



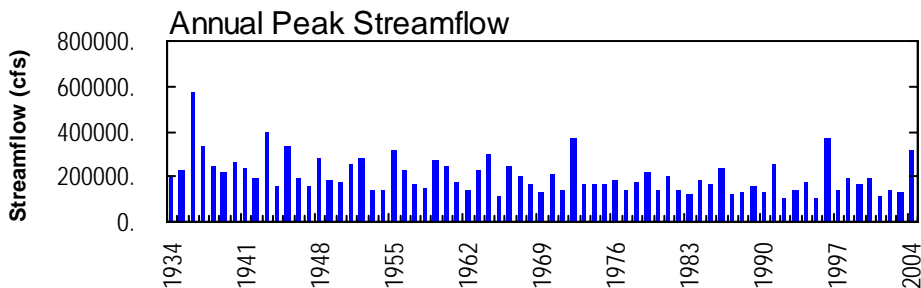
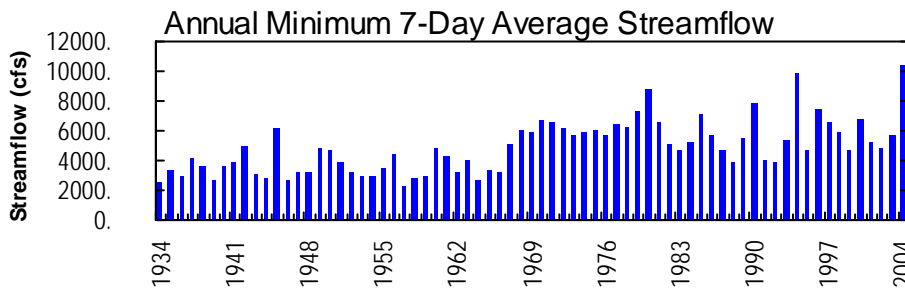
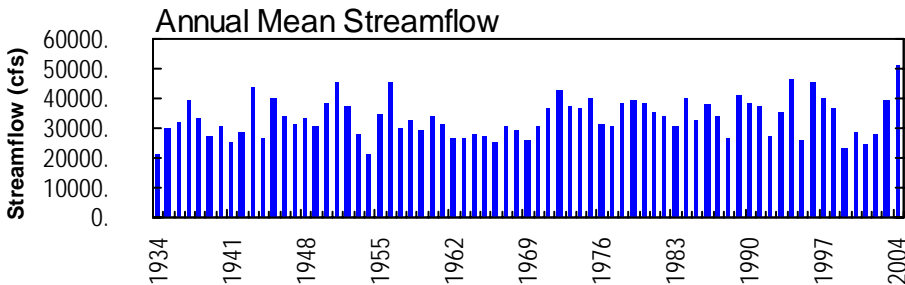
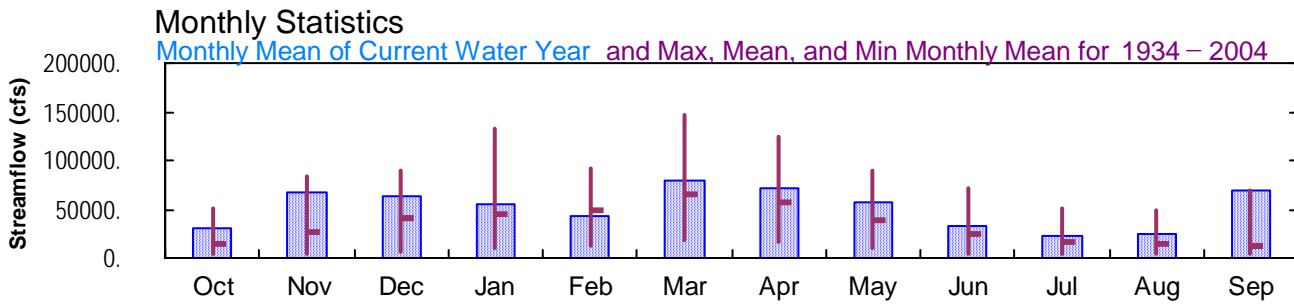
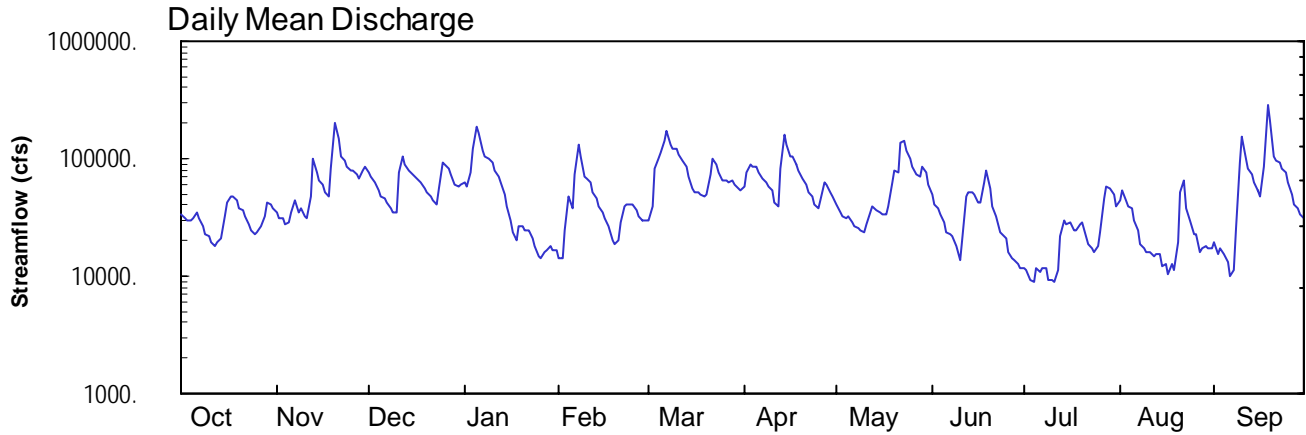
2004 Water Year OHIO RIVER BASIN

03086000 Ohio River at Sewickley, PA

Latitude: 40° 32' 57"
Allegheny County

Longitude: 080° 12' 21"
Datum: 680 feet

Hydrologic Unit Code: 05030101
Drainage Area: 19500 mi²



NO PHOTOS AVAILABLE FOR THIS SITE

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 mi², 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33900	34200	75700	62800	14300	29900	58100	41400	50200	11600	43600	19500
2	30500	31500	69700	58500	14400	39900	75800	35100	40900	11200	53100	15600
3	30000	30400	62900	77200	24600	82700	89000	32700	37700	9200	44800	17200
4	30200	27700	52700	123000	48200	98600	85600	31500	33300	8980	39700	15400
5	31300	28400	48500	186000	37900	111000	86600	32500	28800	11500	37100	13300
6	34800	35000	45700	167000	74400	140000	74800	29100	23800	10900	29600	9850
7	31000	43600	43100	117000	134000	172000	67900	26600	23000	11700	24600	11400
8	26900	35400	37200	103000	102000	133000	63700	26000	22000	11700	18900	25200
9	23100	37200	35100	101000	71200	123000	58800	24900	17900	9210	17300	92700
10	21800	31700	35500	94200	e67000	121000	52700	23200	13600	9110	16000	154000
11	19400	30800	75700	78700	62400	108000	42000	27600	20300	9030	15800	101000
12	17900	47800	104000	69800	52400	96500	39200	35400	48100	11300	14700	82300
13	19200	101000	88600	61600	45800	86300	80700	39900	50700	22000	15300	71900
14	20900	75400	79800	49800	39000	70800	159000	36300	51900	30100	15400	62900
15	32200	65100	75200	39200	34200	54900	133000	35200	49000	27400	12400	52700
16	42100	59800	70500	30200	30700	51100	106000	33500	43000	28400	12900	48100
17	47400	51000	64800	23300	26100	51500	103000	33800	42100	25000	10200	87200
18	47900	46900	62600	20300	20500	49600	88200	39600	63400	24600	12400	283000
19	43900	82900	55400	e26500	18800	47100	e77900	63300	78300	27300	11300	206000
20	37900	205000	52100	27000	20100	49500	e67800	79500	55900	28900	19200	106000
21	36100	150000	48500	24900	28500	74200	e60500	75600	39200	21700	51900	96800
22	32300	102000	e44500	24800	39900	98300	50600	135000	32100	18500	65700	91200
23	27500	97400	40900	20800	40900	88200	48500	143000	24100	17400	37900	83900
24	24900	87100	56300	18300	41500	77000	40700	115000	22600	16100	30000	76400
25	22700	77900	93000	14600	40800	66000	38000	102000	20800	17700	23000	61700
26	23400	78700	90000	14300	36300	64500	43500	86700	15700	23500	23100	49900
27	26000	73700	80700	16100	32500	62600	62600	72700	14500	46300	16000	40600
28	32700	66800	72300	16900	29800	66200	61200	69100	13600	57700	17400	37800
29	41900	78500	61200	17600	30000	59900	51400	86800	12900	54800	17900	33500
30	41200	85700	57100	16500	---	56300	46900	75600	11600	50000	17000	30900
31	37400	---	60700	16300	---	54200	---	60200	---	39600	17400	---
TOTAL	968400	1998600	1940000	1717200	1258200	2483800	2113700	1748800	1001000	702430	781600	2077950
MEAN	31240	66620	62580	55390	43390	80120	70460	56410	33370	22660	25210	69260
MAX	47900	205000	104000	186000	134000	172000	159000	143000	78300	57700	65700	283000
MIN	17900	27700	35100	14300	14300	29900	38000	23200	11600	8980	10200	9850
CFSM	1.60	3.42	3.21	2.84	2.22	4.11	3.61	2.89	1.71	1.16	1.29	3.55
IN.	1.85	3.81	3.70	3.28	2.40	4.74	4.03	3.34	1.91	1.34	1.49	3.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	15200	26150	40120	44590	49410	65300	56540	38670	24880	16130	13470	12810
MAX	51010	83490	88890	132000	91820	147900	124500	90380	70490	50770	48180	69260
(WY)	1955	1986	1973	1937	1939	1936	1940	1996	1989	1972	1956	2004
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	16894820		18791680			
ANNUAL MEAN	46290		51340		33520	
HIGHEST ANNUAL MEAN					51340	2004
LOWEST ANNUAL MEAN					21110	1934
HIGHEST DAILY MEAN	205000	Nov 20	283000	Sep 18	465000	Mar 18 1936
LOWEST DAILY MEAN	9040	Aug 25	8980	Jul 4	2100	Sep 4 1957
ANNUAL SEVEN-DAY MINIMUM	10500	Jun 30	10400	Jul 6	2330	Sep 1 1957
MAXIMUM PEAK FLOW			313000	Sep 18	^a 574000	Mar 18 1936
MAXIMUM PEAK STAGE			30.02	Sep 18	^b 34.75	Mar 18 1936
INSTANTANEOUS LOW FLOW					1800	Sep 4 1957
ANNUAL RUNOFF (CFSM)	2.37		2.63		1.72	
ANNUAL RUNOFF (INCHES)	32.23		35.85		23.36	
10 PERCENT EXCEEDS	83300		97000		74600	
50 PERCENT EXCEEDS	41800		41300		23100	
90 PERCENT EXCEEDS	14800		15900		6030	

a From rating curve extended above 535,000 ft³/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.

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 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium, water, unfltrd recoverable, mg/L (00927)
OCT 2003 28...	0930	1028	9813	30300	10.6	7.4	7.4	271	297	12.0	99	27.7	7.3
DEC 22...	1045	1028	9813	E44500	14.6	7.3	7.6	296	313	2.0	98	27.8	7.0
FEB 12...	1000	1028	9813	57100	14.7	7.0	7.0	302	321	1.0	93	26.4	6.7
APR 26...	0920	1028	9813	47100	10.2	6.7	7.6	285	288	15.0	99	27.7	7.2
AUG 16...	0900	1028	9813	12300	8.3	7.8	6.9	328	349	22.0	110	29.2	7.9

Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Fluoride, water, unfltrd mg/L (00951)	Sulfate, fltrd, mg/L (00945)	Residue on evap. at 105degC wat fltrd (00515)	Residue total at 105 deg. C, suspended, 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-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recoverable, µg/L (01105)
OCT 2003 28...	41	<.2	55.4	184	<2	.090	.69	<.040	.03	.041	1.1	2.8	300
DEC 22...	39	<.2	61.6	208	<2	.070	.79	<.040	.02	.019	.79	1.8	400
FEB 12...	30	<.2	60.9	204	30	.110	.98	<.040	.05	.046	1.3	1.9	1600
APR 26...	32	<.2	65.2	252	8	.040	.74	<.040	.02	.026	1.0	1.9	500
AUG 16...	49	<.2	69.5	248	16	<.020	.82	<.040	.02	.036	1.1	2.7	200

Date	Copper, water, unfltrd recoverable, µg/L (01042)	Cyanide amenable to chlorination, wat unfltrd mg/L (00722)	Iron, water, unfltrd recoverable, µg/L (01045)	Lead, water, unfltrd recoverable, µg/L (01051)	Manganese, water, unfltrd recoverable, µg/L (01055)	Nickel, water, unfltrd recoverable, µg/L (01067)	Zinc, water, unfltrd recoverable, µg/L (01092)	Phenolic compounds, water, unfltrd µg/L (32730)
OCT 2003 28...	<10	<1.00	670	<1.0	140	<50	120	<5
DEC 22...	<10	<1.00	750	<1.0	180	<50	30	<5
FEB 12...	<10	<1.00	2250	2.4	260	<50	20	<5
APR 26...	<10	<1.00	860	<1.0	220	<50	20	<5
AUG 16...	40	<1.00	420	<1.0	90	<50	90	<5

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a multiplate sampler that was deployed for 5 weeks. Samples represent counts per 100 animal (approximate) subsamples.

Date	10/23/03
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	2
Mollusca	
Bivalvia (CLAMS)	
Veneroidea	
Sphaeriidae	
<i>Sphaerium</i>	1
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Tubificidae	4
Arthropoda	
Crustacea	
Cladocera	
Gammaridae	
<i>Gammarus</i>	4
Insecta	
Ephemeroptera (MAYFLIES)	
Heptageniidae	
<i>Stenonema</i>	1
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	5
Polycentropodidae	
<i>Neureclipsis</i>	45
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	164
Total Organisms	226
Total Taxa	8

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 XX-XX. 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 2003 TO SEPTEMBER 2004

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Turbidity, wat unflab, 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 unfl μS/cm 25 degC (00095)	Data base number
OCT 2003											
28...	0930	9	30000	2.4	.068	.050	740	10.6	7.4	297	01
NOV											
20...	1000	9	213000	260	.082	.061	743	11.4	7.3	219	01
25...	0940	9	78700	5.7	.073	.054	749	12.3	6.6	191	01
DEC											
30...	1000	9	61000	14	.043	.032	--	14.7	6.9	229	01
JAN 2004											
05...	1040	9	189000	90	.050	.037	741	13.4	7.2	268	01
FEB											
12...	0900	Q	--	--	<.004	<.004	--	--	--	--	02
12...	1000	9	57800	35	.029	.021	748	14.7	7.0	321	01
MAR											
29...	1000	9	60400	14	.040	.030	750	12.9	7.3	223	01
29...	1010	R	60400	13	.040	.030	750	12.9	7.3	223	02
APR											
14...	1500	9	171000	180	.056	.042	741	11.7	7.3	234	01
26...	0920	9	46600	7.9	.042	.031	743	10.2	6.7	288	01
MAY											
25...	0830	9	107000	89	.094	.070	742	9.8	7.2	185	01
JUN											
30...	0810	9	11400	7.6	.064	.047	--	8.5	7.3	326	01
JUL											
23...	0930	9	15100	9.8	.110	.081	743	7.7	8.2	269	01
23...	0940	R	15100	11	.111	.082	743	7.7	8.2	269	02
28...	0900	9	61200	24	.079	.058	743	6.9	7.4	374	01
28...	0903	S	61200	--	--	--	743	6.9	7.4	374	02
AUG											
16...	0900	9	12400	4.1	.070	.051	750	8.3	7.8	349	01
16...	0910	R	12400	3.7	.069	.050	750	8.3	7.8	349	02
SEP											
10...	1320	9	161000	220	.109	.081	745	9.0	7.1	244	01

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)	Data base number	Medium code
OCT 2003													
28...	12.0	26.1	6.72	2.19	17.7	39	21.5	<.2	5.04	55.4	180	01	9
NOV													
20...	9.0	22.6	5.09	2.58	9.75	36	10.7	<.2	5.51	38.4	123	01	9
25...	8.0	17.0	4.40	1.80	7.63	21	10.7	<.2	5.29	35.6	111	01	9
DEC													
30...	3.0	22.3	6.06	1.57	13.2	44	20.0	<.2	5.64	48.2	136	01	9
JAN 2004													
05...	5.5	23.5	5.67	1.68	14.5	32	21.6	<.2	6.05	47.1	145	01	9
FEB													
12...	--	.03	<.008	--	E.08	--	--	--	<.04	--	--	02	Q
12...	1.0	25.9	6.73	1.66	20.8	29	30.7	<.2	5.10	60.9	175	01	9
MAR													
29...	7.0	18.8	5.43	1.69	13.0	25	23.1	<.2	4.78	41.5	132	01	9
29...	7.0	19.4	5.47	1.87	13.1	25	29.9	<.2	4.83	42.7	128	02	R
APR													
14...	8.0	21.4	5.43	1.63	13.2	30	15.3	<.2	5.02	44.9	133	01	9
26...	15.0	26.7	6.97	1.62	16.2	27	21.5	<.2	4.51	65.2	179	01	9
MAY													
25...	18.5	16.5	4.08	1.53	7.88	22	10.0	<.2	5.30	34.3	88	01	9
JUN													
30...	22.0	31.5	7.60	1.99	19.9	37	23.5	<.2	5.03	73.7	207	01	9
JUL													
23...	23.5	23.4	5.45	1.78	13.3	30	18.0	<.2	5.19	47.2	148	01	9
23...	23.5	23.8	5.54	1.81	13.5	30	18.0	<.2	5.26	47.2	149	02	R
28...	24.0	33.7	7.78	2.15	20.7	36	22.6	<.2	4.98	85.5	222	01	9
28...	24.0	--	--	--	--	36	--	--	--	--	--	02	S
AUG													
16...	22.0	31.2	7.15	2.06	19.7	39	23.9	<.2	4.67	69.5	206	01	9
16...	22.0	30.9	7.13	2.02	19.5	39	23.9	<.2	4.61	71.5	200	02	R
SEP													
10...	20.5	21.5	6.23	2.35	12.2	27	11.4	<.2	4.75	57.3	153	01	9

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)	Particulate nitrogen, susp, water, mg/L (49570)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Data base number	Medium code
OCT 2003											
28...	.27	.33	.06	.73	.014	.07	.012	.021	.041	01	9
NOV											
20...	.27	1.9	.05	.98	E.007	1.19	<.006	.008	.55	01	9
25...	.22	.46	E.03	.77	.008	.39	<.006	.009	.091	01	9
DEC											
30...	.22	.27	.08	.84	.016	.09	E.003	.006	.034	01	9
JAN 2004											
05...	.18	.72	E.04	1.06	E.006	.25	E.004	.006	.20	01	9
FEB											
12...	--	--	<.010	<.016	<.002	<.02	<.006	--	--	02	Q
12...	.26	.43	.11	.97	E.007	.15	<.006	E.003	.046	01	9
MAR											
29...	.13	.23	E.03	.81	.009	.08	<.006	.004	.038	01	9
29...	.17	.28	E.04	.81	.009	.09	<.006	E.004	.042	02	R
APR											
14...	.20	1.3	E.04	.85	.008	.35	<.006	.007	.33	01	9
26...	.15	.27	E.03	.73	.011	.06	<.006	.007	.026	01	9
MAY											
25...	.22	.65	E.04	.67	.013	.04	E.003	.009	.124	01	9
JUN											
30...	.19	.30	<.04	.94	.015	.11	<.006	.007	.035	01	9
JUL											
23...	.21	.33	<.04	.83	.010	.26	.008	.018	.044	01	9
23...	.23	.34	<.04	.79	.010	.15	.008	.017	.046	02	R
28...	.25	.44	.05	.81	.009	.21	.007	.020	.070	01	9
28...	--	--	--	--	--	--	--	--	--	02	S
AUG											
16...	.21	.28	<.04	.83	.008	.15	E.004	.010	.036	01	9
16...	.21	.26	<.04	.83	.008	.14	E.005	.009	.034	02	R
SEP											
10...	.29	1.7	<.04	.49	<.008	1.13	<.006	.009	.25	01	9

Date	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, µg/L (01106)	Anti-mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Cadmium water, fltrd, µg/L (01025)	Data base number	Medium code
OCT 2003												
28...	.5	--	--	2.5	16	<.20	.3	38	<.06	<.04	01	9
NOV												
20...	15.6	.4	15.2	3.2	17	E.12	.3	33	<.06	<.04	01	9
25...	3.7	<.1	3.7	2.7	19	<.20	.3	36	<.06	<.04	01	9
DEC												
30...	1.0	<.1	1.0	1.8	16	<.20	E.2	36	<.06	.11	01	9
JAN 2004												
05...	1.9	.2	1.7	2.1	16	<.20	.2	32	<.06	E.03	01	9
FEB												
12...	<.1	<.1	<.1	E.3	<2	<.20	<.2	<.2	<.06	<.04	02	Q
12...	1.4	<.1	1.4	1.4	--	--	<.2	--	--	--	01	9
MAR												
29...	.8	<.1	.8	1.7	--	--	E.2	--	--	--	01	9
29...	.9	<.1	.9	1.8	--	--	E.2	--	--	--	02	R
APR												
14...	3.2	<.1	3.1	2.6	--	--	.3	--	--	--	01	9
26...	.4	<.1	.4	2.1	--	--	.2	--	--	--	01	9
MAY												
25...	.2	<.1	.2	3.5	--	--	.3	--	--	--	01	9
JUN												
30...	.6	<.1	.6	2.3	--	--	.3	--	--	--	01	9
JUL												
23...	1.3	<.1	1.2	3.3	--	--	.5	--	--	--	01	9
23...	.9	<.1	.9	3.2	--	--	.5	--	--	--	02	R
28...	2.0	<.1	1.9	2.5	--	--	.5	--	--	--	01	9
28...	--	--	--	--	--	--	--	--	--	--	02	S
AUG												
16...	.8	<.1	.8	2.3	--	--	.4	--	--	--	01	9
16...	.9	<.1	.9	2.3	--	--	.5	--	--	--	02	R
SEP												
10...	12.5	.2	12.3	3.7	--	--	.5	--	--	--	01	9

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

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)	Data base number	Medium code
OCT 2003												
28...	<.8	.387	1.7	25	<.08	5.3	73.0	1.4	3.93	E.2	01	9
NOV												
20...	<.8	.387	1.3	27	<.08	3.1	83.8	.8	2.28	E.2	01	9
25...	<.8	.319	1.1	34	E.05	3.2	81.6	.6	2.60	E.3	01	9
DEC												
30...	<.8	1.60	2.2	22	<.08	4.9	137	E.3	5.01	E.2	01	9
JAN 2004												
05...	<.8	.745	1.4	22	.10	4.2	105	.7	3.69	E.3	01	9
FEB												
12...	<.8	<.014	<.4	<6	<.08	<.6	<.2	<.4	<.06	<.4	02	Q
12...	--	--	--	13	--	5.4	--	--	--	<.4	01	9
MAR												
29...	--	--	--	23	--	4.4	--	--	--	<.4	01	9
29...	--	--	--	17	--	4.4	--	--	--	<.4	02	R
APR												
14...	--	--	--	23	--	3.6	--	--	--	E.3	01	9
26...	--	--	--	31	--	8.3	--	--	--	E.3	01	9
MAY												
25...	--	--	--	31	--	3.1	--	--	--	E.2	01	9
JUN												
30...	--	--	--	15	--	6.6	--	--	--	E.4	01	9
JUL												
23...	--	--	--	60	--	5.0	--	--	--	<.4	01	9
23...	--	--	--	56	--	5.0	--	--	--	<.4	02	R
28...	--	--	--	24	--	7.5	--	--	--	.5	01	9
28...	--	--	--	--	--	--	--	--	--	--	02	S
AUG												
16...	--	--	--	20	--	6.1	--	--	--	E.2	01	9
16...	--	--	--	20	--	5.8	--	--	--	.4	02	R
SEP												
10...	--	--	--	26	--	5.3	--	--	--	<.4	01	9

Date	Pheo- phytin a, phyto- plank- ton, µg/L (62360)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Silver, water, fltrd, µg/L (01075)	Stront- ium, water, fltrd, µg/L (01080)	Thall- ium, water, fltrd, µg/L (01057)	Vanad- ium, water, fltrd, µg/L (01085)	Suspd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Data base number	Medium code
OCT 2003										
28...	1.5	3.0	<.2	159	--	<.1	98	9	01	9
NOV										
20...	8.2	6.2	<.2	105	--	.2	97	444	01	9
25...	1.7	.9	<.2	90.2	--	E.1	99	41	01	9
DEC										
30...	.6	.6	<.2	119	--	E.1	98	12	01	9
JAN 2004										
05...	5.8	4.7	<.2	113	--	.3	95	165	01	9
FEB										
12...	--	--	.2	<.40	<.04	<.1	--	--	02	Q
12...	E.7	E.5	--	132	--	<.1	99	36	01	9
MAR										
29...	.7	1.3	--	98.9	--	.3	99	19	01	9
29...	1.1	1.6	--	101	--	.4	99	19	02	R
APR										
14...	4.4	4.9	--	114	--	.2	92	348	01	9
26...	1.3	5.2	--	165	--	E.1	98	13	01	9
MAY										
25...	2.3	1.6	--	69.1	--	<.1	98	93	01	9
JUN										
30...	3.1	7.8	--	193	--	<.1	100	6	01	9
JUL										
23...	3.6	4.8	--	129	--	.3	100	8	01	9
23...	3.6	4.5	--	131	--	.3	100	7	02	R
28...	10.5	10.8	--	213	--	.3	99	38	01	9
28...	--	--	--	--	--	--	--	--	02	S
AUG										
16...	5.4	9.0	--	184	--	.4	100	7	01	9
16...	4.5	8.8	--	181	--	.4	100	--	02	R
SEP										
10...	17.4	9.9	--	115	--	E.1	47	29	01	9

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 July 28 at 0903. 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 2003 TO SEPTEMBER 2004

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)	Data base number
OCT 2003										
28...	0930	9	<.006	<.006	<.005	<.005	.012	<.010	<.004	01
NOV										
20...	1000	9	<.006	<.006	<.005	<.005	E.006	<.010	<.004	01
25...	0940	9	<.006	<.006	<.005	<.005	.010	<.010	<.004	01
DEC										
30...	1000	9	<.006	<.006	<.005	<.005	<.010	<.010	<.004	01
JAN 2004										
05...	1040	9	<.006	<.006	<.005	<.005	E.006	<.010	<.004	01
FEB										
12...	0900	Q	<.006	<.006	<.005	<.005	<.007	<.010	<.004	02
12...	1000	9	<.006	<.006	<.005	<.005	E.007	<.010	<.004	01
MAR										
29...	1000	9	<.006	<.006	<.005	<.005	.008	<.010	<.004	01
29...	1010	R	<.006	<.006	<.005	<.005	.008	<.010	<.004	02
APR										
14...	1500	9	<.006	<.006	<.005	<.005	.013	<.010	<.004	01
26...	0920	9	<.006	<.006	<.005	<.005	.022	<.010	<.004	01
MAY										
25...	0830	9	<.006	.013	<.005	<.005	.287	<.010	<.004	01
JUN										
30...	0810	9	<.006	<.020	<.005	<.005	.204	<.010	<.004	01
JUL										
23...	0930	9	<.006	.009	<.005	<.005	.174	<.010	<.004	01
23...	0940	R	<.006	.008	<.005	<.005	.172	<.010	<.004	02
28...	0900	9	<.006	.009	<.005	<.005	.097	<.010	<.004	01
28...	0903	S	.116	.150	.135	.122	.247	.133	.138	02
AUG										
16...	0900	9	<.006	<.006	<.005	<.005	.052	<.010	<.004	01
16...	0910	R	<.006	<.006	<.005	<.005	.051	<.010	<.004	02
SEP										
10...	1320	9	<.006	<.006	<.005	<.005	.023	<.010	<.004	01

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	CIAT, water, fltrd, µg/L (04040)	Carbo- 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 recovery (91063)	Diel- drin, water, fltrd, µg/L (39381)	Disul- foton, water, fltrd 0.7µ GF µg/L (82677)	Data base number	Medium code
OCT 2003												
28...	E.003	E.007	<.020	<.005	<.018	<.003	<.005	110	<.009	<.02	01	9
NOV												
20...	<.006	<.041	<.020	<.005	<.018	<.003	<.005	97.2	<.009	<.02	01	9
25...	E.004	E.005	<.020	<.005	<.018	<.003	<.005	116	<.009	<.02	01	9
DEC												
30...	<.006	<.041	<.020	<.005	<.018	<.003	<.010	125	<.009	<.02	01	9
JAN 2004												
05...	E.005	<.041	<.020	<.005	<.018	<.003	<.005	111	<.009	<.02	01	9
FEB												
12...	<.006	<.041	<.020	<.005	<.018	<.003	<.005	117	<.009	<.02	02	Q
12...	<.006	<.041	<.020	<.005	<.018	<.003	<.005	115	<.009	<.02	01	9
MAR												
29...	E.006	<.041	<.020	<.005	<.018	<.003	<.005	120	<.009	<.02	01	9
29...	E.006	<.041	<.020	<.005	<.018	<.003	<.005	117	<.009	<.02	02	R
APR												
14...	<.006	E.006	<.020	<.005	<.018	<.003	<.005	113	<.009	<.02	01	9
26...	E.006	<.041	<.020	<.005	<.018	<.003	<.005	122	<.009	<.02	01	9
MAY												
25...	E.017	<.041	<.020	<.005	<.018	<.003	<.005	110	<.009	<.02	01	9
JUN												
30...	E.011	<.041	<.020	<.005	<.018	<.003	<.005	105	<.070	<.02	01	9
JUL												
23...	E.029	<.041	<.020	<.005	<.018	<.003	<.005	112	<.009	<.02	01	9
23...	E.029	<.041	<.020	<.005	<.018	<.003	<.005	111	<.009	<.02	02	R
28...	E.009	<.041	<.020	<.005	<.018	<.003	<.005	106	<.009	<.02	01	9
28...	E.060	E.218	E.189	.005	.176	.153	.122	121	.192	.05	02	
AUG												
16...	E.010	<.041	<.020	<.005	<.018	<.003	<.005	110	<.009	<.02	01	9
16...	E.011	<.041	<.020	<.005	<.018	<.003	<.005	113	<.075	<.02	02	R
SEP												
10...	E.008	<.041	<.020	<.005	<.018	<.003	<.005	87.6	<.009	<.02	01	9
Date	alpha- HCH-d6, surrog, wat flt 0.7µ GF percent recovery (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)	Data base number	Medium code
OCT 2003												
28...	93.5	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
NOV												
20...	87.7	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
25...	90.1	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
DEC												
30...	98.2	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
JAN 2004												
05...	91.6	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
FEB												
12...	101	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	02	Q
12...	98.8	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
MAR												
29...	96.2	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
29...	98.1	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	02	R
APR												
14...	87.8	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
26...	94.7	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
MAY												
25...	90.5	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
JUN												
30...	91.9	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
JUL												
23...	98.6	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
23...	96.6	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	02	R
28...	91.3	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
28...	101	E.172	.118	.155	.142	.129	.114	.155	.175	.155	02	S
AUG												
16...	87.5	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9
16...	90.7	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	02	R
SEP												
10...	82.2	<.050	<.004	<.009	<.005	<.003	<.004	<.035	<.027	<.015	01	9

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	cis-Permethrin water fltrd 0.7µ GF (82687)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF (82671)	Napropamide, water, fltrd 0.7µ GF (82684)	p,p'-DDE, water, fltrd, µg/L (34653)	Parathion, water, fltrd, µg/L (39542)	Pebulate, water, fltrd 0.7µ GF (82669)	Pendimethalin, water, fltrd 0.7µ GF (82683)	Phorate water fltrd 0.7µ GF (82664)	Data base number	Medium code
OCT 2003												
28...	<.006	E.007	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
NOV												
20...	<.006	E.005	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
25...	<.006	E.008	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
DEC												
30...	<.006	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
JAN 2004												
05...	<.006	E.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
FEB												
12...	<.006	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	02	Q
12...	<.006	E.005	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
MAR												
29...	<.006	E.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
29...	<.006	E.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	02	R
APR												
14...	<.006	E.009	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
26...	<.006	E.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
MAY												
25...	<.006	.130	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
JUN												
30...	<.006	.047	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
JUL												
23...	<.006	.067	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
23...	<.006	.066	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	02	R
28...	<.006	.032	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
28...	.061	.169	.101	.122	.159	.083	.178	.117	.175	.110	02	S
AUG												
16...	<.006	E.012	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9
16...	<.006	E.012	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	02	R
SEP												
10...	<.006	E.009	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	01	9

Date	Prometon, water, fltrd, µg/L (04037)	Propyzamide, water, fltrd 0.7µ GF (82676)	Propachlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd 0.7µ GF (82679)	Propargite, water, fltrd 0.7µ GF (82685)	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron water fltrd 0.7µ GF (82670)	Terbacil, water, fltrd µg/L (82665)	Terbufos, water, fltrd µg/L (82675)	Thio-bencarb water fltrd 0.7µ GF (82681)	Data base number	Medium code
OCT 2003												
28...	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	01	9
NOV												
20...	M	<.004	<.025	<.011	<.02	E.004	<.02	<.034	<.02	<.010	01	9
25...	<.01	<.004	<.025	<.011	<.02	<.010	<.02	<.034	<.02	<.010	01	9
DEC												
30...	<.01	<.004	<.025	<.011	<.02	<.010	<.04	<.034	<.02	<.010	01	9
JAN 2004												
05...	M	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	01	9
FEB												
12...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	02	Q
12...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	01	9
MAR												
29...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	01	9
29...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	02	R
APR												
14...	<.01	<.004	<.025	<.011	<.02	.007	<.02	<.034	<.02	<.010	01	9
26...	<.01	<.004	<.025	<.011	<.02	.012	<.02	<.034	<.02	<.010	01	9
MAY												
25...	.01	<.004	<.025	<.011	<.02	.019	<.02	<.034	<.02	<.010	01	9
JUN												
30...	.02	<.004	<.025	<.011	<.02	.012	<.02	<.034	<.02	<.010	01	9
JUL												
23...	.01	<.004	<.025	<.011	<.02	.010	<.02	<.034	<.02	<.010	01	9
23...	.01	<.004	<.025	<.011	<.02	.011	<.02	<.034	<.02	<.010	02	R
28...	<.01	<.004	<.025	<.011	<.02	.032	<.02	<.034	<.02	<.010	01	9
28...	.17	.147	.159	.150	.23	.168	.18	E.118	.11	.123	02	S
AUG												
16...	.04	<.004	<.025	<.011	<.02	.008	<.02	<.040	<.02	<.010	01	9
16...	.04	<.004	<.025	<.011	<.02	.008	<.02	<.040	<.02	<.010	02	R
SEP												
10...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	01	9

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Thio- bencarb water fltrd 0.7µ GF µg/L (82681)	Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)	Data base number	Medium code
OCT 2003				
28...	<.010	<.009	01	9
NOV				
20...	<.010	<.009	01	9
25...	<.010	<.009	01	9
DEC				
30...	<.010	<.009	01	9
JAN 2004				
05...	<.010	<.009	01	9
FEB				
12...	<.010	<.009	02	Q
12...	<.010	<.009	01	9
MAR				
29...	<.010	<.009	01	9
29...	<.010	<.009	02	R
APR				
14...	<.010	<.009	01	9
26...	<.010	<.009	01	9
MAY				
25-25	<.010	<.009	01	9
JUN				
30...	<.010	<.009	01	9
JUL				
23...	<.010	<.009	01	9
23...	<.010	<.009	02	R
28...	<.010	E.005	01	9
28...	.123	.142	02	S
AUG				
16...	<.010	<.009	01	9
16...	<.010	<.009	02	R
SEP				
10...	<.010	<.009	01	9