

## OHIO RIVER MAIN STEM

**03086000 OHIO RIVER AT SEWICKLEY, PA**  
**(Pennsylvania Water-Quality Network Station)**  
**(National Stream-Quality Accounting Network Station)**

**LOCATION.**--Lat 40°32'57", long 80°12'21", Allegheny County, Hydrologic Unit 05030101, near left bank 50 ft upstream from Dashields Dam, 1.0 mi downstream from Narrows Run, 1.0 mi northwest of Sewickley, and 13.3 mi downstream from confluence of Allegheny and Monongahela Rivers.

**DRAINAGE AREA.**--19,500 mi<sup>2</sup>, approximately.

**WATER-DISCHARGE RECORDS**

**PERIOD OF RECORD.**--October 1933 to current year.

**REVISED RECORDS.**--WSP 1305: 1938-40 (adjusted monthly runoff). WSP 1435: 1934.

**GAGE.**--Water-stage recorder and fixed-crest concrete dam control. Datum of gage is 680.00 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 22, 1933, nonrecording gage, Nov. 22, 1933 to May 4, 1981, water-stage recorder at site 1.5 mi upstream, Nov. 14, 1988 to July 12, 1990, nonrecording gage, and July 13, 1990 to June 13, 1991, water-stage recorder at present site at datum 10.41 ft higher.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Some regulation by locks, and by many reservoirs above station. Combined capacity of reservoirs and lakes, excluding that of Chautauqua Lake (station 03013946), but including Lake Lynn, Deep Creek Reservoir (station 03076000), and 15 smaller reservoirs, 2,773,000 acre-ft. Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9790	19900	23000	54100	13600	58800	43700	12300	39200	11300	48200	31200
2	7500	18600	24100	112000	17200	52900	39200	13300	65700	9270	45200	51700
3	7090	17300	22900	103000	18100	52600	41900	13400	60600	9250	43200	82600
4	6810	14400	22600	97500	28000	56000	39600	16900	91500	10400	41100	83300
5	7430	16800	19500	94100	47400	52500	42200	20200	83400	12700	40000	82900
6	5910	16100	17100	82000	43200	73800	81600	25000	74100	9190	36000	65400
7	4320	23300	16600	75100	e42800	84800	78600	32400	64300	12300	36100	45000
8	5380	26200	13000	64300	e39200	73400	82600	35900	71800	27100	30500	31900
9	5750	25100	13800	54500	e34200	75200	80400	52600	67300	49300	30500	28200
10	5440	22000	15300	49800	28400	88100	85300	93600	62600	46000	36100	24300
11	5470	24200	12400	41500	25800	78500	86700	111000	55800	55300	41800	21800
12	7670	23000	13200	36800	23500	66400	82800	84600	49000	52500	40900	17800
13	6730	29600	23300	30400	20500	59500	79200	66200	58400	37000	40200	14700
14	9100	27400	47200	27800	18900	72500	70600	72900	79200	30200	41800	14100
15	7570	24500	73200	27500	17300	83300	64400	73000	70500	23900	35700	13100
16	12300	24300	69400	22900	16100	77800	51100	69700	66600	18500	34500	17200
17	13900	25800	60600	18600	17600	87700	41500	58100	58000	16900	26200	16500
18	16100	39000	52900	16700	16100	102000	33400	52100	57900	13800	23000	16200
19	15800	40400	46600	12100	18200	104000	25500	46000	56400	15800	25500	27800
20	13100	41900	47500	13200	20900	94000	21300	45300	50400	15200	22800	57700
21	12400	44200	80700	13800	20300	84300	21700	44700	53800	13300	16600	43800
22	14400	38900	75000	15400	26600	92800	23800	48400	46800	37700	11800	40700
23	12700	35200	64600	14900	83900	93500	23700	42900	38700	92200	10400	41800
24	10400	32500	62400	14100	120000	84700	25400	47600	33600	71700	9960	48100
25	11200	30100	55300	12500	76100	76000	24000	49600	24700	66100	9040	45100
26	11400	28000	58900	9960	64900	70800	21300	44800	19500	59100	9850	38500
27	9400	29000	51600	10600	68500	61000	17100	34200	18100	51100	25200	32200
28	13400	26600	42700	12700	63400	57400	17900	31500	13000	60700	32000	29900
29	13100	22900	36600	11900	---	53600	16400	26600	13100	69900	24700	37600
30	14900	23200	34300	13900	---	44200	14200	23000	11700	58500	32400	34500
31	22600	---	33500	13800	---	49300	---	24100	---	49000	31500	---
TOTAL	319060	810400	1229800	1177460	1030700	2261400	1377100	1411900	1555700	1105210	932750	1135600
MEAN	10290	27010	39670	37980	36810	72950	45900	45550	51860	35650	30090	37850
MAX	22600	44200	80700	112000	120000	104000	86700	111000	91500	92200	48200	83300
MIN	4320	14400	12400	9960	13600	44200	14200	12300	11700	9190	9040	13100
CFSM	0.53	1.39	2.03	1.95	1.89	3.74	2.35	2.34	2.66	1.83	1.54	1.94
IN.	0.61	1.55	2.35	2.25	1.97	4.31	2.63	2.69	2.97	2.11	1.78	2.17

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2003, BY WATER YEAR (WY)**

MEAN	14970	25570	39800	44430	49500	65090	56340	38420	24760	16040	13300	12000
MAX	51010	83490	88890	132000	91820	147900	124500	90380	70490	50770	48180	39450
(WY)	1955	1986	1973	1937	1939	1936	1940	1996	1989	1972	1956	1996
MIN	3073	3991	6705	10470	11610	18670	16790	9593	5001	3892	3565	3081
(WY)	1964	1954	1961	1977	1934	1969	1946	1934	1934	1966	1957	1946

e Estimated.

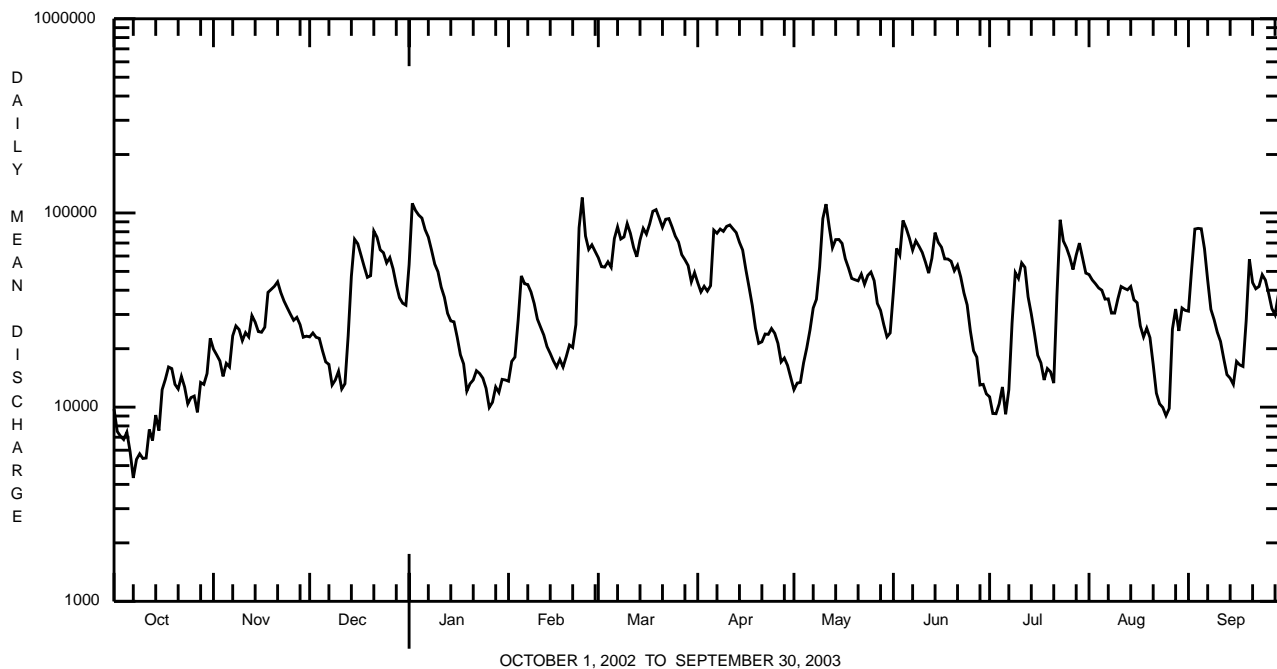
## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1934 - 2003	
ANNUAL TOTAL	11324380		14347080			
ANNUAL MEAN	31030		39310		33270	
HIGHEST ANNUAL MEAN					46520	
LOWEST ANNUAL MEAN					21110	
HIGHEST DAILY MEAN	135000	May 19	120000	Feb 24	465000	Mar 18 1936
LOWEST DAILY MEAN	3920	Sep 14	4320	Oct 7	2100	Sep 4 1957
ANNUAL SEVEN-DAY MINIMUM	4810	Sep 8	5670	Oct 5	2330	Sep 1 1957
MAXIMUM PEAK FLOW			132000	Feb 24	<sup>a</sup> 574000	Mar 18 1936
MAXIMUM PEAK STAGE			19.38	Feb 24	<sup>b</sup> 34.75	Mar 18 1936
INSTANTANEOUS LOW FLOW					1800	Sep 4 1957
ANNUAL RUNOFF (CFSM)	1.59		2.02		1.71	
ANNUAL RUNOFF (INCHES)	21.60		27.37		23.18	
10 PERCENT EXCEEDS	69100		78800		73900	
50 PERCENT EXCEEDS	22900		33500		22800	
90 PERCENT EXCEEDS	5930		12300		5990	

**a** From rating curve extended above 535,000 ft<sup>3</sup>/s.

**b** From floodmarks in gage house, site and datum then in use.



## OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued  
(Pennsylvania Water-Quality Network Station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 242-289.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, unfltrd, mg/L as CaCO3 (00900)	Calcium, water, unfltrd recover, mg/L (00916)	Magnesium, water, unfltrd recover, mg/L (00927)	ANC, water unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)
NOV 2002 04...	1330	1028	9813	13700	40	10.8	7.5	411	10.7	140	39.1	9.5	50
MAR 2003 27...	1400	1028	9813	56800	40	13.4	7.1	208	4.5	70	19.1	5.4	21
MAY 21...	0950	1028	9813	43900	40	10.0	7.4	239	14.5	75	21.1	5.3	32
JUL 23...	1500	1028	9813	94300	40	8.5	7.5	267	24.0	97	26.1	7.6	45
SEP 03...	1010	1028	9813	81700	40	8.1	7.6	279	22.5	86	23.6	6.5	35

Date	Fluoride, water, unfltrd, mg/L (00951)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 105degC, wat fltrd, mg/L (00515)	Residue total at 105 deg. C, suspended, 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)	Orthophosphate, water, unfltrd, as P, mg/L (70507)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, unfltrd, mg/L (00600)	Organic carbon, water, unfltrd, mg/L (00680)	Aluminum, water, unfltrd recover, $\mu$ g/L (01105)	Copper, water, unfltrd recover, $\mu$ g/L (01042)
NOV 2002 04...	<.2	99.9	296	8	.170	.97	<.040	.02	.033	1.5	2.8	<200	<10
MAR 2003 27...	<.2	41.2	122	50	.040	.86	<.040	.03	.047	1.1	1.9	1600	<10
MAY 21...	<.2	46.9	194	18	<.020	.60	<.040	.03	.040	1.1	2.6	1000	<10
JUL 23...	<.2	44.7	172	236	.040	.42	<.040	.06	.195	1.1	3.4	4600	10
SEP 03...	<.2	64.1	520	32	.050	.65	<.040	.03	.12	1.1	3.2	3200	<10

Date	Cyanide amenable to chlorination, wat unfltrd, mg/L (00722)	Iron, water, unfltrd recover, $\mu$ g/L (01045)	Lead, water, unfltrd recover, $\mu$ g/L (01051)	Manganese, water, unfltrd recover, $\mu$ g/L (01055)	Nickel, water, unfltrd recover, $\mu$ g/L (01067)	Zinc, water, unfltrd recover, $\mu$ g/L (01092)	Phenolic compounds, water, unfltrd, $\mu$ g/L (32730)	Gross alpha radioac, water, unfltrd, pCi/L (01519)	Gross beta radioac, water, unfltrd, pCi/L (85817)	Tritium water, unfltrd, pCi/L (07000)
NOV 2002 04...	<1.00	360	<1.0	90	<50	<10	<5	--	--	--
MAR 2003 27...	<1.00	2590	2.5	370	<50	30	--	.88	3	4
MAY 21...	<1.00	1280	2.0	160	<50	20	<5	.19	3	69
JUL 23...	<1.00	11200	14.0	1350	<50	90	<5	1.8	4	--
SEP 03...	1.92	4590	6.3	460	<50	<10	<5	--	--	--

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

BIOLOGICAL DATA  
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using rapid bioassessment protocols for benthic macroinvertebrates using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 (approximate) subsamples.

Date	10/2/02
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	27
Mollusca	
Bivalvia (CLAMS)	
Veneroidea	
Dreissenidae	
<u>Dreissena polymorpha</u>	38
Sphaeriidae	2
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Naididae	24
Arthropoda	
Crustacea	
Cladocera	461
Gammaridae	
<u>Gammarus</u> sp	1
Ostracoda	1
Insecta	
Ephemeroptera (MAYFLIES)	
Caenidae	
<u>Caenis</u> sp	1
Heptageniidae	
<u>Stenacron</u> sp	4
Trichoptera (CADDISFLIES)	
<u>Hydroptila</u> sp	2
Polycentropodidae	
<u>Neureclipsis</u> sp	16
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	211
Total Organisms	788

## OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued  
(National Stream-Quality Accounting Network Station)

REMARKS.--All water-quality samples were collected and analyzed by the U.S. Geological Survey. An explanation of selected abbreviations used in the water-quality tables is given on pages 40-41. 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 2002 TO SEPTEMBER 2003

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, $\mu$ S/cm 25 degC (00095)
NOV 2002										
18...	1015	9	40000	--	.060	.045	747	11.4	7.2	332
DEC										
16...	0945	9	72400	38	.049	.036	741	14.5	7.5	381
16...	0950	R	72400	38	.047	.034	741	14.5	7.5	381
FEB 2003										
25...	0945	9	71200	180	.039	.028	754	14.8	7.4	316
MAR										
19...	1115	9	104000	E31	E.036	E.026	742	13.4	7.1	208
31...	1015	9	50800	15	.052	.039	744	12.3	7.3	215
31...	1020	R	50700	15	.051	.038	744	12.3	7.3	215
APR										
25...	1000	9	25200	--	.041	.031	738	10.4	7.6	302
MAY										
12...	1100	9	77800	120	.060	.044	732	9.3	7.2	232
21...	0950	9	43900	18	.063	.046	749	10.0	7.4	239
JUN										
09...	1000	9	70900	30	.055	.040	738	9.5	7.3	237
09...	1010	R	70900	25	.055	.040	738	9.5	7.3	234
23...	1020	9	41500	19	.057	.042	742	9.0	7.7	285
JUL										
23...	1500	9	94300	160	.074	.056	739	8.5	7.5	267
31...	1100	9	51400	39	.093	.069	743	9.0	7.5	201
AUG										
12...	1120	9	43900	17	.072	.053	743	8.2	7.5	278
12...	1128	Q	44000	--	<.004	<.004	--	--	--	--
SEP										
03...	1010	9	81700	62	.073	.054	742	8.1	7.6	279
03...	1013	R	81700	--	--	--	742	8.1	7.6	279
11...	1045	9	22700	12	.076	.056	748	8.3	7.7	238

Date	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)
NOV 2002											
18...	9.0	31.8	7.97	2.04	22.2	37	24.3	<.17	4.43	72.0	201
DEC											
16...	2.0	28.0	7.04	1.81	25.7	39	34.8	<.17	4.29	61.9	212
16...	2.0	28.3	7.13	1.85	25.9	39	34.9	<.17	4.37	61.9	207
FEB 2003											
25...	.6	24.9	6.10	1.74	23.2	27	40.8	.07	4.90	52.8	185
MAR											
19...	4.5	16.9	4.79	1.16	11.0	19	18.0	.10	4.61	39.5	119
31...	7.5	17.5	4.73	1.17	11.9	18	18.3	.07	4.63	37.7	120
31...	7.5	17.6	4.72	1.19	11.8	18	18.1	.07	4.65	37.7	118
APR											
25...	13.5	26.4	7.39	1.65	17.1	28	24.1	<.17	3.85	63.9	176
MAY											
12...	16.0	22.7	5.32	1.58	10.6	27	13.3	<.17	4.86	50.3	135
21...	14.5	21.5	5.53	1.44	13.6	29	18.1	<.2	4.82	46.9	146
JUN											
09...	16.5	23.1	5.92	1.55	11.5	33	13.8	<.2	5.65	50.3	126
09...	16.5	22.3	5.78	1.51	11.4	30	14.3	<.2	5.46	48.0	137
23...	18.5	26.7	7.11	1.64	14.0	40	15.7	<.2	5.97	61.2	160
JUL											
23...	24.0	26.6	6.61	1.70	14.5	42	20.4	<.2	2.74	44.7	151
31...	20.5	23.8	4.93	1.56	10.8	26	12.9	<.2	5.39	36.4	119
AUG											
12...	23.0	26.6	7.15	1.76	14.8	33	16.6	<.2	5.17	57.8	175
12...	--	.02	<.008	<.008	E.06	--	<.01	.01	.02	<.01	--
SEP											
03...	22.5	25.6	6.41	2.12	13.2	33	14.9	<.2	5.22	64.1	164
03...	22.5	--	--	--	--	33	--	--	--	--	--
11...	21.0	23.1	6.26	2.01	11.9	28	14.2	<.2	5.49	47.7	145

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd, mg/L (00665)
	NOV 2002								
18...	.24	.35	.07	.93	.021	.010	.13	.015	.073
DEC									
16...	.25	.55	.09	.93	.014	<.007	.28	.007	.113
16...	.25	.60	.09	.93	.015	E.004	.24	.007	.125
FEB 2003									
25...	.35	1.3	.18	1.16	.010	<.007	.88	.007	.33
MAR									
19...	E.21	E.43	E.06	E.83	E.006	<.007	E.28	E.003	E.087
31...	.18	.28	.08	.76	.009	<.007	.09	.007	.047
31...	.18	.28	.06	.76	.009	<.007	.11	.007	.047
APR									
25...	.21	.29	.05	.74	.018	<.007	.13	E.004	.025
MAY									
12...	.20	.74	.05	.62	E.007	<.007	.34	.006	.155
21...	.23	.39	.04	.62	.010	E.004	.18	.009	.040
JUN									
09...	.17	.34	E.03	.63	E.007	<.007	.17	.005	.058
09...	.18	.36	E.03	.64	.008	<.007	.13	.005	.065
23...	.20	.28	E.02	.63	.011	<.007	.09	.006	.051
JUL									
23...	.20	1.2	E.02	.42	E.006	E.004	.82	.010	.20
31...	.24	.54	<.04	.57	.008	<.007	.11	.010	.082
AUG									
12...	.21	.35	<.04	.57	E.005	E.005	.14	.010	.057
12...	--	--	<.015	<.022	<.002	<.007	.02	--	--
SEP									
03...	.24	.65	E.03	.68	.010	<.007	.37	.008	.122
03...	--	--	--	--	--	--	--	--	--
11...	.22	.32	E.04	.73	.016	E.005	.11	.011	.036

Date	Total carbon, suspnd total, mg/L (00694)	Inor- ganic carbon, suspnd total, mg/L (00688)	Organic carbon, suspnd total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Alum- inum, water, fltrd, µg/L (01106)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll- ium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)
	NOV 2002									
18...	1.4	<.1	1.4	2.2	14	<.30	E.2	44	<.06	E.03
DEC										
16...	3.2	<.1	3.2	2.0	11	<.30	E.2	41	<.06	E.03
16...	2.7	<.1	2.6	1.9	12	<.30	E.2	41	<.06	E.03
FEB 2003										
25...	10.9	<.1	10.8	1.7	9	<.30	E.3	41	<.06	<.04
MAR										
19...	E3.3	<.1	E3.2	E1.5	21	<.30	E.2	37	<.06	E.03
31...	.6	<.1	.6	1.8	16	<.30	.3	41	<.06	E.03
31...	.9	<.1	.9	1.9	15	<.30	.3	41	<.06	E.03
APR										
25...	.7	<.1	.7	1.6	40	<.30	.3	43	<.06	<.04
MAY										
12...	4.2	<.1	4.1	2.3	22	<.30	.3	39	<.06	<.04
21...	1.8	<.1	1.7	2.2	24	<.30	.3	38	<.06	E.03
JUN										
09...	2.0	<.1	2.0	2.0	39	<.30	E.2	37	<.06	<.04
09...	1.4	<.1	1.4	2.0	--	--	E.2	--	--	--
23...	.9	<.1	.9	2.1	34	<.30	.3	39	<.06	<.04
JUL										
23...	9.4	.2	9.2	2.6	18	<.30	.5	40	<.06	<.04
31...	.9	<.1	.9	3.1	19	<.30	.3	35	<.06	<.04
AUG										
12...	1.2	<.1	1.1	2.4	19	<.30	.5	42	<.06	<.04
12...	.1	--	--	E.2	--	--	<.3	--	--	--
SEP										
03...	4.2	<.1	4.1	2.7	19	<.30	.4	39	<.06	<.04
03...	--	--	--	--	--	--	--	--	--	--
11...	.8	<.1	.7	2.7	19	<.30	.3	38	<.06	E.02

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Chromium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium water, fltrd, µg/L (01130)	Mangan- ese, water, fltrd, µg/L (01056)	Molyb- denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)
NOV 2002										
18...	<.8	.271	1.3	40	E.08	5.5	47.7	1.3	3.81	<.5
DEC										
16...	<.8	.743	.9	26	E.06	5.4	135	.8	5.81	<.5
16...	<.8	.745	.9	27	E.05	5.5	138	.8	5.90	<.5
FEB 2003										
25...	<.8	1.24	.8	18	<.08	4.1	331	.8	4.10	E.3
MAR										
19...	<.8	1.04	.9	23	<.08	4.1	131	E.3	5.10	E.3
31...	<.8	1.19	1.0	29	<.08	4.4	128	.5	4.99	<.5
31...	E.5	1.17	1.0	29	<.08	4.4	128	.6	4.84	<.5
APR										
25...	<.8	1.08	1.1	21	<.08	7.1	154	1.1	5.64	E.4
MAY										
12...	<.8	.234	1.1	23	E.04	4.0	44.4	.6	2.95	<.5
21...	<.8	.357	1.2	32	.09	4.8	68.0	.9	3.74	E.3
JUN										
09...	<.8	.260	1.3	27	<.08	4.1	47.5	.7	3.21	E.3
09...	--	--	--	24	--	4.1	--	--	--	<.5
23...	<.8	.249	1.5	27	E.05	4.9	61.7	.8	3.26	E.3
JUL										
23...	<.8	.144	1.3	19	<.08	3.5	2.7	.8	2.28	E.3
31...	<.8	.089	1.3	43	E.06	3.5	4.7	.6	2.10	<.5
AUG										
12...	<.8	.154	1.4	34	E.06	5.1	18.0	.9	2.40	E.3
12...	--	--	--	<8	--	<.5	--	--	--	<.5
SEP										
03...	<.8	.140	1.7	21	<.08	6.0	8.4	.9	2.33	<.5
03...	--	--	--	--	--	--	--	--	--	--
11...	<.8	.152	2.8	58	E.07	4.8	64.5	1.4	2.23	<.5

Date	Silver, water, fltrd, µg/L (01075)	Stront- ium, water, fltrd, µg/L (01080)	Vanad- ium, water, fltrd, µg/L (01085)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2002					
18...	<.2	175	.3	98	21
DEC					
16...	<.2	176	E.1	96	67
16...	<.2	177	<.1	96	66
FEB 2003					
25...	<.2	124	.4	97	319
MAR					
19...	<.2	83.7	.1	92	65
31...	<.2	97.1	.1	100	18
31...	<.2	97.7	.1	100	19
APR					
25...	<.2	160	.6	100	7
MAY					
12...	<.2	122	.4	95	153
21...	<.2	118	.1	99	19
JUN					
09...	<.2	127	E.1	100	28
09...	--	119	E.1	100	32
23...	<.2	158	.6	99	22
JUL					
23...	<.2	105	.2	97	247
31...	<.2	79.3	.2	100	58
AUG					
12...	<.2	146	.2	98	25
12...	--	<.20	<.1	--	--
SEP					
03...	<.2	156	.1	95	102
03...	--	--	--	--	--
11...	<.2	111	.2	100	12

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

**REMARKS.**--The following data are for trace elements and other constituents that were part of the suspended sediment fraction of the water sample. Suspended sediments were dewatered using a continuous flow centrifuge, dried, and analyzed directly for total metals using a nitric, hydrofluoric, perchloric acid digestion. Whole water contributions by the suspended sediment were then calculated using the suspended-sediment concentration in kilograms per liter (kg/L) and the analyte concentration in milligrams per kilogram (mg/kg) from the direct analysis of the suspended sediments, resulting in micrograms per gram ( $\mu\text{g/g}$ ) concentrations. Values reported in percent are the percent of that constituent in the suspended sediment. When no trace element was detected in the sample, the default reporting value is the method detection limit preceded by a less-than sign (<).

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Phosphorus, suspnd sediment total, percent (30292)	Total carbon, suspnd sediment total, percent (30244)	Organic carbon, suspnd sediment total, percent (50465)	Aluminum, suspnd sediment total, percent (30221)	Antimony, suspnd sediment total, $\mu\text{g/g}$ (29816)	Arsenic, suspnd sediment total, $\mu\text{g/g}$ (29818)	Barium, suspnd sediment total, $\mu\text{g/g}$ (29820)	Beryllium, suspnd sediment total, $\mu\text{g/g}$ (29822)
NOV 2002										
18...	1015	40000	.210	6.1	5.7	8.2	2.0	23	590	4
DEC										
16...	0945	72400	.160	5.2	5.2	7.8	1.4	20	570	4
FEB 2003										
25...	0945	71200	.130	3.7	3.6	9.1	1.1	17	610	4
MAR										
19...	1115	103800	.130	5.4	5.4	6.9	1.0	18	550	4
31...	1015	50800	.180	--	--	8.0	.8	27	700	4
APR										
25...	1000	25200	.240	--	--	6.8	1.2	28	650	4
MAY										
12...	1100	77800	.120	4.6	4.9	8.5	1.1	17	570	4
21...	0950	43900	.190	--	--	8.1	1.6	19	600	4
JUN										
09...	1000	70900	.130	4.7	4.6	7.0	2.5	17	390	4
23...	1020	40400	.120	4.9	4.5	7.0	1.7	20	520	4
JUL										
23...	1500	94300	.120	3.9	4.0	7.4	.9	21	580	4
31...	1100	51400	.130	4.1	4.1	8.4	.8	24	760	4
AUG										
12...	1120	43900	.140	5.0	5.1	8.0	1.3	21	610	3
SEP										
03...	1010	81700	.130	4.5	4.7	7.9	1.6	20	560	3
11...	1045	22700	.170	4.5	4.4	8.4	1.5	22	650	4

Date	Cadmium, suspnd sediment total, $\mu\text{g/g}$ (29826)	Chromium, suspnd sediment total, $\mu\text{g/g}$ (29829)	Cobalt, suspnd sediment total, $\mu\text{g/g}$ (35031)	Copper, suspnd sediment total, $\mu\text{g/g}$ (29832)	Iron, suspnd sediment total, percent (30269)	Lead, suspnd sediment total, $\mu\text{g/g}$ (29836)	Lithium, suspnd sediment total, $\mu\text{g/g}$ (35050)	Manganese, suspnd sediment total, $\mu\text{g/g}$ (29839)	Mercury, suspnd sediment total, $\mu\text{g/g}$ (29841)	Molybdenum, suspnd sediment total, $\mu\text{g/g}$ (29843)
NOV 2002										
18...	2.3	140	80	110	6.0	100	84	6800	.20	6
DEC										
16...	1.8	120	89	68	5.7	72	79	6800	.17	4
FEB 2003										
25...	1.5	92	54	56	5.5	52	73	3100	--	3
MAR										
19...	1.7	100	92	47	5.1	50	60	5500	--	6
31...	2.8	100	120	60	5.9	64	78	8600	.27	4
APR										
25...	3.4	120	190	110	5.6	68	82	19000	.16	8
MAY										
12...	1.7	93	54	54	5.5	51	82	3300	.08	3
21...	2.3	140	79	73	5.6	82	73	6100	.68	6
JUN										
09...	1.4	100	32	52	4.4	42	63	3200	.17	5
23...	2.2	110	33	56	4.3	62	56	3900	.15	5
JUL										
23...	2.0	89	40	59	4.9	56	71	4700	.12	2
31...	2.0	130	36	65	5.4	57	59	4800	.15	6
AUG										
12...	1.7	120	58	90	5.1	61	76	6000	.10	3
SEP										
03...	1.6	130	56	70	5.3	70	71	4100	.17	4
11...	1.1	130	58	75	5.5	67	79	8900	.19	5



## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Nickel, suspnd sedimnt total, µg/g (29845)	Selen- ium, suspnd sedimnt total, µg/g (29847)	Silver, suspnd sedimnt total, µg/g (29850)	Stront- ium, suspnd sedimnt total, µg/g (35040)	Thall- ium, suspnd sedimnt total, µg/g (49955)	Titan- ium, suspnd sedimnt total, percent (30317)	Vanad- ium, suspnd sedimnt total, µg/g (29853)	Zinc, suspnd sedimnt total, µg/g (29855)	Uranium suspnd sedimnt total, µg/g (35046)	Suspnd. sedimnt conc, flow through cntrfug mg/L (50279)
NOV 2002										
18...	200	1	--	140	<100	.460	110	660	<100	23
DEC										
16...	170	1	<.5	130	<50	.450	100	580	<50	76
FEB 2003										
25...	94	1	<.5	150	<50	.540	120	820	<50	304
MAR										
19...	150	1	<.5	100	<50	.440	91	600	<50	74
31...	210	1	1	120	<50	--	110	660	<50	21
APR										
25...	390	2	2	120	<50	.340	90	750	<50	10
MAY										
12...	97	1	M	140	<50	.460	100	410	<50	156
21...	170	2	2	160	<50	--	110	660	<50	2
JUN										
09...	120	1	<.5	260	<50	.390	92	490	<50	61
23...	140	2	<.5	170	<50	.420	94	500	<50	26
JUL										
23...	120	1	1	110	<50	.470	98	350	<50	278
31...	120	M	<1	130	<100	.520	130	390	<100	55
AUG										
12...	160	1	M	150	<50	.470	120	410	<50	28
SEP										
03...	130	1	M	130	<50	.460	110	440	<50	118
11...	180	2	<.5	200	<50	.420	120	450	<50	13

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

**REMARKS.**--The following data are for analytes from the National Water Quality Laboratory (NWQL) schedule 2001-pesticides in filtered water. Samples are filtered through a glass-fiber membrane filter with openings that are 0.7 microns in size to remove sediment and microorganisms. The filtered samples are then sent to the NWQL where they are analyzed by gas chromatography/mass spectrometric detector.

A field-matrix spike containing the series of organic compounds used in the analytical schedule was added to the replicate sample collected on Sept. 3 at 1013. Data from the spiked sample can be used to determine extraction and elution recoveries from the filtered water and to evaluate the accuracy and precision of the results.

The method detection limit (MDL) provides an index to indicate where measurement uncertainty is increased. When an analyte is detected and all criteria for a positive result are met, the concentration is reported. If the concentration is less than the MDL, an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the NWQL will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less-than sign (<). The abbreviations SRG, SURROGT, or SURROG indicate surrogate and recovery is reported in percent.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Medium code	2,6-Di-ethyl-aniline water fltrd 0.7µ GF (82660) µg/L	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-HCH, water, fltrd, µg/L (34253)	Atra-zine, water, fltrd, µg/L (39632)	Ben-flur-alin, water, fltrd 0.7µ GF (82673) µg/L	Butyl-ate, water, fltrd, µg/L (04028)
NOV 2002									
18...	1015	9	<.006	<.006	<.004	<.005	.012	<.010	<.002
DEC									
16...	0945	9	<.006	<.006	<.004	<.005	.010	<.010	<.002
16...	0950	R	--	--	--	--	--	--	--
FEB 2003									
25...	0945	9	<.006	<.006	<.004	<.005	.009	<.010	<.002
MAR									
19...	1115	9	<.006	<.006	<.004	<.005	E.006	<.010	<.002
31...	1015	9	<.006	<.006	<.004	<.005	E.005	<.010	<.002
31...	1020	R	<.006	<.006	<.004	<.005	E.005	<.010	<.002
APR									
25...	1000	9	<.006	<.006	<.004	<.005	.007	<.010	<.002
MAY									
12...	1100	9	<.006	.007	<.004	<.005	.039	<.010	<.002
21...	0950	9	<.006	.015	<.004	<.005	.039	<.010	<.002
JUN									
09...	1000	9	<.006	.009	<.004	<.005	.138	<.010	<.002
09...	1010	R	--	--	--	--	--	--	--
23...	1020	9	<.006	<.006	<.004	<.005	.047	<.010	<.002
JUL									
23...	1500	9	<.006	<.010	<.004	<.005	.076	<.010	<.002
31...	1100	9	<.006	<.006	<.004	<.005	.062	<.010	<.002
AUG									
12...	1120	9	<.006	<.006	<.004	<.005	.045	<.010	<.002
12...	1128	Q	<.006	<.006	<.004	<.005	<.007	<.010	<.002
SEP									
03...	1010	9	<.006	<.006	<.004	<.005	.024	<.010	<.002
03...	1013	R	.090	.148	.146	.118	.121	.092	.123
11...	1045	9	<.006	<.006	<.004	<.005	.022	<.010	<.002

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	CIAT, water, fltrd, µg/L (04040)	Car- baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo- furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor- pyrifos water, fltrd, µg/L (38933)	Cyana- zine, water, fltrd, µg/L (04041)	DCPA, water fltrd 0.7µ GF µg/L (82682)	Diazi- non, water, fltrd, µg/L (39572)	Diazi- non-d10 surrog. wat flt 0.7µ GF percent recovry (91063)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)
NOV 2002										
18...	E.005	E.005	<.020	<.005	<.018	<.003	E.003	113	<.005	<.02
DEC										
16...	E.005	<.041	<.020	<.005	<.018	<.003	<.006	101	<.005	<.02
16...	--	--	--	--	--	--	--	--	--	--
FEB 2003										
25...	E.005	<.041	<.020	<.005	<.018	<.003	<.005	106	<.005	<.02
MAR										
19...	E.004	<.041	<.020	<.005	<.018	<.003	<.005	E117	<.005	<.02
31...	E.004	<.041	<.020	<.005	<.018	<.003	<.005	121	<.005	<.02
31...	E.004	<.041	<.020	<.005	<.018	<.003	<.005	112	<.005	<.02
APR										
25...	E.004	<.041	<.020	<.005	<.018	<.003	<.005	107	<.005	<.02
MAY										
12...	E.007	E.004	<.020	<.005	<.018	<.003	<.005	100	<.005	<.02
21...	E.009	<.041	<.020	<.005	<.018	<.003	<.005	107	<.005	<.02
JUN										
09...	E.012	E.012	<.020	<.005	<.018	<.003	E.004	117	<.005	<.02
09...	--	--	--	--	--	--	--	--	--	--
23...	E.008	E.005	<.020	<.005	<.018	<.003	<.005	102	<.005	<.02
JUL										
23...	E.008	E.020	<.020	<.005	<.018	<.003	<.005	121	<.005	<.02
31...	E.009	E.017	<.020	<.005	<.018	<.003	<.005	115	<.005	<.02
AUG										
12...	E.010	<.041	<.020	<.005	<.018	<.003	<.005	104	<.005	<.02
12...	<.006	<.041	<.020	<.005	<.018	<.003	<.005	99.1	<.005	<.02
SEP										
03...	E.010	<.041	<.020	<.005	<.018	<.003	<.005	116	<.005	<.02
03...	E.044	E.116	E.129	.110	.126	.103	.138	128	.155	.08
11...	E.004	<.041	<.020	<.005	<.018	<.003	<.005	105	<.005	<.02
Date	alpha- HCH-d6, surrog, wat flt 0.7µ GF percent recovry (91065)	Azin- phos- methyl, water, fltrd 0.7µ GF µg/L (82686)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethal- flur- alin, water, fltrd 0.7µ GF µg/L (82663)	Etho- prop, water, fltrd 0.7µ GF µg/L (82672)	Fonofos water, fltrd, µg/L (04095)	Lindane water, fltrd, µg/L (39341)	Linuron water fltrd 0.7µ GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	Methyl para- thion, water, fltrd 0.7µ GF µg/L (82667)
NOV 2002										
18...	89.6	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
DEC										
16...	91.9	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
16...	--	--	--	--	--	--	--	--	--	--
FEB 2003										
25...	77.4	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
MAR										
19...	90.0	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
31...	89.4	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
31...	82.4	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
APR										
25...	92.9	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
MAY										
12...	91.7	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
21...	85.9	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
JUN										
09...	99.1	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
09...	--	--	--	--	--	--	--	--	--	--
23...	102	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
JUL										
23...	109	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
31...	98.1	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
AUG										
12...	93.8	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
12...	88.4	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
SEP										
03...	78.2	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006
03...	84.7	E.218	.095	.113	.120	.143	.113	.100	.125	.147
11...	82.3	<.050	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.006

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	cis-Permethrin water fltrd 0.7µ GF µg/L (82687)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF µg/L (82671)	Napropamide, water, fltrd 0.7µ GF µg/L (82684)	p,p'-DDE, water, fltrd, µg/L (34653)	Parathion, water, fltrd, µg/L (39542)	Pebulate, water, fltrd 0.7µ GF µg/L (82669)	Pendimethalin, water, fltrd 0.7µ GF µg/L (82683)	Phorate water fltrd 0.7µ GF µg/L (82664)
NOV 2002										
18...	<.006	E.007	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
DEC										
16...	<.006	E.003	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
16...	--	--	--	--	--	--	--	--	--	--
FEB 2003										
25...	<.006	E.006	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
MAR										
19...	<.006	E.004	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
31...	<.006	E.004	<.006	<.005	<.007	<.003	<.010	<.004	<.022	<.011
31...	<.006	E.003	<.006	<.005	<.007	<.003	<.010	<.004	<.022	<.011
APR										
25...	<.006	E.001	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
MAY										
12...	<.006	.015	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
21...	<.006	.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
JUN										
09...	<.006	.039	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
09...	--	--	--	--	--	--	--	--	--	--
23...	<.006	E.011	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
JUL										
23...	<.006	.019	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
31...	<.006	.016	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
AUG										
12...	<.006	E.011	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
12...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
SEP										
03...	<.006	E.009	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
03...	.046	.136	.087	.109	.160	.057	.122	.119	.143	.100
11...	<.006	E.011	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
Date	Prometon, water, fltrd, µg/L (04037)	Pronamide, water, fltrd 0.7µ GF µg/L (82676)	Propachlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd 0.7µ GF µg/L (82679)	Propargite, water, fltrd 0.7µ GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron water fltrd µg/L (82670)	Terbacil, water, fltrd 0.7µ GF µg/L (82665)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Thio-bencarb water, fltrd 0.7µ GF µg/L (82681)
NOV 2002										
18...	E.01	<.004	<.010	<.011	<.02	.005	<.02	<.034	<.02	<.005
DEC										
16...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
16...	--	--	--	--	--	--	--	--	--	--
FEB 2003										
25...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
MAR										
19...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
31...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
31...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
APR										
25...	E.01	<.004	<.010	<.011	<.02	.007	<.02	<.034	<.02	<.005
MAY										
12...	E.01	<.004	<.010	<.011	<.02	.009	<.02	<.034	<.02	<.005
21...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
JUN										
09...	E.01	<.004	<.010	<.011	<.02	.009	<.02	<.034	<.02	<.005
09...	--	--	--	--	--	--	--	--	--	--
23...	E.01	<.004	<.010	<.011	<.02	.010	<.02	<.034	<.02	<.005
JUL										
23...	E.01	<.004	<.010	<.011	<.02	E.004	<.02	<.034	<.02	<.005
31...	E.01	<.004	<.010	<.011	<.02	.010	<.02	<.034	<.02	<.005
AUG										
12...	E.01	<.004	<.010	<.011	<.02	.007	<.02	<.034	<.02	<.005
12...	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005
SEP										
03...	E.01	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005
03...	.13	.110	.143	.114	.17	.098	.14	E.106	.09	.122
11...	E.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005

## OHIO RIVER MAIN STEM

## 03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Thio- bencarb water fltrd 0.7 $\mu$ GF $\mu$ g/L (82681)	Tri- flur- alin, water, fltrd 0.7 $\mu$ GF $\mu$ g/L (82661)
NOV 2002		
18...	<.005	<.009
DEC		
16...	<.005	<.009
16...	--	--
FEB 2003		
25...	<.005	<.009
MAR		
19...	<.005	<.009
31...	<.005	<.009
31...	<.005	<.009
APR		
25...	<.005	<.009
MAY		
12...	<.005	<.009
21...	<.005	<.009
JUN		
09...	<.005	<.009
09...	--	--
23...	<.005	<.009
JUL		
23...	<.005	<.009
31...	<.005	<.009
AUG		
12...	<.005	<.009
12...	<.005	<.009
SEP		
03...	<.005	<.009
03...	.122	.095
11...	<.005	<.009