

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA

**LOCATION.**--Lat 39°57'14", long 75°08'16", Philadelphia County, Hydrologic Unit 02040202, on right bank at river end of pier 12, 150 ft upstream from Ben Franklin bridge, and at Philadelphia.

**DRAINAGE AREA.**--7,993 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 1949 to current year.

**PERIOD OF DAILY RECORD.**--

SPECIFIC CONDUCTANCE: November 1963 to current year.

pH: October 1967 to current year.

WATER TEMPERATURE: November 1960 to current year.

DISSOLVED OXYGEN: October 1961 to current year.

**INSTRUMENTATION.**--Water-quality monitor interfaced with a data collection platform.

**REMARKS.**--Water temperature, pH, and specific conductance records rated good. Dissolved oxygen record rated fair except for period, Aug. 13 to Sept. 30, which is poor. Prior to July 1988, located on edge of pier 11 about 300 ft downstream of pier 12. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0. Data collection discontinued during winter months. Other interruptions in the record were due to malfunctions of the pump or recording instrument.

**EXTREMES FOR PERIOD OF DAILY RECORD.**--

SPECIFIC CONDUCTANCE: Maximum, 1,450 microsiemens, Nov. 20, 1964; minimum, 65 microsiemens, Sept. 15, 1979.

pH: Maximum, 8.7, Oct. 14, 1979; minimum, 4.7, Dec. 29, 1978.

WATER TEMPERATURE: Maximum, 31.0°C, July 13-15, 1966; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 14.1 mg/L, Dec. 14, 1962; minimum, 0.0 mg/L, on many days.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	414	289	341	182	168	175	174	168	170	---	---	---
2	414	292	332	199	174	185	---	---	---	---	---	---
3	397	292	334	198	182	191	---	---	---	---	---	---
4	430	296	354	200	188	194	---	---	---	---	---	---
5	457	309	374	204	195	199	---	---	---	---	---	---
6	439	292	359	207	193	201	---	---	---	---	---	---
7	470	307	380	201	192	197	---	---	---	---	---	---
8	456	298	369	204	194	199	---	---	---	---	---	---
9	489	312	389	203	196	199	---	---	---	---	---	---
10	500	319	396	204	196	200	---	---	---	---	---	---
11	463	307	382	205	198	201	---	---	---	---	---	---
12	404	280	335	207	200	203	---	---	---	---	---	---
13	333	248	283	204	201	203	---	---	---	---	---	---
14	273	238	249	220	202	210	---	---	---	---	---	---
15	256	234	244	226	215	219	---	---	---	---	---	---
16	253	225	239	223	216	220	---	---	---	---	---	---
17	243	201	225	223	210	218	---	---	---	---	---	---
18	230	171	197	219	201	207	---	---	---	---	---	---
19	194	168	176	206	181	195	---	---	---	---	---	---
20	175	167	171	188	177	181	---	---	---	---	---	---
21	174	158	168	181	169	177	---	---	---	---	---	---
22	173	149	163	178	163	172	---	---	---	---	---	---
23	168	144	156	165	151	157	---	---	---	---	---	---
24	165	142	152	158	152	155	---	---	---	---	---	---
25	162	142	151	162	154	157	---	---	---	---	---	---
26	160	145	152	165	158	161	---	---	---	---	---	---
27	153	145	149	173	164	168	---	---	---	---	---	---
28	153	147	150	172	168	170	---	---	---	---	---	---
29	161	150	154	174	165	170	---	---	---	---	---	---
30	164	157	161	172	166	169	---	---	---	---	---	---
31	175	161	168	---	---	---	---	---	---	---	---	---
MONTH	500	142	253	226	151	188	174	168	170	---	---	---

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	160	145	152	226	220	224
2	---	---	---	---	---	---	161	149	154	230	222	227
3	---	---	---	---	---	---	156	145	151	230	220	226
4	---	---	---	---	---	---	153	145	150	233	223	229
5	---	---	---	---	---	---	157	145	151	236	217	228
6	---	---	---	---	---	---	---	151	---	235	215	225
7	---	---	---	---	---	---	---	---	---	235	213	223
8	---	---	---	---	---	---	177	---	---	230	210	220
9	---	---	---	---	---	---	188	168	175	228	212	219
10	---	---	---	---	---	---	183	173	178	226	209	218
11	---	---	---	---	---	---	195	174	184	225	205	216
12	---	---	---	---	---	---	205	183	196	226	207	216
13	---	---	---	---	---	---	---	197	---	226	204	214
14	---	---	---	---	---	---	213	---	---	224	205	215
15	---	---	---	---	---	---	213	202	208	231	207	218
16	---	---	---	---	---	---	210	196	206	232	209	221
17	---	---	---	---	---	---	210	195	203	236	212	223
18	---	---	---	---	---	---	213	196	204	231	215	221
19	---	---	---	---	---	---	210	194	202	232	217	224
20	---	---	---	---	---	---	207	193	201	232	220	225
21	---	---	---	---	---	---	207	195	202	232	222	227
22	---	---	---	---	---	---	208	196	203	231	222	227
23	---	---	---	---	---	---	208	200	205	237	224	231
24	---	---	---	---	---	---	210	203	207	237	227	233
25	---	---	---	---	---	---	214	205	210	239	226	233
26	---	---	---	---	---	---	219	209	214	239	215	227
27	---	---	---	---	---	---	220	212	216	227	215	221
28	---	---	---	---	---	---	221	211	216	229	219	224
29	---	---	---	148	135	142	223	215	220	231	224	228
30	---	---	---	152	144	147	224	217	221	232	225	229
31	---	---	---	151	142	146	---	---	---	231	222	227
MONTH	---	---	---	152	135	145	224	145	193	239	204	224
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	234	214	225	175	166	170	271	244	258	227	218	223
2	226	203	216	179	170	175	268	237	253	230	219	225
3	214	196	204	---	175	---	261	235	248	233	224	229
4	203	160	188	---	---	---	259	236	247	243	228	234
5	163	143	152	---	---	---	254	232	241	249	234	245
6	147	139	143	---	---	---	242	231	236	248	158	214
7	157	144	150	---	---	---	244	235	239	233	133	165
8	163	154	158	215	204	210	243	221	237	186	116	141
9	172	156	165	220	211	216	241	204	226	169	115	134
10	173	165	170	227	217	221	235	192	211	153	116	128
11	178	167	172	230	223	227	223	189	200	138	116	125
12	179	170	175	234	228	231	209	186	194	136	119	127
13	184	173	176	237	232	235	196	184	190	137	123	132
14	182	174	177	240	234	238	194	186	190	137	129	134
15	189	177	182	243	237	241	197	189	192	144	133	137
16	188	182	185	247	240	245	196	191	194	151	141	144
17	188	175	183	255	244	250	198	186	193	179	149	160
18	188	173	180	261	251	256	195	178	188	189	171	179
19	179	167	174	261	254	258	192	178	185	195	172	183
20	177	167	173	263	257	260	189	179	184	199	190	194
21	174	167	171	266	259	263	190	182	186	196	178	188
22	180	172	176	269	261	265	192	184	188	193	169	181
23	180	168	174	271	258	265	195	178	190	191	166	176
24	172	152	163	268	256	261	197	190	193	179	162	169
25	162	148	152	267	258	262	200	194	196	181	160	172
26	154	147	150	273	261	265	204	197	200	171	142	158
27	155	148	151	268	258	264	208	202	205	157	135	146
28	159	151	154	267	252	261	212	205	209	147	129	137
29	158	136	146	271	250	261	219	208	215	136	128	131
30	171	127	150	271	246	261	224	214	219	146	133	139
31	---	---	---	272	243	259	225	217	221	---	---	---
MONTH	234	127	171	273	166	243	271	178	211	249	115	168

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.9	6.9	---	---	---
2	7.0	6.9	6.9	6.9	6.8	6.9	---	---	---	---	---	---
3	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
4	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
5	6.9	6.9	6.9	7.0	6.9	6.9	---	---	---	---	---	---
6	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
7	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
8	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
9	6.9	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
10	6.9	6.9	6.9	6.9	6.8	6.9	---	---	---	---	---	---
11	6.9	6.9	6.9	6.9	6.8	6.9	---	---	---	---	---	---
12	6.9	6.9	6.9	6.9	6.8	6.8	---	---	---	---	---	---
13	7.0	6.9	7.0	6.8	6.8	6.8	---	---	---	---	---	---
14	7.0	7.0	7.0	7.0	6.8	6.9	---	---	---	---	---	---
15	7.0	7.0	7.0	7.0	6.9	6.9	---	---	---	---	---	---
16	7.1	7.0	7.0	7.0	6.9	7.0	---	---	---	---	---	---
17	7.1	7.0	7.0	7.0	6.9	7.0	---	---	---	---	---	---
18	7.1	7.0	7.0	7.0	6.9	7.0	---	---	---	---	---	---
19	7.0	7.0	7.0	7.0	6.9	7.0	---	---	---	---	---	---
20	7.0	7.0	7.0	7.0	6.9	6.9	---	---	---	---	---	---
21	7.0	6.9	7.0	6.9	6.9	6.9	---	---	---	---	---	---
22	7.0	6.9	6.9	6.9	6.9	6.9	---	---	---	---	---	---
23	6.9	6.7	6.9	6.9	6.8	6.9	---	---	---	---	---	---
24	6.8	6.7	6.7	6.9	6.8	6.9	---	---	---	---	---	---
25	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---	---	---	---
26	6.7	6.7	6.7	6.8	6.8	6.8	---	---	---	---	---	---
27	6.7	6.6	6.7	6.9	6.8	6.9	---	---	---	---	---	---
28	6.7	6.6	6.6	6.9	6.9	6.9	---	---	---	---	---	---
29	6.7	6.6	6.6	6.9	6.9	6.9	---	---	---	---	---	---
30	6.8	6.6	6.8	6.9	6.9	6.9	---	---	---	---	---	---
31	6.9	6.8	6.8	---	---	---	---	---	---	---	---	---
MAX	7.1	7.0	7.0	7.0	6.9	7.0	6.9	6.9	6.9	---	---	---
MIN	6.7	6.6	6.6	6.8	6.8	6.8	6.9	6.9	6.9	---	---	---
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	7.4	7.4	7.4	7.3	7.2	7.3
2	---	---	---	---	---	---	7.4	7.4	7.4	7.3	7.2	7.2
3	---	---	---	---	---	---	7.4	7.4	7.4	7.3	7.2	7.2
4	---	---	---	---	---	---	7.4	7.4	7.4	7.2	7.1	7.2
5	---	---	---	---	---	---	7.4	7.4	7.4	7.2	7.1	7.1
6	---	---	---	---	---	---	7.4	7.4	7.4	7.3	7.1	7.2
7	---	---	---	---	---	---	---	---	---	7.3	7.2	7.2
8	---	---	---	---	---	---	---	---	---	7.3	7.2	7.2
9	---	---	---	---	---	---	7.5	7.4	7.5	7.2	7.1	7.2
10	---	---	---	---	---	---	7.6	7.5	7.5	7.2	7.0	7.1
11	---	---	---	---	---	---	7.6	7.5	7.5	7.1	7.0	7.1
12	---	---	---	---	---	---	7.5	7.5	7.5	7.2	6.9	7.0
13	---	---	---	---	---	---	7.5	7.5	7.5	7.2	7.1	7.2
14	---	---	---	---	---	---	7.6	7.5	7.5	7.2	7.1	7.2
15	---	---	---	---	---	---	7.5	7.5	7.5	7.3	7.1	7.2
16	---	---	---	---	---	---	7.6	7.5	7.5	7.3	7.2	7.2
17	---	---	---	---	---	---	7.6	7.5	7.5	7.3	7.2	7.2
18	---	---	---	---	---	---	7.6	7.5	7.5	7.3	7.2	7.2
19	---	---	---	---	---	---	7.6	7.5	7.5	7.3	7.1	7.2
20	---	---	---	---	---	---	7.6	7.5	7.5	7.3	7.1	7.2
21	---	---	---	---	---	---	7.5	7.5	7.5	7.3	7.2	7.2
22	---	---	---	---	---	---	7.5	7.3	7.5	7.3	7.2	7.2
23	---	---	---	---	---	---	7.4	7.3	7.3	7.3	7.1	7.2
24	---	---	---	---	---	---	7.4	7.3	7.3	7.3	7.1	7.2
25	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	7.2
26	---	---	---	---	---	---	7.4	7.3	7.3	7.2	7.1	7.2
27	---	---	---	---	---	---	7.4	7.3	7.3	7.3	7.1	7.2
28	---	---	---	---	---	---	7.4	7.3	7.3	7.2	7.2	7.2
29	---	---	---	7.3	7.3	7.3	7.4	7.3	7.3	7.2	7.1	7.2
30	---	---	---	7.4	7.3	7.3	7.4	7.3	7.3	7.2	7.1	7.2
31	---	---	---	7.4	7.3	7.4	---	---	---	7.1	7.1	7.1
MAX	---	---	---	7.4	7.3	7.4	7.6	7.5	7.5	7.3	7.2	7.3
MIN	---	---	---	7.3	7.3	7.3	7.4	7.3	7.3	7.1	6.9	7.0

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEDIAN									
1	7.1	7.0	7.1	7.2	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0
2	7.1	7.0	7.1	7.2	7.1	7.1	7.2	7.1	7.2	7.0	6.9	7.0
3	7.2	7.1	7.1	---	---	---	7.2	7.1	7.2	7.0	6.9	6.9
4	7.2	7.1	7.1	---	---	---	7.2	7.1	7.2	7.2	6.9	7.0
5	7.2	7.0	7.1	---	---	---	7.2	7.1	7.1	7.4	7.1	7.2
6	7.1	7.0	7.0	---	---	---	7.2	7.1	7.1	7.4	7.2	7.3
7	7.0	7.0	7.0	---	---	---	7.3	7.1	7.2	7.3	7.0	7.1
8	7.1	7.0	7.0	7.2	7.1	7.1	7.4	7.2	7.2	7.1	6.9	7.0
9	7.1	7.0	7.1	7.2	7.0	7.1	7.3	7.3	7.3	7.0	6.8	6.9
10	7.1	7.0	7.1	7.1	7.0	7.0	7.3	7.2	7.2	7.0	6.8	6.8
11	7.1	7.0	7.1	7.1	6.9	7.0	7.2	7.2	7.2	6.9	6.8	6.8
12	7.1	7.0	7.1	7.1	6.9	7.0	7.2	7.1	7.1	6.8	6.8	6.8
13	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.1	6.8	6.8	6.8
14	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.0	7.1	6.8	6.8	6.8
15	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.0	7.2	6.9	6.8	6.8
16	7.2	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.1	6.9	6.8	6.8
17	7.2	7.1	7.1	7.1	7.0	7.0	7.2	7.1	7.2	7.2	6.8	7.0
18	7.2	7.1	7.1	7.1	7.0	7.0	7.2	7.1	7.2	7.2	7.1	7.2
19	7.1	7.1	7.1	7.1	7.0	7.0	7.2	7.1	7.1	7.3	7.1	7.2
20	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.1	7.1	7.3	7.2	7.2
21	7.1	7.0	7.0	7.1	7.0	7.1	7.2	7.2	7.2	7.2	7.1	7.1
22	7.2	7.1	7.1	7.2	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.1
23	7.2	7.1	7.1	7.3	7.1	7.1	7.2	7.1	7.1	7.1	6.9	7.0
24	7.1	7.1	7.1	7.2	7.1	7.2	7.2	7.1	7.1	7.1	6.9	7.0
25	7.1	7.0	7.0	7.2	7.1	7.2	7.2	7.1	7.1	7.1	7.0	7.1
26	7.0	7.0	7.0	7.1	7.0	7.1	7.3	7.1	7.2	7.1	7.0	7.1
27	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.2	7.2	7.1	6.9	7.0
28	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.2	7.0	6.9	6.9
29	7.1	7.0	7.1	7.0	7.0	7.0	7.2	7.0	7.1	6.9	6.9	6.9
30	7.2	7.0	7.1	7.2	7.0	7.0	7.1	7.0	7.0	7.0	6.9	7.0
31	---	---	---	7.2	7.1	7.1	7.1	7.0	7.0	---	---	---
MAX	7.2	7.1	7.1	7.3	7.1	7.2	7.4	7.3	7.3	7.4	7.2	7.3
MIN	7.0	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.0	6.8	6.8	6.8

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	22.5	22.5	11.0	10.5	11.0	6.5	5.5	6.0	---	---	---
2	23.0	22.5	22.5	11.0	10.5	10.5	---	---	---	---	---	---
3	23.0	22.5	23.0	10.5	10.0	10.0	---	---	---	---	---	---
4	23.0	23.0	23.0	10.0	10.0	10.0	---	---	---	---	---	---
5	23.0	23.0	23.0	10.0	9.5	10.0	---	---	---	---	---	---
6	23.0	22.5	22.5	10.0	9.5	10.0	---	---	---	---	---	---
7	22.5	22.5	22.5	9.5	9.0	9.5	---	---	---	---	---	---
8	22.5	22.0	22.0	9.5	9.0	9.5	---	---	---	---	---	---
9	22.0	21.5	21.5	9.5	9.0	9.5	---	---	---	---	---	---
10	21.5	21.5	21.5	10.0	9.0	9.5	---	---	---	---	---	---
11	21.5	21.0	21.0	10.0	9.5	10.0	---	---	---	---	---	---
12	21.0	20.5	20.5	10.0	10.0	10.0	---	---	---	---	---	---
13	20.5	20.0	20.5	10.5	10.0	10.0	---	---	---	---	---	---
14	20.0	19.5	19.5	10.5	10.0	10.0	---	---	---	---	---	---
15	19.5	18.0	19.0	10.5	10.0	10.0	---	---	---	---	---	---
16	19.0	17.0	18.0	10.0	10.0	10.0	---	---	---	---	---	---
17	18.0	16.0	17.0	10.0	10.0	10.0	---	---	---	---	---	---
18	17.0	15.0	15.5	10.0	10.0	10.0	---	---	---	---	---	---
19	15.0	14.0	14.5	10.0	9.0	9.5	---	---	---	---	---	---
20	14.5	13.5	14.0	9.5	8.5	9.0	---	---	---	---	---	---
21	14.0	13.0	13.5	8.5	8.0	8.0	---	---	---	---	---	---
22	13.5	13.0	13.5	8.5	8.0	8.0	---	---	---	---	---	---
23	13.5	13.0	13.0	8.0	7.0	7.5	---	---	---	---	---	---
24	13.0	12.5	12.5	7.5	7.0	7.0	---	---	---	---	---	---
25	12.5	12.5	12.5	7.5	7.0	7.5	---	---	---	---	---	---
26	12.5	12.5	12.5	7.5	7.0	7.5	---	---	---	---	---	---
27	12.5	12.5	12.5	7.5	7.0	7.5	---	---	---	---	---	---
28	12.5	12.0	12.5	7.0	7.0	7.0	---	---	---	---	---	---
29	12.0	12.0	12.0	7.0	6.5	6.5	---	---	---	---	---	---
30	12.0	11.5	11.5	6.5	6.0	6.5	---	---	---	---	---	---
31	11.5	11.0	11.0	---	---	---	---	---	---	---	---	---
MONTH	23.0	11.0	17.4	11.0	6.0	9.0	6.5	5.5	6.0	---	---	---

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	9.0	8.5	9.0	15.5	14.5	15.0
2	---	---	---	---	---	---	9.0	8.5	8.5	16.0	15.0	15.5
3	---	---	---	---	---	---	9.0	8.0	8.5	16.5	15.5	16.0
4	---	---	---	---	---	---	8.5	7.5	8.0	16.5	16.0	16.0
5	---	---	---	---	---	---	8.0	7.5	7.5	16.5	16.0	16.5
6	---	---	---	---	---	---	7.5	7.5	7.5	16.5	16.0	16.5
7	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
8	---	---	---	---	---	---	---	---	---	17.0	16.5	17.0
9	---	---	---	---	---	---	7.0	6.5	6.5	17.0	17.0	17.0
10	---	---	---	---	---	---	6.5	6.0	6.5	17.0	17.0	17.0
11	---	---	---	---	---	---	6.5	5.5	6.0	17.5	17.0	17.0
12	---	---	---	---	---	---	6.0	5.5	6.0	17.5	17.0	17.0
13	---	---	---	---	---	---	6.5	6.0	6.0	17.0	16.0	16.5
14	---	---	---	---	---	---	---	---	---	16.5	16.0	16.5
15	---	---	---	---	---	---	9.5	7.5	8.5	16.5	16.0	16.0
16	---	---	---	---	---	---	11.0	8.5	10.0	16.5	15.5	16.0
17	---	---	---	---	---	---	11.0	10.0	10.5	16.0	15.0	15.5
18	---	---	---	---	---	---	11.0	10.0	10.5	15.5	15.0	15.0
19	---	---	---	---	---	---	11.5	10.5	11.0	15.5	15.0	15.5
20	---	---	---	---	---	---	12.5	11.0	11.5	16.0	15.5	15.5
21	---	---	---	---	---	---	12.5	11.5	12.0	16.0	15.5	15.5
22	---	---	---	---	---	---	13.0	12.0	12.5	16.0	15.5	15.5
23	---	---	---	---	---	---	13.0	12.5	12.5	15.5	15.5	15.5
24	---	---	---	---	---	---	12.5	12.5	12.5	15.5	15.5	15.5
25	---	---	---	---	---	---	13.0	12.5	12.5	15.5	15.5	15.5
26	---	---	---	---	---	---	13.0	13.0	13.0	15.5	15.0	15.5
27	---	---	---	---	---	---	13.5	13.0	13.0	15.5	15.0	15.5
28	---	---	---	---	---	---	14.0	13.5	13.5	16.0	15.5	15.5
29	---	---	---	9.5	8.5	9.0	14.5	14.0	14.0	16.5	15.5	16.0
30	---	---	---	9.5	9.0	9.5	15.0	14.0	14.5	17.0	16.0	16.5
31	---	---	---	9.5	9.0	9.0	---	---	---	17.0	16.5	16.5
MONTH	---	---	---	9.5	8.5	9.2	15.0	5.5	10.1	17.5	14.5	16.0
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	17.0	16.5	17.0	24.0	22.5	23.5	26.0	25.5	26.0	26.0	25.5	26.0
2	17.5	16.5	17.0	24.0	23.0	23.5	26.0	26.0	26.0	25.5	25.0	25.5
3	18.0	17.0	17.5	---	---	---	26.5	26.0	26.0	25.0	25.0	25.0
4	17.5	16.0	17.0	---	---	---	26.5	26.0	26.5	25.0	24.5	24.5
5	16.0	15.0	15.5	---	---	---	26.5	26.5	26.5	24.5	23.0	24.0
6	15.5	15.0	15.0	---	---	---	26.5	26.5	26.5	24.0	20.0	21.5
7	15.5	15.0	15.0	26.0	---	---	26.5	26.5	26.5	22.5	19.5	20.5
8	16.0	15.5	15.5	26.0	25.5	26.0	26.5	25.5	26.0	21.0	19.5	20.0
9	16.5	15.5	16.0	26.5	26.0	26.0	26.5	25.0	26.0	21.0	20.0	20.0
10	17.5	16.5	17.0	26.0	25.5	26.0	26.0	25.0	25.5	20.5	20.0	20.0
11	17.5	17.0	17.5	26.0	25.5	25.5	25.5	24.5	25.0	20.5	20.0	20.0
12	18.5	17.5	18.0	26.0	25.5	25.5	25.5	24.5	25.0	20.5	20.0	20.5
13	19.5	18.0	19.0	26.0	25.5	26.0	25.5	25.0	25.0	20.5	20.5	20.5
14	20.5	19.0	19.5	26.0	25.5	26.0	25.5	25.0	25.5	21.0	20.5	21.0
15	20.5	20.0	20.5	26.0	25.5	26.0	26.0	25.5	25.5	21.5	21.0	21.5
16	20.5	20.0	20.5	26.0	26.0	26.0	26.0	25.5	25.5	22.0	21.5	21.5
17	20.5	20.0	20.0	26.0	26.0	26.0	26.0	25.5	25.5	22.5	21.5	22.0
18	20.5	20.0	20.0	26.0	26.0	26.0	26.0	25.5	25.5	22.0	22.0	22.0
19	20.5	20.0	20.0	26.0	26.0	26.0	26.0	25.5	25.5	22.0	22.0	22.0
20	20.5	20.0	20.0	26.0	26.0	26.0	26.0	25.5	26.0	22.5	22.0	22.0
21	20.0	19.5	19.5	26.5	26.0	26.0	26.5	26.0	26.0	22.0	21.5	22.0
22	19.5	18.5	19.0	26.5	26.0	26.5	26.5	26.0	26.5	22.0	21.5	21.5
23	18.5	17.5	18.0	26.5	26.0	26.5	26.5	26.0	26.5	22.0	21.5	21.5
24	18.0	17.5	17.5	26.5	26.0	26.0	26.0	26.0	26.0	21.5	21.0	21.5
25	18.5	18.0	18.0	26.5	26.0	26.5	26.0	25.5	26.0	21.0	20.0	21.0
26	20.5	18.5	19.5	26.5	26.0	26.5	26.0	25.5	26.0	21.0	19.5	20.0
27	21.0	19.5	20.5	26.5	26.5	26.5	26.0	25.5	26.0	20.0	19.0	19.5
28	22.0	20.5	21.5	26.5	26.5	26.5	26.0	26.0	26.0	20.0	19.0	19.5
29	23.0	21.5	22.0	26.5	26.0	26.5	26.5	26.0	26.0	19.5	19.0	19.0
30	23.5	22.0	22.5	26.5	26.0	26.0	26.5	26.0	26.0	19.0	19.0	19.0
31	---	---	---	26.0	26.0	26.0	26.0	26.0	26.0	---	---	---
MONTH	23.5	15.0	18.5	26.5	22.5	25.9	26.5	24.5	25.9	26.0	19.0	21.5

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>OCTOBER</b>			<b>NOVEMBER</b>			<b>DECEMBER</b>			<b>JANUARY</b>		
1	5.5	4.5	4.9	9.6	9.1	9.4	11.6	11.0	11.4	---	---	---
2	5.3	4.6	4.9	9.7	9.4	9.6	---	---	---	---	---	---
3	5.0	4.4	4.7	9.8	9.4	9.6	---	---	---	---	---	---
4	4.9	4.3	4.6	10.0	9.6	9.7	---	---	---	---	---	---
5	4.8	4.2	4.5	10.0	9.6	9.7	---	---	---	---	---	---
6	5.2	4.4	4.8	9.9	9.4	9.6	---	---	---	---	---	---
7	5.2	4.7	4.9	10.2	9.7	9.9	---	---	---	---	---	---
8	5.4	4.8	5.1	10.2	9.7	9.9	---	---	---	---	---	---
9	5.4	5.0	5.2	10.2	9.7	10	---	---	---	---	---	---
10	5.3	5.0	5.2	10.3	9.8	10.0	---	---	---	---	---	---
11	5.5	4.9	5.2	10.2	9.7	9.9	---	---	---	---	---	---
12	5.7	4.8	5.2	9.9	9.5	9.7	---	---	---	---	---	---
13	6.5	5.3	5.9	9.7	9.4	9.5	---	---	---	---	---	---
14	6.4	6.0	6.3	9.8	9.3	9.5	---	---	---	---	---	---
15	7.2	6.3	6.6	9.9	9.4	9.6	---	---	---	---	---	---
16	7.7	6.5	7.1	9.9	9.4	9.7	---	---	---	---	---	---
17	8.2	6.9	7.5	9.7	9.5	9.6	---	---	---	---	---	---
18	8.6	7.4	8.2	9.9	9.4	9.6	---	---	---	---	---	---
19	9.0	8.2	8.6	10.4	9.7	10.1	---	---	---	---	---	---
20	9.1	8.7	8.9	10.5	10.1	10.3	---	---	---	---	---	---
21	9.2	8.8	9.0	10.8	10.3	10.5	---	---	---	---	---	---
22	9.3	8.9	9.1	10.7	10.3	10.5	---	---	---	---	---	---
23	9.2	9.0	9.1	11.1	10.5	10.9	---	---	---	---	---	---
24	9.3	9.0	9.1	11.1	10.8	11.0	---	---	---	---	---	---
25	9.2	8.9	9.1	11.1	10.8	11.0	---	---	---	---	---	---
26	9.1	8.7	8.9	11.0	10.8	10.9	---	---	---	---	---	---
27	9.1	8.7	8.9	10.9	10.5	10.7	---	---	---	---	---	---
28	9.2	8.7	9.0	10.9	10.6	10.8	---	---	---	---	---	---
29	9.3	8.8	9.0	11.2	10.7	10.9	---	---	---	---	---	---
30	9.3	8.9	9.0	11.2	10.8	11.1	---	---	---	---	---	---
31	9.3	9.0	9.2	---	---	---	---	---	---	---	---	---
MONTH	9.3	4.2	7.0	11.2	9.1	10.1	11.6	11.0	11.4	---	---	---
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	10.6	10.5	10.5	10.4	9.8	10.0
2	---	---	---	---	---	---	10.8	10.5	10.6	10.1	9.5	9.7
3	---	---	---	---	---	---	11.1	10.5	10.7	9.8	9.4	9.5
4	---	---	---	---	---	---	11.3	10.6	11.0	9.6	9.0	9.2
5	---	---	---	---	---	---	11.3	10.9	11.1	9.1	8.5	8.7
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	11.5	11.1	11.3	---	---	---
10	---	---	---	---	---	---	11.8	11.4	11.6	---	---	---
11	---	---	---	---	---	---	12.0	11.6	11.8	---	---	---
12	---	---	---	---	---	---	11.9	11.7	11.8	---	---	---
13	---	---	---	---	---	---	---	---	---	7.7	6.4	7.0
14	---	---	---	---	---	---	---	---	---	8.0	6.8	7.4
15	---	---	---	---	---	---	11.3	10.8	11.1	8.5	7.1	7.7
16	---	---	---	---	---	---	10.9	10.4	10.6	8.7	7.3	8.0
17	---	---	---	---	---	---	10.7	10.4	10.5	8.9	7.7	8.2
18	---	---	---	---	---	---	10.6	10.3	10.4	9.1	7.8	8.4
19	---	---	---	---	---	---	10.3	10.1	10.2	9.1	7.6	8.4
20	---	---	---	---	---	---	10.2	9.8	10.0	8.8	7.5	8.3
21	---	---	---	---	---	---	9.9	9.6	9.8	8.7	7.4	8.1
22	---	---	---	---	---	---	9.6	9.4	9.6	8.3	7.1	7.8
23	---	---	---	---	---	---	10.0	9.5	9.8	8.2	7.1	7.7
24	---	---	---	---	---	---	10.5	10.0	10.2	8.2	7.2	7.7
25	---	---	---	---	---	---	10.8	10.3	10.5	8.2	7.1	7.6
26	---	---	---	---	---	---	10.8	10.3	10.5	8.2	7.2	7.8
27	---	---	---	---	---	---	10.7	10.3	10.5	8.3	7.6	7.9
28	---	---	---	---	---	---	10.7	10.4	10.5	8.0	7.7	7.8
29	---	---	---	10.9	10.6	10.7	10.4	10.2	10.3	7.8	7.4	7.6
30	---	---	---	10.6	10.4	10.5	10.5	10.1	10.3	7.7	7.4	7.5
31	---	---	---	10.6	10.5	10.6	---	---	---	7.5	7.2	7.4
MONTH	---	---	---	10.9	10.4	10.6	12.0	9.4	10.6	10.4	6.4	8.1

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.3	6.7	6.9	7.4	6.8	7.2	5.2	4.4	4.6	5.3	4.5	4.8
2	7.6	6.5	7.0	7.3	6.9	7.0	4.8	4.2	4.4	4.9	4.1	4.5
3	7.7	7.0	7.5	---	---	---	5.2	4.1	4.6	4.7	4.1	4.4
4	8.2	7.0	7.7	---	---	---	5.1	4.4	4.7	5.1	4.2	4.6
5	8.9	8.0	8.5	---	---	---	4.8	4.2	4.5	6.0	4.6	5.2
6	8.8	8.3	8.5	---	---	---	5.3	4.1	4.6	7.1	5.1	6.4
7	8.6	8.1	8.4	---	---	---	5.6	4.5	5.1	7.1	6.0	6.8
8	8.6	7.9	8.3	6.9	6.2	6.5	5.8	4.8	5.2	7.0	6.6	6.8
9	8.5	8.1	8.3	6.6	5.8	6.3	5.6	4.7	5.3	7.0	6.5	6.8
10	8.3	8.0	8.2	6.3	5.2	5.8	5.6	4.8	5.2	7.1	6.7	6.9
11	8.2	7.9	8.1	5.7	4.8	5.3	5.7	4.9	5.4	7.2	6.6	6.9
12	8.1	7.8	7.9	5.6	4.7	5.1	5.9	4.9	5.4	7.2	6.6	6.9
13	7.9	7.4	7.7	5.4	4.7	5.0	5.7	5.2	5.5	7.2	6.5	6.7
14	7.8	7.2	7.5	5.4	4.7	4.9	6.0	5.3	5.6	7.0	6.2	6.6
15	7.5	6.9	7.2	5.3	4.7	4.9	6.1	5.4	5.7	7.1	6.0	6.5
16	7.4	6.9	7.2	5.3	4.6	4.8	5.9	5.3	5.6	6.9	5.8	6.2
17	7.4	7.0	7.2	5.1	4.5	4.8	6.0	5.2	5.6	7.5	6.3	6.8
18	7.5	7.0	7.2	5.0	4.4	4.7	6.1	5.3	5.7	7.1	6.7	6.9
19	7.4	6.9	7.1	5.1	4.3	4.7	5.9	5.2	5.6	7.1	6.8	7.0
20	7.3	6.8	7.0	5.0	4.3	4.7	6.0	5.3	5.7	7.1	6.6	6.9
21	7.3	6.7	7.0	5.2	4.5	4.8	6.2	5.3	5.7	6.7	6.4	6.6
22	7.6	7.0	7.4	5.4	4.6	5.0	6.6	5.5	5.9	6.6	6.1	6.4
23	7.9	7.4	7.6	6.3	4.6	5.3	6.7	5.7	6.2	6.3	5.5	6.0
24	8.1	7.6	7.9	6.0	4.9	5.6	7.0	5.8	6.4	6.6	5.6	6.1
25	8.1	7.6	7.9	6.0	5.2	5.5	6.9	5.9	6.4	6.9	6.3	6.6
26	8.0	7.6	7.8	6.0	5.1	5.5	6.5	5.6	6.1	6.5	5.7	6.0
27	7.6	7.2	7.4	5.8	5.1	5.5	5.6	5.0	5.4	6.1	5.5	5.8
28	7.4	7.0	7.2	5.4	4.8	5.1	6.0	4.0	4.9	6.1	5.6	5.8
29	7.2	6.4	6.9	5.2	4.6	4.9	6.0	5.1	5.4	5.6	4.7	5.2
30	7.5	6.5	7.0	5.5	4.5	4.8	5.8	4.9	5.2	6.2	4.7	5.4
31	---	---	---	5.4	4.7	5.0	5.5	4.7	5.0	---	---	---
MONTH	8.9	6.4	7.6	7.4	4.3	5.3	7.0	4.0	5.4	7.5	4.1	6.2

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Loca- tion in X-sect. downstrm ft from l bank (00009)	Sam- pling depth, feet (00003)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
APR 2003									
01...	1222	1028	1028	88	1	10.9	7.5	153	8.6
01...	1224	1028	1028	88	5	10.8	7.5	154	8.6
01...	1226	1028	1028	288	1	10.9	7.4	152	8.7
01...	1228	1028	1028	288	6	10.9	7.4	153	8.7
01...	1229	1028	1028	288	10	10.9	7.4	152	8.7
01...	1230	1028	1028	288	15	10.9	7.4	152	8.7
01...	1231	1028	1028	288	20	10.9	7.4	151	8.7
01...	1232	1028	1028	288	25	10.9	7.4	151	8.7
01...	1233	1028	1028	288	30	10.9	7.4	151	8.7
01...	1240	1028	1028	450	1	10.9	7.4	151	8.7
01...	1241	1028	1028	450	5	10.9	7.5	151	8.7
01...	1242	1028	1028	450	10	11.0	7.5	151	8.7
01...	1243	1028	1028	450	15	10.8	7.5	151	8.7
01...	1244	1028	1028	450	20	10.9	7.5	151	8.7
01...	1245	1028	1028	450	25	10.8	7.5	151	8.7
01...	1246	1028	1028	450	30	10.9	7.5	151	8.7
01...	1255	1028	1028	700	1	10.8	7.5	152	8.8
01...	1256	1028	1028	700	5	10.8	7.5	152	8.8
01...	1257	1028	1028	700	10	10.8	7.5	151	8.8
01...	1258	1028	1028	700	15	10.8	7.5	152	8.8
01...	1259	1028	1028	700	20	10.8	7.5	152	8.8
01...	1300	1028	1028	700	25	10.8	7.5	152	8.8
01...	1301	1028	1028	700	30	10.8	7.5	152	8.8
01...	1308	1028	1028	910	1	10.8	7.5	152	8.8
01...	1309	1028	1028	910	5	10.8	7.5	151	8.8
01...	1310	1028	1028	910	10	10.8	7.5	152	8.8
01...	1311	1028	1028	910	15	10.8	7.5	152	8.8
01...	1312	1028	1028	910	20	10.8	7.5	152	8.8
01...	1313	1028	1028	910	25	10.8	7.5	152	8.8
01...	1314	1028	1028	910	30	10.8	7.5	152	8.8
01...	1315	1028	1028	910	35	10.8	7.5	152	8.8
01...	1316	1028	1028	910	40	10.8	7.5	152	8.8
01...	1325	1028	1028	1150	1	10.8	7.5	152	8.8
01...	1326	1028	1028	1150	5	10.8	7.5	152	8.8
01...	1327	1028	1028	1150	10	10.8	7.5	152	8.8
01...	1328	1028	1028	1150	15	10.8	7.5	152	8.8
01...	1329	1028	1028	1150	20	10.8	7.5	152	8.8
01...	1330	1028	1028	1150	25	10.8	7.5	152	8.8
01...	1331	1028	1028	1150	30	10.8	7.5	152	8.8
01...	1332	1028	1028	1150	35	10.8	7.5	152	8.8
01...	1333	1028	1028	1150	40	10.8	7.5	152	8.8
01...	1337	1028	1028	1370	1	10.8	7.5	153	8.8
01...	1338	1028	1028	1370	5	10.8	7.5	153	8.8
01...	1339	1028	1028	1370	10	10.8	7.5	153	8.8
01...	1340	1028	1028	1370	15	10.8	7.5	153	8.8
01...	1341	1028	1028	1370	20	10.8	7.5	153	8.8
01...	1342	1028	1028	1370	25	10.8	7.5	153	8.8
01...	1343	1028	1028	1370	30	10.8	7.5	154	8.8
01...	1344	1028	1028	1370	35	10.8	7.5	154	8.8
01...	1345	1028	1028	1370	40	10.8	7.5	154	8.8
01...	1346	1028	1028	1370	45	10.8	7.5	154	8.9
01...	1347	1028	1028	1550	1	10.9	7.4	154	8.8
01...	1348	1028	1028	1550	5	10.8	7.5	154	8.8
01...	1349	1028	1028	1550	10	10.8	7.4	154	8.8
01...	1350	1028	1028	1550	15	10.8	7.4	154	8.8
01...	1351	1028	1028	1550	20	10.8	7.5	154	8.8
01...	1352	1028	1028	1550	25	10.8	7.5	154	8.8
01...	1353	1028	1028	1550	30	10.8	7.5	154	8.8
01...	1354	1028	1028	1550	35	10.8	7.5	154	8.8
01...	1355	1028	1028	1550	40	10.8	7.4	154	8.8
01...	1356	1028	1028	1550	45	10.8	7.5	154	8.8
01...	1357	1028	1028	1770	1	10.8	7.4	155	8.8
01...	1358	1028	1028	1770	5	10.8	7.5	155	8.8
01...	1359	1028	1028	1770	10	10.8	7.5	155	8.8
01...	1400	1028	1028	1770	15	10.8	7.5	155	8.8
01...	1401	1028	1028	1770	20	10.8	7.5	155	8.8
01...	1402	1028	1028	1770	25	10.8	7.4	155	8.8
01...	1403	1028	1028	1770	30	10.8	7.5	155	8.8
01...	1404	1028	1028	1770	35	10.8	7.5	155	8.8
01...	1405	1028	1028	1770	40	10.8	7.4	155	8.9
01...	1406	1028	1028	1770	45	10.8	7.4	155	8.9
01...	1407	1028	1028	1770	50	10.8	7.5	155	8.9
01...	1408	1028	1028	2010	1	10.8	7.4	157	8.9
01...	1409	1028	1028	2010	5	10.7	7.4	157	8.9
01...	1410	1028	1028	2010	10	10.7	7.4	157	8.9
01...	1411	1028	1028	2010	15	10.7	7.5	157	8.9
01...	1412	1028	1028	2010	20	10.7	7.5	157	8.9
01...	1413	1028	1028	2010	25	10.7	7.5	157	8.9
01...	1414	1028	1028	2010	30	10.7	7.5	157	8.9
01...	1415	1028	1028	2010	35	10.7	7.4	157	8.9
01...	1416	1028	1028	2010	40	10.7	7.5	157	8.9
01...	1417	1028	1028	2010	45	10.7	7.5	157	8.9
01...	1418	1028	1028	2010	50	10.7	7.5	157	8.9
01...	1419	1028	1028	2160	0	--	--	--	--

