<4.0	40	<.20	<4	<4	--
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)													
NOV 2004 09...	.020	1.0	1.6	--	--	--	300	--	--	--	--	<10	--
JAN 2005 25...	.012	1.3	1.2	--	--	--	760	--	--	--	--	<10	--
MAR 09...	<.010	1.2	1.3	--	--	--	250	--	--	--	--	<10	--
MAY 11...	.016	1.8	--	--	--	--	<200	--	--	--	--	<10	--
JUL 18...	.015	1.2	--	--	--	--	300	--	--	--	--	<10	--
SEP 28...	.019	1.3	--	--	--	--	<200	--	--	--	--	<10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover- able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover- able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03031505 Silver Creek at Walley Mill nr North Washington PA (LAT 41 02 39N LONG 079 46 36W)											
OCT 2004 26...	50	190	<1.0	<1.0	60	60	<4.0	<4.0	<5.0	<5.0	<5
NOV 22...	90	170	<1.0	<1.0	50	50	<4.0	<4.0	<5.0	<5.0	<5
DEC 13...	20	120	<1.0	<1.0	30	40	<4.0	<4.0	<5.0	<5.0	<5
03039410 Quemahoning Creek at Enoch near Quecreek, PA (LAT 40 04 42N LONG 079 06 07W)											
FEB 2005 16...	210	1100	<1.0	<1.0	30	50	<4.0	<4.0	<5.0	5.3	<5
MAR 08...	370	1580	<1.0	1.2	30	60	<4.0	<4.0	<5.0	7.6	<5
APR 27...	100	310	<1.0	<1.0	50	60	<4.0	<4.0	<5.0	<5.0	<5
MAY 10...	80	430	<1.0	<1.0	40	50	<4.0	<4.0	<5.0	<5.0	<5
JUN 23...	40	1040	<1.0	<1.0	140	160	<4.0	<4.0	<5.0	<5.0	<5
JUL 13...	40	1110	<1.0	<1.0	160	220	<4.0	<4.0	<5.0	<5.0	<5
AUG 10...	70	920	<1.0	<1.0	90	120	<4.0	<4.0	<5.0	<5.0	<5
SEP 27...	30	870	<1.0	<1.0	50	70	<4.0	<4.0	--	--	6
03039815 Clear Shade Creek ab Confluence nr Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)											
OCT 2004 21...	90	160	<1.0	<1.0	50	50	<4.0	<4.0	11	11	<5
NOV 16...	50	100	<1.0	<1.0	40	50	<4.0	<4.0	10	9.4	<5
DEC 07...	150	150	<1.0	<1.0	70	70	<4.0	<4.0	15	15	<5
JAN 2005 19...	30	60	<1.0	<1.0	70	80	<4.0	<4.0	14	15	<5
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)											
NOV 2004 09...	--	1570	--	<1.0	--	650	--	<50	--	20	--
JAN 2005 25...	--	3190	--	2.6	--	1070	--	<50	--	70	--
MAR 09...	--	800	--	<1.0	--	590	--	<50	--	40	--
MAY 11...	--	560	--	<1.0	--	760	--	<50	--	40	--
JUL 18...	--	920	--	2.8	--	580	--	<50	--	50	--
SEP 28...	--	200	--	<1.0	--	220	--	<50	--	10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)
03044838 Mill Creek at Waterford near Wilpen, PA (LAT 40 15 06N LONG 079 09 19W)													
FEB 2005													
17...	1100	1028	9813	53	1.0	12.9	6.0	6.9	49	52	3.6	15	--
MAR													
09...	0845	1028	9813	36	<1.0	13.3	6.6	6.9	58	61	1.0	17	--
APR													
28...	0900	1028	9813	15	3.0	11.3	6.8	6.8	53	55	8.0	17	--
MAY													
11...	0855	1028	9813	12	1.0	9.9	7.0	6.8	50	52	12.8	17	4.9
JUN													
22...	1100	1028	9813	6.4	<1.0	8.8	6.6	7.2	50	50	16.0	18	4.6
JUL													
13...	1130	1028	9813	3.8	3.0	9.0	7.0	6.9	51	54	19.0	20	5.7
AUG													
10...	1130	1028	9813	2.2	2.0	8.8	7.2	6.8	57	59	19.0	21	5.3
SEP													
28...	0815	1028	9813	1.1	4.0	9.6	7.0	7.3	56	59	12.5	22	6.1
03049652 Allegheny River at Hulton Bridge at Oakmont, PA (LAT 40 31 39N LONG 079 50 51W)													
NOV 2004													
10...	0950	1028	9813	15100	--	11.2	7.5	7.7	271	270	10.0	99	--
JAN 2005													
19...	1100	1028	9813	59500	--	14.9	8.4	6.9	156	165	1.5	55	--
MAR													
10...	1030	1028	9813	34100	--	13.7	7.2	7.6	299	300	2.9	100	--
MAY													
05...	0945	1028	9813	19900	--	11.3	8.6	7.7	209	216	10.6	72	--
JUL													
14...	0945	1028	9813	3460	--	8.1	7.6	7.2	337	357	28.0	110	--
SEP													
15...	0950	1028	9813	4590	--	8.3	7.7	7.8	313	327	25.0	94	--
03063000 Monongahela R at Lock & Dam 8, at Pnt Marion, PA (LAT 39 43 37N LONG 079 54 42W)													
NOV 2004													
08...	1030	1028	9813	10100	--	11.4	7.4	7.2	202	204	12.0	76	--
JAN 2005													
24...	1130	1028	9813	8100	--	14.1	7.0	7.6	309	297	1.5	110	--
MAR													
07...	1100	1028	9813	9300	--	16.0	7.5	7.7	340	342	4.2	120	--
MAY													
09...	1100	1028	9813	2750	--	10.7	7.2	7.5	218	221	14.3	73	--
JUL													
11...	1115	1028	9813	970	--	8.4	7.3	7.5	594	625	27.5	180	--
SEP													
26...	1030	1028	9813	820	--	8.1	7.2	7.4	473	487	24.0	160	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover- able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover- able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03044838 Mill Creek at Waterford near Wilpen, PA (LAT 40 15 06N LONG 079 09 19W)													
FEB 2005 17...	4.3	--	1.1	7	2.9	<.2	9.6	28	2	.050	.49	<.040	<.01
MAR 09...	4.8	--	1.2	8	4.6	<.2	9.8	50	<2	<.020	.57	<.040	<.01
APR 28...	4.7	--	1.2	7	3.1	<.2	9.7	58	<2	<.020	.41	<.040	<.01
MAY 11...	4.8	1.2	1.2	7	2.5	<.2	9.0	14	2	<.020	.40	<.040	<.01
JUN 22...	5.1	1.1	1.2	8	1.8	<.2	8.1	46	6	.020	.44	<.040	<.01
JUL 13...	5.9	1.3	1.3	10	1.8	<.2	8.0	58	6	.020	.45	<.040	<.01
AUG 10...	6.0	1.2	1.4	12	2.7	<.2	8.8	60	<2	<.020	.42	<.040	<.01
SEP 28...	6.5	1.4	1.5	15	1.6	<.2	8.4	70	<2	<.020	.25	<.040	<.01
03049652 Allegheny River at Hulton Bridge at Oakmont, PA (LAT 40 31 39N LONG 079 50 51W)													
NOV 2004 10...	27.4	--	7.3	42	--	<.2	51.7	170	<2	.030	.45	<.040	.01
JAN 2005 19...	15.1	--	4.1	23	--	<.2	32.6	106	8	.070	.64	<.040	.02
MAR 10...	27.2	--	7.9	35	--	<.2	62.0	156	2	.060	.82	<.040	.02
MAY 05...	19.4	--	5.7	33	--	<.2	42.4	148	10	.050	.46	<.040	.01
JUL 14...	30.4	--	8.7	44	--	<.2	73.4	252	12	.040	.47	<.040	.02
SEP 15...	26.1	--	6.9	42	--	<.2	65.5	232	<2	.030	.60	<.040	.01
03063000 Monongahela R at Lock & Dam 8, at Pnt Marion, PA (LAT 39 43 37N LONG 079 54 42W)													
NOV 2004 08...	22.0	--	5.1	34	--	--	48.9	156	30	.070	.47	<.040	.04
JAN 2005 24...	29.7	--	7.8	40	--	--	91.6	212	12	.140	.63	<.040	.03
MAR 07...	34.1	--	8.8	45	--	--	94.4	216	<2	.220	.64	<.040	.02
MAY 09...	20.4	--	5.3	28	--	--	68.2	186	26	.090	.49	<.040	.02
JUL 11...	49.7	--	13.9	54	--	--	223	476	10	.110	.67	<.040	.01
SEP 26...	45.0	--	11.5	44	--	--	165	372	<2	.120	.99	<.040	.01

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover -able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unfl mg/L (00722)
03044838 Mill Creek at Waterford near Wilpen, PA (LAT 40 15 06N LONG 079 09 19W)													
FEB 2005													
17...	<.010	.97	--	1.0	<20	30	80	<4.0	30	<.20	<4	<4	--
MAR													
09...	<.010	.51	--	.8	<20	20	60	<4.0	40	<.20	<4	<4	--
APR													
28...	<.010	.36	--	.8	150	10	50	<4.0	30	<.20	<4	<4	--
MAY													
11...	<.010	1.9	.6	2.2	20	<10	50	<4.0	30	<.20	<4	<4	--
JUN													
22...	.016	.45	.7	.4	20	<10	70	<4.0	30	.70	<4	<4	--
JUL													
13...	.015	.42	.9	<.2	40	<10	60	<4.0	30	<.20	<4	<4	--
AUG													
10...	.019	.40	1.1	.2	120	30	100	<4.0	30	<.20	<4	<4	--
SEP													
28...	<.010	.50	.9	.6	70	<10	30	<4.0	30	<.20	<4	<4	--
03049652 Allegheny River at Hulton Bridge at Oakmont, PA (LAT 40 31 39N LONG 079 50 51W)													
NOV 2004													
10...	.016	.72	3.0	--	--	--	<200	--	--	--	--	<10	<1.00
JAN 2005													
19...	.024	1.0	1.9	--	--	--	630	--	--	--	--	<10	<1.00
MAR													
10...	.015	1.2	1.4	--	--	--	520	--	--	--	--	<10	<1.00
MAY													
05...	.017	.66	--	--	--	--	270	--	--	--	--	<10	<1.00
JUL													
14...	.021	.60	--	--	--	--	220	--	--	--	--	<10	<1.00
SEP													
15...	.020	.83	--	--	--	--	<200	--	--	--	--	<10	<1.00
03063000 Monongahela R at Lock & Dam 8, at Pnt Marion, PA (LAT 39 43 37N LONG 079 54 42W)													
NOV 2004													
08...	.038	.83	2.4	--	--	--	800	--	--	--	--	<10	--
JAN 2005													
24...	.020	.90	1.4	--	--	--	550	--	--	--	--	<10	--
MAR													
07...	.025	.87	1.4	--	--	--	500	--	--	--	--	<10	--
MAY													
09...	.022	.65	--	--	--	--	730	--	--	--	--	<10	--
JUL													
11...	.034	.96	--	--	--	--	310	--	--	--	--	<10	--
SEP													
26...	.022	1.3	--	--	--	--	<200	--	--	--	--	<10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03044838 Mill Creek at Waterford near Wilpen, PA (LAT 40 15 06N LONG 079 09 19W)											
FEB 2005 17...	20	60	<1.0	<1.0	10	20	<4.0	<4.0	8.9	9.7	<5
MAR 09...	<20	40	<1.0	<1.0	20	20	<4.0	<4.0	10	12	<5
APR 28...	<20	70	<1.0	<1.0	<10	10	<4.0	<4.0	5.2	5.7	<5
MAY 11...	<20	80	<1.0	<1.0	<10	10	<4.0	<4.0	5.0	5.2	<5
JUN 22...	<20	90	<1.0	<1.0	<10	20	<4.0	<4.0	<5.0	5.6	<5
JUL 13...	<20	120	<1.0	<1.0	<10	20	<4.0	<4.0	<5.0	<5.0	<5
AUG 10...	<20	130	<1.0	<1.0	<10	20	<4.0	<4.0	<5.0	<5.0	<5
SEP 28...	<20	50	<1.0	<1.0	<10	10	<4.0	<4.0	<5.0	<5.0	<5
03049652 Allegheny River at Hulton Bridge at Oakmont, PA (LAT 40 31 39N LONG 079 50 51W)											
NOV 2004 10...	--	420	--	<1.0	--	190	--	<50	--	50	<5
JAN 2005 19...	--	930	--	<1.0	--	190	--	<50	--	10	<5
MAR 10...	--	970	--	<1.0	--	340	--	<50	--	20	<5
MAY 05...	--	490	--	<1.0	--	190	--	<50	--	<10	<5
JUL 14...	--	340	--	<1.0	--	90	--	<50	--	<10	<5
SEP 15...	--	140	--	<1.0	--	50	--	<50	--	<10	<5
03063000 Monongahela R at Lock & Dam 8, at Pnt Marion, PA (LAT 39 43 37N LONG 079 54 42W)											
NOV 2004 08...	--	1170	--	<1.0	--	150	--	<50	--	10	--
JAN 2005 24...	--	760	--	<1.0	--	140	--	<50	--	10	--
MAR 07...	--	1020	--	<1.0	--	140	--	<50	--	20	--
MAY 09...	--	1020	--	<1.0	--	110	--	<50	--	40	--
JUL 11...	--	750	--	1.4	--	130	--	<50	--	20	--
SEP 26...	--	270	--	<1.0	--	80	--	<50	--	10	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unfl- lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unfl- lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)	
03070470 Mill Run near Elliottsville, PA (LAT 39 45 49N LONG 079 39 49W)														
FEB 2005 14...	1050	1028	9813	97	2.0	12.3	5.8	7.0	58	61	4.3	16	--	
MAR 07...	1400	1028	9813	451	1.0	12.3	7.3	7.0	56	62	5.5	18	--	
APR 20...	1400	1028	9813	7.9	2.0	9.6	6.8	6.9	51	54	15.0	15	--	
MAY 09...	1430	1028	9813	9.8	<1.0	9.7	6.8	7.1	50	52	14.3	15	4.3	
JUN 14...	1100	1028	9813	8.6	<1.0	8.9	6.7	7.0	55	58	18.5	17	5.0	
JUL 12...	0815	1028	9813	1.3	3.0	8.1	6.9	7.2	61	66	18.0	20	5.6	
AUG 09...	1015	1028	9813	.98	3.0	9.2	7.2	6.8	69	73	20.0	24	6.7	
SEP 26...	1340	1028	9813	.31	2.0	8.3	7.2	7.3	87	90	18.0	25	6.9	
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)														
NOV 2004 08...	1200	1028	9813	8000	--	10.6	7.3	6.9	78	80	10.5	32	--	
JAN 2005 24...	1230	1028	9813	200	--	12.8	6.8	6.8	109	107	2.0	39	--	
MAR 07...	1200	1028	9813	210	--	12.5	7.4	7.2	196	198	4.5	70	--	
MAY 09...	1215	1028	9813	6000	--	10.0	6.7	7.0	94	97	12.3	36	--	
JUL 11...	1230	1028	9813	200	--	7.1	7.1	7.5	437	455	27.5	130	--	
SEP 26...	1140	1028	9813	100	--	7.6	7.2	7.4	327	336	24.0	110	--	
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)														
NOV 2004 08...	1430	1028	9813	1650	--	8.6	7.2	6.9	106	109	14.0	33	--	
JAN 2005 24...	1430	1028	9813	2020	--	11.3	7.1	7.2	90	90	4.0	25	--	
MAR 08...	1300	1028	9813	570	--	12.3	7.0	7.1	104	106	3.2	27	--	
MAY 10...	1420	1028	9813	433	--	10.7	6.9	6.9	113	114	6.5	27	--	
JUL 12...	1200	1028	9813	550	--	8.1	6.6	6.8	102	108	11.0	28	--	
SEP 27...	0855	1028	9813	600	--	7.9	6.7	6.6	115	120	21.0	35	--	
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)														
NOV 2004 04...	0930	1028	9813	190	--	9.2	6.7	7.1	156	155	9.2	51	14.2	
JAN 2005 19...	0845	1028	9813	158	--	14.6	7.4	7.4	153	145	.0	47	12.8	
MAR 08...	0915	1028	9813	666	--	12.5	7.5	7.2	187	192	1.6	36	9.8	
MAY 10...	1200	1028	9813	57	--	9.8	7.3	7.1	172	173	16.5	51	14.9	
JUL 12...	1335	1028	9813	15	--	8.7	7.5	8.1	230	243	26.0	71	20.6	
SEP 27...	1015	1028	9813	2.2	--	9.4	7.9	7.6	498	511	17.0	160	48.8	

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium water, fltrd, mg/L (00925)	Magnesium water, unfltrd recover-able, mg/L (00927)	ANC, wat unfixed end pt, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, unfltrd, mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC, wat flt mg/L (00515)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia water, unfltrd as N mg/L (00610)	Nitrate water unfltrd as N mg/L (00620)	Nitrite water, unfltrd as N mg/L (00615)	Ortho-phosphate, water, unfltrd as P mg/L (70507)
03070470 Mill Run near Elliottsville, PA (LAT 39 45 49N LONG 079 39 49W)													
FEB 2005 14...	4.6	--	1.1	9	6.5	<.2	8.3	--	2	.030	.27	<.040	<.01
MAR 07...	4.9	--	1.4	11	6.1	<.2	8.4	26	74	.020	.24	<.040	<.01
APR 20...	4.2	--	1.1	6	4.4	<.2	9.0	52	2	<.020	.17	<.040	<.01
MAY 09...	4.4	1.1	1.1	6	3.9	<.2	9.2	72	2	<.020	.16	<.040	<.01
JUN 14...	4.9	1.1	1.1	8	4.2	<.2	8.3	52	12	.040	.16	<.040	<.01
JUL 12...	5.7	1.2	1.3	12	5.2	<.2	7.6	94	<2	.020	.23	<.040	<.01
AUG 09...	7.0	1.4	1.5	16	5.5	<.2	7.4	76	<2	<.020	.17	<.040	<.01
SEP 26...	7.1	1.6	1.6	25	5.8	<.2	8.6	138	<2	.030	.05	<.040	<.01
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)													
NOV 2004 08...	9.5	--	1.9	14	--	--	15.0	80	10	.060	.45	<.040	.02
JAN 2005 24...	10.8	--	2.9	10	--	--	33.5	82	10	.150	.56	<.040	<.01
MAR 07...	19.5	--	5.1	21	--	--	55.1	124	<2	.240	.59	<.040	<.01
MAY 09...	10.5	--	2.4	9	--	--	27.9	98	6	.070	.42	<.040	<.01
JUL 11...	35.5	--	9.8	39	--	--	154	346	2	.170	.56	<.040	<.01
SEP 26...	32.9	--	7.7	31	--	--	107	210	<2	.100	.68	<.040	<.01
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)													
NOV 2004 08...	9.8	--	2.0	19	--	--	11.9	102	2	.090	.39	<.040	<.01
JAN 2005 24...	7.4	--	1.7	14	--	--	11.7	46	8	.040	.80	<.040	.02
MAR 08...	8.0	--	1.8	13	--	--	12.4	82	<2	.040	.85	<.040	<.01
MAY 10...	8.0	--	1.8	12	--	--	12.2	86	8	.070	.83	<.040	<.01
JUL 12...	8.3	--	1.8	12	--	--	12.2	158	<2	.030	.69	<.040	<.01
SEP 27...	10.6	--	2.1	24	--	--	12.6	100	2	.190	.32	<.040	<.01
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)													
NOV 2004 04...	14.4	3.4	3.5	24	--	--	20.8	86	<2	<.020	.34	<.040	<.01
JAN 2005 19...	12.9	3.5	3.5	17	--	--	25.1	104	2	.070	.94	<.040	<.01
MAR 08...	10.6	2.0	2.3	14	--	--	13.8	106	74	.090	1.11	<.040	.02
MAY 10...	14.8	3.4	3.4	22	--	--	29.3	114	<2	.040	.36	<.040	<.01
JUL 12...	20.9	4.5	4.6	32	--	--	36.0	226	<2	.030	.38	<.040	.01
SEP 27...	48.6	9.8	10.0	72	--	--	80.6	408	2	.020	.10	<.040	<.01

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover- able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, unfltrd recover- able, µg/L (01040)	Copper, water, unfltrd recover- able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unfl mg/L (00722)
03070470 Mill Run near Elliottsville, PA (LAT 39 45 49N LONG 079 39 49W)													
FEB 2005 14...	.021	.56	--	1.0	200	190	930	<4.0	50	<.20	<4	<4	--
MAR 07...	.047	.56	--	1.5	80	60	1300	<4.0	60	<.20	<4	<4	--
APR 20...	<.010	.18	--	<.2	20	20	70	<4.0	40	<.20	<4	<4	--
MAY 09...	<.010	.50	.7	.3	<10	10	60	<4.0	40	<.20	<4	<4	--
JUN 14...	<.010	.25	1.2	.6	110	20	80	<4.0	40	<.20	<4	<4	--
JUL 12...	<.010	.29	1.3	.3	120	<10	60	<4.0	40	<.20	<4	<4	--
AUG 09...	<.010	.18	1.5	1.0	20	40	60	<4.0	40	<.20	<4	<4	--
SEP 26...	<.010	.20	2.3	.9	300	<10	30	<4.0	40	<.20	<4	<4	--
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)													
NOV 2004 08...	.018	.72	3.2	--	--	--	520	--	--	--	--	<10	--
JAN 2005 24...	<.010	.76	1.4	--	--	--	500	--	--	--	--	<10	--
MAR 07...	<.010	.78	1.2	--	--	--	320	--	--	--	--	<10	--
MAY 09...	<.010	.62	--	--	--	--	660	--	--	--	--	20	--
JUL 11...	<.010	.77	--	--	--	--	<200	--	--	--	--	<10	--
SEP 26...	.014	.97	--	--	--	--	<200	--	--	--	--	<10	--
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)													
NOV 2004 08...	.014	.70	2.4	--	--	--	<200	--	--	--	--	<10	--
JAN 2005 24...	.014	.93	2.0	--	--	--	340	--	--	--	--	<10	--
MAR 08...	.018	.90	1.6	--	--	--	220	--	--	--	--	<10	--
MAY 10...	.013	1.4	--	.3	--	--	--	--	--	--	--	--	--
JUL 12...	<.010	.71	--	--	--	--	<200	--	--	--	--	<10	--
SEP 27...	.014	.82	--	--	--	--	<200	--	--	--	--	<10	--
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)													
NOV 2004 04...	.016	.57	--	1.2	--	60	130	--	--	--	<4	<4	--
JAN 2005 19...	.011	1.2	--	1.2	--	40	260	--	--	--	<4	<4	--
MAR 08...	.091	1.4	--	.9	--	50	1900	--	--	--	<4	<4	--
MAY 10...	.017	1.1	--	2.5	--	60	290	--	--	--	<4	<4	--
JUL 12...	.017	.50	--	.7	--	220	290	--	--	--	<4	<4	--
SEP 27...	.015	.42	--	1.4	--	60	80	--	--	--	<4	<4	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03070470 Mill Run near Elliottsville, PA (LAT 39 45 49N LONG 079 39 49W)											
FEB 2005 14...	220	1100	<1.0	1.4	30	70	<4.0	<4.0	9.4	20	<5
MAR 07...	100	2760	<1.0	2.3	30	100	<4.0	4.8	6.5	20	<5
APR 20...	50	120	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	7.0	<5
MAY 09...	40	100	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
JUN 14...	60	190	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	11.5	<5
JUL 12...	40	220	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
AUG 09...	140	200	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	<5.0	<5
SEP 26...	60	140	<1.0	<1.0	30	30	<4.0	<4.0	<5.0	<5.0	5
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)											
NOV 2004 08...	--	600	--	<1.0	--	120	--	<50	--	<10	--
JAN 2005 24...	--	700	--	<1.0	--	140	--	<50	--	20	--
MAR 07...	--	720	--	<1.0	--	160	--	<50	--	20	--
MAY 09...	--	670	--	<1.0	--	100	--	<50	--	30	--
JUL 11...	--	160	--	<1.0	--	140	--	<50	--	<10	--
SEP 26...	--	260	--	<1.0	--	120	--	<50	--	<10	--
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)											
NOV 2004 08...	--	220	--	<1.0	--	350	--	<50	--	<10	--
JAN 2005 24...	--	380	--	<1.0	--	60	--	<50	--	<10	--
MAR 08...	--	250	--	<1.0	--	80	--	<50	--	<10	--
MAY 10...	--	110	--	<1.0	--	--	--	--	--	--	--
JUL 12...	--	40	--	<1.0	--	70	--	<50	--	<10	--
SEP 27...	--	320	--	<1.0	--	540	--	<50	--	40	--
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)											
NOV 2004 04...	40	230	<1.0	<1.0	40	40	<4.0	<4.0	<5.0	<5.0	--
JAN 2005 19...	50	190	<1.0	<1.0	80	90	<4.0	4.9	8.5	10.1	--
MAR 08...	60	3100	<1.0	2.5	50	180	<4.0	6.0	5.1	24.1	--
MAY 10...	90	240	<1.0	<1.0	60	70	<4.0	<4.0	<5.0	5.3	--
JUL 12...	70	170	<1.0	<1.0	40	50	<4.0	<4.0	<5.0	<5.0	--
SEPT 27...	<20	50	<1.0	<1.0	50	60	5.2	5.2	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)													
NOV 2004 03...	1010	1028	9813	809	--	7.6	7.6	7.8	579	565	16.0	180	--
JAN 2005 18...	1045	1028	9813	4070	--	16.0	7.9	7.5	390	405	1.5	120	--
MAR 14...	1000	1028	9813	1100	--	12.6	7.6	8.0	656	670	3.8	170	--
MAY 12...	1000	1028	9813	652	--	7.8	7.8	8.0	597	605	18.0	160	--
JUL 07...	1020	1028	9813	618	--	6.0	7.5	7.8	556	574	25.0	170	--
SEP 13...	1000	1028	9813	373	--	5.6	7.3	7.8	578	596	24.5	170	--
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)													
NOV 2004 15...	0950	1028	9813	825	--	11.4	7.3	7.5	206	212	8.0	81	--
JAN 2005 10...	1000	1028	9813	3350	--	13.3	6.7	7.6	166	171	3.5	56	--
MAR 15...	1030	1028	9813	960	--	13.4	8.0	7.3	198	203	1.9	66	--
MAY 16...	0945	1028	9813	992	--	9.8	8.0	8.1	191	197	15.7	68	--
JUL 18...	1045	1028	9813	247	--	6.4	7.5	7.6	237	250	25.5	93	--
SEP 19...	0945	1028	9813	290	--	7.0	7.2	7.8	237	247	23.0	96	--
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)													
NOV 2004 03...	1305	1028	9813	1270	--	8.5	7.6	7.5	240	250	13.5	85	--
JAN 2005 18...	1330	1028	9813	4070	--	13.3	7.8	7.2	181	190	1.0	58	--
MAR 14...	1250	1028	9813	1430	--	12.9	7.3	7.8	288	293	2.0	87	--
MAY 12...	1305	1028	9813	585	--	9.0	7.6	7.7	289	294	15.4	89	--
JUL 07...	1300	1028	9813	254	--	5.9	7.3	7.8	351	364	25.0	120	--
SEP 13...	1245	1028	9813	194	--	6.6	7.4	7.8	323	333	23.0	110	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, fltrd, mg/L (00925)	Magnes- ium, water, unfltrd recover -able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)													
NOV 2004 03...	50.1	--	13.8	104	--	.4	72.6	394	8	.160	1.96	.100	.15
JAN 2005 18...	34.8	--	8.8	72	--	<.2	48.7	266	22	.160	.77	.040	.05
MAR 14...	47.8	--	11.8	87	--	.2	65.9	452	2	.210	1.28	.100	.05
MAY 12...	45.5	--	11.6	96	--	.3	78.4	432	14	.130	1.62	.090	.05
JUL 07...	47.6	--	12.3	90	--	<.2	68.8	354	8	.140	1.68	<.200	.14
SEP 13...	48.6	--	12.3	85	--	.4	74.0	394	6	.110	2.37	.110	.16
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)													
NOV 2004 15...	24.0	--	5.1	63	--	<.2	14.7	154	6	.080	.22	<.040	.02
JAN 2005 10...	15.8	--	4.0	39	--	<.2	14.8	148	18	.060	.80	<.040	.07
MAR 15...	19.2	--	4.3	46	--	<.2	15.5	144	8	.090	.82	<.040	.05
MAY 16...	20.0	--	4.5	52	--	<.2	16.3	126	14	.050	.26	<.040	.02
JUL 18...	27.6	--	5.9	80	--	<.2	12.9	164	16	.300	.09	<.040	.06
SEP 19...	28.1	--	6.3	80	--	<.2	14.6	144	2	.190	.08	<.040	.04
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)													
NOV 2004 03...	24.0	--	6.0	63	--	<.2	20.2	162	14	.080	.57	.060	.04
JAN 2005 18...	16.8	--	3.8	36	--	<.2	16.8	136	18	.080	.81	<.040	.06
MAR 14...	25.3	--	5.9	57	--	<.2	21.6	208	12	.140	.85	<.040	.05
MAY 12...	25.2	--	6.3	64	--	<.2	28.5	216	20	.110	.74	<.040	.04
JUL 07...	35.0	--	7.0	80	--	<.2	29.8	200	<2	.140	.92	<.040	.12
SEP 13...	32.1	--	6.9	82	--	<.2	26.6	340	18	.180	.91	.070	.09

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover -able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, unfltrd recover -able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unf mg/L (00722)
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)													
NOV 2004 03...	.188	2.8	6.3	--	--	--	<200	--	--	--	--	<10	<1.00
JAN 2005 18...	.077	1.4	5.3	--	--	--	950	--	--	--	--	<10	<1.00
MAR 14...	.080	2.0	5.1	--	--	--	300	--	--	--	--	<10	<1.00
MAY 12...	.110	2.3	--	--	--	--	<200	--	--	--	--	<10	<1.00
JUL 07...	.215	2.4	--	--	--	--	<200	--	--	--	--	<10	<1.00
SEP 13...	.196	3.0	--	--	--	--	<200	--	--	--	--	<10	<1.00
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)													
NOV 2004 15...	.060	.91	5.4	--	--	--	<200	--	--	--	--	<10	<1.00
JAN 2005 10...	.062	1.2	4.8	--	--	--	1500	--	--	--	--	<10	<1.00
MAR 15...	.077	1.6	4.5	--	--	--	680	--	--	--	--	<10	<1.00
MAY 16...	.034	.90	--	--	--	--	<200	--	--	--	--	<10	<1.00
JUL 18...	.154	.88	--	--	--	--	610	--	--	--	--	<10	<1.00
SEP 19...	.096	.83	--	--	--	--	230	--	--	--	--	<10	<1.00
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)													
NOV 2004 03...	.092	1.3	5.1	--	--	--	<200	--	--	--	--	<10	<1.00
JAN 2005 18...	.065	1.2	4.4	--	--	--	1000	--	--	--	--	<10	<1.00
MAR 14...	.062	1.7	4.0	--	--	--	710	--	--	--	--	<10	<1.00
MAY 12...	.081	1.4	--	--	--	--	260	--	--	--	--	<10	<1.00
JUL 07...	.164	1.6	--	--	--	--	390	--	--	--	--	<10	<1.00
SEP 13...	.136	1.7	--	--	--	--	<200	--	--	--	--	<10	<1.00

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)											
NOV 2004 03...	--	400	--	1.3	--	80	--	<50	--	10	<5
JAN 2005 18...	--	1350	--	2.4	--	110	--	<50	--	40	<5
MAR 14...	--	720	--	<1.0	--	150	--	<50	--	20	<5
MAY 12...	--	380	--	1.0	--	90	--	<50	--	<10	<5
JUL 07...	--	510	--	2.4	--	120	--	<50	--	20	<5
SEP 13...	--	500	--	1.8	--	70	--	<50	--	10	<5
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)											
NOV 2004 15...	--	350	--	<1.0	--	80	--	<50	--	<10	<5
JAN 2005 10...	--	1590	--	1.9	--	80	--	<50	--	<10	<5
MAR 15...	--	850	--	<1.0	--	60	--	<50	--	<10	<5
MAY 16...	--	290	--	<1.0	--	70	--	<50	--	10	<5
JUL 18...	--	2310	--	1.0	--	750	--	<50	--	20	<5
SEP 19...	--	1240	--	<1.0	--	480	--	<50	--	<10	<5
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)											
NOV 2004 03...	--	640	--	1.2	--	120	--	<50	--	10	<5
JAN 2005 18...	--	1140	--	1.4	--	50	--	<50	--	20	<5
MAR 14...	--	1020	--	<1.0	--	80	--	<50	--	20	<5
MAY 12...	--	770	--	1.3	--	100	--	<50	--	<10	<5
JUL 07...	--	980	--	1.9	--	220	--	<50	--	20	<5
SEP 13...	--	470	--	1.1	--	160	--	<50	--	10	<5

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Press- ure, osmotic water, unfltrd mosm/kg (82550)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)													
NOV 2004 22...	0900	1028	9813	78	--	10.4	7.3	7.6	875	848	9.5	310	--
JAN 2005 27...	1200	1028	9813	88	--	14.0	7.0	7.6	816	849	.5	240	--
MAR 17...	1440	1028	9813	175	--	14.5	7.5	7.8	713	710	5.1	200	--
MAY 23...	0900	1028	9813	69	--	8.5	7.1	7.6	913	936	15.5	320	--
JUL 21...	1335	1028	9813	32	--	7.7	7.7	8.0	1330	1380	25.0	480	--
SEP 29...	1150	1028	9813	94	--	7.9	7.7	7.8	1280	1320	19.0	410	--
03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)													
NOV 2004 04...	1015	1028	9813	33200	--	10.0	7.6	7.3	357	370	14.0	120	--
JAN 2005 20...	1020	1028	9813	96500	--	14.8	8.1	7.6	233	244	1.5	80	--
MAR 02...	1000	1028	9813	35200	--	13.9	7.4	7.6	370	379	2.4	100	--
MAY 04...	1030	1028	9813	45900	--	11.5	8.0	7.8	327	330	11.6	110	--
JUL 06...	0945	1028	9813	10800	--	7.9	7.6	7.9	455	472	27.0	150	--
SEP 12...	1015	1028	9813	7260	--	9.4	8.3	8.3	430	447	24.5	140	--
04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)													
NOV 2004 16...	1315	1028	9813	74	--	12.7	7.7	7.7	269	277	5.0	120	--
JAN 2005 11...	1400	1028	9813	531	--	13.1	7.3	7.7	166	171	2.0	65	--
MAR 16...	0830	1028	9813	130	--	12.6	7.2	7.7	221	224	.9	86	--
MAY 17...	0730	1028	9813	132	--	9.4	8.0	7.8	183	187	12.7	76	--
JUL 19...	0830	1028	9813	26	--	6.6	7.7	7.9	329	337	25.5	130	--
SEP 20...	0830	1028	9813	8.8	--	7.6	7.6	7.9	363	369	20.0	140	--
04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)													
OCT 2004 21...	0900	1028	9813	14	4.0	11.1	7.8	7.7	283	275	10.5	91	--
NOV 16...	1100	1028	9813	15	5.0	11.8	7.6	8.0	365	378	7.0	140	--
DEC 15...	1215	1028	9813	45	1.0	13.4	7.3	7.8	248	258	2.0	81	--
JAN 2005 11...	1200	1028	9813	59	2.0	14.2	7.6	8.0	275	281	2.5	89	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, recover fltrd, mg/L (00925)	Magnes- ium, water, recover -able, mg/L (00927)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)
03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)													
NOV 2004 22...	108	--	10.0	61	--	--	76.0	608	<2	.030	1.93	<.040	.09
JAN 2005 27...	78.8	--	10.0	47	--	--	75.0	582	14	.720	1.83	<.200	.05
MAR 17...	65.9	--	8.4	43	--	--	59.8	554	6	.480	1.40	<.040	.05
MAY 23...	108	--	11.1	59	--	--	80.7	298	8	.110	2.10	<.040	.10
JUL 21...	169	--	14.5	81	--	--	105	1420	20	.070	2.21	<.200	.10
SEP 29...	144	--	12.8	85	--	--	116	968	30	.130	1.81	<.200	.04
03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)													
NOV 2004 04...	34.5	--	8.8	54	--	--	78.4	252	8	.040	.75	<.040	.02
JAN 2005 20...	21.4	--	6.4	33	--	--	50.1	246	14	.070	.78	<.040	.03
MAR 02...	29.4	--	7.7	41	--	--	64.1	234	8	.120	.91	<.040	.01
MAY 04...	29.3	--	8.0	45	--	--	77.9	214	10	.080	.64	<.040	.01
JUL 06...	40.4	--	10.9	55	--	--	96.9	272	46	.080	.99	<.040	.01
SEP 12...	36.8	--	10.4	55	--	--	91.1	306	12	.040	.61	<.040	.01
04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)													
NOV 2004 16...	34.4	--	7.5	89	--	--	21.4	180	8	.030	.54	<.040	.02
JAN 2005 11...	19.0	--	4.2	50	--	--	14.0	116	18	.140	.51	<.040	.05
MAR 16...	25.1	--	5.8	65	--	--	19.4	162	8	.070	.62	<.040	.03
MAY 17...	22.5	--	4.7	64	--	--	13.4	140	4	<.020	.26	<.040	.02
JUL 19...	38.3	--	9.0	104	--	--	27.1	230	<2	.030	.36	<.040	.03
SEP 20...	41.8	--	9.3	106	--	--	31.4	264	<2	.030	.77	<.040	.02
04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)													
OCT 2004 21...	27.2	--	5.6	62	27.7	<.2	25.9	218	<2	<.020	1.18	<.040	.01
NOV 16...	42.1	--	7.7	82	35.5	<.2	34.6	264	4	<.020	2.20	<.040	<.01
DEC 15...	24.4	--	4.8	52	25.8	<.2	22.2	170	<2	.020	1.32	<.040	.01
JAN 2005 11...	27.2	--	5.0	54	32.1	<.2	23.6	194	4	<.020	1.79	<.040	.01

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Phos- phorus, water, unfltrd mg/L (00665)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coli- form, M-FC col/ 100 mL (31616)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover- able, µg/L (01105)	Arsenic water, fltrd, µg/L (01000)	Barium, water, unfltrd recover- able, µg/L (01007)	Cadmium water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, unfltrd recover- able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unf mg/L (00722)
03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)													
NOV 2004 22...	.114	2.4	2.5	--	--	--	<200	--	--	--	--	<10	--
JAN 2005 27...	.065	2.5	2.4	--	--	--	<200	--	--	--	--	<10	--
MAR 17...	.070	2.1	2.3	--	--	--	<200	--	--	--	--	<10	--
MAY 23...	.137	2.5	--	--	--	--	200	--	--	--	--	<10	--
JUL 21...	.166	2.5	--	--	--	--	290	--	--	--	--	<10	--
SEP 29...	.119	2.3	--	--	--	--	600	--	--	--	--	<10	--
03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)													
NOV 2004 04...	.035	1.1	2.7	--	--	--	470	--	--	--	--	<10	--
JAN 2005 20...	.033	1.1	2.0	--	--	--	720	--	--	--	--	<10	--
MAR 02...	.020	1.4	1.8	--	--	--	440	--	--	--	--	<10	--
MAY 04...	.036	1.1	--	--	--	--	440	--	--	--	--	<10	--
JUL 06...	.085	1.4	--	--	--	--	1100	--	--	--	--	<10	--
SEP 12...	.024	.93	--	--	--	--	<200	--	--	--	--	<10	--
04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)													
NOV 2004 16...	.019	.76	4.0	--	--	--	<200	--	--	--	--	<10	--
JAN 2005 11...	.055	.89	4.6	--	--	--	580	--	--	--	--	<10	--
MAR 16...	.024	.85	2.8	--	--	--	240	--	--	--	--	<10	--
MAY 17...	.033	.69	--	--	--	--	330	--	--	--	--	<10	--
JUL 19...	.066	.69	--	--	--	--	640	--	--	--	--	<10	--
SEP 20...	.028	.99	--	--	--	--	<200	--	--	--	--	<10	--
04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)													
OCT 2004 21...	.019	1.4	--	.5	240	10	70	<4.0	50	<.20	<4	<4	--
NOV 16...	.014	2.2	--	2.0	210	<10	10	<4.0	60	<.20	<4	<4	--
DEC 15...	<.010	1.5	--	1.0	580	20	110	<4.0	40	<.20	<4	<4	--
JAN 2005 11...	<.010	1.8	--	1.3	40	60	120	<4.0	40	<.20	<4	<4	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS STATION ANALYSES

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
	03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)										
NOV 2004 22...	--	330	--	<1.0	--	80	--	<50	--	10	--
JAN 2005 27...	--	360	--	<1.0	--	140	--	<50	--	<10	--
MAR 17...	--	310	--	<1.0	--	120	--	<50	--	<10	--
MAY 23...	--	700	--	1.0	--	210	--	<50	--	<10	--
JUL 21...	--	530	--	1.1	--	270	--	<50	--	20	--
SEP 29...	--	1400	--	2.7	--	230	--	<50	--	30	--
	03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)										
NOV 2004 04...	--	860	--	1.1	--	170	--	<50	--	<10	--
JAN 2005 20...	--	1650	--	2.8	--	380	--	<50	--	20	--
MAR 02...	--	750	--	<1.0	--	190	--	<50	--	10	--
MAY 04...	--	810	--	1.1	--	160	--	<50	--	<10	--
JUL 06...	--	2170	--	3.5	--	260	--	<50	--	20	--
SEP 12...	--	190	--	<1.0	--	50	--	<50	--	<10	--
	04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)										
NOV 2004 16...	--	680	--	<1.0	--	50	--	<50	--	<10	--
JAN 2005 11...	--	880	--	8.6	--	40	--	<50	--	<10	--
MAR 16...	--	640	--	<1.0	--	50	--	<50	--	<10	--
MAY 17...	--	680	--	<1.0	--	30	--	<50	--	<10	--
JUL 19...	--	840	--	<1.0	--	110	--	<50	--	<10	--
SEP 20...	--	240	--	<1.0	--	40	--	<50	--	<10	--
	04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)										
OCT 2004 21...	60	190	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	<5.0	<5
NOV 16...	20	70	<1.0	<1.0	10	10	<4.0	<4.0	<5.0	<5.0	<5
DEC 15...	60	210	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0	<5
JAN 2005 11...	100	200	<1.0	<1.0	20	20	<4.0	<4.0	<5.0	<5.0	<5

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

MISCELLANEOUS LAKE ANALYSES

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, µS/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover, mg/L (00916)	Magnesium water, unfltrd recover, mg/L (00927)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	
03021545 Union City Reservoir near Union City, PA (LAT 41 54 54N LONG 079 48 55W)														
AUG 2005	18...	1028	9813	1.0	1.20	8.7	8.6	262	24.6	120	34.7	7.9	98	
	18...	1028	9813	5.0	--	.4	7.6	495	10.2	200	60.7	10.9	196	
03023012 Tamarack Lake West near Meadville, PA (LAT 41 36 45N LONG 080 07 02W)														
AUG 2005	17...	1028	9813	1.0	.45	3.8	7.0	138	24.6	46	13.6	2.9	32	
	17...	1028	9813	3.0	--	.5	7.0	161	23.3	51	15.1	3.1	42	
03023373 Tamarack Lake East near Meadville, PA (LAT 41 34 47N LONG 080 04 39W)														
AUG 2005	17...	1028	9813	1.0	.50	9.2	8.9	134	27.3	44	13.0	2.8	28	
	17...	1028	9813	3.0	--	7.5	7.9	133	26.7	45	13.4	2.9	43	
03024228 Sugar Lake near Bradyleytown, PA (LAT 41 33 59N LONG 079 56 36W)														
AUG 2005	17...	1028	9813	1.0	.40	11.0	9.3	191	26.5	88	26.9	5.1	67	
	17...	1028	9813	3.0	--	.3	7.2	220	24.0	100	32.3	5.1	93	
Date		Sulfate water, fltrd, mg/L (00945)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd as N, mg/L (00610)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, unfltrd, mg/L (00600)	Chlorophyll a phyton, plankton, uncorr, µg/L (32230)	Aluminum, water, fltrd, µg/L (01106)	Aluminum, water, recover, µg/L (01105)	Copper, water, fltrd, µg/L (01040)	Copper, water, recover, µg/L (01042)	Iron, water, fltrd, µg/L (01046)	Iron, water, recover, µg/L (01045)	Lead, water, fltrd, µg/L (01049)
03021545 Union City Reservoir near Union City, PA (LAT 41 54 54N LONG 079 48 55W)														
AUG 2005	18...	12	.040	.027	.52	.022	<10	10	<4	<4	40	250	<1.0	
	18...	9.2	20	1.16	.029	1.8	--	<10	<10	<4	<4	2970	5550	<1.0
03023012 Tamarack Lake West near Meadville, PA (LAT 41 36 45N LONG 080 07 02W)														
AUG 2005	17...	26	.260	.078	1.5	.056	30	170	<4	<4	80	840	<1.0	
	17...	8.2	22	1.56	.087	2.0	--	<10	140	<4	<4	1950	5570	<1.0
03023373 Tamarack Lake East near Meadville, PA (LAT 41 34 47N LONG 080 04 39W)														
AUG 2005	17...	14	.050	.067	1.4	.091	<10	50	<4	<4	40	660	<1.0	
	17...	7.2	86	3.23	.360	3.0	--	<10	80	<4	<4	150	1770	<1.0
03024228 Sugar Lake near Bradyleytown, PA (LAT 41 33 59N LONG 079 56 36W)														
AUG 2005	17...	4	.020	.051	1.2	.069	<10	20	<4	<4	30	230	<1.0	
	17...	8.3	<2	1.05	.118	1.7	--	<10	50	<4	<4	2970	4940	<1.0
Date		Lead, water, unfltrd recover, µg/L (01051)	Manganese, water, unfltrd recover, µg/L (01056)	Manganese, water, unfltrd recover, µg/L (01055)	Zinc, water, unfltrd recover, µg/L (01090)	Zinc, water, unfltrd recover, µg/L (01092)								
03021545 Union City Reservoir near Union City, PA (LAT 41 54 54N LONG 079 48 55W)														
AUG 2005	18...	<1.0	5.7	100	<5.0	<5.0								
	18...	<1.0	7550	9800	<5.0	<5.0								
03023012 Tamarack Lake West near Meadville, PA (LAT 41 36 45N LONG 080 07 02W)														
AUG 2005	17...	<1.0	20	20	5.7	<5.0								
	17...	<1.0	430	630	<5.0	<5.0								
03023373 Tamarack Lake East near Meadville, PA (LAT 41 34 47N LONG 080 04 39W)														
AUG 2005	17...	<1.0	3.1	110	<5.0	<5.0								
	17...	<1.0	110	490	<5.0	<5.0								
03024228 Sugar Lake near Bradyleytown, PA (LAT 41 33 59N LONG 079 56 36W)														
AUG 2005	17...	<1.0	<2.0	150	<5.0	<5.0								
	17...	<1.0	490	650	<5.0	<5.0								

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. A dash(-- indicates there were no observations of the organism in the sample. Samples represent counts per 100 animal (approximate) subsamples. *Samples collected with a multiplate sampler deployed for 5 weeks.

**BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES**

Station number	03010956	03012600	03017500	03025490	03030852	03044000
Date	08/12/04	08/11/04	08/09/04	10/13/04	08/12/04	10/04/04
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Platyhelminthes						
Turbellaria (FLATWORMS)						
Tricladida						
Planariidae	--	--	--	11	--	--
Nematoda (NEMATODES)	1	1	1	--	--	--
Nemertea (PROBOSCIS WORMS)						
Enopla						
Hoplonemertea						
Tetrastemmatidae						
<i>Prostoma</i>	1	3	--	--	--	3
Mollusca						
Gastropoda (SNAILS)						
Basommatophora						
Ancyliidae						
<i>Ferrissia</i>	1	4	--	1	--	--
Hydrobiidae						
<i>Ammicola</i>	--	15	--	--	--	--
Planorbidae						
<i>Menetus dilatatus</i>	--	--	--	--	--	--
<i>Planorbella</i>	--	--	--	--	--	--
Bivalvia (CLAMS)						
Veneroidea						
Corbiculidae						
<i>Corbicula fluminea</i>	--	--	--	--	--	7
Sphaeriidae						
<i>Pisidium</i>	--	--	--	--	--	--
Annelida						
Oligochaeta (AQUATIC EARTHWORMS)						
Lumbriculida						
Lumbriculidae	--	5	11	22	--	--
Tubificida						
Enchytraeidae	--	--	--	--	--	--
Naididae	1	2	2	1	4	--
Tubificidae	--	2	--	--	--	--
Arthropoda						
Acariformes						
Hydrachnidia (WATER MITES)	38	6	2	--	--	2
Crustacea						
Copepoda	--	--	--	--	--	--
Amphipoda (SCUDS)						
Crangonyctidae						
<i>Crangonyx</i>	--	--	--	--	--	--
Gammaridae						
<i>Gammarus</i>	--	--	--	1	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES

03049652*	03063000*	03071700*	03077500	03078020	03099600	Station number
11/04/04	11/19/04	11/19/04	09/15/04	09/14/04	10/05/04	Date
Count	Count	Count	Count	Count	Count	Benthic macroinvertebrate
						Platyhelminthes
						Turbellaria (FLATWORMS)
						Tricladida
1	1	--	21	--	--	Planariidae
--	1	--	--	1	3	Nematoda (NEMATODES)
						Nemertea (PROBOSCIS WORMS)
						Enopla
						Hoploneurata
						Tetrastemmatidae
--	--	--	--	--	--	Prostoma
						Mollusca
						Gastropoda (SNAILS)
						Basommatophora
						Ancylidae
--	--	--	--	1	8	<i>Ferrissia</i>
						Hydrobiidae
--	--	--	--	--	15	<i>Ammicula</i>
						Planorbidae
--	17	7	--	--	--	<i>Menetus dilatatus</i>
--	--	--	--	--	1	<i>Planorbella</i>
						Bivalvia (CLAMS)
						Veneroida
						Corbiculidae
--	--	12	--	--	42	<i>Corbicula fluminea</i>
--	--	--	--	--	--	Sphaeriidae
--	--	--	2	--	1	<i>Pisidium</i>
						Annelida
						Oligochaeta (AQUATIC EARTHWORMS)
						Lumbriculida
--	--	--	13	--	--	Lumbriculidae
						Tubificida
--	4	--	4	--	--	Enchytraeidae
--	49	65	8	--	--	Naididae
--	81	--	2	--	8	Tubificidae
						Arthropoda
						Acariformes
--	1	3	24	12	1	Hydrachnidia (WATER MITES)
						Crustacea
--	--	--	--	--	1	Copepoda
						Amphipoda (SCUDS)
						Crangonyctidae
--	--	--	3	--	--	<i>Crangonyx</i>
						Gammaridae
--	3	--	--	--	22	<i>Gammarus</i>

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

**BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES**

Station number	03010956	03012600	03017500	03025490	03030852	03044000
Date	08/12/04	08/11/04	08/09/04	10/13/04	08/12/04	10/04/04
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Crustacea						
Isopoda (AQUATIC SOWBUGS)						
Asellidae						
<i>Caecidotea</i>	--	--	--	--	--	--
Podocopa (SEED SHRIMP)	--	--	--	--	--	--
Entognatha						
Collembola (SPRINGTAILS)						
Isotomidae						
	--	--	--	--	--	--
Poduridae						
<i>Podura aquatica</i>	--	--	--	--	--	--
Sminthuridae	--	--	--	--	--	--
Insecta						
Ephemeroptera (MAYFLIES)						
Baetidae						
<i>Acentrella</i>	7	--	--	--	1	--
<i>Baetis</i>	1	--	10	--	28	--
<i>Plauditus</i>	--	--	15	--	3	--
Caenidae						
<i>Caenis</i>	1	1	--	--	--	--
Ephemerellidae						
<i>Dannella</i>	--	--	2	--	--	--
<i>Ephemerella</i>	--	--	--	9	--	--
<i>Eurylophella</i>	--	--	--	--	--	--
<i>Serratella</i>	--	--	1	39	--	--
Heptageniidae						
<i>Stenonema</i>	--	7	8	4	6	--
Isonychiidae						
<i>Isonychia</i>	--	1	1	3	--	--
Leptophlebiidae						
<i>Paraleptophlebia</i>	--	--	--	--	--	--
Odonata (DRAGONFLIES AND DAMSELFLIES)						
Gomphidae						
<i>Lanthus</i>	--	--	1	--	--	--
Plecoptera (STONEFLIES)						
Capniidae						
	1	--	2	--	--	--
Leuctridae						
<i>Leuctra</i>	--	--	--	--	--	--
Perlidae						
<i>Acroneuria</i>	--	--	--	1	--	--
Perlodidae						
<i>Isoperla</i>	1	--	--	--	--	--
Taeniopterygidae						
<i>Taeniopteryx</i>	--	--	--	--	--	1
Megaloptera						
Corydalidae (FISHFLIES AND DOBSONFLIES)						
<i>Corydalus</i>	--	--	--	--	--	3
<i>Nigronia</i>	1	--	1	--	--	--
Sialidae (ALDERFLIES)						
<i>Sialis</i>	--	--	--	--	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES

03049652*	03063000*	03071700*	03077500	03078020	03099600	Station number
11/04/04	11/19/04	11/19/04	09/15/04	09/14/04	10/05/04	Date
Count	Count	Count	Count	Count	Count	Benthic macroinvertebrate
						Crustacea
						Isopoda (AQUATIC SOWBUGS)
						Asellidae
--	--	--	16	--	1	<i>Caecidotea</i>
--	--	3	--	--	--	Podocopa (SEED SHRIMP)
						Entognatha
						Collembola (SPRINGTAILS)
--	--	--	1	--	--	Isotomidae
						Poduridae
--	--	--	--	--	1	<i>Podura aquatica</i>
--	--	--	--	--	1	Sminthuridae
						Insecta
						Ephemeroptera (MAYFLIES)
						Baetidae
--	--	--	--	6	--	<i>Acentrella</i>
--	--	--	4	2	--	<i>Baetis</i>
--	--	--	--	--	--	<i>Plauditus</i>
						Caenidae
--	--	--	--	5	--	<i>Caenis</i>
						Ephemerellidae
--	--	--	--	--	--	<i>Dannella</i>
--	--	--	--	--	1	<i>Ephemerella</i>
--	--	--	4	--	--	<i>Eurylophella</i>
--	--	--	--	--	--	<i>Serratella</i>
						Heptageniidae
--	--	--	2	19	--	<i>Stenonema</i>
						Isonychiidae
--	--	--	--	7	--	<i>Isonychia</i>
						Leptophlebiidae
--	--	--	4	--	--	<i>Paraleptophlebia</i>
						Odonata (DRAGONFLIES AND DAMSELFLIES)
						Gomphidae
--	--	--	--	--	--	<i>Lanthus</i>
						Plecoptera (STONEFLIES)
						Capniidae
						Leuctridae
--	--	--	2	--	--	<i>Leuctra</i>
						Perlidae
--	--	--	--	2	--	<i>Acroneuria</i>
						Perlodidae
--	--	--	--	--	--	<i>Isoperla</i>
						Taeniopterygidae
--	--	--	--	--	--	<i>Taeniopteryx</i>
						Megaloptera
						Corydalidae (FISHFLIES AND DOBSONFLIES)
--	--	--	--	--	--	<i>Corydalus</i>
--	--	--	--	--	--	<i>Nigronia</i>
						Sialidae (ALDERFLIES)
--	--	--	--	2	--	<i>Sialis</i>

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES

Station number	03010956	03012600	03017500	03025490	03030852	03044000
Date	08/12/04	08/11/04	08/09/04	10/13/04	08/12/04	10/04/04
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Trichoptera (CADDISFLIES)						
Brachycentridae						
<i>Brachycentrus</i>	--	--	6	2	--	--
<i>Micrasema</i>	--	1	--	--	--	--
Hydropsychidae						
<i>Cheumatopsyche</i>	4	1	5	5	--	52
<i>Hydropsyche</i>	12	1	4	7	71	35
<i>Macrostemum</i>	--	2	--	--	8	--
Hydroptilidae						
<i>Hydroptila</i>	--	--	--	--	2	--
<i>Leucotrichia</i>	--	--	--	--	--	--
Leptoceridae						
<i>Ceraclea</i>	--	--	--	1	--	--
<i>Oecetis</i>	--	--	--	--	--	--
Philopotamidae						
<i>Chimarra</i>	1	--	--	--	--	6
<i>Dolophilodes</i>	--	--	--	--	--	--
<i>Wormaldia</i>	--	--	3	--	--	--
Polycentropodidae						
<i>Polycentropus</i>	--	--	--	--	--	--
Psychomyiidae						
<i>Psychomyia</i>	--	4	--	1	--	--
Rhyacophilidae						
<i>Rhyacophila</i>	--	--	1	--	--	--
Coleoptera (BEETLES)						
Elmidae (RIFFLE BEETLES)						
<i>Optioservus</i>	3	5	9	14	1	1
<i>Oulimnius</i>	--	9	5	--	--	--
<i>Stenelmis</i>	--	--	2	7	--	1
Psephenidae (WATER PENNIES)						
<i>Psephenus</i>	--	--	--	--	--	--
Diptera (TRUE FLIES)						
Athericidae						
<i>Atherix</i>	1	--	--	--	--	--
Ceratopogonidae (BITING MIDGES)						
Chironomidae (MIDGES)						
	32	25	30	33	19	2
Empididae (DANCE FLIES)						
<i>Chelifera</i>	--	--	1	--	--	--
<i>Hemerodromia</i>	2	1	1	2	1	5
Simuliidae (BLACK FLIES)						
<i>Simulium</i>	--	2	--	--	--	--
Tipulidae (CRANE FLIES)						
<i>Antocha</i>	4	1	1	2	--	--
Total Organisms	113	105	125	166	144	122
Total Taxa	19	23	25	20	11	13

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES

03049652*	03063000*	03071700*	03077500	03078020	03099600	Station number
11/04/04	11/19/04	11/19/04	09/15/04	09/14/04	10/05/04	Date
Count	Count	Count	Count	Count	Count	Benthic macroinvertebrate
						Trichoptera (CADDISFLIES)
						Brachycentridae
1	--	--	--	2	--	<i>Brachycentrus</i>
--	--	--	--	--	--	<i>Micrasema</i>
--	--	--	--	--	--	Hydropsychidae
3	--	--	9	9	1	<i>Cheumatopsyche</i>
--	--	--	1	23	1	<i>Hydropsyche</i>
--	--	--	--	--	--	<i>Macrostemum</i>
						Hydroptilidae
2	2	--	14	--	--	<i>Hydroptila</i>
--	--	--	--	5	--	<i>Leucotrichia</i>
						Leptoceridae
--	--	--	--	--	--	<i>Ceraclea</i>
--	--	1	--	--	--	<i>Oecetis</i>
						Philopotamidae
--	--	--	--	--	--	<i>Chimarra</i>
--	--	--	--	1	--	<i>Dolophilodes</i>
--	--	--	--	--	--	<i>Wormaldia</i>
						Polycentropodidae
--	--	25	--	--	--	<i>Polycentropus</i>
						Psychomyiidae
--	--	--	--	4	--	<i>Psychomyia</i>
						Rhyacophilidae
--	--	--	--	1	--	<i>Rhyacophila</i>
						Coleoptera (BEETLES)
						Elmidae (RIFFLE BEETLES)
--	--	--	--	11	3	<i>Optioservus</i>
--	--	--	7	--	--	<i>Oulimnius</i>
--	--	--	--	3	1	<i>Stenelmis</i>
						Psephenidae (WATER PENNIES)
--	--	--	--	4	--	<i>Psephenus</i>
						Diptera (TRUE FLIES)
						Athericidae
--	--	--	--	2	--	<i>Atherix</i>
						Ceratopogonidae (BITING MIDGES)
8	25	57	59	14	20	Chironomidae (MIDGES)
						Empididae (DANCE FLIES)
--	--	--	--	--	--	<i>Chelifera</i>
--	--	1	1	--	1	<i>Hemerodromia</i>
						Simuliidae (BLACK FLIES)
--	--	--	8	1	--	<i>Simulium</i>
						Tipulidae (CRANE FLIES)
--	--	--	--	4	--	<i>Antocha</i>
15	184	174	209	141	133	Total Organisms
5	10	9	22	24	20	Total Taxa

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

**BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES**

Station number	03103500	03104500	03105810	03109670*	04212945
Date	08/11/04	10/13/04	10/29/04	11/03/04	10/06/04
Benthic macroinvertebrate	Count	Count	Count	Count	Count
Platyhelminthes					
Turbellaria (FLATWORMS)					
Tricladida					
Planariidae	7	4	--	4	--
Nematoda (NEMATODES)	--	--	3	--	--
Mollusca					
Gastropoda (SNAILS)					
Basommatophora					
Ancyliidae					
<i>Ferrissia</i>	--	3	--	1	--
Hydrobiidae					
<i>Ammicola limosa</i>	--	--	--	23	--
Pleuroceridae					
<i>Elimia</i>	1	--	--	3	--
Bivalvia (CLAMS)					
Veneroida					
Corbiculidae					
<i>Corbicula fluminea</i>	1	1	--	1	--
Dreissenoidae					
<i>Dreissena polymorpha</i>	--	--	--	1	--
Sphaeriidae					
<i>Pisidium</i>	--	2	--	--	--
<i>Sphaerium</i>	4	4	--	--	--
Annelida					
Hirudinea (LEECHES)					
Arhynchobdellida					
Erpobdellidae					
<i>Erpobdella</i>	1	--	--	2	--
Oligochaeta (AQUATIC EARTHWORMS)					
Lumbriculida					
Lumbriculidae	1	--	--	--	--
Tubificida					
Naididae	1	1	20	--	--
Tubificidae	2	47	--	2	2
Arthropoda					
Acariformes					
Hydrachnidia (WATER MITES)	--	1	3	--	--
Crustacea					
Copepoda	--	--	--	1	--
Amphipoda (SCUDS)					
Crangonyctidae					
<i>Crangonyx</i>	--	--	14	1	--
Gammaridae					
<i>Gammarus</i>	35	6	--	8	--
Insecta					
Ephemeroptera (MAYFLIES)					
Caenidae					
<i>Caenis</i>	--	--	1	--	--

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEARS OCTOBER 2003 TO SEPTEMBER 2005
BENTHIC MACROINVERTEBRATES

Station number	03103500	03104500	03105810	03109670*	04212945
Date	08/11/04	10/13/04	10/29/04	11/03/04	10/06/04
Benthic macroinvertebrate	Count	Count	Count	Count	Count
Ephemeroptera (MAYFLIES)					
Ephemerellidae					
<i>Serratella</i>	--	1	--	--	6
Heptageniidae					
<i>Leucrocuta</i>	--	--	--	--	2
<i>Stenacron</i>	--	3	--	5	--
<i>Stenonema</i>	--	33	1	--	6
Isonychiidae					
<i>Isonychia</i>	--	--	--	--	7
Leptophlebiidae					
<i>Paraleptophlebia</i>	--	--	--	--	2
Potamanthidae					
<i>Anthopotamus</i>	--	--	--	--	1
Tricorythidae					
<i>Tricorythodes</i>	--	3	--	1	--
Plecoptera (STONEFLIES)					
Capniidae					
<i>Capnia</i>	--	--	--	--	1
Perlidae					
<i>Neoperla</i>	--	--	--	--	1
Taeniopterygidae					
<i>Taeniopteryx</i>	--	1	5	--	10
Trichoptera (CADDISFLIES)					
Hydropsychidae					
<i>Cheumatopsyche</i>	16	17	22	--	16
<i>Diplectrana</i>	--	--	1	--	--
<i>Hydropsyche</i>	--	3	9	--	43
Philopotamidae					
<i>Chimarra</i>	--	--	--	--	1
Polycentropodidae					
<i>Neureclipsis</i>	1	--	--	--	--
<i>Polycentropus</i>	--	--	--	1	--
Psychomyiidae					
<i>Psychomyia</i>	--	4	--	--	--
Coleoptera (BEETLES)					
Elmidae (RIFFLE BEETLES)					
<i>Optioservus</i>	--	2	--	--	--
<i>Stenelmis</i>	--	29	12	--	2
Diptera (TRUE FLIES)					
Chironomidae (MIDGES)					
<i>Chironomus</i>	72	20	29	7	25
Empididae (DANCE FLIES)					
<i>Hemerodromia</i>	7	--	13	--	1
Simuliidae (BLACK FLIES)					
<i>Simulium</i>	11	6	2	--	8
Tipulidae (CRANE FLIES)					
<i>Antocha</i>	--	--	3	--	--
Total Organisms	160	197	141	61	134
Total Taxa	14	24	16	15	17

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. A dash (--) indicates there were no observations of the organism in the sample. Samples represent counts per 200 animal (approximate) subsamples.

**BIOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
BENTHIC MACROINVERTEBRATES AT REFERENCE SITES**

Station number	03017800	03020449	03022000	03031505	03039815	04213273
Date	11/20/03	11/20/03	12/17/03	12/12/03	12/19/03	12/18/03
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Platyhelminthes						
Turbellaria (FLATWORMS)						
Tricladida						
Planariidae	--	--	1	--	--	1
Nematoda (NEMATODES)	--	--	3	--	--	--
Mollusca						
Gastropoda (SNAILS)						
Basommatophora						
Ancyliidae						
<i>Ferrissia</i>	--	1	5	--	--	--
Hydrobiidae						
<i>Amnicola</i>	--	--	3	--	--	--
Planorbidae						
<i>Planorbella</i>	--	--	--	--	--	1
Pleuroceridae						
<i>Elimia</i>	--	--	2	--	--	--
Bivalvia (CLAMS)						
Sphaeriidae	2	1	--	--	--	--
<i>Pisidium</i>	--	--	6	1	--	--
<i>Sphaerium</i>	--	--	16	--	--	--
Annelida						
Oligochaeta (AQUATIC EARTHWORMS)						
Lumbriculida						
Lumbriculidae	35	1	--	--	--	3
Tubificida						
Enchytraeidae	--	--	--	--	3	--
Naididae	--	1	--	12	3	--
Tubificidae	--	--	6	--	1	9
Arthropoda						
Acariformes						
Hydrachnidia (WATER MITES)	1	3	4	10	4	3
Crustacea						
Amphipoda (SCUDS)						
Crangonyctidae						
<i>Crangonyx</i>	--	--	1	--	--	--
Gammaridae						
<i>Gammarus</i>	--	--	3	--	--	--
Entognatha						
Collembola (SPRINGTAILS)						
Isotomidae	1	--	--	--	--	2
Poduridae	1	--	--	--	--	1
Sminthuridae	--	--	--	--	--	1

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEAR **OCTOBER 2003 TO SEPTEMBER 2004**
BENTHIC MACROINVERTEBRATES

Station number	03017800	03020449	03022000	03031505	03039815	04213273
Date	11/20/03	11/20/03	12/17/03	12/12/03	12/19/03	12/18/03
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Insecta						
Ephemeroptera (MAYFLIES)						
Ameletidae						
<i>Ameletus</i>	--	--	--	--	--	1
Baetidae						
<i>Baetis</i>	2	2	--	12	1	6
Ephemerellidae						
<i>Ephemerella</i>	5	19	3	25	1	2
<i>Eurylophella</i>	3	--	1	3	11	2
<i>Serratella</i>	--	10	--	--	--	--
Ephemeridae						
<i>Ephemera</i>	--	1	2	2	1	1
Heptageniidae						
<i>Epeorus</i>	12	20	--	4	48	2
<i>Leucrocuta</i>	1	1	--	--	--	--
<i>Stenacron</i>	--	1	12	--	1	--
<i>Stenonema</i>	2	10	32	16	12	--
Isonychiidae						
<i>Isonychia</i>	--	4	--	--	--	--
Leptophlebiidae						
<i>Paraleptophlebia</i>	6	44	--	4	--	--
Potamanthidae						
<i>Anthopotamus</i>	--	--	9	--	--	--
Odonata						
Coenagrionidae						
<i>Argia</i>	--	--	2	--	--	--
Cordulegastridae						
<i>Cordulegaster</i>	1	--	--	--	--	--
Gomphidae						
<i>Lanthus</i>	--	--	--	--	1	--
Plecoptera (STONEFLIES)						
Capniidae						
<i>Allocapnia</i>	--	1	12	15	3	39
<i>Paracapnia</i>	32	5	--	4	3	--
Chloroperlidae						
<i>Alloperla</i>	1	1	--	--	11	--
<i>Sweltsa</i>	1	--	--	1	--	--
Leuctridae						
<i>Leuctra</i>	15	7	--	4	6	--
Nemouridae						
<i>Amphinemura</i>	2	--	--	--	2	--
Perlidae						
<i>Acroneuria</i>	--	--	--	2	3	--
<i>Paragnetina</i>	--	3	--	--	--	--
Perlodidae						
<i>Isoperla</i>	1	11	--	9	--	--
Taeniopterygidae						
<i>Strophopteryx</i>	--	--	6	--	--	--
<i>Taenionema</i>	--	2	--	2	1	--
<i>Taeniopteryx</i>	--	3	1	5	--	1

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEAR **OCTOBER 2003 TO SEPTEMBER 2004**
BENTHIC MACROINVERTEBRATES

Station number	03017800	03020449	03022000	03031505	03039815	04213273
Date	11/20/03	11/20/03	12/17/03	12/12/03	12/19/03	12/18/03
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Megaloptera						
Corydalidae						
<i>Nigronia</i>	--	1	--	1	5	--
Sialidae (ALDERFLIES)						
<i>Sialis</i>	--	--	--	--	2	--
Trichoptera (CADDISFLIES)						
Glossosomatidae						
<i>Glossosoma</i>	--	--	--	1	--	--
Helicopsychidae						
<i>Helicopsyche</i>	--	--	2	--	--	--
Hydropsychidae						
<i>Cheumatopsyche</i>	--	15	15	3	--	--
<i>Diplectrona</i>	5	--	--	2	--	2
<i>Hydropsyche</i>	6	11	2	7	4	4
Hydroptilidae						
<i>Hydroptila</i>	--	--	1	--	--	--
Lepidostomatidae						
<i>Lepidostoma</i>	6	--	--	--	1	--
Leptoceridae						
<i>Oecetis</i>	--	--	1	--	--	--
Limnephilidae						
<i>Pycnopsyche</i>	3	--	--	--	2	--
Philopotamidae						
<i>Chimarra</i>	--	--	--	--	10	--
<i>Dolophilodes</i>	4	13	--	--	4	--
Polycentropodidae						
<i>Neureclipsis</i>	--	--	--	--	1	--
Rhyacophilidae						
<i>Rhyacophila</i>	--	--	--	4	--	--
Uenoidae						
<i>Neophylax</i>	1	--	--	1	--	--
Coleoptera (BEETLES)						
Curculionidae						
Elmidae (RIFFLE BEETLES)	--	--	1	--	--	--
<i>Dubiraphia</i>	--	--	6	--	--	--
<i>Macronychus</i>	--	--	1	--	--	--
<i>Optioservus</i>	--	11	7	10	1	--
<i>Oulimnius</i>	6	2	--	2	3	1
<i>Promoresia</i>	--	--	4	--	2	--
<i>Stenelmis</i>	--	--	32	--	--	1
Hydrophilidae						
<i>Helophorus</i>	--	--	--	1	--	--
Psephenidae (WATER PENNIES)						
<i>Ectopria</i>	1	--	--	1	--	--
<i>Psephenus</i>	--	--	8	--	--	2

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES
PENNSYLVANIA WATER-QUALITY NETWORK**

BIOLOGICAL DATA, WATER YEAR **OCTOBER 2003 TO SEPTEMBER 2004**
BENTHIC MACROINVERTEBRATES

Station number	03017800	03020449	03022000	03031505	03039815	04213273
Date	11/20/03	11/20/03	12/17/03	12/12/03	12/19/03	12/18/03
Benthic macroinvertebrate	Count	Count	Count	Count	Count	Count
Diptera (TRUE FLIES)						
Ceratopogonidae (BITING MIDGES)						
<i>Probezzia</i>	2	--	--	5	--	1
Chironomidae (MIDGES)	103	37	33	18	53	120
Empididae (DANCE FLIES)						
<i>Chelifera</i>	--	--	--	2	--	2
<i>Hemerodromia</i>	--	2	14	2	1	1
Sciomyzidae	--	1	--	--	--	--
Simuliidae (BLACK FLIES)						
<i>Prosimulium</i>	--	--	--	23	1	--
<i>Simulium</i>	--	--	--	--	1	1
Tabanidae						
<i>Chrysops</i>	--	--	1	--	--	--
Tipulidae (CRANE FLIES)						
<i>Antocha</i>	1	1	--	12	--	--
<i>Dicranota</i>	4	2	--	3	2	8
<i>Hexatoma</i>	1	1	--	--	1	--
<i>Molophilus</i>	--	--	--	--	--	1
<i>Tipula</i>	2	--	--	--	--	2
Total Organisms	271	251	262	252	214	223
Total Taxa	35	37	37	37	39	30

