

**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

Major streams are defined as interstate waters and intrastate streams with drainage areas of roughly 200 mi<sup>2</sup> 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 collected from April 1, 2002 through September 30, 2002 were collected by the USGS and analyzed by the PaDEP laboratory in Harrisburg.

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 123 standard stream sites, and 27 reference stream sites 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.

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**TABLE 3.**--Pennsylvania Water-Quality Network (WQN) station list.

Station number	Location	Latitude	Longitude	Drainage area (mi <sup>2</sup> )
<sup>a</sup> 03010500	Allegheny River at Eldred, PA	41°57'48"	78°23'11"	550
03010956	Tunungwant Creek at Bradford, PA	41°57'44"	78°37'30"	138
03012600	Allegheny River at Warren, PA	41°49'28"	79°07'09"	2,223
<sup>a</sup> 03015000	Conewango Creek at Russell, PA	41°56'17"	79°08'00"	816
<sup>a</sup> 03015500	Brokenstraw Creek at Youngsville, PA	41°51'09"	79°19'03"	321
<sup>a</sup> 03016000	Allegheny River at West Hickory, PA	41°34'15"	79°24'29"	3,660
03017500	Tionesta Creek at Lynch, PA	41°36'07"	79°03'01"	233
03017800	Minister Creek at Truemans, PA	41°37'16"	79°09'11"	10.2
03020449	West Branch Caldwell Creek near Grand Valley, PA	41°41'40"	79°34'16"	18.1
<sup>a</sup> 03020500	Oil Creek at Rouseville, PA	41°28'54"	79°41'44"	300
03022000	French Creek at Venango, PA	41°46'19"	80°06'29"	597
<sup>a</sup> 03023100	French Creek at Meadville, PA	41°37'57"	80°09'35"	788
03025490	French Creek at Franklin, PA	41°24'06"	79°49'54"	1,237
03026175	Allegheny River at Kennerdell, PA	41°15'51"	79°50'29"	6,266
<sup>a</sup> 03029500	Clarion River at Cooksburg, PA	41°19'50"	79°12'33"	807
03030852	Clarion River at Callensburg, PA	41°07'47"	79°33'18"	1,163
<sup>a</sup> 03031500	Allegheny River at Parker, PA	41°06'02"	79°40'53"	7,671
03031505	Silver Creek at Walley Mill near North Washington, PA	41°02'39"	79°46'36"	5.5
<sup>a</sup> 03032500	Redbank Creek at St. Charles, PA	40°59'40"	79°23'40"	528
<sup>a</sup> 03034000	Mahoning Creek at Punxsutawney, PA	40°56'21"	79°00'31"	158
<sup>a</sup> 03036500	Allegheny River at Kittanning, PA	40°49'13"	79°31'54"	8,973
03039815	Clear Shade Creek above Confluence near Cairnbrook, PA	40°08'54"	78°49'03"	32.1
03044000	Conemaugh River at Tunnelton, PA	40°27'16"	79°23'28"	1,358
<sup>a</sup> 03049500	Allegheny River at Natrona, PA	40°36'55"	79°43'07"	11,410
03063000	Monongahela River at Lock and Dam 8 at Point Marion, PA	39°43'37"	79°54'42"	2,720
03071700	Cheat River at Point Marion, PA	39°44'31"	79°53'59"	1,422
<sup>a</sup> 03072000	Dunkard Creek at Shannopin, PA	39°45'33"	79°58'15"	229
03072850	South Fork Ten Mile Creek near Rogersville, PA	39°53'00"	80°18'59"	18.7
<sup>a</sup> 03075070	Monongahela River at Elizabeth, PA	40°15'44"	79°54'05"	5,340
03077500	Youghiogheny River at Youghiogheny River Dam, PA	39°48'19"	79°21'52"	436
03078020	Casselman River near Salisbury, PA	39°43'56"	79°06'03"	70.8
03079448	Kooser Run at Kooser State Park near Bakersville, PA	40°03'37"	79°13'41"	2.6
<sup>a</sup> 03083500	Youghiogheny River at Sutersville, PA	40°14'24"	79°48'24"	1,715
<sup>a</sup> 03085000	Monongahela River at Braddock, PA	40°23'28"	79°51'30"	7,337
<sup>a</sup> 03086000	Ohio River at Sewickley, PA	40°32'57"	80°12'21"	19,500
03099600	Mahoning River at North Edinburg, PA	41°01'06"	80°26'27"	1,099
<sup>a</sup> 03101500	Shenango River at Pymatuning Dam, PA	41°29'53"	80°27'37"	167
<sup>a</sup> 03102500	Little Shenango River at Greenville, PA	41°25'19"	80°22'35"	104
03103500	Shenango River at Sharpsville, PA	41°15'58"	80°28'22"	584

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**TABLE 3.**--Pennsylvania Water-Quality Network (WQN) station list--continued.

Station number	Location	Latitude	Longitude	Drainage area (mi <sup>2</sup> )
03104500	Shenango River at New Castle, PA	41°00'00"	80°21'21"	792
<sup>a</sup> 03105500	Beaver River at Wampum, PA	40°53'19"	80°20'14"	2,235
03105810	Connoquenessing Creek at Renfrew, PA	40°48'21"	79°57'55"	137
<sup>a</sup> 03106000	Connoquenessing Creek near Zelienople, PA	40°49'01"	80°14'33"	356
<sup>a</sup> 03106500	Slippery Rock Creek at Wurtemberg, PA	40°53'02"	80°14'02"	398
<sup>a</sup> 03107500	Beaver River at Beaver Falls, PA	40°45'48"	80°18'55"	3,106
<sup>a</sup> 03108000	Raccoon Creek at Moffatts Mill, PA	40°37'40"	80°20'16"	178
03109670	Ohio River at mile 44.5 at Newell, WV	40°37'10"	80°35'24"	22,784
04212945	Conneaut Creek at Cherry Hill, PA	41°55'04"	80°28'09"	149
04213273	Twelvemile Creek near Moorheadville, PA	42°12'15"	79°54'46"	12.5
04221000	Genesee River at Wellsville, NY	42°07'20"	77°57'27"	288

<sup>a</sup>Other data for this station can be found in the continuous station records section of this report.

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	DIS-CHARGE, INST. CUBIC FEET SECOND (00061)	PRESS-URE OSMOTIC WATER UNFLTRD MOSM/KG (82550)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM) (90095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED AS CA (MG/L) (00915)	CALCIUM TOTAL RECOV-ERABLE AS CA (MG/L) (00916)	
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)														
APR 2002	17...	0730	9813	528	--	40	10.3	7.4	120	125	10.7	34	--	9.8
JUN	26...	0930	9813	74	--	40	10.1	7.8	228	243	19.9	64	--	18.6
AUG	22...	0830	9813	22	--	40	8.9	7.5	536	601	18.9	130	--	39.6
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)														
APR 2002	15...	0945	9813	20200	--	40	13.2	7.9	116	118	5.7	33	--	9.7
JUN	26...	1100	9813	18900	--	40	11.2	8.4	90	93	19.0	34	--	9.8
AUG	20...	1130	9813	4070	--	40	9.3	7.8	124	122	22.6	41	--	12.2
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)														
APR 2002	17...	1200	9813	1060	--	40	10.7	6.5	49	51	12.5	17	4.18	4.1
JUN	25...	1300	9813	261	--	40	11.2	8.7	55	58	21.4	19	--	4.9
AUG	22...	1045	9813	22	--	40	8.3	7.6	101	111	21.2	34	9.20	9.1
03017800 Minister Creek at Truemans, PA (LAT 41 37 16N LONG 079 09 11W)														
APR 2002	17...	0945	9813	7.2	4.0	30	11.0	6.8	27	32	9.8	10	2.08	2.2
MAY	22...	1130	9813	37	39	30	12.8	6.1	30	30	7.4	9	2.14	1.9
JUN	25...	1115	9813	7.8	4.0	30	10.1	7.1	30	33	16.0	11	2.52	2.5
JUL	18...	1400	9813	3.5	<1.0	30	9.6	7.1	32	35	18.7	11	--	2.5
AUG	22...	1200	9813	1.6	3.0	30	9.2	7.2	34	38	17.2	12	2.67	2.7
SEP	12...	1315	9813	.67	3.0	30	10.1	8.1	40	39	13.6	11	2.57	2.6
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)														
APR 2002	16...	0845	9813	84	3.0	30	10.9	7.1	58	62	9.3	18	--	4.8
MAY	23...	0830	9813	38	39	30	12.4	7.2	63	62	6.8	21	--	5.5
JUN	27...	0815	9813	8.1	4.0	30	8.9	7.7	96	96	18.6	35	--	9.7
JUL	18...	1100	9813	2.5	<1.0	30	8.5	6.4	105	114	18.9	42	--	11.7
AUG	21...	1015	9813	2.5	3.0	30	9.1	7.6	110	125	16.0	45	--	12.6
SEP	12...	1030	9813	.83	3.0	30	9.7	8.2	137	134	13.1	49	--	13.5

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

MISCELLANEOUS STATION ANALYSES

Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N)
(00600)													
	03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)												
APR 2002													
17...	--	2.4	--	22	--	<.2	9.4	80	38	<.020	.27	<.040	.54
JUN													
26...	--	4.3	--	48	--	<.2	8.6	138	<2	<.020	.09	<.040	.16
AUG													
22...	--	7.8	--	62	--	<.2	10.1	374	<2	<.020	<.04	<.040	.20
	03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)												
APR 2002													
15...	--	2.2	--	22	--	--	9.8	100	<2	<.020	.42	<.040	.61
JUN													
26...	--	2.2	--	24	--	--	8.8	60	<2	<.020	.19	<.040	.42
AUG													
20...	--	2.5	--	32	--	--	9.0	90	<2	<.020	.16	<.040	.44
	03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)												
APR 2002													
17...	1.45	1.5	23	7	--	--	8.8	70	18	<.020	.29	<.040	.51
JUN													
25...	--	1.6	--	16	--	--	8.1	38	2	<.020	.13	<.040	.20
AUG													
22...	2.77	2.8	.0	32	--	--	7.5	48	4	<.020	.04	<.040	.34
	03017800 Minister Creek at Truemans, PA (LAT 41 37 16N LONG 079 09 11W)												
APR 2002													
17...	.94	1.0	12	3	1.1	<.2	7.8	36	40	<.020	.22	<.040	.33
MAY													
22...	1.01	.9	12	3	1.1	<.2	7.8	46	<2	<.020	.22	<.040	.28
JUN													
25...	1.09	1.1	.0	5	1.2	<.2	7.3	26	2	<.020	.21	<.040	.22
JUL													
18...	--	1.1	--	7	1.2	<.2	6.9	28	<2	<.020	.21	<.040	.19
AUG													
22...	1.13	1.1	.0	8	1.3	<.2	6.4	34	4	<.020	.20	<.040	.26
SEP													
12...	1.12	1.1	.0	11	1.4	<.2	6.5	38	6	.100	.16	<.040	.20
	03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)												
APR 2002													
16...	--	1.4	--	10	3.7	<.2	9.2	56	18	--	.38	<.040	.53
MAY													
23...	--	1.8	--	13	3.8	<.2	9.0	28	10	<.020	.40	<.040	.48
JUN													
27...	--	2.6	--	28	7.3	<.2	7.4	74	6	<.020	.31	<.040	.44
JUL													
18...	--	3.1	--	38	6.6	<.2	7.5	114	4	<.020	.23	<.040	.40
AUG													
21...	--	3.2	--	38	8.8	<.2	7.0	108	6	.020	.18	<.040	.29
SEP													
12...	--	3.7	--	48	7.9	<.2	7.2	112	8	.120	.10	<.040	.22

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MISCELLANEOUS STATION ANALYSES

Date	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)													
APR 2002 17...	.02	.020	1.9	--	--	--	--	--	<10	--	700	--	<1.0
JUN 26...	.01	.020	2.0	--	--	--	--	--	<10	--	630	--	<1.0
AUG 22...	.01	.010	2.7	--	--	--	--	--	<10	--	380	--	<1.0
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)													
APR 2002 15...	.01	.010	1.6	--	--	--	--	--	<10	--	160	--	<1.0
JUN 26...	.01	.020	2.4	--	--	--	--	--	<10	--	220	--	<1.0
AUG 20...	.01	.020	2.7	--	--	--	--	--	<10	--	70	--	1.4
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)													
APR 2002 17...	.02	.020	--	.7	--	--	--	<4	<4	40	810	<1.0	6.7
JUN 25...	.01	.010	2.1	--	--	--	--	--	<10	--	400	--	<1.0
AUG 22...	.02	.019	--	.8	--	--	--	<4	<4	140	570	<1.0	<1.0
03017800 Minister Creek at Truemans, PA (LAT 41 37 16N LONG 079 09 11W)													
APR 2002 17...	.01	<.010	--	.3	20	--	--	<4	<4	<20	150	<1.0	<1.0
MAY 22...	<.01	<.010	--	1.4	<20	--	--	<4	<4	<20	70	<1.0	<1.0
JUN 25...	.01	.010	--	.6	20	<4.0	<.20	<4	<4	40	140	<1.0	<1.0
JUL 18...	.01	<.010	--	.3	<20	<4.0	<.20	<4	<4	40	140	<1.0	<1.0
AUG 22...	<.01	<.010	--	.4	40	<4.0	<.20	<4	<4	50	150	<1.0	<1.0
SEP 12...	.01	<.010	--	1.1	60	<4.0	<.20	<4	<4	30	110	<1.0	<1.0
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)													
APR 2002 16...	.01	--	--	.6	20	--	--	<4	<4	70	350	<1.0	<1.0
MAY 23...	.02	.011	--	<.2	20	<4.0	<.20	<4	<4	60	250	<1.0	<1.0
JUN 27...	.02	.019	--	1.2	550	<4.0	<.20	<4	<4	180	790	<1.0	<1.0
JUL 18...	.02	.015	--	.5	70	<4.0	<.20	<4	<4	60	540	<1.0	<1.0
AUG 21...	.03	.019	--	1.0	40	<4.0	<.20	<4	<4	100	690	<1.0	<1.0
SEP 12...	.01	.014	--	1.2	20	<4.0	<.20	<4	<4	40	500	<1.0	<1.0

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MISCELLANEOUS STATION ANALYSES

Date	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
03010956 Tunungwant Creek at Bradford, PA (LAT 41 57 44N LONG 078 37 30W)							
APR 2002 17...	--	80	--	<50	--	<10	<5
JUN 26...	--	100	--	<50	--	<10	<5
AUG 22...	--	100	--	<50	--	<10	<5
03012600 Allegheny River at Warren, PA (LAT 41 49 28N LONG 079 07 09W)							
APR 2002 15...	--	30	--	<50	--	<10	--
JUN 26...	--	30	--	<50	--	<10	--
AUG 20...	--	30	--	<50	--	10	--
03017500 Tionesta Creek at Lynch, PA (LAT 41 36 07N LONG 079 03 01W)							
APR 2002 17...	30	60	<4.0	<4.0	10	10	--
JUN 25...	--	30	--	<50	--	10	--
AUG 22...	60	80	<4.0	<4.0	10	10	--
03017800 Minister Creek at Truemans, PA (LAT 41 37 16N LONG 079 09 11W)							
APR 2002 17...	40	50	<4.0	<4.0	20	20	<5
MAY 22...	40	40	<4.0	<4.0	20	20	<5
JUN 25...	10	20	<4.0	<4.0	6.3	6.1	<5
JUL 18...	9.6	20	<4.0	<4.0	<5.0	<5.0	8
AUG 22...	9.7	20	<4.0	<4.0	<5.0	<5.0	<5
SEP 12...	10	20	<4.0	<4.0	<5.0	<5.0	<5
03020449 West Branch Caldwell Creek near Grand Valley, PA (LAT 41 41 40N LONG 079 34 16W)							
APR 2002 16...	10	20	<4.0	<4.0	<5.0	<5.0	<5
MAY 23...	20	20	<4.0	<4.0	<5.0	<5.0	<5
JUN 27...	10	20	<4.0	<4.0	<5.0	<5.0	--
JUL 18...	20	30	<4.0	<4.0	--	--	7
AUG 21...	30	30	<4.0	<4.0	<5.0	<5.0	<5
SEP 12...	30	40	<4.0	<4.0	<5.0	<5.0	<5

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	DIS-CHARGE, INST. CUBIC FEET SECOND (00061)	PRESS-URE OSMOTIC WATER UNFLTRD MOSM/KG (82550)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM) (90095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED AS CA (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)													
APR 2002													
23...	0730	9813	1720	8.0	40	7.7	7.6	210	193	10.8	82	--	24.8
MAY													
20...	1025	9813	2740	1.0	40	10.2	7.8	161	--	11.4	63	--	19.4
JUN													
10...	1030	9813	1280	3.0	40	8.8	7.8	202	179	20.8	78	--	24.1
JUL													
23...	1030	9813	90	6.0	40	6.2	7.7	367	--	25.0	150	--	45.5
AUG													
12...	1000	9813	100	5.0	40	8.0	7.7	390	322	22.0	140	--	43.9
SEP													
23...	1030	9813	100	6.0	40	8.7	7.8	301	320	18.0	140	--	43.3
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)													
APR 2002													
24...	0815	9813	3040	--	40	7.9	7.8	209	196	9.9	76	--	22.7
JUN													
12...	1030	9813	1500	--	40	8.1	7.7	251	199	22.0	85	--	25.5
AUG													
14...	1030	9813	387	--	40	8.6	8.2	223	300	24.8	120	--	36.7
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)													
APR 2002													
24...	1230	9813	17800	--	40	7.7	7.6	134	132	10.8	45	--	13.3
JUN													
12...	1230	9813	18700	--	40	9.5	7.5	158	116	18.3	43	--	12.6
AUG													
14...	1230	9813	3130	--	40	8.1	7.9	184	181	25.0	61	--	18.4
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)													
APR 2002													
24...	1430	9813	3600	--	40	7.2	7.0	151	150	12.7	49	--	11.8
JUN													
12...	1430	9813	4200	--	40	9.3	6.0	284	184	20.0	63	--	14.5
AUG													
14...	1430	9813	145	--	40	9.4	7.4	232	393	28.0	110	--	26.0
03031505 Silver Creek at Walley Mill near North Washington PA (LAT 41 02 39N LONG 079 46 36W)													
MAY 2002													
01...	1000	9813	6.7	6.0	30	14.0	7.6	193	--	6.8	68	--	18.2
21...	1215	9813	18	<1.0	30	12.4	7.6	145	134	7.6	44	--	10.9
JUN													
13...	1230	9813	6.8	3.0	30	10.2	7.4	213	151	16.1	52	--	13.5
JUL													
24...	1130	9813	1.4	1.0	30	9.2	7.4	283	--	18.4	75	--	20.7
AUG													
15...	1030	9813	.75	4.0	30	10.1	7.6	225	--	20.0	84	--	23.5
SEP													
25...	1130	9813	.09	1.0	30	10.3	7.6	249	--	12.7	86	--	24.2





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

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

MISCELLANEOUS STATION ANALYSES

Date	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)													
APR 2002 23...	.02	.035	--	1.3	60	--	--	<4	<4	110	620	<1.0	<1.0
MAY 20...	.05	.048	--	15.0	220	--	--	<4	<4	120	1300	<1.0	1.2
JUN 10...	.02	.045	--	1.0	80	<4.0	<.20	<4	<4	100	840	<1.0	1.0
JUL 23...	.03	.032	--	1.4	5900	<4.0	<.20	<4	<4	40	950	<1.0	1.2
AUG 12...	.03	.031	--	2.6	60	<4.0	<.20	<4	<4	30	510	<1.0	<1.0
SEP 23...	.01	.032	--	.2	160	<4.0	<.20	<4	<4	40	270	<1.0	<1.0
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)													
APR 2002 24...	.02	.030	3.9	--	--	--	--	--	<10	--	1080	--	<1.0
JUN 12...	.02	.040	5.4	--	--	--	--	--	<10	--	540	--	<1.0
AUG 14...	.01	.020	3.3	--	--	--	--	--	<10	--	100	--	<1.0
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)													
APR 2002 24...	.01	.020	2.4	--	--	--	--	--	<10	--	410	--	<1.0
JUN 12...	.02	.030	3.0	--	--	--	--	--	<10	--	520	--	<1.0
AUG 14...	.01	.020	2.7	--	--	--	--	--	<10	--	130	--	<1.0
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)													
APR 2002 24...	.02	.010	1.7	--	--	--	--	--	<10	--	660	--	<1.0
JUN 12...	.01	.020	2.4	--	--	--	--	--	<10	--	1130	--	1.1
AUG 14...	<.01	<.010	2.5	--	--	--	--	--	<10	--	120	--	<1.0
03031505 Silver Creek at Walley Mill near North Washington PA (LAT 41 02 39N LONG 079 46 36W)													
MAY 2002 01...	.01	<.010	--	1.4	100	--	--	<4	<4	50	160	<1.0	<1.0
21...	.01	.012	--	1.3	150	--	--	<4	<4	20	280	<1.0	<1.0
JUN 13...	.01	<.010	--	1.7	600	<4.0	<.20	<4	5.9	30	510	<1.0	<1.0
JUL 24...	.03	.028	--	1.0	3600	<4.0	<.20	<4	<4	20	700	<1.0	<1.0
AUG 15...	.01	.016	--	1.0	560	<4.0	<.20	<4	<4	<20	420	<1.0	<1.0
SEP 25...	<.01	.017	--	2.3	60	<4.0	<.20	<4	<4	30	600	<1.0	<1.0

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

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

MISCELLANEOUS STATION ANALYSES

Date	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
03022000 French Creek at Venango, PA (LAT 41 46 35N LONG 080 06 30W)							
APR 2002							
23...	30	70	<4.0	<4.0	6.4	6.6	<5
MAY							
20...	30	70	<4.0	4.2	7.8	9.7	<5
JUN							
10...	20	80	<4.0	<4.0	<5.0	5.0	<5
JUL							
23...	50	130	8.0	6.0	8.8	70	<5
AUG							
12...	20	110	<4.0	<4.0	10	10	<5
SEP							
23...	20	80	<4.0	<4.0	10	10	<5
03025490 French Creek at Franklin, PA (LAT 41 24 06N LONG 079 49 54W)							
APR 2002							
24...	--	50	--	<50	--	70	--
JUN							
12...	--	50	--	<50	--	<10	--
AUG							
14...	--	20	--	<50	--	<10	--
03026175 Allegheny River at Kennerdell, PA (LAT 41 15 51N LONG 079 50 29W)							
APR 2002							
24...	--	50	--	<50	--	<10	--
JUN							
12...	--	60	--	<50	--	20	--
AUG							
14...	--	30	--	<50	--	10	--
03030852 Clarion River at Callensburg, PA (LAT 41 07 47N LONG 079 33 16W)							
APR 2002							
24...	--	640	--	<50	--	20	--
JUN							
12...	--	880	--	<50	--	80	--
AUG							
14...	--	1080	--	<50	--	10	--
03031505 Silver Creek at Walley Mill near North Washington PA (LAT 41 02 39N LONG 079 46 36W)							
MAY 2002							
01...	90	100	<4.0	<4.0	--	--	<5
21...	50	40	<4.0	<4.0	10	10	<5
JUN							
13...	30	50	<4.0	4.5	10	20	<5
JUL							
24...	50	100	<4.0	<4.0	20	--	<5
AUG							
15...	70	110	<4.0	<4.0	--	--	<5
SEP							
25...	130	230	<4.0	<4.0	20	30	<5

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

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET SECOND (00061)	PRESS- URE OSMOTIC WATER UNFLTRD MOSM/KG (82550)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (µS/CM) (90095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED AS CA (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)
03039815 Clear Shade Creek above Confluence near Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)													
APR 2002													
30...	0900	9813	--	5.0	40	11.8	6.5	42	47	7.0	12	2.98	3.6
MAY													
29...	1150	9813	61	1.0	40	10.1	7.5	44	--	14.2	12	3.26	3.4
JUN													
24...	1345	9813	27	3.0	40	8.5	7.3	91	--	21.8	16	4.53	4.7
JUL													
17...	1245	9813	9.2	<1.0	40	7.8	7.5	135	58	22.0	20	5.83	6.2
AUG													
22...	1100	9813	4.5	3.0	40	8.4	7.2	67	--	20.9	23	6.80	7.2
SEP													
25...	1530	9813	2.6	<1.0	40	10.3	7.3	66	69	14.4	23	6.27	7.1
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)													
APR 2002													
10...	1200	9813	1680	--	40	7.5	7.0	--	192	12.0	61	--	17.1
JUN													
06...	0915	9813	1210	--	40	7.7	6.9	688	574	22.7	220	--	57.8
AUG													
28...	0945	9813	492	--	40	7.1	6.7	1340	1220	24.3	470	--	125
03063000 Monongahela River at Lock & Dam 8, at Point Marion, PA (LAT 39 43 37N LONG 079 54 42W)													
APR 2002													
15...	1130	9813	4810	--	40	7.1	7.2	314	308	13.8	130	--	37.3
JUN													
17...	1145	9813	3000	--	40	9.8	7.4	412	362	22.0	170	--	48.2
AUG													
08...	1130	9813	1120	--	40	7.5	7.1	361	328	27.0	120	--	32.2
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)													
APR 2002													
15...	1015	9813	8000	--	40	6.3	6.8	131	125	13.0	51	--	14.9
JUN													
17...	1045	9813	1400	--	40	7.8	7.0	168	119	22.5	49	--	14.3
AUG													
08...	1015	9813	1500	--	40	7.0	7.1	258	236	25.0	84	--	23.8
03072850 South Fork Tenmile Creek near Rogersville, PA (LAT 39 53 00N LONG 080 18 59W)													
APR 2002													
15...	1300	9813	23	7.0	40	6.1	7.6	249	236	14.3	120	--	38.8
MAY													
22...	0915	9813	35	41	40	12.3	7.8	266	247	7.7	110	--	36.4
JUN													
17...	1330	9813	8.5	7.0	40	9.8	7.8	362	293	18.5	140	--	43.2
JUL													
16...	0930	9813	--	4.0	40	5.3	7.3	438	402	21.3	140	--	42.9
AUG													
08...	1300	9813	--	5.0	40	3.5	7.5	189	--	18.8	140	--	44.8
SEP													
30...	1000	9813	--	3.0	40	7.3	7.5	346	--	16.0	140	--	42.7

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

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

MISCELLANEOUS STATION ANALYSES

Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- TOTAL (MG/L AS F) (00951)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N)
(00600)													
	03039815 Clear Shade Creek above Confluence near Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)												
APR 2002													
30...	.62	.8	16	3	2.7	<.2	8.8	36	<2	<.020	.28	<.040	.36
MAY													
29...	.75	.8	23	3	2.7	<.2	8.7	22	8	<.020	.23	<.040	.28
JUN													
24...	.96	1.0	27	3	3.9	<.2	8.9	46	10	<.020	.26	<.040	.29
JUL													
17...	1.05	1.2	23	10	3.1	<.2	10.4	--	14	.120	.25	<.040	.31
AUG													
22...	1.20	1.3	.0	13	3.1	<.2	9.2	--	--	<.020	.22	<.040	.14
SEP													
25...	1.10	1.3	.0	14	3.7	<.2	9.8	64	<2	.020	.17	<.040	.24
	03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)												
APR 2002													
10...	--	4.4	--	28	--	<.2	34.0	122	28	.030	.63	<.040	.92
JUN													
06...	--	17.7	--	10	--	--	193	398	8	.190	.71	<.040	1.0
AUG													
28...	--	37.6	--	5	--	--	459	1070	4	.210	1.32	<.200	1.9
	03063000 Monongahela River at Lock & Dam 8, at Point Marion, PA (LAT 39 43 37N LONG 079 54 42W)												
APR 2002													
15...	--	8.2	--	38	--	--	96.0	260	24	.120	.65	<.040	1.0
JUN													
17...	--	12.4	--	58	--	--	113	302	8	.080	.65	<.040	1.1
AUG													
08...	--	8.4	--	38	--	--	103	232	4	<.020	.67	<.040	.92
	03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)												
APR 2002													
15...	--	3.3	--	5	--	--	41.1	148	2	.090	.46	<.040	.67
JUN													
17...	--	3.1	--	13	--	--	34.2	112	2	.170	.36	<.040	.64
AUG													
08...	--	5.9	--	28	--	--	73.1	168	<2	.050	.56	<.040	.82
	03072850 South Fork Tenmile Creek near Rogersville, PA (LAT 39 53 00N LONG 080 18 59W)												
APR 2002													
15...	--	5.5	--	80	8.8	<.2	25.3	222	144	.030	.47	<.040	1.4
MAY													
22...	--	5.0	--	84	4.5	<.2	29.6	148	<2	<.020	.29	<.040	.49
JUN													
17...	--	6.7	--	114	8.2	<.2	28.2	218	<2	<.020	.24	<.040	.46
JUL													
16...	--	7.2	--	146	21.3	<.2	33.2	412	34	.030	.08	<.040	.45
AUG													
08...	--	7.1	--	--	23.2	<.2	27.3	286	2	<.020	<.04	<.040	.56
SEP													
30...	--	6.8	--	92	20.2	<.2	48.9	--	--	.040	2.07	.050	2.8

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

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

MISCELLANEOUS STATION ANALYSES

Date	PHOS- PHORUS TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
03039815 Clear Shade Creek above Confluence near Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)													
APR 2002													
30...	.01	<.010	--	.6	20	--	--	<4	<4	50	210	<1.0	<1.0
MAY													
29...	.01	<.010	--	.8	<20	<4.0	<.20	<4	<4	40	180	<1.0	<1.0
JUN													
24...	<.01	.010	--	1.6	<20	<4.0	<.20	<4	<4	60	250	<1.0	<1.0
JUL													
17...	.01	<.010	--	.3	<20	<4.0	<.20	<4	<4	40	220	<1.0	<1.0
AUG													
22...	<.01	<.010	--	.8	10	<4.0	<.20	<4	<4	60	230	<1.0	<1.0
SEP													
25...	<.01	<.010	--	2.0	<20	<4.0	<.20	<4	<4	40	230	<1.0	<1.0
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)													
APR 2002													
10...	.02	.020	2.4	--	--	--	--	--	<10	--	560	--	1.4
JUN													
06...	<.01	<.010	1.6	--	--	--	--	--	<10	--	730	--	<1.0
AUG													
28...	<.01	<.010	1.4	--	--	--	--	--	<10	--	180	--	1.9
03063000 Monongahela River at Lock & Dam 8, at Point Marion, PA (LAT 39 43 37N LONG 079 54 42W)													
APR 2002													
15...	.03	.030	1.8	--	--	--	--	--	<10	--	690	--	<1.0
JUN													
17...	.06	.030	3.6	--	--	--	--	--	<10	--	1010	--	2.2
AUG													
08...	.01	.020	2.9	--	--	--	--	--	<10	--	280	--	<1.0
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)													
APR 2002													
15...	<.01	<.010	1.2	--	--	--	--	--	<10	--	600	--	<1.0
JUN													
17...	.02	.010	1.9	--	--	--	--	--	<10	--	360	--	<1.0
AUG													
08...	<.01	<.010	3.2	--	--	--	--	--	<10	--	220	--	<1.0
03072850 South Fork Tenmile Creek near Rogersville, PA (LAT 39 53 00N LONG 080 18 59W)													
APR 2002													
15...	.27	.194	--	2.6	29000	--	--	<4	--	30	5380	<1.0	3.6
MAY													
22...	.03	.024	--	2.0	1300	--	--	<4	<4	<20	300	<1.0	<1.0
JUN													
17...	.05	.033	--	1.0	1600	<4.0	<.20	<4	<4	<20	450	<1.0	<1.0
JUL													
16...	.04	.049	--	1.7	250	<4.0	<.20	<4	<4	40	530	<1.0	<1.0
AUG													
08...	.05	.045	--	2.3	160	<4.0	<.20	<4	<4	<20	450	<1.0	<1.0
SEP													
30...	.03	.084	--	1.1	7200	<4.0	<.20	--	<4	30	1330	<1.0	1.1

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

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

MISCELLANEOUS STATION ANALYSES

Date	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
03039815 Clear Shade Creek above Confluence near Cairnbrook, PA (LAT 40 08 54N LONG 078 49 03W)							
APR 2002							
30...	60	100	<4.0	8.3	20	20	<5
MAY							
29...	70	80	<4.0	<4.0	10	10	--
JUN							
24...	20	30	<4.0	<4.0	9.8	10	<5
JUL							
17...	10	30	<4.0	<4.0	8.1	50	<5
AUG							
22...	10	20	<4.0	<4.0	<5.0	<5.0	<5
SEP							
25...	7.3	20	<4.0	<4.0	30	20	<5
03044000 Conemaugh River at Tunnelton, PA (LAT 40 27 16N LONG 079 23 28W)							
APR 2002							
10...	--	150	--	<50	--	20	<5
JUN							
06...	--	1040	--	<50	--	30	--
AUG							
28...	--	890	--	<50	--	70	--
03063000 Monongahela River at Lock & Dam 8, at Point Marion, PA (LAT 39 43 37N LONG 079 54 42W)							
APR 2002							
15...	--	200	--	<50	--	<10	--
JUN							
17...	--	90	--	<50	--	90	--
AUG							
08...	--	70	--	<50	--	<10	--
03071700 Cheat River at Point Marion, PA (LAT 39 44 31N LONG 079 53 59W)							
APR 2002							
15...	--	190	--	<50	--	10	--
JUN							
17...	--	170	--	<50	--	20	--
AUG							
08...	--	50	--	<50	--	10	--
03072850 South Fork Tenmile Creek near Rogersville, PA (LAT 39 53 00N LONG 080 18 59W)							
APR 2002							
15...	30	190	<4.0	5.5	7.7	20	<5
MAY							
22...	30	40	<4.0	<4.0	<5.0	<5.0	<5
JUN							
17...	40	50	<4.0	<4.0	<5.0	<5.0	<5
JUL							
16...	80	110	<4.0	<4.0	10	--	<5
AUG							
08...	120	150	<4.0	<4.0	--	--	<5
SEP							
30...	90	130	<4.0	<4.0	--	--	<5

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

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA- LYZING SAMPLE NUMBER (CODE 00028)	DIS- CHARGE, INST. CUBIC FEET SECOND (00061)	PRESS- URE OSMOTIC WATER UNFLTRD MOSM/KG (82550)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (µS/CM) (90095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED AS AS CA) (00915)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)													
APR 2002 29...	0930	9813	--	--	40	11.5	7.5	114	114	7.0	33	--	9.5
JUN 25...	1015	9813	4.4	--	40	9.1	7.3	99	96	12.7	28	--	8.1
AUG 26...	1515	9813	--	--	40	8.1	6.4	95	98	16.7	33	--	9.7
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)													
APR 2002 29...	1230	9813	579	--	40	10.4	7.6	119	115	8.9	37	9.04	10.7
JUN 25...	0900	9813	18	--	40	8.2	7.3	217	247	20.3	81	21.9	23.3
03079448 Kooser Run at Kooser State Park near Bakersville, PA (LAT 40 03 37N LONG 079 13 41W)													
APR 2002 30...	1200	9813	11	120	30	12.5	7.2	228	226	9.2	61	19.1	21.4
MAY 29...	0910	9813	3.9	4.0	30	10.4	7.6	244	224	12.6	75	22.6	26.7
JUN 24...	1050	9813	2.7	5.0	30	11.0	7.4	252	238	15.4	72	25.1	25.4
JUL 17...	1030	9813	1.8	1.0	30	8.5	7.6	278	245	14.8	77	26.4	27.5
AUG 22...	0830	9813	1.5	6.0	30	9.1	7.7	319	--	15.9	100	33.3	35.5
SEP 25...	1430	9813	1.0	3.0	30	10.7	7.8	329	329	11.0	110	37.1	39.7
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)													
APR 2002 18...	1215	9813	3280	--	40	7.4	7.7	495	483	12.8	160	--	44.5
JUN 20...	0830	9813	736	--	40	8.8	7.7	330	516	19.0	150	--	42.2
AUG 06...	1330	9813	528	--	40	7.1	7.6	612	567	27.0	170	--	46.6
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)													
APR 2002 23...	1430	9813	854	--	40	8.2	7.7	197	182	13.7	70	--	20.0
JUN 11...	1145	9813	510	--	40	9.9	7.7	210	190	20.6	76	--	22.2
AUG 13...	1145	9813	251	--	40	7.6	7.7	227	229	26.0	97	--	28.8



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PENNSYLVANIA WATER-QUALITY NETWORK**

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

MISCELLANEOUS STATION ANALYSES

Date	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ACIDITY TOTAL HEATED (MG/L CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N)
(00600)													
	03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)												
APR 2002 29...	--	2.1	--	12	--	--	13.7	78	<2	<.020	.91	<.040	1.0
JUN 25...	--	1.9	--	13	--	--	12.9	72	<2	<.020	.66	<.040	.75
AUG 26...	--	2.1	--	16	--	--	13.5	254	4	<.020	.61	<.040	.75
	03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)												
APR 2002 29...	2.01	2.5	.0	12	--	--	17.1	106	26	<.020	.91	<.040	1.1
JUN 25...	5.21	5.4	.0	34	--	--	43.4	76	4	.030	.75	<.040	.91
	03079448 Kooser Run at Kooser State Park near Bakersville, PA (LAT 40 03 37N LONG 079 13 41W)												
APR 2002 30...	1.56	1.8	.0	34	32.4	<.2	13.7	148	<2	<.020	2.47	<.040	2.5
MAY 29...	1.64	1.9	.0	40	29.9	<.2	14.2	160	2	<.020	2.47	<.040	2.5
JUN 24...	2.12	2.1	.0	42	33.2	<.2	13.0	206	12	<.020	2.06	<.040	2.1
JUL 17...	1.97	2.0	.0	48	34.3	<.2	12.9	106	10	.100	1.83	<.040	1.9
AUG 22...	2.99	3.1	.0	52	36.9	<.2	19.7	--	--	<.020	4.08	<.040	4.4
SEP 25...	2.96	3.1	.0	50	40.4	<.2	20.0	282	<2	.050	6.53	<.040	6.9
	03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)												
APR 2002 18...	--	12.0	--	78	--	<.2	65.4	866	50	.080	1.04	.040	2.0
JUN 20...	--	10.7	--	88	--	.3	65.6	462	22	.100	1.64	.070	2.2
AUG 06...	--	13.0	--	90	--	.4	68.6	364	4	.090	2.03	.140	2.6
	03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)												
APR 2002 23...	--	4.8	--	48	--	<.2	18.1	184	14	.060	.56	<.040	1.3
JUN 11...	--	5.0	--	56	--	<.2	15.6	156	<2	.190	.37	<.040	1.4
AUG 13...	--	6.1	--	70	--	<.2	15.8	150	12	.070	.08	<.040	.87

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

MISCELLANEOUS STATION ANALYSES

Date	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
03077500 Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)													
APR 2002 29...	.01	.010	1.8	--	--	--	--	--	<10	--	140	--	<1.0
JUN 25...	.01	.010	2.0	--	--	--	--	--	<10	--	90	--	<1.0
AUG 26...	<.01	.020	1.8	--	--	--	--	--	<10	--	80	--	<1.0
03078020 Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)													
APR 2002 29...	.03	.035	--	1.6	--	--	--	<4	<4	80	1240	<1.0	<1.0
JUN 25...	.01	.021	--	1.7	--	--	--	<4	<4	70	320	<1.0	<1.0
03079448 Kooser Run at Kooser State Park near Bakersville, PA (LAT 40 03 37N LONG 079 13 41W)													
APR 2002 30...	<.01	.010	--	.8	<20	--	--	<4	<4	<20	130	<1.0	<1.0
MAY 29...	<.01	<.010	--	1.2	20	<4.0	<.20	<4	<4	20	100	<1.0	<1.0
JUN 24...	<.01	.010	--	1.5	80	<4.0	<.20	<4	<4	50	220	<1.0	<1.0
JUL 17...	.01	.010	--	.4	60	<4.0	<.20	<4	<4	<20	110	<1.0	<1.0
AUG 22...	.01	.010	--	1.0	160	<4.0	<.20	<4	<4	20	100	<1.0	<1.0
SEP 25...	<.01	<.010	--	1.8	<20	<4.0	<.20	<4	<4	<20	40	<1.0	<1.0
03099600 Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)													
APR 2002 18...	.06	.140	7.9	--	--	--	--	--	<10	--	2330	--	5.6
JUN 20...	.11	.190	7.4	--	--	--	--	--	<10	--	1180	--	3.5
AUG 06...	.18	.227	6.4	--	--	--	--	--	<10	--	370	--	2.0
03103500 Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)													
APR 2002 23...	.03	.050	5.8	--	--	--	--	--	<10	--	690	--	<1.0
JUN 11...	.04	.040	6.6	--	--	--	--	--	<10	--	710	--	<1.0
AUG 13...	.04	.050	6.0	--	--	--	--	--	<10	--	580	--	1.5

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

MISCELLANEOUS STATION ANALYSES

Date	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
03077500	Youghiogheny River at Youghiogheny River Dam, PA (LAT 39 48 19N LONG 079 21 52W)						
APR 2002							
29...	--	40	--	<50	--	<10	--
JUN 25...	--	50	--	<50	--	<10	--
AUG 26...	--	240	--	<50	--	10	--
03078020	Casselman River near Salisbury, PA (LAT 39 43 56N LONG 079 06 03W)						
APR 2002							
29...	60	130	<4.0	--	<5.0	9.5	--
JUN 25...	100	120	5.0	--	6.4	10	--
03079448	Kooser Run at Kooser State Park nr Bakersville, PA (LAT 40 03 37N LONG 079 13 41W)						
APR 2002							
30...	10	20	<4.0	<4.0	5.6	5.5	<5
MAY 29...	6.6	10	<4.0	<4.0	<5.0	<5.0	<5
JUN 24...	5.8	20	<4.0	<4.0	<5.0	<5.0	<5
JUL 17...	4.5	10	<4.0	<4.0	--	<5.0	<5
AUG 22...	8.0	20	<4.0	<4.0	8.2	10	<5
SEP 25...	3.8	<10	<4.0	<4.0	--	--	<5
03099600	Mahoning River at North Edinburg, PA (LAT 41 01 06N LONG 080 26 27W)						
APR 2002							
18...	--	180	--	<50	--	20	<5
JUN 20...	--	130	--	<50	--	30	<5
AUG 06...	--	60	--	<50	--	10	<5
03103500	Shenango River at Sharpsville, PA (LAT 41 15 58N LONG 080 28 22W)						
APR 2002							
23...	--	50	--	<50	--	<10	<5
JUN 11...	--	240	--	<50	--	<10	<5
AUG 13...	--	230	--	<50	--	<10	<5

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET SECOND (00061)	PRESS- URE OSMOTIC WATER UNFLTRD MOSM/KG (82550)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (µS/CM) (90095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED AS CA (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV- ERABLE AS CA (MG/L AS CA) (00916)
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)													
APR 2002													
18...	1030	9813	3340	--	40	16.7	--	241	231	13.6	82	--	24.1
JUN													
20...	0930	9813	1130	--	40	6.4	7.5	303	240	21.4	87	--	25.6
AUG													
06...	1230	9813	289	--	40	6.3	7.5	325	296	25.3	110	--	30.7
03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)													
APR 2002													
18...	0815	9813	363	--	40	16.7	7.8	377	357	14.8	110	--	33.9
JUN													
18...	0830	9813	91	--	40	9.2	7.6	658	584	16.7	180	--	55.8
AUG													
05...	1350	9813	44	--	40	9.1	7.8	1150	1980	27.0	760	--	268
03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)													
APR 2002													
17...	0830	9813	90900	--	40	6.4	7.8	578	265	15.0	94	--	26.7
JUN													
04...	1130	9813	25100	--	40	9.8	7.8	305	278	22.0	100	--	28.5
AUG													
05...	0945	9813	6950	--	40	7.9	7.6	845	380	29.0	120	--	32.3
04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)													
APR 2002													
22...	1045	9813	157	--	40	7.3	7.7	195	191	10.7	78	--	22.7
JUN													
10...	1230	9813	49	--	40	13.3	7.7	228	208	22.5	94	--	28.2
AUG													
12...	1215	9813	7.4	--	40	12.6	8.0	381	320	25.0	140	--	41.4
04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)													
APR 2002													
22...	1245	9813	14	13	30	8.0	7.6	365	--	7.6	110	--	34.3
MAY													
20...	1300	9813	21	3.0	30	11.8	7.4	321	--	10.1	100	--	32.1
JUN													
10...	1430	9813	6.0	5.0	30	9.4	7.5	384	343	20.7	130	--	39.5
JUL													
23...	1230	9813	28	6.0	30	8.5	7.7	568	--	22.5	170	--	53.6
AUG													
12...	1400	9813	73	6.0	30	9.8	8.7	546	--	23.0	180	--	55.6
SEP													
23...	1300	9813	78	10	30	10.4	8.2	486	--	16.7	180	--	57.7



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

MISCELLANEOUS STATION ANALYSES

Date	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)
03104500 Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)													
APR 2002 18...	.03	.080	5.6	--	--	--	--	--	<10	--	960	--	2.1
JUN 20...	.04	.110	6.4	--	--	--	--	--	<10	--	1440	--	3.9
AUG 06...	.09	.135	5.8	--	--	--	--	--	<10	--	930	--	3.0
03105810 Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)													
APR 2002 18...	.02	.040	2.3	--	--	--	--	--	<10	--	800	--	1.9
JUN 18...	.06	.090	2.8	--	--	--	--	--	<10	--	740	--	<1.0
AUG 05...	.18	.320	4.8	--	--	--	--	--	<10	--	510	--	1.7
03109670 Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)													
APR 2002 17...	.07	.110	3.0	--	--	--	--	--	10	--	3900	--	5.3
JUN 04...	.03	.040	2.7	--	--	--	--	--	10	--	450	--	1.1
AUG 05...	.02	.030	2.6	--	--	--	--	--	<10	--	240	--	<1.0
04212945 Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)													
APR 2002 22...	.03	.030	6.9	--	--	--	--	--	<10	--	1170	--	1.6
JUN 10...	.03	.044	7.4	--	--	--	--	--	<10	--	770	--	1.2
AUG 12...	.02	.020	4.8	--	--	--	--	--	<10	--	230	--	5.2
04213273 Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)													
APR 2002 22...	<.01	.021	--	.9	150	--	--	--	<4	20	80	<1.0	<1.0
MAY 20...	.01	<.010	--	2.0	100	--	--	<4	<4	40	100	<1.0	<1.0
JUN 10...	.01	.012	--	.6	160	<4.0	<.20	<4	<4	<20	120	<1.0	<1.0
JUL 23...	<.01	.011	--	1.2	1500	<4.0	<.20	<4	<4	<20	2610	<1.0	<1.0
AUG 12...	<.01	<.010	--	1.9	40	<4.0	<.20	<4	<4	<20	70	<1.0	<1.0
SEP 23...	<.01	<.010	--	<.2	40	<4.0	<.20	<4	<4	20	120	<1.0	<1.0

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

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

MISCELLANEOUS STATION ANALYSES

Date	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
03104500	Shenango River at New Castle, PA (LAT 41 00 00N LONG 080 21 21W)						
APR 2002 18...	--	80	--	<50	--	<10	<5
JUN 2002 20...	--	150	--	<50	--	40	<5
AUG 06...	--	140	--	<50	--	<10	<5
03105810	Connoquenessing Creek at Renfrew, PA (LAT 40 48 21N LONG 079 57 55W)						
APR 2002 18...	--	90	--	<50	--	<10	--
JUN 18...	--	100	--	<50	--	10	--
AUG 05...	--	230	--	<50	--	<10	--
03109670	Ohio River at Mile 44.5 at Newell, WV (LAT 40 37 10N LONG 080 35 24W)						
APR 2002 17...	--	360	--	<50	--	30	--
JUN 04...	--	130	--	<50	--	80	--
AUG 05...	--	70	--	<50	--	<10	--
04212945	Conneaut Creek at Cherry Hill, PA (LAT 41 55 04N LONG 080 28 09W)						
APR 2002 22...	--	40	--	<50	--	20	--
JUN 10...	--	30	--	<50	--	10	--
AUG 12...	--	30	--	<50	--	20	--
04213273	Twelvemile Creek near Moorheadville, PA (LAT 42 12 15N LONG 079 54 46W)						
APR 2002 22...	7.6	10	<4.0	<4.0	<5.0	<5.0	<5
MAY 20...	10	<10	<4.0	<4.0	<5.0	<5.0	<5
JUN 10...	5.4	<10	<4.0	<4.0	<5.0	<5.0	<5
JUL 23...	3.0	<10	<4.0	<4.0	7.7	7.8	<5
AUG 12...	<2.0	<10	<4.0	<4.0	10	7.0	<5
SEP 23...	2.6	<10	<4.0	10	--	--	<5

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

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

MISCELLANEOUS STATION ANALYSES

Date	Time	AGENCY ANA-LYZING SAMPLE NUMBER (CODE)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)
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04221000 Genesee River at Wellsville, NY (LAT 42 07 20N LONG 077 57 27W)

APR 2002	18...	9813	760	30	10.3	7.2	93	12.9	34	--	9.0	--	2.8
JUN	24...	9813	271	30	10.5	8.2	102	19.2	43	--	11.5	--	3.5
AUG	15...	9813	41	30	9.0	7.7	137	20.0	52	--	13.6	--	4.3

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C. DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C. SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
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04221000 Genesee River at Wellsville, NY (LAT 42 07 20N LONG 077 57 27W)

APR 2002	18...	--	19	--	--	10.0	42	<2	<.020	1.20	<.040	1.5	.02	.030
JUN	24...	--	28	--	--	9.7	96	8	<.020	1.50	<.040	1.6	.01	.020
AUG	15...	--	40	--	--	8.8	94	2	.030	.85	<.040	1.1	.02	.020

Date	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)
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04221000 Genesee River at Wellsville, NY (LAT 42 07 20N LONG 077 57 27W)

APR 2002	18...	2.2	--	--	--	--	<10	--	280	--	<1.0	--	40
JUN	24...	2.2	--	--	--	--	<10	--	211	--	<1.0	--	30
AUG	15...	2.7	--	--	--	--	<10	--	252	--	<1.0	--	40

Date	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
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04221000 Genesee River at Wellsville, NY (LAT 42 07 20N LONG 077 57 27W)

APR 2002	18...	--	<50	--	<10	--
JUN	24...	--	<50	--	<10	--
AUG	15...	--	<50	--	<10	--