



Water-Data Report 2009

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA

Upper Delaware Basin
Middle Delaware-Musconetcong Subbasin

LOCATION.--Lat 40°13'28", long 74°47'20" referenced to North American Datum of 1983, LOWER MAKEFIELD TWP, Bucks County, PA, Hydrologic Unit 02040105.

DRAINAGE AREA.--6,780 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 2009 to September 2009.

WATER TEMPERATURE: May 2009 to September 2009.

pH: May 2009 to September 2009.

DISSOLVED OXYGEN: May 2009 to September 2009.

INSTRUMENTATION.--In-situ water-quality monitor with electronic data-logger.

REMARKS.--Water temperature record and pH record rated good. Specific conductance record rated good except for period May 13 to June 17, which is fair. Dissolved oxygen record rated good except for Aug 30, which is poor.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Fish and Boat Commission and PPL Corporation, LLC.

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	212	208	210
15	---	---	---	---	---	---	---	---	---	229	207	215
16	---	---	---	---	---	---	---	---	---	216	204	209
17	---	---	---	---	---	---	---	---	---	204	176	192
18	---	---	---	---	---	---	---	---	---	192	160	179
19	---	---	---	---	---	---	---	---	---	160	126	137
20	---	---	---	---	---	---	---	---	---	148	130	139
21	---	---	---	---	---	---	---	---	---	147	138	143
22	---	---	---	---	---	---	---	---	---	156	146	151
23	---	---	---	---	---	---	---	---	---	166	156	161
24	---	---	---	---	---	---	---	---	---	175	163	167
25	---	---	---	---	---	---	---	---	---	184	169	180
26	---	---	---	---	---	---	---	---	---	192	180	184
27	---	---	---	---	---	---	---	---	---	196	186	190
28	---	---	---	---	---	---	---	---	---	207	191	197
29	---	---	---	---	---	---	---	---	---	209	191	196
30	---	---	---	---	---	---	---	---	---	210	184	193
31	---	---	---	---	---	---	---	---	---	190	150	174
Month	---	---	---	---	---	---	---	---	---	229	126	179

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	151	139	144	186	171	177	165	133	144	203	201	202
2	150	138	144	184	175	181	140	92	115	205	200	201
3	160	141	151	190	176	184	143	106	133	207	202	205
4	171	151	161	193	184	191	141	130	132	207	201	204
5	187	164	178	195	189	191	143	134	137	206	203	204
6	193	185	188	190	181	185	158	143	147	207	204	206
7	203	190	195	196	184	189	160	149	154	215	205	209
8	209	197	202	198	190	193	169	160	165	219	215	217
9	220	206	212	200	197	197	174	169	171	225	218	222
10	223	209	215	205	196	199	197	174	184	225	222	224
11	213	179	195	217	205	207	194	161	188	225	213	220
12	183	175	179	210	169	194	161	110	125	219	205	214
13	192	154	176	229	204	217	145	106	117	218	205	212
14	196	146	167	221	203	208	153	138	144	222	215	217
15	200	188	193	213	207	209	152	143	147	227	222	225
16	201	183	190	215	209	212	163	150	157	233	226	230
17	190	174	180	217	212	215	166	158	162	236	233	235
18	183	176	180	224	216	220	170	165	167	234	233	233
19	182	157	174	230	222	227	177	168	171	237	234	235
20	158	136	144	234	219	226	181	172	175	236	233	234
21	144	135	139	226	196	216	180	175	177	238	233	235
22	143	122	133	222	219	220	179	130	158	243	233	237
23	122	120	121	227	213	224	180	158	173	242	234	239
24	130	120	124	223	215	219	182	152	169	237	225	230
25	138	129	133	241	220	235	152	144	148	247	233	241
26	154	138	147	236	226	231	167	150	156	254	247	251
27	159	154	157	231	223	228	182	167	175	255	235	246
28	162	158	159	233	225	229	182	171	177	247	235	243
29	162	157	158	234	225	231	192	172	180	260	247	251
30	171	159	166	235	228	231	195	179	187	253	236	244
31	---	---	---	235	165	217	202	195	199	---	---	---
Month	223	120	167	241	165	210	202	92	159	260	200	226

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	7.6	7.4	7.4
15	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
16	---	---	---	---	---	---	---	---	---	7.7	7.3	7.5
17	---	---	---	---	---	---	---	---	---	7.6	7.4	7.5
18	---	---	---	---	---	---	---	---	---	7.5	7.4	7.4
19	---	---	---	---	---	---	---	---	---	7.4	7.2	7.3
20	---	---	---	---	---	---	---	---	---	7.3	7.2	7.3
21	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
22	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
23	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
24	---	---	---	---	---	---	---	---	---	7.7	7.3	7.4
25	---	---	---	---	---	---	---	---	---	7.6	7.2	7.4
26	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
27	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
28	---	---	---	---	---	---	---	---	---	7.8	7.3	7.5
29	---	---	---	---	---	---	---	---	---	7.9	7.3	7.6
30	---	---	---	---	---	---	---	---	---	7.9	7.5	7.6
31	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6
Max	---	---	---	---	---	---	---	---	---	7.9	7.5	7.6
Min	---	---	---	---	---	---	---	---	---	7.3	7.2	7.3

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PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	7.7	7.4	7.5	7.7	7.4	7.5	7.3	7.2	7.2	7.7	7.5	7.6
2	7.6	7.3	7.4	7.6	7.4	7.5	7.2	7.0	7.1	7.6	7.4	7.5
3	7.6	7.2	7.4	7.7	7.4	7.6	7.4	7.1	7.3	7.6	7.3	7.5
4	7.5	7.3	7.4	7.8	7.5	7.7	7.3	7.3	7.3	7.9	7.3	7.6
5	7.6	7.3	7.5	7.8	7.6	7.7	7.3	7.2	7.2	7.9	7.4	7.6
6	7.8	7.5	7.6	7.9	7.5	7.7	7.3	7.2	7.3	8.1	7.4	7.6
7	7.9	7.4	7.6	8.0	7.5	7.8	7.4	7.3	7.3	8.3	7.4	7.8
8	7.9	7.4	7.7	8.2	7.6	7.9	7.5	7.3	7.3	8.6	7.6	8.0
9	7.7	7.3	7.6	8.3	7.6	8.0	7.4	7.3	7.3	8.7	7.7	8.2
10	8.0	7.4	7.6	8.7	7.6	8.2	7.6	7.3	7.4	9.0	7.8	8.2
11	7.7	7.5	7.6	8.9	7.8	8.5	7.7	7.3	7.5	8.9	7.8	8.2
12	7.8	7.4	7.5	8.7	7.4	8.2	7.5	7.2	7.3	8.2	7.6	7.9
13	7.6	7.3	7.6	8.7	7.8	8.3	7.4	7.1	7.2	8.4	7.7	7.9
14	7.5	7.3	7.4	8.9	7.8	8.4	7.4	7.2	7.4	8.8	7.6	8.0
15	7.5	7.4	7.5	9.2	7.9	8.8	7.3	7.2	7.3	8.9	7.6	8.2
16	7.5	7.4	7.5	9.3	8.0	8.8	7.4	7.3	7.4	8.6	7.6	8.0
17	7.6	7.4	7.5	9.0	8.0	8.8	7.5	7.3	7.4	8.7	7.5	7.8
18	7.5	7.4	7.5	9.0	7.7	8.6	7.5	7.3	7.4	8.9	7.6	8.2
19	7.5	7.5	7.5	9.1	7.8	8.7	7.6	7.3	7.5	9.1	7.8	8.4
20	7.5	7.4	7.4	9.1	7.9	8.8	7.7	7.4	7.5	9.3	7.8	8.8
21	7.5	7.4	7.4	8.8	7.6	8.0	7.7	7.4	7.5	9.2	7.9	9.0
22	7.5	7.4	7.5	8.8	7.4	8.1	7.5	7.2	7.4	9.2	8.0	9.0
23	7.4	7.4	7.4	8.4	7.5	7.7	7.5	7.4	7.5	9.1	7.8	8.8
24	7.4	7.4	7.4	8.1	7.4	7.6	7.5	7.3	7.5	8.8	7.6	8.3
25	7.5	7.4	7.4	8.4	7.4	7.8	7.4	7.3	7.3	8.8	7.5	8.1
26	7.5	7.4	7.4	8.2	7.4	7.7	7.3	7.2	7.3	8.9	7.7	8.4
27	7.7	7.4	7.6	8.0	7.3	7.6	7.4	7.2	7.3	8.6	7.6	7.9
28	7.7	7.5	7.6	8.2	7.3	7.6	7.5	7.3	7.4	8.4	7.5	7.9
29	7.7	7.4	7.6	7.8	7.2	7.4	7.5	7.4	7.4	8.6	7.6	8.0
30	7.7	7.4	7.5	7.8	7.3	7.6	7.5	7.3	7.4	8.6	7.7	8.2
31	---	---	---	7.6	7.3	7.5	7.6	7.4	7.6	---	---	---
Max	8.0	7.5	7.7	9.3	8.0	8.8	7.7	7.4	7.6	9.3	8.0	9.0
Min	7.4	7.2	7.4	7.6	7.2	7.4	7.2	7.0	7.1	7.6	7.3	7.5

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	17.2	16.1	16.6
15	---	---	---	---	---	---	---	---	---	19.0	16.4	17.6
16	---	---	---	---	---	---	---	---	---	19.2	17.7	18.4
17	---	---	---	---	---	---	---	---	---	18.6	16.9	17.8
18	---	---	---	---	---	---	---	---	---	16.9	16.1	16.4
19	---	---	---	---	---	---	---	---	---	16.2	15.0	15.7
20	---	---	---	---	---	---	---	---	---	16.7	14.8	15.8
21	---	---	---	---	---	---	---	---	---	17.7	15.7	16.7
22	---	---	---	---	---	---	---	---	---	18.9	17.0	18.0
23	---	---	---	---	---	---	---	---	---	20.8	18.4	19.6
24	---	---	---	---	---	---	---	---	---	21.8	19.5	20.7
25	---	---	---	---	---	---	---	---	---	22.2	20.3	21.3
26	---	---	---	---	---	---	---	---	---	21.2	17.7	19.2
27	---	---	---	---	---	---	---	---	---	19.2	17.3	18.1
28	---	---	---	---	---	---	---	---	---	19.4	18.0	18.6
29	---	---	---	---	---	---	---	---	---	18.6	17.3	17.9
30	---	---	---	---	---	---	---	---	---	19.8	17.8	18.9
31	---	---	---	---	---	---	---	---	---	19.5	18.2	18.9
Month	---	---	---	---	---	---	---	---	---	22.2	14.8	18.1

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	19.1	17.8	18.5	22.2	20.9	21.5	24.3	23.4	23.9	21.0	19.6	20.4
2	19.8	18.3	19.0	22.3	21.5	21.9	23.8	21.5	22.4	21.2	19.3	20.4
3	20.1	18.8	19.4	22.4	21.4	21.9	22.7	21.4	22.0	21.2	19.5	20.4
4	18.8	17.5	18.1	22.5	21.4	22.0	22.7	21.5	22.2	22.5	20.1	21.3
5	17.5	16.6	17.0	22.2	21.1	21.7	23.4	22.1	22.8	22.8	20.9	22.0
6	18.6	16.5	17.4	23.1	21.1	22.1	23.1	22.2	22.6	22.4	21.1	21.8
7	21.0	18.0	19.6	23.3	21.7	22.6	23.1	21.8	22.5	22.1	20.6	21.3
8	21.9	19.8	21.0	23.1	21.6	22.5	23.6	22.0	22.8	21.6	20.2	20.9
9	21.5	20.3	20.9	22.8	21.3	22.1	23.1	22.4	22.7	21.4	20.4	20.9
10	21.8	20.4	21.0	23.7	20.7	22.4	24.7	22.0	23.4	20.4	19.1	19.6
11	21.3	20.2	20.8	24.4	21.8	23.2	25.2	23.6	24.3	19.1	17.8	18.2
12	21.7	20.0	20.8	23.9	21.1	22.8	24.2	21.5	22.6	18.7	17.9	18.3
13	21.2	20.0	20.9	23.4	21.8	22.8	22.1	21.4	21.7	20.1	18.3	19.1
14	20.2	19.2	19.7	23.9	21.5	22.9	22.9	21.7	22.3	20.8	18.8	19.9
15	20.7	19.5	20.1	24.5	21.4	23.2	23.6	22.0	22.8	21.0	19.1	20.2
16	20.0	19.3	19.8	25.2	22.7	24.0	24.4	22.7	23.6	20.6	19.0	19.7
17	19.3	18.6	19.0	25.6	23.3	24.7	25.2	23.7	24.5	19.1	18.2	18.7
18	18.7	18.1	18.3	25.4	23.3	24.5	25.9	24.0	25.0	19.5	17.9	18.7
19	18.3	17.8	18.1	25.5	22.9	24.4	26.5	24.8	25.6	19.3	17.7	18.7
20	18.2	17.4	17.7	24.9	23.1	24.1	26.7	25.4	26.1	19.3	17.0	18.4
21	17.7	17.2	17.4	24.0	22.4	22.9	26.7	25.5	26.0	20.1	17.6	19.0
22	18.3	17.3	17.8	24.4	21.8	23.3	25.5	23.8	24.3	20.4	18.7	19.7
23	19.0	17.8	18.3	24.1	22.2	23.1	24.7	23.6	24.1	21.3	19.4	20.4
24	19.7	18.4	19.1	23.8	21.6	22.6	24.3	23.4	23.7	22.2	20.5	21.4
25	21.0	19.4	20.1	25.0	21.8	23.6	23.7	22.6	23.2	21.6	19.7	20.5
26	21.9	20.6	21.2	26.0	23.5	24.9	24.3	22.8	23.5	19.7	18.2	18.7
27	22.7	21.3	22.0	26.0	23.8	25.1	23.7	22.6	23.3	19.0	17.9	18.4
28	22.7	21.3	22.0	26.9	24.2	25.7	22.6	21.2	21.8	19.4	17.5	18.6
29	22.3	21.0	21.8	26.4	24.8	25.6	22.1	20.8	21.4	18.6	17.0	17.9
30	22.6	21.3	21.9	26.8	24.4	25.8	22.8	21.4	22.0	17.6	15.9	16.8
31	---	---	---	26.3	24.2	25.4	22.0	20.6	21.3	---	---	---
Month	22.7	16.5	19.6	26.9	20.7	23.4	26.7	20.6	23.2	22.8	15.9	19.7

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	10.4	9.1	9.6
15	---	---	---	---	---	---	---	---	---	10.3	8.8	9.4
16	---	---	---	---	---	---	---	---	---	10.1	8.6	9.3
17	---	---	---	---	---	---	---	---	---	9.6	8.6	9.1
18	---	---	---	---	---	---	---	---	---	9.6	9.0	9.4
19	---	---	---	---	---	---	---	---	---	10.0	9.5	9.8
20	---	---	---	---	---	---	---	---	---	10.4	9.6	9.9
21	---	---	---	---	---	---	---	---	---	9.9	9.2	9.6
22	---	---	---	---	---	---	---	---	---	10.0	8.8	9.4
23	---	---	---	---	---	---	---	---	---	9.8	8.5	9.1
24	---	---	---	---	---	---	---	---	---	9.9	8.0	8.9
25	---	---	---	---	---	---	---	---	---	9.5	7.7	8.5
26	---	---	---	---	---	---	---	---	---	9.4	7.6	8.5
27	---	---	---	---	---	---	---	---	---	10.2	8.2	9.1
28	---	---	---	---	---	---	---	---	---	10.3	8.2	9.2
29	---	---	---	---	---	---	---	---	---	9.7	8.4	8.9
30	---	---	---	---	---	---	---	---	---	9.8	8.2	9.0
31	---	---	---	---	---	---	---	---	---	9.2	8.4	8.8
Month	---	---	---	---	---	---	---	---	---	10.4	7.6	9.2

01463450 DELAWARE RIVER NEAR MORRISVILLE, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.7	8.5	9.1	9.0	8.0	8.4	7.8	7.2	7.5	9.2	8.3	8.7
2	9.6	8.4	9.0	8.4	7.9	8.2	8.2	7.4	7.9	9.1	8.3	8.7
3	9.7	8.3	8.9	8.6	7.9	8.2	8.2	8.0	8.2	9.3	8.0	8.6
4	9.6	8.3	8.9	9.0	8.0	8.5	8.4	8.0	8.2	9.6	8.1	8.8
5	9.4	8.8	9.1	9.3	8.0	8.6	8.0	7.8	7.9	9.4	8.1	8.8
6	9.9	8.8	9.3	9.2	8.0	8.6	8.3	7.7	7.9	9.8	8.1	9.0
7	10.2	8.6	9.4	9.4	7.8	8.7	8.3	7.7	8.0	10.4	8.2	9.3
8	10.1	7.9	9.1	9.7	7.9	8.8	8.7	7.6	8.1	10.9	8.4	9.6
9	9.6	7.8	8.6	10.1	8.0	9.0	8.5	7.6	8.0	10.8	8.5	9.6
10	9.7	7.7	8.6	10.6	8.1	9.4	8.7	7.7	8.1	10.7	8.5	9.7
11	8.6	7.7	8.2	10.9	8.0	9.5	8.6	7.3	7.9	10.3	8.7	9.3
12	9.8	7.9	8.8	9.9	7.6	8.8	8.3	7.8	8.1	9.7	8.3	9.0
13	9.2	8.5	8.9	10.6	7.8	9.2	8.2	7.8	8.0	10.7	8.6	9.5
14	8.8	8.2	8.5	11.2	7.9	9.6	8.2	7.9	8.1	11.6	8.5	9.9
15	8.7	8.1	8.4	11.6	8.1	9.9	8.3	7.8	8.0	11.8	8.3	10.1
16	8.9	8.3	8.6	11.5	8.0	9.8	8.3	7.7	8.0	10.3	8.0	9.3
17	9.2	8.6	8.8	11.5	7.8	9.8	8.3	7.5	7.8	12.2	7.9	10.1
18	9.0	8.6	8.9	11.7	7.2	9.6	8.4	7.4	7.9	11.8	7.9	10.4
19	9.2	8.9	9.1	11.9	7.6	9.9	8.5	7.3	7.9	12.1	8.5	10.6
20	9.3	9.2	9.3	11.6	7.6	9.8	8.7	7.4	8.0	12.9	7.9	11.1
21	9.4	9.2	9.3	9.9	7.4	8.3	8.5	7.4	7.9	12.6	9.1	10.9
22	9.5	9.3	9.4	11.5	6.8	9.2	7.9	7.3	7.5	12.8	8.7	10.8
23	9.3	9.1	9.3	9.0	6.9	7.8	8.0	7.4	7.8	12.6	8.5	10.7
24	9.2	8.8	9.1	9.4	6.7	8.0	8.3	7.7	8.0	11.6	7.9	9.8
25	9.2	8.5	8.9	11.1	6.9	9.0	8.5	7.9	8.1	11.6	7.5	9.6
26	9.0	8.2	8.6	10.4	6.8	8.6	8.0	7.5	7.9	12.2	8.3	10.3
27	9.0	8.0	8.5	9.5	6.5	7.9	8.6	7.6	8.1	10.6	8.2	9.4
28	9.0	8.1	8.5	10.2	6.4	8.2	8.4	7.6	8.1	11.0	7.8	9.3
29	8.9	8.0	8.4	9.3	6.2	7.5	8.5	8.0	8.3	11.8	7.9	9.7
30	9.1	8.0	8.4	9.3	6.1	7.8	8.3	7.0	7.9	11.2	8.4	9.9
31	---	---	---	7.5	6.6	7.1	8.8	7.9	8.3	---	---	---
Month	10.2	7.7	8.9	11.9	6.1	8.8	8.8	7.0	8.0	12.9	7.5	9.7