

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA

LOCATION.--Lat 39°50'33", long 75°21'28", Delaware County, Hydrologic Unit 02040202, in the pumping house of Kimberly-Clark Paper Company at Chester.

DRAINAGE AREA.--10,300 mi², approximately.

PERIOD OF RECORD.--December 1961 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year.

WATER TEMPERATURES: December 1961 to current year.

DISSOLVED OXYGEN: December 1961 to current year.

INSTRUMENTATION.--Water-quality monitor since December 1961. Probes interfaced with a data collection platform since the 1986 water year.

REMARKS.--Interruptions in the record were due to malfunctions of the pump or recording instrument. Prior to April 1981 sampling site located at auxiliary tidal-gaging station at the end of Reynolds Aluminum Company pier, 0.5 mi downstream from Chester Creek in Chester (latitude 39°50'12", longitude 75°22'00").

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 5,900 microsiemens, Oct. 7, 1965; minimum, 103 microsiemens, June 2, 1984, Apr. 9, 1987.

pH: Maximum, 8.7, Sept. 13, 14, 1971, Oct. 16, 1979; minimum, 5.5, Dec. 10, 11, 1969.

WATER TEMPERATURE: Maximum, 33.0°C, July 21, 1977, Aug. 3, 1999; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 16.3 mg/L, Mar. 28, 1993; minimum, 0.0 mg/L, on many days.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1650	846	1110	1410	682	968	1640	884	1190	1820	1100	1380
2	1270	799	1050	1360	674	950	1430	899	1130	1890	1070	1370
3	1380	758	1050	1380	684	952	1570	864	1130	3000	932	1730
4	1510	749	1100	1620	698	1040	1880	907	1230	1370	773	1090
5	1600	776	1170	1670	746	1090	1790	961	1240	932	698	829
6	1740	831	1230	1810	798	1140	2000	965	1340	1170	751	959
7	---	---	---	1670	840	1120	1810	947	1370	952	757	859
8	1920	692	1360	1820	804	1130	1890	1070	1400	994	724	840
9	1600	655	1150	1740	846	1160	1820	979	1410	961	759	854
10	1340	727	1080	1760	895	1210	1750	1000	1390	890	766	826
11	1180	725	950	1780	916	1260	1480	967	1270	844	677	756
12	1230	714	923	1370	803	1060	1620	979	1320	771	628	684
13	1380	740	953	---	---	---	1540	1030	1300	702	588	642
14	1340	636	907	---	---	---	1720	1020	1380	765	595	659
15	1020	617	805	---	---	---	1820	1100	1430	976	624	769
16	948	579	744	---	---	---	1620	1050	1340	765	587	646
17	868	575	722	1780	894	1250	2110	1080	1460	612	529	564
18	890	586	738	1850	968	1290	1700	1130	1400	575	429	537
19	830	545	690	1780	989	1300	1740	1110	1370	475	393	458
20	778	541	667	1990	970	1370	1870	1010	1360	469	426	453
21	824	557	693	1600	943	1250	2090	1090	1460	437	388	414
22	812	552	694	1600	908	1200	1750	1070	1460	425	364	390
23	892	567	711	1580	939	1210	1720	1020	1280	430	375	387
24	864	582	727	1420	910	1150	1900	1040	1390	463	365	381
25	908	572	717	1840	897	1240	1970	1110	1430	365	328	352
26	1150	581	774	1800	849	1310	1840	1140	1440	346	292	318
27	1150	615	837	1380	760	1110	1840	1130	1440	304	259	273
28	1180	620	831	1350	809	1080	1900	1160	1460	271	241	251
29	983	606	768	1510	819	1090	2170	1180	1590	254	226	237
30	1180	632	858	1640	833	1180	2350	1270	1680	245	208	224
31	1180	612	836	---	---	---	1790	1120	1400	253	200	212
MONTH	1920	541	895	1990	674	1160	2350	864	1370	3000	200	656

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	263	194	207	---	---	---	297	222	233	318	268	277
2	346	192	215	---	---	---	269	221	229	296	274	277
3	237	191	204	---	---	---	252	220	227	301	276	281
4	266	192	199	---	---	---	245	218	224	317	258	274
5	---	---	---	---	---	---	294	219	227	307	259	267
6	---	---	---	---	---	---	284	220	228	301	260	267
7	---	---	---	---	---	---	274	217	225	321	261	271
8	---	---	---	---	---	---	246	219	224	311	264	271
9	---	---	---	---	---	---	328	219	229	294	263	268
10	---	---	---	---	---	---	281	219	233	284	263	267
11	---	---	---	---	---	---	256	222	229	298	263	270
12	---	---	---	---	---	---	245	226	231	297	266	273
13	---	---	---	---	---	---	261	231	239	292	264	273
14	---	---	---	---	---	---	270	236	245	278	270	272
15	---	---	---	---	---	---	266	238	243	280	271	274
16	---	---	---	---	---	---	259	239	244	285	273	276
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	316	277	284
19	---	---	---	305	269	280	269	237	242	324	284	289
20	---	---	---	315	269	278	328	236	247	302	284	288
21	---	---	---	302	272	281	275	241	247	297	282	288
22	---	---	---	282	228	250	282	242	248	308	283	290
23	---	---	---	287	254	265	328	243	254	---	---	---
24	---	---	---	288	239	254	306	246	254	---	---	---
25	---	---	---	297	235	246	287	247	256	---	---	---
26	---	---	---	296	232	242	281	251	257	---	---	---
27	---	---	---	277	231	238	286	253	259	288	276	281
28	---	---	---	333	229	239	328	256	265	306	278	283
29	---	---	---	281	225	236	307	259	266	309	279	284
30	---	---	---	---	---	---	314	262	271	296	273	281
31	---	---	---	---	---	---	---	---	---	310	277	281
MONTH	346	191	206	333	225	255	328	217	242	324	258	277
	JUNE			JULY			AUGUST			SEPTEMBER		
1	305	278	282	965	551	696	---	---	---	2430	1160	1700
2	296	280	284	858	556	688	---	---	---	2370	1130	1650
3	306	277	283	---	---	---	---	---	---	2440	1160	1630
4	320	280	286	---	---	---	---	---	---	2530	1210	1680
5	303	280	290	---	---	---	2960	1500	2080	3190	1280	1870
6	298	287	293	---	---	---	3030	1570	2060	3290	670	1820
7	300	288	292	---	---	---	3050	1530	2050	2960	913	1910
8	313	286	293	---	---	---	3150	1560	2080	2660	1210	1860
9	328	290	300	1240	585	814	3010	1530	2060	2580	1190	1830
10	326	295	309	1380	626	883	3270	1600	2170	2470	745	1650
11	331	308	320	1180	585	840	3140	1840	2250	2200	1110	1570
12	---	---	---	1410	641	940	2720	2050	2400	2040	1060	1500
13	---	---	---	1450	653	999	2830	2130	2460	2030	1080	1530
14	---	---	---	1930	772	1160	2820	1840	2410	2190	1100	1590
15	---	---	---	1660	799	1130	2230	1680	1930	2220	1120	1590
16	---	---	---	1560	837	1140	2020	1600	1810	2130	569	1240
17	---	---	---	1470	853	1150	1910	1530	1720	577	214	289
18	---	---	---	1460	906	1170	1870	1480	1680	228	199	214
19	---	---	---	1630	932	1240	2060	1540	1710	212	181	192
20	---	---	---	1730	906	1250	2060	1600	1810	207	183	189
21	---	---	---	1900	975	1300	2130	1450	1710	299	185	207
22	---	---	---	1880	1000	1350	2210	1540	1800	226	191	205
23	---	---	---	1840	1020	1360	2240	1530	1810	222	195	205
24	570	402	464	1910	1010	1360	---	---	---	232	200	212
25	614	422	499	1910	1050	1390	---	---	---	231	208	216
26	644	449	529	2010	1090	1450	---	---	---	241	210	218
27	677	456	554	2150	1150	1560	2310	758	1380	237	212	219
28	776	497	604	2320	1220	1620	1870	931	1320	242	214	222
29	837	519	644	2320	1230	1650	1750	910	1310	254	219	226
30	825	516	643	---	---	---	1980	977	1330	280	217	232
31	---	---	---	---	---	---	2420	1060	1690	---	---	---
MONTH	837	277	398	2320	551	1180	3270	758	1880	3290	181	989

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01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.3	7.4	7.4	7.3	7.4	7.4	7.3	7.3	7.6	7.5	7.5
2	7.5	7.3	7.4	7.4	7.3	7.4	7.4	7.3	7.4	7.7	7.5	7.6
3	7.5	7.3	7.4	7.4	7.3	7.4	7.4	7.2	7.3	7.7	7.6	7.6
4	7.5	7.4	7.5	7.4	7.3	7.4	7.4	7.3	7.3	7.7	7.5	7.6
5	7.6	7.3	7.4	7.5	7.3	7.4	7.4	7.3	7.3	7.6	7.5	7.5
6	7.3	7.2	7.2	7.5	7.4	7.4	7.4	7.3	7.3	7.9	7.6	7.7
7	---	---	---	7.5	7.4	7.4	7.5	7.2	7.4	7.7	7.5	7.6
8	7.4	7.2	7.3	7.5	7.4	7.4	7.6	7.4	7.5	7.6	7.5	7.5
9	7.3	7.1	7.2	7.5	7.4	7.4	7.6	7.5	7.5	7.6	7.5	7.5
10	7.3	7.1	7.2	7.5	7.4	7.5	7.6	7.5	7.6	7.6	7.5	7.5
11	7.2	7.1	7.2	7.5	7.4	7.5	7.6	7.5	7.5	---	---	---
12	7.3	7.2	7.2	7.5	7.4	7.4	7.6	7.5	7.6	---	---	---
13	7.3	7.2	7.2	---	---	---	7.6	7.5	7.6	---	---	---
14	7.3	7.2	7.2	---	---	---	7.6	7.5	7.6	---	---	---
15	7.2	7.1	7.2	---	---	---	7.7	7.5	7.6	---	---	---
16	7.2	7.1	7.1	---	---	---	7.6	7.5	7.6	---	---	---
17	7.2	7.1	7.2	7.5	7.4	7.4	7.7	7.6	7.6	---	---	---
18	7.2	7.1	7.2	7.5	7.4	7.5	7.7	7.6	7.6	---	---	---
19	7.2	7.1	7.2	7.5	7.4	7.4	7.7	7.6	7.6	---	---	---
20	7.2	7.1	7.1	7.5	7.3	7.4	7.7	7.6	7.6	---	---	---
21	7.3	7.1	7.2	7.5	7.3	7.4	7.7	7.6	7.6	---	---	---
22	7.3	7.2	7.3	7.5	7.4	7.4	7.9	7.6	7.7	---	---	---
23	7.4	7.3	7.3	7.5	7.4	7.4	7.7	7.6	7.6	---	---	---
24	7.4	7.3	7.3	7.4	7.3	7.4	7.7	7.6	7.6	---	---	---
25	7.3	7.3	7.3	7.5	7.4	7.4	7.7	7.6	7.6	---	---	---
26	7.4	7.3	7.3	7.5	7.4	7.4	7.6	7.6	7.6	---	---	---
27	7.4	7.3	7.3	7.4	7.3	7.4	7.6	7.6	7.6	---	---	---
28	7.4	7.3	7.3	7.4	7.3	7.4	7.6	7.6	7.6	---	---	---
29	7.4	7.1	7.3	7.4	7.3	7.4	7.6	7.5	7.6	---	---	---
30	7.4	7.3	7.3	7.4	7.3	7.4	7.6	7.5	7.6	---	---	---
31	7.4	7.3	7.3	---	---	---	7.6	7.5	7.5	---	---	---
MONTH	7.6	7.1	7.3	7.5	7.3	7.4	7.9	7.2	7.5	7.9	7.5	7.6
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	7.4	7.3	7.4	7.3	7.3	7.3
2	---	---	---	---	---	---	7.4	7.3	7.4	7.3	7.3	7.3
3	---	---	---	---	---	---	7.4	7.3	7.4	7.3	7.3	7.3
4	---	---	---	---	---	---	7.4	7.3	7.3	7.3	7.2	7.3
5	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.2	7.2
6	---	---	---	---	---	---	7.5	7.3	7.4	7.2	7.2	7.2
7	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.2	7.2
8	---	---	---	---	---	---	7.4	7.3	7.3	7.2	7.1	7.2
9	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	7.1
10	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	7.1
11	---	---	---	---	---	---	7.4	7.4	7.4	7.2	7.1	7.2
12	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	7.2
13	---	---	---	---	---	---	7.4	7.3	7.4	7.2	7.1	7.1
14	---	---	---	---	---	---	7.4	7.4	7.4	7.2	7.1	7.1
15	---	---	---	---	---	---	7.5	7.4	7.4	7.2	7.1	7.1
16	---	---	---	---	---	---	7.4	7.3	7.4	7.1	7.1	7.1
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	7.2	7.1	7.1
19	---	---	---	7.6	7.4	7.5	7.4	7.3	7.4	7.2	7.1	7.2
20	---	---	---	7.6	7.4	7.5	7.4	7.1	7.3	7.1	7.1	7.1
21	---	---	---	7.5	7.4	7.4	7.2	7.2	7.2	7.1	7.1	7.1
22	---	---	---	7.5	7.3	7.4	7.2	7.1	7.2	7.1	7.1	7.1
23	---	---	---	7.5	7.4	7.5	7.2	7.1	7.2	---	---	---
24	---	---	---	7.5	7.3	7.4	7.3	7.2	7.2	---	---	---
25	---	---	---	7.5	7.3	7.4	7.3	7.2	7.2	---	---	---
26	---	---	---	7.4	7.3	7.4	7.3	7.2	7.2	---	---	---
27	---	---	---	7.4	7.3	7.4	7.3	7.2	7.2	7.2	7.1	7.1
28	---	---	---	7.4	7.4	7.4	7.3	7.2	7.2	7.2	7.1	7.1
29	---	---	---	7.4	7.3	7.4	7.2	7.2	7.2	7.2	7.1	7.2
30	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.1	7.1
31	---	---	---	---	---	---	---	---	---	7.2	7.1	7.1
MONTH	---	---	---	7.6	7.3	7.4	7.5	7.1	7.3	7.3	7.1	7.2

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.2	7.1	7.2	7.2	7.0	7.1	---	---	---	7.4	7.3	7.3
2	7.2	7.1	7.2	7.2	7.0	7.2	---	---	---	7.4	7.3	7.3
3	7.2	7.1	7.2	7.1	7.0	7.1	---	---	---	7.3	7.3	7.3
4	7.2	7.1	7.2	7.1	7.0	7.1	---	---	---	7.3	7.2	7.3
5	7.2	7.2	7.2	7.1	7.0	7.0	7.4	7.2	7.3	7.4	7.3	7.3
6	7.2	7.1	7.2	7.1	7.0	7.1	7.3	7.2	7.3	7.4	7.2	7.3
7	7.2	7.1	7.1	7.2	7.0	7.1	7.4	7.2	7.3	7.4	7.2	7.3
8	7.2	7.1	7.1	7.3	7.0	7.1	7.3	7.2	7.3	7.3	7.1	7.3
9	7.1	7.0	7.1	7.2	7.1	7.1	7.3	7.1	7.2	7.3	7.1	7.2
10	7.1	7.1	7.1	7.2	7.0	7.1	7.2	7.1	7.2	7.2	7.0	7.1
11	7.1	7.1	7.1	7.2	7.1	7.1	7.1	6.9	7.0	7.2	7.0	7.1
12	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.9	7.0	7.1	7.0	7.0
13	7.1	7.0	7.1	7.3	7.2	7.2	7.0	6.9	7.0	7.1	7.0	7.1
14	7.2	7.1	7.1	7.3	7.2	7.2	7.1	7.0	7.1	7.1	7.0	7.1
15	7.1	7.0	7.1	7.3	7.2	7.2	7.1	7.1	7.1	7.1	7.0	7.1
16	7.1	7.0	7.1	7.3	7.2	7.3	7.2	7.1	7.1	7.2	7.0	7.1
17	7.2	7.1	7.1	7.3	7.2	7.2	7.2	7.1	7.2	7.0	6.8	6.9
18	7.1	7.0	7.1	7.3	7.2	7.2	7.2	7.0	7.1	6.9	6.8	6.9
19	7.1	7.0	7.1	7.3	7.2	7.2	7.3	7.2	7.3	6.8	6.8	6.8
20	7.1	7.0	7.1	7.3	7.2	7.2	7.3	7.3	7.3	6.8	6.8	6.8
21	7.1	7.0	7.1	7.3	7.2	7.3	7.3	7.2	7.3	7.0	6.8	6.8
22	7.1	7.0	7.0	7.3	7.2	7.2	7.3	7.2	7.3	7.0	6.7	6.9
23	7.1	7.0	7.0	7.3	7.2	7.2	7.3	7.2	7.3	6.9	6.8	6.9
24	7.1	6.9	7.0	7.3	7.2	7.2	---	---	---	7.0	6.9	6.9
25	7.1	7.0	7.1	7.3	7.1	7.2	---	---	---	6.9	6.8	6.9
26	7.1	7.0	7.1	7.2	7.2	7.2	---	---	---	6.9	6.8	6.9
27	7.1	7.0	7.1	7.2	7.2	7.2	7.3	7.1	7.2	6.9	6.8	6.8
28	7.2	7.0	7.1	7.2	7.2	7.2	7.2	7.0	7.1	6.8	6.8	6.8
29	7.1	7.0	7.1	7.3	7.1	7.2	7.2	7.1	7.1	6.8	6.8	6.8
30	7.2	7.0	7.1	---	---	---	7.3	7.1	7.2	7.0	6.8	6.9
31	---	---	---	---	---	---	7.3	7.2	7.3	---	---	---
MONTH	7.2	6.9	7.1	7.3	7.0	7.2	7.4	6.9	7.2	7.4	6.7	7.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	24.0	23.0	23.5	15.5	15.0	15.0	11.0	10.5	10.5	6.0	4.5	5.5
2	23.0	22.0	23.0	15.0	14.5	15.0	10.5	10.5	10.5	5.0	4.0	4.5
3	22.5	21.5	22.0	15.0	14.0	14.5	11.0	10.0	10.5	5.0	3.5	4.5
4	22.0	20.0	21.0	14.5	13.5	14.0	11.5	10.5	11.0	4.5	3.5	4.5
5	21.5	20.0	21.0	14.0	13.0	13.5	11.5	11.0	11.5	4.5	3.5	4.0
6	21.0	20.5	20.5	13.5	12.5	13.0	11.5	11.0	11.5	4.0	3.0	4.0
7	---	---	---	13.0	12.0	12.5	12.5	11.0	11.5	4.0	3.0	3.5
8	20.5	19.5	20.5	13.0	12.0	12.5	12.5	11.5	12.0	4.0	3.0	3.5
9	20.5	19.0	20.0	13.0	12.0	12.5	12.0	11.0	12.0	4.0	3.0	3.5
10	20.0	19.0	20.0	13.0	12.5	12.5	12.0	11.0	11.5	3.5	1.5	3.0
11	20.0	19.0	20.0	13.5	12.5	13.0	11.5	11.0	11.0	3.5	2.5	3.0
12	20.0	19.5	19.5	13.0	12.0	12.5	11.0	10.5	10.5	4.0	2.5	3.0
13	20.0	19.5	19.5	---	---	---	11.0	10.0	10.5	3.5	2.5	3.5
14	20.0	19.5	19.5	---	---	---	10.5	9.5	10.5	3.5	2.5	3.0
15	19.5	18.5	19.0	---	---	---	10.5	9.0	10.0	3.0	1.5	2.5
16	19.0	18.0	18.5	---	---	---	10.0	9.5	10.0	2.5	1.0	2.0
17	19.0	18.0	18.5	12.0	11.0	12.0	10.0	8.5	9.5	3.0	2.0	2.5
18	19.0	18.0	18.5	12.0	11.0	11.5	9.5	9.0	9.5	4.0	3.0	3.5
19	19.0	18.5	19.0	12.0	11.0	11.5	9.5	8.5	9.0	3.5	3.0	3.5
20	19.0	18.0	18.5	12.0	11.5	11.5	9.5	9.0	9.0	4.0	3.0	3.5
21	18.5	17.5	18.0	11.5	11.0	11.5	9.5	9.0	9.0	4.0	3.0	3.5
22	17.5	16.5	17.5	11.5	10.5	11.0	11.0	9.0	9.5	4.0	3.5	3.5
23	17.5	16.5	17.0	11.0	10.5	11.0	9.5	8.0	8.5	5.0	3.5	4.0
24	17.0	16.5	17.0	11.5	10.5	11.0	8.5	8.0	8.5	7.0	4.5	5.5
25	17.0	16.5	16.5	11.0	10.5	11.0	8.0	7.0	8.0	7.0	5.0	5.5
26	17.0	16.5	16.5	11.0	10.0	10.5	7.5	6.5	7.0	5.5	5.0	5.0
27	17.0	16.5	16.5	10.5	9.5	10.5	7.0	6.5	7.0	5.0	4.5	5.0
28	17.0	16.5	16.5	10.5	9.5	10.0	7.0	6.5	7.0	5.5	5.0	5.0
29	17.0	16.0	16.5	10.5	10.0	10.5	7.0	7.0	7.0	5.5	4.5	5.0
30	16.5	15.5	16.0	11.0	10.0	10.5	7.0	5.5	6.5	5.0	4.0	4.5
31	16.0	14.5	15.5	---	---	---	6.0	5.5	6.0	4.0	3.0	3.5
MONTH	24.0	14.5	18.9	15.5	9.5	12.1	12.5	5.5	9.5	7.0	1.0	3.9

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.5	2.5	3.5	---	---	---	10.5	10.0	10.0	15.5	14.5	15.0
2	5.5	3.5	4.0	---	---	---	10.5	10.0	10.5	15.5	15.0	15.0
3	5.5	4.5	4.5	---	---	---	11.5	10.0	10.5	15.0	14.5	15.0
4	5.0	4.0	4.5	---	---	---	11.5	10.5	11.0	15.0	14.5	15.0
5	---	---	---	---	---	---	12.5	10.5	11.0	16.5	15.0	15.5
6	---	---	---	---	---	---	12.5	11.0	11.5	16.5	15.5	16.0
7	---	---	---	---	---	---	13.0	11.5	12.0	16.0	15.5	16.0
8	---	---	---	---	---	---	14.0	12.0	12.5	17.0	16.0	16.5
9	---	---	---	---	---	---	14.0	12.5	13.0	17.5	16.5	17.0
10	---	---	---	---	---	---	13.0	11.5	12.5	18.0	16.5	17.0
11	---	---	---	---	---	---	12.5	11.5	12.0	18.5	17.0	17.5
12	---	---	---	---	---	---	13.0	10.0	12.0	19.0	17.5	18.0
13	---	---	---	---	---	---	13.5	11.5	12.5	18.0	17.5	18.0
14	---	---	---	---	---	---	13.5	12.0	13.0	18.0	17.0	17.5
15	---	---	---	---	---	---	13.5	12.5	13.0	18.0	17.5	17.5
16	---	---	---	---	---	---	13.5	13.0	13.0	18.0	17.5	18.0
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
19	---	---	---	7.5	6.5	7.0	13.5	12.5	13.0	19.0	18.5	19.0
20	---	---	---	8.0	6.5	7.5	13.0	12.5	13.0	19.5	18.5	19.0
21	---	---	---	7.5	7.0	7.0	13.5	12.5	13.0	20.0	18.5	19.0
22	---	---	---	7.5	7.0	7.0	14.5	13.0	13.5	20.5	19.0	19.5
23	---	---	---	8.0	7.0	7.5	14.5	13.5	14.0	---	---	---
24	---	---	---	9.0	7.5	8.0	14.5	13.0	13.5	---	---	---
25	---	---	---	9.5	8.0	8.5	14.0	12.5	13.5	---	---	---
26	---	---	---	9.5	8.0	8.5	14.5	13.0	14.0	---	---	---
27	---	---	---	9.0	8.5	9.0	15.0	13.5	14.0	20.0	19.0	19.5
28	---	---	---	9.0	8.5	9.0	15.5	14.0	14.5	20.5	19.0	20.0
29	---	---	---	10.0	8.5	9.0	15.5	14.5	15.0	21.5	20.0	20.5
30	---	---	---	---	---	---	15.5	14.5	15.0	22.0	20.5	21.5
31	---	---	---	---	---	---	---	---	---	22.5	21.0	22.0
MONTH	5.5	2.5	4.1	10.0	6.5	8.0	15.5	10.0	12.7	22.5	14.5	17.8
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.5	21.5	22.5	26.5	26.0	26.0	---	---	---	24.5	24.5	24.5
2	23.5	22.0	23.0	26.5	26.0	26.5	---	---	---	24.5	24.0	24.0
3	23.5	22.5	23.0	27.0	26.0	26.5	---	---	---	25.0	23.5	24.5
4	23.5	22.5	23.0	28.0	26.5	27.0	---	---	---	25.0	24.5	24.5
5	23.5	22.5	23.0	28.5	27.0	28.0	30.0	29.0	29.0	25.0	24.5	24.5
6	24.0	22.5	23.0	29.5	27.5	28.5	29.5	28.5	29.0	25.5	23.5	24.5
7	25.0	23.0	24.0	29.5	28.5	29.0	29.0	28.0	28.5	25.5	24.5	25.0
8	26.0	24.0	25.0	29.0	28.0	28.5	28.5	28.0	28.5	26.0	25.0	25.5
9	26.0	24.5	25.0	29.0	27.5	28.5	28.5	27.5	28.0	26.0	25.0	25.5
10	25.0	24.5	24.5	28.5	28.0	28.5	28.0	26.5	27.5	26.0	23.5	25.0
11	25.5	23.5	24.5	28.0	27.0	27.5	28.0	27.0	27.5	25.5	24.5	25.0
12	24.5	24.0	24.5	27.5	26.5	27.0	28.5	27.5	28.0	25.5	24.5	25.0
13	24.5	24.0	24.5	27.0	26.0	27.0	28.5	27.5	28.5	25.5	25.0	25.0
14	25.0	24.0	24.5	27.0	26.5	26.5	29.0	28.0	28.5	25.5	25.0	25.0
15	25.0	24.5	25.0	27.5	26.5	26.5	28.5	27.5	28.0	25.0	24.5	25.0
16	25.0	24.0	24.5	28.0	26.5	27.0	29.0	27.5	28.0	24.5	21.0	23.5
17	24.5	23.5	24.0	28.5	27.0	27.5	29.0	28.0	28.5	21.5	20.5	21.0
18	24.5	23.5	24.0	29.0	27.5	28.0	29.0	28.5	28.5	21.0	20.0	20.5
19	24.5	23.5	24.0	29.5	28.0	28.5	29.0	28.0	28.5	20.5	19.5	20.0
20	24.0	23.5	24.0	28.5	28.0	28.5	28.5	27.0	27.5	20.5	19.5	20.0
21	23.5	23.0	23.5	29.0	28.0	28.5	27.0	26.0	26.5	20.0	19.0	20.0
22	24.5	22.5	23.5	29.0	28.0	28.5	26.5	26.0	26.5	19.5	18.5	19.0
23	25.0	23.5	24.0	29.5	28.0	29.0	27.0	25.5	26.5	19.5	18.0	19.0
24	25.0	23.5	24.0	29.5	28.5	29.0	---	---	---	19.5	18.5	19.0
25	25.0	24.0	24.5	29.5	28.5	29.0	---	---	---	20.0	19.0	19.5
26	26.0	24.5	25.0	29.5	28.5	29.0	---	---	---	20.0	19.0	19.5
27	26.5	25.0	25.5	30.0	28.5	29.0	26.5	24.5	26.0	20.0	19.5	19.5
28	26.5	25.5	26.0	29.5	28.5	29.5	27.0	26.0	26.5	20.0	19.5	20.0
29	27.0	25.5	26.5	29.5	28.5	29.0	27.5	26.0	26.5	20.5	20.0	20.5
30	26.5	26.0	26.0	---	---	---	26.0	25.0	25.5	20.5	19.5	20.0
31	---	---	---	---	---	---	25.0	24.5	25.0	---	---	---
MONTH	27.0	21.5	24.3	30.0	26.0	28.0	30.0	24.5	27.5	26.0	18.0	22.5

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.1	5.5	5.9	7.6	7.2	7.4	9.2	8.7	9.0	10.9	10.0	10.3
2	6.2	5.6	5.9	7.6	7.2	7.5	9.3	8.9	9.1	11.4	10.3	10.7
3	6.3	5.5	6.0	7.7	7.3	7.5	9.3	8.9	9.1	12.2	10.8	11.2
4	---	---	---	7.8	7.4	7.7	9.3	8.7	9.0	11.3	10.6	10.8
5	---	---	---	8.1	7.7	7.9	9.1	8.5	8.8	11.2	10.7	10.9
6	6.9	6.1	6.6	8.3	7.9	8.1	9.1	8.3	8.7	11.5	10.8	11.0
7	---	---	---	8.6	8.2	8.3	8.8	7.9	8.4	11.8	10.9	11.1
8	7.1	6.8	7.0	8.7	8.4	8.5	8.4	7.9	8.1	11.4	11.0	11.1
9	6.9	6.3	6.7	8.8	8.5	8.7	8.4	7.8	8.1	11.5	10.9	11.0
10	6.8	6.1	6.4	8.9	8.5	8.7	8.4	7.9	8.1	12.4	10.9	11.3
11	6.5	6.0	6.3	9.1	8.9	9.0	8.2	7.9	8.1	11.4	11.0	11.2
12	6.5	6.2	6.3	9.1	8.8	9.0	8.5	8.0	8.3	11.6	10.9	11.1
13	6.8	6.1	6.5	---	---	---	8.5	8.2	8.3	11.8	10.9	11.1
14	6.8	6.4	6.6	---	---	---	8.6	8.2	8.5	11.8	11.1	11.4
15	6.6	6.3	6.4	---	---	---	9.1	8.4	8.6	12.9	11.5	12.0
16	6.6	6.2	6.5	---	---	---	8.8	8.5	8.6	13.0	11.9	12.2
17	6.7	6.1	6.5	9.0	8.7	8.8	9.1	8.4	8.7	12.4	11.9	12.0
18	7.0	6.4	6.8	9.0	8.7	8.8	9.0	8.6	8.8	12.5	11.7	12.0
19	7.0	6.7	6.9	9.0	8.6	8.9	9.4	8.9	9.1	12.5	11.8	12.0
20	7.0	6.6	6.8	9.0	8.6	8.8	9.3	8.8	9.0	12.3	11.9	12.0
21	7.0	6.5	6.8	8.9	8.5	8.8	9.4	8.8	9.1	12.1	11.7	11.9
22	6.8	6.4	6.6	9.0	8.7	8.9	9.5	9.0	9.3	12.0	11.8	11.9
23	7.0	6.6	6.8	9.2	8.9	9.1	9.6	9.2	9.4	12.1	11.6	11.8
24	7.2	6.9	7.0	9.2	8.9	9.0	9.7	9.2	9.4	11.9	11.2	11.6
25	7.2	6.9	7.0	9.4	9.0	9.1	9.7	9.3	9.5	11.6	10.9	11.3
26	7.2	6.9	7.0	9.4	9.0	9.2	10.0	9.4	9.6	11.5	10.8	11.3
27	7.3	7.0	7.2	9.4	9.1	9.2	9.9	9.5	9.7	12.0	11.0	11.5
28	7.3	7.0	7.2	9.3	9.0	9.2	9.9	9.5	9.7	---	---	---
29	7.2	6.6	7.1	9.3	8.6	9.1	10.0	9.5	9.7	---	---	---
30	7.4	6.8	7.2	9.3	8.8	9.0	10.2	9.4	9.8	---	---	---
31	7.5	7.1	7.3	---	---	---	10.2	9.7	10.0	---	---	---
MONTH	7.5	5.5	6.7	9.4	7.2	8.6	10.2	7.8	9.0	13.0	10.0	11.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	10.8	10.2	10.6	9.1	8.4	8.7
2	---	---	---	---	---	---	10.9	10.3	10.6	9.2	8.5	8.9
3	---	---	---	---	---	---	10.9	10.5	10.6	9.2	8.7	8.8
4	---	---	---	---	---	---	10.7	10.2	10.5	9.0	8.2	8.7
5	---	---	---	---	---	---	10.8	9.9	10.5	8.9	8.3	8.6
6	---	---	---	---	---	---	10.9	9.8	10.6	8.8	8.2	8.6
7	---	---	---	---	---	---	10.7	9.7	10.4	8.7	7.7	8.5
8	---	---	---	---	---	---	10.6	10.1	10.3	8.6	7.8	8.4
9	---	---	---	---	---	---	10.4	8.2	10.1	8.7	7.8	8.4
10	---	---	---	---	---	---	10.5	9.6	10.2	9.1	8.0	8.6
11	---	---	---	---	---	---	10.2	9.8	10.1	9.6	8.2	8.9
12	---	---	---	---	---	---	10.6	9.8	10.0	10.1	8.8	9.2
13	---	---	---	---	---	---	10.4	9.5	9.9	9.7	8.4	9.1
14	---	---	---	---	---	---	10.1	9.6	9.9	10.4	8.8	9.5
15	---	---	---	---	---	---	10.0	9.4	9.7	10.2	9.2	9.6
16	---	---	---	---	---	---	10.5	9.0	9.4	9.8	8.6	9.3
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	8.6	7.6	8.0
19	---	---	---	11.2	10.4	10.9	10.4	9.1	9.3	7.8	6.6	7.2
20	---	---	---	11.0	10.4	10.6	9.4	8.8	9.1	6.8	6.3	6.6
21	---	---	---	10.9	10.1	10.4	9.2	8.7	8.9	6.5	6.0	6.3
22	---	---	---	10.6	10.1	10.3	9.1	8.7	8.8	6.0	5.5	5.8
23	---	---	---	10.7	10.3	10.5	8.8	8.4	8.6	---	---	---
24	---	---	---	10.6	10.3	10.4	9.2	8.3	8.6	---	---	---
25	---	---	---	10.4	10.0	10.3	9.1	8.4	8.6	---	---	---
26	---	---	---	10.7	10.2	10.4	8.9	8.4	8.6	---	---	---
27	---	---	---	10.8	10.4	10.6	8.9	8.4	8.6	6.8	5.8	6.2
28	---	---	---	11.0	10.5	10.8	8.9	8.4	8.6	6.9	5.8	6.3
29	---	---	---	11.0	10.7	10.8	8.8	8.3	8.5	7.0	6.0	6.5
30	---	---	---	---	---	---	8.9	8.4	8.6	7.0	6.2	6.6
31	---	---	---	---	---	---	---	---	---	7.1	6.2	6.7
MONTH	---	---	---	11.2	10.0	10.5	10.9	8.2	9.6	10.4	5.5	8.0

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.3	6.4	6.9	6.0	5.3	5.7	---	---	---	6.7	6.1	6.4
2	7.2	6.7	6.9	6.3	5.7	5.9	---	---	---	6.7	6.2	6.4
3	7.4	6.2	6.9	5.9	5.1	5.6	---	---	---	6.6	6.1	6.3
4	7.2	6.7	6.9	5.8	5.2	5.5	---	---	---	6.4	6.0	6.2
5	7.1	6.7	6.9	5.7	5.1	5.5	7.4	5.7	6.1	6.5	6.1	6.3
6	7.0	6.5	6.8	5.8	5.3	5.6	7.0	5.7	6.1	6.5	6.1	6.3
7	6.7	5.6	6.2	5.7	5.2	5.5	7.2	5.7	6.2	6.2	5.8	6.1
8	5.9	5.2	5.6	5.9	5.0	5.4	6.4	5.8	6.0	5.9	5.4	5.7
9	5.6	5.0	5.2	5.8	5.0	5.4	6.7	5.4	5.9	5.7	5.1	5.4
10	5.4	5.1	5.3	5.6	5.0	5.2	6.3	5.6	5.9	5.7	4.7	5.1
11	5.7	5.1	5.3	---	---	---	6.1	5.4	5.8	5.1	4.6	4.9
12	5.2	4.9	5.1	---	---	---	---	---	---	5.1	4.7	4.8
13	5.3	4.7	5.1	---	---	---	---	---	---	5.2	4.8	4.9
14	5.4	5.0	5.2	---	---	---	5.4	4.7	5.1	5.2	4.8	4.9
15	5.2	4.7	5.0	---	---	---	5.6	4.7	5.2	5.1	4.6	4.8
16	5.2	4.8	5.0	---	---	---	5.8	5.2	5.5	6.6	5.0	5.8
17	5.3	4.9	5.1	---	---	---	6.0	5.3	5.6	6.9	5.6	6.1
18	5.2	4.9	5.0	---	---	---	5.8	5.3	5.5	6.5	5.8	6.1
19	5.1	4.8	5.0	---	---	---	6.0	5.1	5.5	6.6	5.9	6.2
20	5.1	4.7	4.9	---	---	---	5.7	5.2	5.5	6.4	5.8	6.0
21	5.1	4.8	4.9	6.4	5.5	5.9	5.6	5.2	5.4	7.3	5.3	6.0
22	5.3	4.9	5.0	5.9	5.2	5.6	5.5	5.0	5.3	7.1	5.7	6.2
23	5.6	4.8	5.1	---	---	---	5.3	4.6	5.0	7.0	6.2	6.5
24	6.0	4.9	5.4	---	---	---	---	---	---	7.2	6.5	6.7
25	6.2	5.3	5.8	---	---	---	---	---	---	6.9	6.4	6.6
26	6.4	5.5	6.0	---	---	---	---	---	---	7.1	6.5	6.7
27	6.4	5.7	6.0	---	---	---	5.8	4.9	5.4	7.0	6.4	6.6
28	6.4	5.8	6.1	6.1	5.3	5.7	5.3	4.7	5.0	6.8	6.1	6.3
29	6.3	5.6	6.0	6.1	5.3	5.8	5.2	4.8	5.0	6.8	6.0	6.3
30	6.3	5.5	5.9	---	---	---	5.9	5.1	5.5	8.3	6.2	6.7
31	---	---	---	---	---	---	6.4	5.8	6.1	---	---	---
MONTH	7.4	4.7	5.7	6.4	5.0	5.6	7.4	4.6	5.6	8.3	4.6	6.0

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
		(00003) (72103)	(00095)	(00400)	(00010)	(00300)
MAY						
12...	0831	0	6150	--	--	--
12...	0832	0	6080	264	7.5	9.2
12...	0833	5	6080	264	7.6	10.0
12...	0834	0	5820	264	7.5	9.8
12...	0835	5	5820	264	7.5	8.8
12...	0836	0	5530	264	7.5	9.7
12...	0837	5	5530	264	7.5	9.4
12...	0838	10	5530	264	7.5	9.4
12...	0839	15	5530	264	7.4	9.1
12...	0840	0	5300	264	7.5	9.9
12...	0841	5	5300	264	7.5	9.4
12...	0842	10	5300	264	7.4	9.2
12...	0843	15	5300	264	7.4	9.2
12...	0844	0	5000	264	7.4	9.1
12...	0845	5	5000	264	7.4	9.0
12...	0846	10	5000	264	7.4	8.9
12...	0847	0	4740	264	7.4	9.1
12...	0848	5	4740	264	7.4	8.9
12...	0849	10	4740	265	7.3	8.5
12...	0850	0	4440	264	7.4	9.0
12...	0851	5	4440	264	7.4	8.9
12...	0852	10	4440	265	7.4	8.9
12...	0853	0	4150	264	7.4	8.9
12...	0854	5	4150	264	7.4	8.9
12...	0855	10	4150	264	7.4	9.0
12...	0856	0	3890	264	7.4	8.9
12...	0857	5	3890	264	7.4	8.9
12...	0858	0	3620	264	7.4	9.0
12...	0859	5	3620	264	7.4	9.0
12...	0900	0	3360	264	7.4	8.9
12...	0901	5	3360	264	7.4	8.9
12...	0902	10	3360	264	7.4	8.9
12...	0903	0	3070	264	7.4	8.9
12...	0904	5	3070	264	7.4	9.0
12...	0905	0	2840	264	7.4	8.9
12...	0906	5	2840	264	7.4	8.9
12...	0907	0	2610	264	7.4	8.8
12...	0908	5	2610	264	7.3	8.8
12...	0909	10	2610	264	7.3	8.8
12...	0910	15	2610	264	7.3	8.7
12...	0911	20	2610	264	7.3	8.6
12...	0912	0	2350	264	7.3	8.8
12...	0913	5	2350	264	7.3	8.7
12...	0914	10	2350	264	7.3	8.6
12...	0915	15	2350	264	7.3	8.6
12...	0916	20	2350	264	7.3	8.6
12...	0917	25	2350	264	7.3	8.6
12...	0918	30	2350	264	7.3	8.6
12...	0919	0	2080	264	7.3	8.8
12...	0920	5	2080	264	7.3	8.7
12...	0921	10	2080	264	7.3	8.7
12...	0922	15	2080	264	7.3	8.6
12...	0923	20	2080	264	7.3	8.5
12...	0924	25	2080	264	7.3	8.5
12...	0925	30	2080	264	7.3	8.5
12...	0926	35	2080	264	7.3	8.5
12...	0927	40	2080	264	7.3	8.5
12...	0928	45	2080	264	7.3	8.6
12...	0929	0	1820	264	7.3	8.8
12...	0930	5	1820	264	7.3	8.7
12...	0931	10	1820	264	7.3	8.7
12...	0932	15	1820	264	7.3	8.5
12...	0933	20	1820	264	7.3	8.4
12...	0934	25	1820	264	7.3	8.3
12...	0935	30	1820	264	7.3	8.3
12...	0936	35	1820	265	7.3	8.4
12...	0937	40	1820	264	7.3	8.4
12...	0938	45	1820	264	7.3	8.4
12...	0939	0	1560	265	7.3	8.6
12...	0940	5	1560	265	7.3	8.6

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY							
12...	0941	10	1560	265	7.3	16.9	8.5
12...	0942	15	1560	265	7.3	16.9	8.4
12...	0943	20	1560	265	7.3	16.9	8.3
12...	0944	25	1560	265	7.3	16.9	8.3
12...	0945	30	1560	265	7.3	16.9	8.2
12...	0946	35	1560	265	7.3	16.9	8.2
12...	0947	40	1560	265	7.3	16.9	8.2
12...	0948	45	1560	265	7.3	16.9	8.4
12...	0949	0	1300	265	7.2	16.9	8.5
12...	0950	5	1300	266	7.2	16.9	8.4
12...	0951	10	1300	265	7.2	16.9	8.3
12...	0952	15	1300	265	7.2	16.9	8.3
12...	0953	20	1300	265	7.3	16.9	8.3
12...	0954	25	1300	265	7.3	16.9	8.2
12...	0955	30	1300	265	7.3	16.9	8.3
12...	0956	35	1300	265	7.3	16.9	8.3
12...	0957	40	1300	265	7.3	16.9	8.3
12...	0958	45	1300	265	7.3	16.9	8.3
12...	0959	0	1100	267	7.2	16.9	8.3
12...	1000	5	1100	267	7.2	16.9	8.2
12...	1001	10	1100	267	7.2	16.9	8.1
12...	1002	15	1100	267	7.2	16.9	8.1
12...	1003	20	1100	267	7.2	16.9	8.0
12...	1004	25	1100	267	7.2	16.9	7.9
12...	1005	30	1100	267	7.2	16.9	8.0
12...	1006	0	740	271	7.2	17.1	8.3
12...	1007	10	740	270	7.2	17.0	8.1
12...	1008	15	740	269	7.2	17.0	8.0
12...	1009	20	740	269	7.2	17.0	7.7
12...	1010	25	740	269	7.2	17.0	7.7
12...	1011	30	740	269	7.2	17.0	7.9
12...	1012	5	740	271	7.2	17.1	8.1
12...	1013	0	280	274	7.2	17.2	8.2
12...	1014	5	280	275	7.2	17.1	8.1
12...	1015	10	280	274	7.2	17.1	8.1
12...	1016	15	280	273	7.2	17.1	8.0
12...	1017	20	280	274	7.2	17.1	7.8
12...	1018	25	280	274	7.2	17.1	7.8
12...	1019	0	100	274	7.2	17.2	8.2
12...	1020	5	100	275	7.2	17.2	8.0
12...	1021	8	100	275	7.2	17.2	7.9
12...	1022	0	50	278	7.3	17.5	8.3
12...	1023	5	50	278	7.2	17.4	8.3