



Water-Data Report 2010

01400500 RARITAN RIVER AT MANVILLE, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°33'20", long 74°34'58" referenced to North American Datum of 1983, Bridgewater Township, Somerset County, NJ, Hydrologic Unit 02030105, on left bank at downstream side of bridge on North Main Street (Finderne Avenue) at Manville, and 1.4 mi upstream from Millstone River.

DRAINAGE AREA.--490 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1903 to March 1907 (published as "at Finderne"), August 1908 to April 1915 (gage heights only, published in WSP 521), August 1921 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 1552: 1904, 1906, 1922, 1923(M), 1924-25, 1926-29(M), 1930, 1932-33(M), 1924-54. WDR NJ-75-1: 1964(M), 1969(M), 1970(P), 1971(P), 1972(P), 1973(P), WDR NJ-02-1: 2000(M).

GAGE.--Water-stage recorder. Datum of gage is 20.61 ft above NGVD of 1929. Prior to Aug 15, 1923, non-recording gage on downstream side of highway bridge at same site and datum. From Oct 1, 1952 to Sep 30, 1966, water-stage recorder at station at Bound Brook, above Calco Dam (station 01403000) used as auxiliary gage when stage was above 5.50 ft. On Oct 1, 1966, water-stage recorder at station at Bound Brook, used as auxiliary gage, was moved downstream to present site (station 01403060). Between Jun 9, 1978 and Jun 7, 1979, gage temporarily relocated at site 1.4 mi downstream, just upstream from Millstone River, because of reconstruction of highway bridge. Between Oct 1, 2006 and Mar 09, 2008, gage temporarily relocated at site 0.4 mi downstream, just upstream of an abandoned railroad bridge, because of reconstruction of highway bridge.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Records given herein represent flow at gage only. Slight diurnal fluctuation at low flow. Flow regulated by Spruce Run (see 01396790) and Round Valley (see 01397050) Reservoirs. Diversion to Round Valley Reservoir (see 01396920) since March 1966. Prior to Sep 1, 1986, Johns-Manville Corporation diverted water 1,500 ft upstream from station by and returned to river 0.6 mi downstream from gage. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	2200	13,400	13.87
Dec 27	1045	14,300	14.44
Jan 26	0145	14,000	13.54
Mar 14	0845	*28,900	*21.54
Mar 31	0215	14,000	14.75

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01400500 RARITAN RIVER AT MANVILLE, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	292	908	395	1,150	921	1,200	3,640	686	403	336	430	381
2	264	782	380	1,120	e745	1,830	2,500	644	411	344	499	353
3	284	662	2,980	e905	701	2,070	1,930	2,650	356	348	402	383
4	294	595	1,370	e830	689	2,160	1,640	1,810	327	368	375	423
5	258	555	873	e800	648	1,900	1,470	1,060	303	363	368	394
6	235	522	1,180	e715	662	1,570	1,340	892	297	358	382	363
7	233	484	879	e660	e620	1,420	1,260	786	299	406	373	338
8	230	468	767	e635	e640	1,440	1,160	705	282	417	380	389
9	221	451	6,520	e585	e620	1,440	1,260	686	300	472	384	394
10	255	436	5,690	e510	e600	1,320	1,070	589	514	524	384	381
11	278	384	1,900	e570	e700	1,200	935	551	392	591	390	385
12	260	357	1,160	e595	e655	1,200	885	849	316	389	396	408
13	251	346	1,730	e545	e600	5,240	834	782	358	640	383	434
14	253	372	3,860	e530	e570	22,200	809	631	1,040	1,670	371	425
15	305	380	1,770	e510	540	9,560	771	610	551	1,480	384	408
16	496	358	1,360	511	562	4,670	753	546	381	488	438	391
17	423	334	1,120	614	540	3,020	956	488	e550	363	411	451
18	404	332	976	1,440	499	2,240	813	653	e430	296	360	319
19	325	331	903	906	505	1,840	714	1,030	e310	329	338	309
20	293	711	865	686	576	1,550	644	646	e305	412	341	299
21	283	621	e850	599	620	1,370	614	546	e305	369	376	296
22	270	449	782	557	644	1,420	602	498	305	476	602	313
23	250	403	720	524	1,080	6,730	568	471	384	355	615	420
24	712	401	633	499	4,000	2,860	537	475	336	365	458	340
25	3,870	395	611	4,750	3,280	1,960	e895	455	305	366	312	303
26	977	418	3,280	7,170	2,290	1,720	e2,270	431	284	421	296	301
27	1,220	405	10,800	1,960	1,420	1,430	1,870	421	317	325	280	321
28	4,520	371	3,500	1,400	1,150	1,280	1,100	578	324	319	303	301
29	2,810	343	1,940	1,140	---	5,630	882	467	348	477	292	286
30	1,250	352	1,280	e1,000	---	6,660	754	413	367	542	320	485
31	933	---	1,160	929	---	9,220	---	380	---	369	348	---
Total	22,949	13,926	62,234	35,345	27,077	109,350	35,476	22,429	11,400	14,978	11,991	10,994
Mean	740	464	2,008	1,140	967	3,527	1,183	724	380	483	387	366
Max	4,520	908	10,800	7,170	4,000	22,200	3,640	2,650	1,040	1,670	615	485
Min	221	331	380	499	499	1,200	537	380	282	296	280	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2010, BY WATER YEAR (WY)

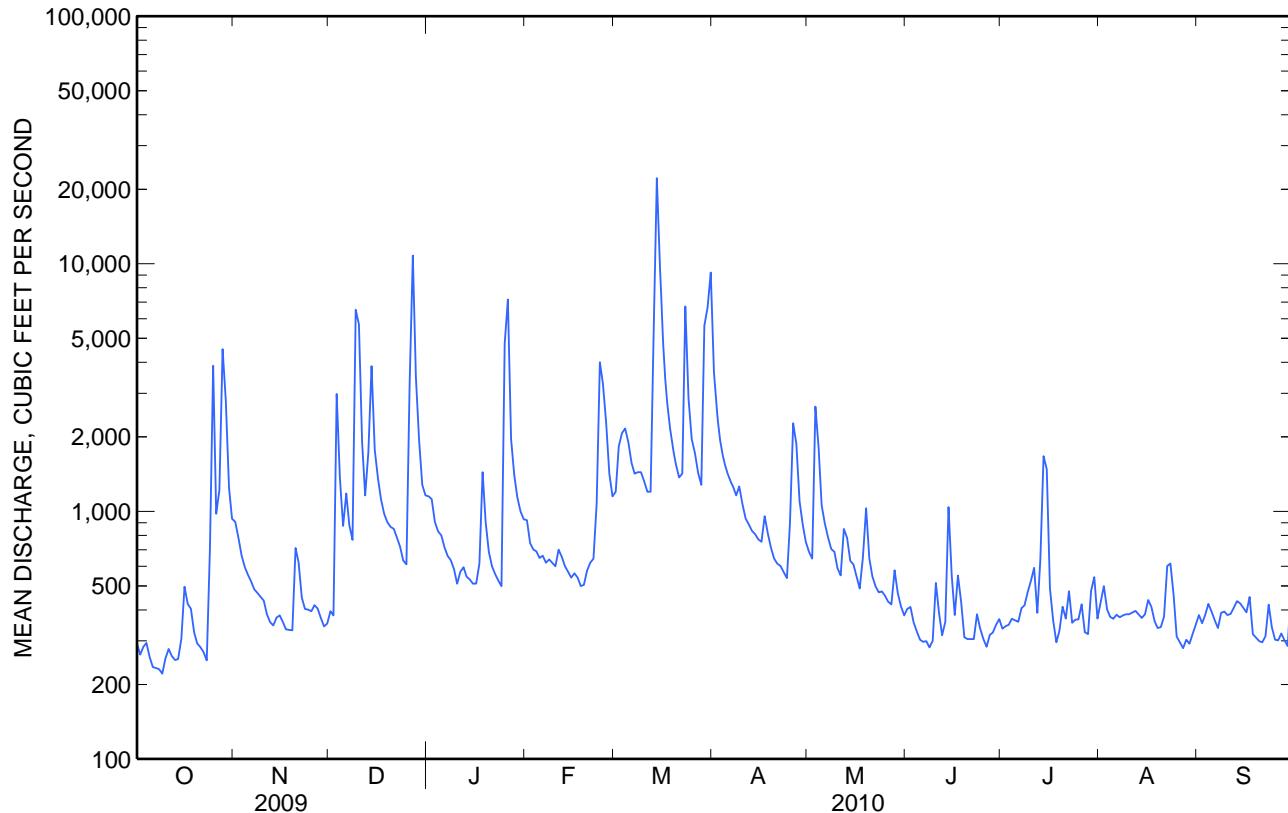
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	493	685	931	1,004	1,059	1,366	1,159	792	556	486	471	477
Max	2,433	2,460	2,877	3,856	2,406	3,527	3,507	2,707	2,581	2,542	2,552	2,068
(WY)	(1904)	(1933)	(1997)	(1979)	(1925)	(2010)	(1983)	(1989)	(1972)	(1975)	(1955)	(1971)
Min	64.8	87.5	148	188	216	354	259	212	88.8	65.1	50.5	51.2
(WY)	(1942)	(1932)	(1966)	(1966)	(2002)	(1981)	(1985)	(1926)	(1965)	(1955)	(1932)	(1941)

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2009		Water Year 2010		Water Years 1904 - 2010	
Annual total	302,433		378,149			
Annual mean	829		1,036		789	
Highest annual mean					1,365	1984
Lowest annual mean					309	1965
Highest daily mean	10,800	Dec 27	22,200	Mar 14	30,700	Sep 17, 1999
Lowest daily mean	219	Sep 26	221	Oct 9	^a 17	Sep 19, 1964
Annual seven-day minimum	236	Sep 20	244	Oct 5	29	Aug 27, 1944
Maximum peak flow			b28,900	Mar 14	b77,600	Sep 16, 1999
Maximum peak stage			21.57	Mar 14	27.49	Sep 17, 1999
Instantaneous low flow			204	Oct 8	17	Sep 19, 1964
10 percent exceeds	1,400		1,910		1,600	
50 percent exceeds	528		545		448	
90 percent exceeds	307		305		150	

^a Does not include water diverted to former Johns-Manville Corporation plant.

^b From rating curve extended above 14,000 ft³/s on basis of slope-area measurements at gage heights 14.9, 20.42, and 27.49 ft.



01400500 RARITAN RIVER AT MANVILLE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923-25, 1959-74, 1976-97, 2008 to current year.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: August-September 2003, April 2008 to current year.

DISSOLVED OXYGEN, PERCENT OF SATURATION: August-September 2003, April 2008 to current year.

pH: August-September 2003, April 2008 to current year.

SPECIFIC CONDUCTANCE: August-September 2003, April 2008 to current year.

WATER TEMPERATURE: August-September 2003, April 2008 to current year.

TURBIDITY: April 2008 to current year.

INSTRUMENTATION.--Water-quality monitor since April 2008. Flow tank, pumping system; data recorded semi-hourly.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+ or -); Turbidity, 0.5 FNU fouling, and the greater of 2.0 FNU (+ or -) or 5% of the measured value for drift. If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - TEMPERATURE: Most periods, variable by season. PH: Jan 19 - Feb 18, Apr 23 - May 14; SPECIFIC CONDUCTANCE: Jan 04 - Jan 19; TURBIDITY: Oct 22 - Nov 20, Dec 10 - Jan 04, May 14 - Jul 22.

COOPERATION.--Continuous records collected in cooperation with the New Jersey Water Supply Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum, 18.2 mg/L, Mar 4, 2009; minimum, 5.3 mg/L Jun 11, 2008.

DISSOLVED OXYGEN, PERCENT OF SATURATION: Maximum, 165%, Jun 20, 2010; minimum, 66%, Jun 11, 2008.

pH: Maximum, 9.5 standard units, Mar 1, 2, 2009; minimum, 6.8 standard units, Dec 12, 13, 2008, and Dec 27, 2009.

SPECIFIC CONDUCTANCE: Maximum, 1,820 microsiemens/cm, Jan 28, 2009; minimum, 105 microsiemens/cm, Dec 12, 2008.

WATER TEMPERATURE: Maximum, 31.2°C, Jul 07, 2010; minimum, -0.2°C, on several days during Jan-Feb 2009.

TURBIDITY: Maximum, 1,200 FNU, Mar 30, 2009; minimum, 0.2 FNU, Aug 11, 12, 2009.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum, 15.2 mg/L, Feb 21, 22; minimum, 5.9 mg/L, Jun 21, 29.

DISSOLVED OXYGEN: Maximum, 165%, Jun 20; minimum, 72%, Jun 21.

pH: Maximum, 9.4 standard units, Apr 20, 21, 22, 23, 24; minimum, 6.8 standard units, Dec 27.

SPECIFIC CONDUCTANCE: Maximum, 904 microsiemens/cm, Feb 23; minimum, 117 microsiemens/cm, Mar 14.

WATER TEMPERATURE: Maximum, 31.2°C, Jul 7; minimum, -0.1°C, Feb 11.

TURBIDITY: Maximum, 670 FNU, Jan 25; minimum, 0.9 FNU, Oct 12, 13, 14.

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	12.4	9.0	10.4	9.9	9.3	9.5	14.6	11.1	12.5	13.5	12.9	13.2	
2	12.9	9.4	10.8	10.6	9.9	10.2	15.1	11.9	13.2	13.4	12.7	13.0	
3	12.8	9.3	10.7	10.9	10.3	10.5	11.9	10.1	10.7	14.0	13.4	13.8	
4	12.5	8.8	10.3	11.2	10.5	10.8	11.2	10.3	10.8	14.1	13.8	13.9	
5	12.4	8.4	10.1	11.3	10.8	11.0	11.6	11.2	11.3	14.0	13.8	13.9	
6	12.7	8.6	10.4	11.6	10.8	11.2	12.5	11.6	12.2	13.9	13.6	13.8	
7	11.9	8.5	10	12.1	11.2	11.6	13.0	12.5	12.7	13.9	13.6	13.8	
8	12.7	8.6	10.4	12.1	11.4	11.7	13.2	12.6	12.8	13.8	13.5	13.6	
9	12.2	8.4	10	12.0	11.1	11.5	12.7	11.4	12.0	14.2	13.6	13.9	
10	11.6	8.2	9.7	11.6	10.7	11.1	---	---	---	14.3	14.0	14.1	
11	12.2	8.6	10.2	11.6	10.6	10.9	13.3	12.1	12.8	14.3	14.0	14.1	
12	12.6	9.2	10.7	11.9	10.6	11.1	13.7	13.3	13.5	14.2	13.9	14.0	
13	12.3	9.6	10.8	12.0	10.7	11.3	13.5	13.0	13.4	14.3	14.0	14.1	
14	12.9	9.8	11.2	11.8	10.4	11.0	13.0	12.5	12.9	14.3	14.0	14.1	
15	11.6	9.9	10.7	12.2	10.1	10.9	12.5	12.1	12.2	14.3	13.9	14.0	
16	12.1	10.3	11.2	12.3	9.8	10.9	12.8	12.0	12.4	14.2	13.7	13.9	
17	12.4	10.9	11.5	13.4	10.1	11.5	13.4	12.8	13.1	13.8	13.1	13.5	
18	12.7	10.9	11.6	13.9	10.6	12.0	13.8	13.4	13.6	13.3	12.7	13.0	
19	13.4	10.9	11.9	13.4	10.7	11.7	13.6	13.4	13.5	12.9	12.6	12.8	
20	13.5	10.9	12.0	11.9	9.8	10.7	13.8	13.5	13.7	13.3	12.8	13.0	
21	13.5	10.6	11.7	12.3	10.2	11.1	13.8	13.7	13.8	13.8	13.1	13.4	
22	12.9	10.0	11.2	13.6	10.9	11.9	13.9	13.6	13.7	13.9	13.3	13.5	
23	11.1	9.3	10.1	13.2	11.2	11.9	14.0	13.6	13.8	14.1	13.3	13.6	
24	10.1	8.6	9.4	14.0	11.1	12.1	14.2	13.9	14.0	14.0	13.5	13.7	
25	9.1	7.9	8.5	11.7	10.4	11.0	14.1	13.6	13.9	13.5	10.9	12.1	
26	9.8	9.1	9.6	13.3	10.3	11.4	13.6	12.4	13.1	12.0	10.9	11.5	
27	10.1	9.8	9.9	13.1	10.4	11.4	12.4	11.5	11.7	12.9	11.9	12.5	
28	10.0	9.4	9.7	14.0	10.7	12.1	12.5	11.8	12.2	13.2	12.8	13.0	
29	9.9	9.4	9.7	14.6	11.3	12.6	13.8	12.5	13.2	14.1	13.2	13.7	
30	10.0	9.7	9.9	12.4	11.1	11.7	14.1	13.8	14.0	14.2	14.1	14.1	
31	9.9	9.4	9.7	---	---	---	14.0	13.5	13.8	14.1	14.0	14.1	
Month	13.5	7.9	10.5	14.6	9.3	11.3	---	---	---	14.3	10.9	13.5	

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	14.2	14.0	14.1	14.4	12.6	13.4	11.3	10.7	11.0	12.1	8.9	10.3
2	14.2	14.0	14.1	13.8	12.3	13.1	11.0	10.4	10.7	11.5	8.1	9.6
3	14.1	13.7	13.9	13.4	12.1	12.8	10.8	10.2	10.4	8.5	7.1	7.6
4	14.1	13.6	13.8	14.1	12.3	13.1	10.7	10.0	10.3	8.4	7.8	8.1
5	14.1	13.6	13.8	14.4	12.2	13.2	10.8	9.8	10.3	9.1	8.0	8.5
6	14.0	13.5	13.8	14.9	12.2	13.5	10.7	9.6	10.1	9.0	8.0	8.5
7	14.3	14.0	14.1	15.1	12.1	13.5	10.8	9.3	10	9.3	8.2	8.7
8	14.4	14.0	14.2	15.0	11.8	13.4	11.1	8.9	9.9	9.2	8.2	8.6
9	14.5	13.9	14.2	15.0	11.5	13.3	10.3	8.4	9.5	10.0	8.6	9.3
10	13.9	13.4	13.7	15.0	11.4	13.3	12.3	9.6	10.8	10.6	9.4	10
11	14.2	13.4	13.8	15.1	11.5	13.3	12.9	9.9	11.3	10.7	9.6	10.1
12	14.4	13.9	14.1	12.9	10.9	11.7	13.1	9.6	11.3	10.2	9.8	10.1
13	14.5	13.8	14.1	11.6	11.0	11.4	12.5	9.7	11.0	11.1	10.0	10.6
14	14.5	13.8	14.1	11.0	10.9	10.9	14.2	10.3	12.1	10.5	9.2	9.8
15	14.6	13.6	14.0	11.4	10.9	11.1	14.0	10.1	11.9	10.1	8.7	9.3
16	14.2	13.2	13.6	11.8	11.3	11.6	13.6	9.6	11.3	10.2	8.4	9.2
17	14.6	13.3	13.9	11.9	11.2	11.5	11.1	9.4	10.3	10.2	8.4	9.2
18	14.9	13.3	14.0	11.8	11.1	11.4	13.5	9.8	11.6	9.5	8.7	9.1
19	14.9	13.3	13.9	11.7	10.9	11.3	14.4	10.4	12.3	9.8	9.4	9.6
20	15.0	12.9	13.8	11.7	10.7	11.1	14.8	10.1	12.2	10.4	9.0	9.8
21	15.2	13.1	14.0	11.7	10.5	11.0	13.8	9.7	11.5	10.0	8.5	9.2
22	15.2	13.0	14.0	10.8	10.2	10.6	13.8	9.5	11.4	10.0	8.1	8.9
23	13.8	12.9	13.3	10.5	9.8	10.0	13.4	9.2	11.1	9.4	7.9	8.6
24	13.2	12.7	12.9	11.1	10.3	10.7	13.2	9.2	11.0	10.1	8.2	9.0
25	12.9	12.6	12.7	11.5	10.7	11.1	9.9	8.9	9.4	10.4	8.1	9.1
26	13.6	12.7	13.2	11.2	10.6	10.9	9.8	9.3	9.6	10.3	7.5	8.7
27	14.0	12.9	13.4	12.1	11.0	11.5	10.2	9.8	9.9	10.0	6.9	8.2
28	14.1	12.6	13.3	12.2	11.5	11.8	11.2	9.8	10.5	9.2	7.0	8.1
29	---	---	---	11.8	10.6	10.9	12.0	10.4	11.1	10.3	7.6	8.7
30	---	---	---	11.0	10.7	10.8	12.1	9.6	10.7	10.7	7.5	8.9
31	---	---	---	11.1	10.7	10.9	---	---	---	10.6	7.1	8.6
Month	15.2	12.6	13.8	15.1	9.8	11.9	14.8	8.4	10.8	12.1	6.9	9.1

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	10.4	6.5	7.8	10.3	6.9	8.5	9.2	7.1	8.0	10.0	7.0	8.4
2	10.1	6.5	8.0	10.8	7.3	8.9	9.2	7.4	8.2	10.1	6.8	8.3
3	10.4	6.5	8.2	10.9	7.4	9.0	9.8	7.3	8.3	9.6	6.6	8.0
4	10.7	6.3	8.2	10.7	7.1	8.7	9.7	7.0	8.3	9.9	7.0	8.3
5	10.9	6.0	8.1	10.6	6.7	8.5	9.8	6.6	8.1	10.4	7.5	8.8
6	10.3	6.0	8.0	10.3	6.4	8.1	9.8	6.3	8.0	10.8	7.8	9.2
7	10.9	6.3	8.5	10.1	6.1	7.8	10.1	6.6	8.2	10.9	7.8	9.1
8	11.9	6.9	9.2	8.8	6.1	7.4	10.0	6.8	8.2	10.3	7.3	8.7
9	9.8	7.2	8.5	9.0	6.5	7.6	9.9	6.8	8.3	10.1	7.3	8.7
10	10.4	7.7	8.9	8.4	6.4	7.3	9.9	6.5	8.0	10.9	7.9	9.2
11	11.5	8.0	9.6	9.6	6.9	8.0	9.9	6.5	8.0	11.1	8.1	9.4
12	12.1	7.7	9.6	9.7	6.4	7.9	8.1	6.3	7.2	9.5	7.9	8.5
13	11.7	7.0	8.7	7.9	6.6	7.3	10.0	6.6	8.1	11.0	8.0	9.2
14	8.0	7.1	7.5	7.4	6.8	7.1	10.2	7.0	8.5	10.8	7.8	9.1
15	10.3	7.2	8.5	7.7	7.2	7.4	8.8	7.1	7.9	11.2	7.9	9.3
16	10.3	7.1	8.3	8.1	6.8	7.4	9.6	7.2	8.2	11.2	8.1	9.3
17	---	---	---	8.3	6.4	7.2	10.0	7.2	8.4	10.9	7.8	9.1
18	---	---	---	8.6	6.3	7.3	9.7	6.9	8.0	11.5	7.6	9.2
19	12.6	6.9	9.5	8.6	6.2	7.3	10.1	7.0	8.4	12.1	7.9	9.6
20	12.7	6.3	9.1	8.7	6.5	7.5	10.0	6.9	8.3	11.8	7.6	9.4
21	11.8	5.9	8.6	9.5	6.5	7.8	10.0	7.0	8.4	12.1	7.7	9.6
22	12.0	6.1	8.5	9.0	6.5	7.6	8.7	7.1	7.6	12.3	7.9	9.7
23	10.9	6.2	8.3	9.4	6.7	7.9	8.1	6.9	7.4	11.2	7.3	9.0
24	10.6	6.3	8.2	9.6	6.7	8.0	9.1	7.4	8.1	11.6	7.0	8.7
25	10.8	6.2	8.3	9.4	6.4	7.5	9.8	7.5	8.5	11.9	6.8	8.9
26	10.7	6.2	8.2	9.7	6.6	8.0	10.0	7.5	8.6	10.8	6.8	8.4
27	10.1	6.2	7.9	10.2	6.9	8.4	10.1	7.4	8.6	9.8	7.3	8.3
28	9.7	6.1	7.6	10.0	6.8	8.2	10.3	7.5	8.7	10.9	7.2	8.7
29	9.4	5.9	7.7	9.4	6.9	8.0	10.3	7.5	8.7	11.6	7.1	9.0
30	10.2	6.5	8.2	9.8	7.0	8.2	10.2	7.3	8.6	8.3	7.4	7.8
31	---	---	---	10.1	7.1	8.5	10.2	7.1	8.5	---	---	---
Month	---	---	---	10.9	6.1	7.9	10.3	6.3	8.2	12.3	6.6	8.9

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	125	88	104	95	90	92	121	90	102	99	96	97	
2	128	89	105	99	92	95	122	95	106	97	94	96	
3	131	91	107	101	93	96	99	89	92	97	94	96	
4	134	88	107	101	93	97	95	91	93	97	95	96	
5	132	84	105	101	95	97	95	93	94	96	95	96	
6	134	85	106	102	93	97	99	94	96	97	94	95	
7	126	86	102	104	95	99	101	96	98	97	94	95	
8	133	84	105	106	96	100	103	96	99	97	94	95	
9	127	84	102	107	96	100	99	89	94	98	94	96	
10	121	84	99	104	95	99	---	---	---	99	96	97	
11	125	84	102	105	94	98	97	93	95	99	96	97	
12	122	87	103	105	93	97	100	96	98	100	96	97	
13	120	90	102	106	94	98	98	94	97	100	96	97	
14	122	89	105	108	93	99	98	94	96	101	96	97	
15	105	90	97	118	93	102	97	96	97	100	96	97	
16	105	91	98	118	92	103	98	95	97	102	95	97	
17	110	94	100	125	92	106	99	96	97	97	93	95	
18	112	94	102	127	93	108	99	96	97	96	93	95	
19	121	93	105	122	95	106	97	93	95	96	93	95	
20	124	93	106	111	91	99	97	94	95	99	93	96	
21	127	93	107	112	91	100	98	95	96	101	94	97	
22	125	90	104	120	94	104	99	95	97	102	95	98	
23	104	87	94	114	96	103	99	95	97	103	95	98	
24	98	84	90	125	96	106	100	96	97	100	96	97	
25	89	78	84	104	92	98	100	97	98	97	87	94	
26	93	87	90	120	91	102	98	95	96	93	86	90	
27	93	91	92	117	93	101	95	91	92	96	92	94	
28	92	89	90	122	91	103	96	92	94	98	94	96	
29	95	89	92	125	93	106	97	94	95	98	94	96	
30	96	92	94	104	91	98	99	96	98	98	97	97	
31	95	92	93	---	---	---	99	96	98	99	97	97	
Month	134	78	100	127	90	100	---	---	---	103	86	96	

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	100	97	98	113	95	103	103	95	98	131	90	108
2	99	97	98	106	94	101	104	95	99	130	87	106
3	101	96	97	104	93	99	104	95	100	95	80	84
4	102	95	98	111	94	102	105	95	100	92	85	88
5	101	96	98	114	94	104	107	94	101	100	85	92
6	97	94	96	118	94	106	108	94	101	99	86	92
7	101	96	98	122	94	108	112	93	102	102	87	94
8	102	96	98	123	94	109	118	92	104	100	87	92
9	103	96	99	125	94	110	106	88	98	102	87	94
10	96	92	94	125	94	110	121	92	105	108	91	98
11	101	92	96	129	95	112	128	95	111	105	92	98
12	102	96	98	111	93	100	132	94	112	95	92	94
13	102	95	97	96	91	94	122	95	107	109	92	100
14	104	95	98	91	90	90	139	96	116	111	93	100
15	106	94	99	94	90	92	140	97	116	111	91	100
16	104	95	99	100	94	97	137	94	111	114	89	100
17	107	94	100	102	95	98	108	92	100	111	89	99
18	109	96	101	103	94	99	128	91	109	96	90	93
19	114	97	104	104	94	99	139	96	116	98	91	94
20	116	96	105	107	94	100	149	95	119	112	94	101
21	117	98	106	109	95	101	140	94	114	114	91	101
22	115	97	105	101	94	97	144	93	115	116	89	100
23	102	96	99	96	89	91	141	91	113	105	87	95
24	97	92	95	101	92	96	139	91	112	113	89	99
25	95	93	94	102	94	98	100	88	92	122	90	104
26	98	90	94	101	94	98	91	87	89	127	86	103
27	104	93	98	104	95	100	97	90	93	124	82	99
28	107	94	101	102	96	99	104	90	97	108	81	94
29	---	---	---	100	92	94	115	93	103	122	87	101
30	---	---	---	94	90	93	124	92	106	131	86	105
31	---	---	---	98	89	93	---	---	---	134	83	105
Month	117	90	99	129	89	100	149	87	105	134	80	98

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	132	79	96	128	81	103	115	86	97	127	84	104
2	129	78	99	133	84	106	113	88	99	130	82	103
3	135	79	103	137	85	109	122	87	101	120	81	98
4	140	77	105	138	84	108	123	85	103	121	83	100
5	143	75	104	140	82	108	129	82	103	123	85	102
6	134	75	101	138	80	106	128	79	102	128	86	105
7	136	75	103	137	78	103	129	80	103	131	87	106
8	146	79	109	114	78	94	127	83	101	126	85	103
9	112	81	96	116	81	96	128	83	105	116	83	99
10	119	84	99	106	80	91	129	81	102	124	87	102
11	135	88	109	123	84	100	131	81	103	128	87	105
12	146	87	112	125	78	99	102	79	90	106	87	94
13	144	82	105	99	81	90	125	80	99	126	87	102
14	95	83	88	90	83	87	127	83	103	125	86	102
15	126	84	101	94	85	89	105	84	94	128	86	104
16	124	83	98	105	84	92	117	84	97	125	87	102
17	---	---	---	110	80	93	126	86	103	126	85	102
18	---	---	---	115	79	95	120	83	98	132	83	103
19	160	80	116	115	79	95	128	83	103	140	85	108
20	165	76	114	115	83	97	128	83	103	138	83	106
21	154	72	110	127	82	100	124	83	102	139	83	107
22	157	75	108	118	82	98	106	85	92	143	85	109
23	141	76	105	122	84	100	95	81	87	131	81	103
24	138	78	104	129	85	105	105	84	93	139	80	102
25	141	76	105	127	82	98	114	84	96	145	78	106
26	141	76	104	127	82	102	120	84	100	125	78	97
27	133	77	101	134	84	106	123	83	101	110	81	93
28	128	77	98	130	83	104	125	85	102	125	80	98
29	124	74	98	122	86	101	127	85	103	133	79	102
30	131	79	102	125	86	102	128	85	104	93	83	88
31	---	---	---	129	86	105	129	84	104	---	---	---
Month	---	---	---	140	78	99	131	79	100	145	78	102

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01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
October				November				December				January	
1	8.5	7.7	8.0	7.6	7.4	7.5	8.8	7.8	8.1	7.2	7.2	7.2	
2	8.5	7.7	7.9	7.6	7.6	7.6	8.9	8.0	8.3	7.5	7.2	7.3	
3	8.4	7.7	7.9	7.7	7.6	7.6	8.0	7.3	7.4	7.6	7.5	7.6	
4	8.5	7.6	7.9	7.7	7.6	7.6	7.6	7.4	7.5	---	---	---	
5	8.5	7.6	7.9	7.8	7.6	7.7	7.7	7.6	7.6	---	---	---	
6	8.5	7.7	8.0	7.8	7.7	7.8	7.8	7.7	7.8	7.6	7.5	7.5	
7	8.5	7.6	7.9	7.9	7.7	7.8	7.8	7.8	7.8	7.6	7.5	7.6	
8	8.5	7.7	8.0	7.8	7.6	7.8	7.9	7.8	7.8	7.6	7.5	7.6	
9	8.3	7.6	7.8	7.8	7.6	7.7	7.9	7.2	7.5	7.6	7.5	7.6	
10	8.2	7.5	7.8	7.8	7.6	7.7	---	---	---	7.6	7.5	7.5	
11	8.3	7.6	7.9	7.8	7.6	7.7	7.6	7.4	7.5	7.6	7.5	7.6	
12	8.4	7.7	7.9	8.0	7.7	7.8	7.5	7.4	7.5	7.6	7.5	7.6	
13	8.3	7.7	7.9	8.0	7.8	7.8	7.4	7.2	7.3	7.6	7.5	7.6	
14	8.4	7.7	8.0	8.0	7.7	7.8	7.2	7.1	7.2	7.6	7.6	7.6	
15	8.0	7.7	7.8	8.1	7.7	7.8	7.2	7.1	7.2	7.6	7.5	7.6	
16	8.0	7.8	7.9	8.3	7.7	7.9	7.3	7.2	7.3	7.6	7.6	7.6	
17	8.2	7.8	7.9	8.6	7.7	8.1	7.4	7.3	7.3	7.6	7.5	7.6	
18	8.2	7.8	7.9	8.7	7.8	8.2	7.4	7.3	7.3	7.6	7.5	7.5	
19	8.3	7.8	8.0	8.6	7.9	8.1	7.4	7.3	7.3	7.7	7.5	7.6	
20	8.4	7.8	7.9	8.2	7.7	7.9	7.4	7.3	7.3	7.8	7.7	7.7	
21	8.3	7.7	7.9	8.1	7.7	7.8	7.3	7.2	7.3	7.8	7.7	7.8	
22	8.3	7.7	7.9	8.5	7.8	7.9	7.3	7.2	7.2	7.8	7.7	7.8	
23	7.9	7.6	7.8	8.4	7.8	8.0	7.3	7.2	7.2	7.9	7.7	7.8	
24	7.7	7.4	7.6	8.6	7.8	8.0	7.3	7.1	7.2	7.8	7.7	7.8	
25	7.5	7.1	7.2	8.1	7.8	7.9	7.3	7.2	7.2	7.7	7.1	7.5	
26	7.4	7.3	7.4	8.4	7.7	7.9	7.3	7.0	7.2	7.3	7.1	7.2	
27	7.5	7.4	7.4	8.7	7.8	8.1	7.0	6.8	6.9	7.5	7.2	7.4	
28	7.4	7.2	7.3	8.8	7.9	8.2	7.2	6.9	7.0	7.5	7.3	7.4	
29	7.3	7.2	7.3	8.9	8.0	8.3	7.4	7.2	7.3	7.6	7.5	7.5	
30	7.5	7.3	7.4	8.3	7.9	8.0	7.4	7.3	7.4	7.6	7.5	7.6	
31	7.5	7.4	7.5	---	---	---	7.4	7.2	7.3	7.6	7.6	7.6	
Max	8.5	7.8	8.0	8.9	8.0	8.3	---	---	---	---	---	---	
Min	7.3	7.1	7.2	7.6	7.4	7.5	---	---	---	---	---	---	

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
February				March				April				May	
1	7.7	7.6	7.6	8.1	7.6	7.8	7.6	7.5	7.5	8.6	7.8	8.1	
2	7.7	7.5	7.6	8.0	7.5	7.7	7.7	7.6	7.6	8.5	7.8	8.1	
3	7.6	7.5	7.6	7.8	7.5	7.6	7.8	7.7	7.7	7.9	7.3	7.4	
4	7.6	7.6	7.6	8.3	7.4	7.7	7.9	7.7	7.8	7.4	7.3	7.4	
5	7.6	7.6	7.6	8.5	7.5	7.8	8.0	7.7	7.8	7.6	7.4	7.4	
6	7.7	7.6	7.7	8.6	7.6	8.1	8.0	7.8	7.9	7.6	7.4	7.5	
7	7.7	7.6	7.6	8.8	7.6	8.3	8.3	7.8	8.0	7.7	7.5	7.6	
8	7.7	7.5	7.6	8.9	7.7	8.5	8.5	7.8	8.1	7.7	7.5	7.6	
9	7.7	7.6	7.6	9.0	7.7	8.7	8.5	7.8	8.2	7.7	7.5	7.6	
10	7.6	7.5	7.6	9.0	7.8	8.8	8.8	7.9	8.3	7.7	7.6	7.6	
11	7.7	7.5	7.6	9.1	7.9	8.9	8.9	8.1	8.7	7.7	7.6	7.6	
12	7.7	7.6	7.6	9.1	7.8	8.0	9.0	8.2	8.8	7.6	7.5	7.6	
13	7.8	7.6	7.6	7.8	7.0	7.5	9.0	8.3	8.7	7.6	7.5	7.5	
14	7.7	7.5	7.6	7.2	6.9	7.0	9.1	8.2	8.7	7.8	7.4	7.6	
15	7.8	7.6	7.6	7.3	7.1	7.2	9.2	8.6	9.0	7.9	7.6	7.7	
16	7.8	7.6	7.7	7.4	7.3	7.3	9.2	8.6	9.0	8.0	7.6	7.7	
17	8.0	7.7	7.8	7.5	7.4	7.4	9.0	8.2	8.4	8.0	7.6	7.7	
18	8.2	7.7	8.0	7.6	7.4	7.5	9.1	8.1	8.7	7.8	7.6	7.7	
19	8.4	7.9	8.1	7.7	7.5	7.6	9.3	8.8	9.0	7.6	7.6	7.6	
20	8.5	8.0	8.2	7.8	7.5	7.6	9.4	8.9	9.1	7.9	7.6	7.7	
21	8.5	8.2	8.3	7.9	7.6	7.7	9.4	8.9	9.0	8.0	7.6	7.7	
22	8.5	8.1	8.3	7.8	7.6	7.7	9.4	8.9	9.1	8.2	7.6	7.8	
23	8.3	7.5	7.8	7.6	7.2	7.3	9.4	8.8	9.1	8.0	7.6	7.7	
24	7.5	7.2	7.3	7.6	7.4	7.4	9.4	8.7	9.0	8.0	7.6	7.7	
25	7.4	7.2	7.3	7.7	7.5	7.6	8.7	7.8	8.5	8.2	7.6	7.8	
26	7.5	7.3	7.4	7.8	7.6	7.6	7.8	7.5	7.6	8.3	7.6	7.8	
27	7.7	7.4	7.5	7.8	7.7	7.7	7.8	7.6	7.6	8.3	7.6	7.8	
28	7.9	7.5	7.7	7.8	7.7	7.8	8.0	7.7	7.8	8.0	7.6	7.8	
29	---	---	---	7.8	7.3	7.4	8.3	7.8	8.0	8.2	7.7	7.8	
30	---	---	---	7.5	7.2	7.4	8.4	7.8	8.1	8.5	7.6	7.9	
31	---	---	---	7.5	7.3	7.4	---	---	---	8.5	7.6	7.9	
Max	8.5	8.2	8.3	9.1	7.9	8.9	9.4	8.9	9.1	8.6	7.8	8.1	
Min	7.4	7.2	7.3	7.2	6.9	7.0	7.6	7.5	7.5	7.4	7.3	7.4	

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October				November				December			
1	344	340	342	283	273	279	345	334	339	546	340	459
2	350	344	347	288	281	284	340	271	331	577	453	520
3	368	339	358	295	287	291	318	173	227	453	425	436
4	367	358	365	301	294	297	212	191	203	431	392	411
5	369	366	368	308	301	304	315	212	238	395	370	381
6	373	365	367	313	308	310	381	315	363	375	364	370
7	376	369	372	316	313	314	392	337	367	372	361	366
8	377	373	375	320	316	317	338	330	334	364	354	357
9	377	369	373	321	318	319	507	177	267	367	349	358
10	374	359	367	322	319	321	---	---	---	371	363	367
11	378	365	373	328	322	324	282	266	273	376	367	371
12	365	352	359	336	327	330	292	282	288	367	355	360
13	354	350	352	341	317	338	478	291	321	356	349	352
14	354	350	353	354	325	344	301	239	261	353	345	349
15	356	298	343	346	341	343	274	261	266	349	344	346
16	352	328	340	344	338	341	278	270	276	345	332	337
17	338	285	323	344	338	342	284	278	281	690	328	422
18	346	334	337	346	340	343	295	284	290	494	410	449
19	347	342	345	347	334	343	298	293	295	410	387	392
20	351	346	349	349	255	330	316	293	302	390	374	382
21	357	350	354	309	298	303	371	316	343	377	372	374
22	363	357	362	309	301	304	386	366	378	372	366	368
23	368	291	363	312	306	308	368	356	361	366	359	362
24	357	245	324	328	312	318	362	355	358	361	358	360
25	297	154	187	330	326	328	468	357	367	427	161	291
26	248	223	239	332	325	329	712	255	490	215	166	184
27	256	228	247	332	325	329	255	182	206	252	215	238
28	228	160	190	333	325	329	267	222	247	287	252	266
29	221	165	198	335	327	331	280	267	275	341	287	323
30	252	221	238	345	318	334	295	280	290	341	329	333
31	273	252	264	---	---	---	340	292	306	343	327	335
Month	378	154	325	354	255	321	---	---	---	690	161	362

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	334	321	328	672	565	602	242	212	231	314	298	305
2	332	322	327	565	440	467	256	242	249	321	313	316
3	421	332	362	443	387	421	268	256	262	322	195	257
4	469	409	435	387	347	361	275	268	271	231	200	213
5	465	406	431	347	325	335	279	275	277	268	231	253
6	432	403	417	345	330	336	283	279	281	284	268	278
7	487	423	450	342	329	333	285	283	284	295	284	290
8	488	443	467	331	313	320	289	285	287	309	294	301
9	457	441	451	318	300	309	314	289	303	315	309	312
10	570	431	474	311	301	306	299	294	296	315	307	310
11	856	564	687	311	303	307	302	299	302	327	315	320
12	873	756	811	332	305	313	306	302	305	341	301	319
13	876	719	808	370	136	287	309	304	308	307	294	297
14	719	632	661	208	117	152	311	308	310	306	298	303
15	632	554	578	235	196	216	312	307	310	318	305	310
16	682	555	612	259	235	246	315	308	311	323	315	319
17	712	650	685	277	259	269	334	298	317	328	319	323
18	698	656	671	289	277	284	306	298	303	337	296	325
19	761	614	658	295	289	293	308	305	306	296	278	283
20	750	657	685	299	295	297	318	308	313	309	291	301
21	726	658	676	304	298	300	325	316	320	310	305	307
22	675	588	616	335	292	305	330	323	326	325	310	318
23	904	588	765	306	167	199	333	327	330	332	324	327
24	724	377	485	255	209	236	337	329	333	338	330	333
25	699	371	522	269	255	262	353	309	336	344	335	338
26	696	627	659	281	269	276	324	216	253	352	341	345
27	739	683	709	286	281	284	246	224	233	359	337	346
28	687	601	634	290	286	289	267	242	259	365	329	342
29	---	---	---	310	157	211	284	267	278	340	326	331
30	---	---	---	234	131	187	299	283	292	338	322	327
31	---	---	---	212	136	176	---	---	---	347	337	340
Month	904	321	574	672	117	296	353	212	293	365	195	309

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	347	134	323	306	300	302	300	270	279	251	237	243
2	355	315	341	303	292	298	278	254	264	265	235	244
3	360	353	356	298	283	290	286	254	273	266	252	261
4	362	355	359	288	280	284	287	283	285	261	242	250
5	366	361	364	288	281	285	294	284	287	261	236	245
6	366	363	365	286	277	282	295	292	294	238	231	235
7	371	365	369	286	248	274	295	267	277	241	236	238
8	373	368	371	256	238	243	267	257	261	246	241	243
9	373	244	358	258	234	243	260	252	255	241	233	236
10	368	348	359	274	237	248	278	250	261	236	230	233
11	364	339	347	299	271	286	278	253	259	236	232	233
12	350	344	347	302	274	284	254	246	251	247	228	237
13	358	184	340	291	231	260	254	246	250	262	156	239
14	356	264	303	288	193	255	258	250	252	272	252	256
15	293	263	276	209	171	186	264	247	255	254	243	250
16	320	291	305	251	209	235	264	247	252	243	196	233
17	---	---	---	282	251	266	264	251	256	268	230	248
18	---	---	---	303	282	294	265	257	261	275	263	267
19	339	334	336	337	303	318	261	254	257	283	275	279
20	350	339	344	347	326	337	258	253	256	283	271	277
21	362	350	355	326	158	311	259	241	250	276	268	272
22	367	320	360	326	293	310	241	133	219	274	186	267
23	382	342	352	300	285	290	262	205	233	284	268	271
24	342	302	314	304	296	300	274	253	262	276	266	270
25	314	306	309	319	291	304	308	274	289	284	272	276
26	318	314	315	318	305	310	309	300	306	286	281	284
27	320	315	316	316	303	308	300	290	296	294	258	282
28	324	292	319	313	305	308	290	276	285	294	276	286
29	316	304	309	351	279	312	278	273	275	312	294	306
30	310	304	306	297	269	277	277	264	271	316	226	294
31	---	---	---	280	267	272	264	251	256	---	---	---
Month	---	---	---	351	158	283	309	133	265	316	156	258

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October				November			December			January		
1	15.6	14.3	15.0	14.4	12.8	13.9	7.9	5.7	6.5	3.2	1.8	2.5
2	15.1	13.0	14.0	12.8	11.3	12.0	7.5	5.2	5.8	3.2	1.1	2.6
3	16.4	14.2	15.2	11.7	10.6	11.0	10.1	7.0	9.1	1.1	0.2	0.3
4	18.6	15.2	16.7	10.6	9.8	10.2	9.9	8.2	8.8	0.3	0.1	0.2
5	18.3	15.4	16.7	10.5	9.5	9.9	8.2	6.2	7.3	0.4	0.1	0.2
6	17.7	14.6	16.1	9.8	8.2	9.1	6.2	4.8	5.3	0.6	0.1	0.3
7	17.8	15.3	16.4	8.9	7.6	8.1	4.8	4.2	4.5	0.9	0.1	0.4
8	17.4	14.3	15.7	9.4	7.5	8.4	4.8	4.0	4.4	0.9	0.2	0.6
9	17.0	15.4	16.1	10.1	8.4	9.2	5.2	4.5	4.7	0.6	0.0	0.2
10	17.2	15.5	16.4	10.6	9.4	10.1	---	---	---	0.6	0.0	0.2
11	16.7	14.2	15.2	10.8	9.9	10.4	4.4	2.0	3.0	0.5	0.0	0.2
12	14.4	12.7	13.5	9.9	9.0	9.5	2.1	1.4	1.8	0.8	0.1	0.3
13	14.0	12.0	12.7	9.8	8.9	9.3	2.4	1.7	2.0	0.9	0.0	0.3
14	13.1	11.0	12.1	11.3	9.7	10.6	4.6	1.9	3.2	1.0	0.1	0.4
15	12.0	9.8	10.8	13.6	11.3	12.4	5.8	4.6	5.3	1.1	0.1	0.4
16	12.6	8.9	9.5	13.6	11.7	12.6	5.7	3.8	4.8	1.6	0.3	0.7
17	10.2	8.8	9.3	12.3	10.6	11.4	3.8	2.1	2.8	1.5	0.3	1.0
18	10.3	9.0	9.4	11.2	9.7	10.4	2.1	1.3	1.6	3.4	1.5	2.3
19	10.9	8.2	9.4	11.4	10.1	10.7	1.6	0.4	1.2	3.3	2.7	3.0
20	11.5	8.2	9.8	12.6	11.3	11.9	0.8	0.4	0.5	3.0	2.2	2.5
21	12.6	9.4	10.9	11.4	9.6	10.5	1.2	0.2	0.7	2.4	1.6	1.9
22	13.8	10.6	12.1	10.1	8.7	9.4	1.4	0.5	1.0	2.3	1.5	1.8
23	12.6	12.1	12.3	9.2	8.5	8.8	1.2	0.4	0.7	2.4	1.2	1.7
24	15.4	12.2	13.4	10.6	8.7	9.4	0.9	0.2	0.4	1.6	1.2	1.4
25	15.3	13.8	14.7	10.1	9.5	9.9	1.7	0.4	1.0	6.6	1.6	4.6
26	13.8	12.1	12.8	10.7	9.8	10.2	4.1	1.7	2.6	5.5	4.5	4.9
27	12.1	11.5	11.8	10.4	9.0	10	5.5	4.1	5.1	4.5	3.0	3.5
28	12.8	11.7	12.2	9.1	7.5	8.4	5.0	3.6	4.3	3.0	2.0	2.6
29	13.3	12.5	12.9	8.5	6.9	7.6	3.6	0.6	2.0	2.0	0.2	0.8
30	13.2	12.8	13.0	7.8	6.9	7.4	0.8	0.3	0.5	0.3	0.3	0.3
31	14.4	13.1	13.6	---	---	---	1.8	0.8	1.3	0.7	0.2	0.3
Month	18.6	8.2	13.2	14.4	6.9	10.1	---	---	---	6.6	0.0	1.4

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	0.9	0.2	0.4	5.1	3.3	4.2	12.0	9.2	10.4	19.0	15.8	17.3
2	0.7	0.2	0.4	5.1	3.7	4.3	13.2	11.1	12.0	21.2	18.3	19.8
3	1.4	0.3	0.8	4.8	4.3	4.5	13.8	12.3	13.1	21.0	19.3	20.3
4	1.8	0.6	1.1	5.5	3.8	4.6	14.7	12.8	13.8	19.9	18.4	19.2
5	1.4	0.9	1.2	5.5	4.4	5.0	15.2	13.4	14.3	19.8	18.0	19.0
6	1.2	0.1	0.5	5.6	4.3	5.0	16.1	14.4	15.3	20.0	18.6	19.2
7	1.2	0.1	0.4	6.4	4.8	5.6	17.6	15.4	16.5	19.7	17.8	18.8
8	1.2	0.0	0.4	7.0	5.6	6.4	18.3	16.6	17.5	19.4	16.9	18.4
9	1.2	0.0	0.5	7.5	6.3	7.0	18.3	15.0	16.9	16.9	14.4	15.6
10	0.3	0.0	0.1	7.5	6.7	7.1	15.0	13.1	14.0	16.1	13.5	14.6
11	1.3	-0.1	0.3	8.7	7.2	7.9	15.0	13.1	14.2	14.8	13.1	13.9
12	1.3	0.0	0.4	8.7	7.3	8.1	15.8	14.2	15.0	13.1	11.4	12.2
13	0.9	0.0	0.3	7.3	6.3	6.8	15.1	13.1	14.2	14.5	10.9	12.7
14	1.6	0.0	0.6	7.4	6.9	7.1	14.3	11.9	13.2	17.8	14.3	16.1
15	2.1	0.4	1.2	7.4	7.0	7.1	15.4	13.3	14.2	20.0	17.2	18.5
16	2.4	1.6	2.0	8.9	6.6	7.5	15.6	14.2	14.7	20.8	18.0	19.1
17	2.4	1.2	1.8	9.2	7.5	8.4	14.5	13.1	13.9	19.2	17.6	18.4
18	2.4	1.7	2.0	9.8	8.1	9.0	13.1	11.9	12.5	17.6	14.6	16.3
19	4.0	2.0	2.9	10.5	8.8	9.6	13.6	11.5	12.5	15.1	13.9	14.5
20	4.3	3.1	3.6	11.5	9.6	10.6	15.6	12.7	13.9	19.0	15.1	16.9
21	4.3	3.0	3.6	12.2	10.5	11.4	15.9	14.0	14.8	21.9	18.3	19.9
22	3.6	2.9	3.3	12.2	11.3	11.6	17.2	14.4	15.6	22.5	19.9	20.9
23	3.1	2.4	3.0	11.4	10.6	10.9	17.6	15.0	16.1	20.6	19.5	20.2
24	3.4	1.6	2.5	11.2	9.6	10.4	17.8	14.8	16.1	20.9	19.1	19.9
25	3.3	2.1	2.7	11.1	9.3	9.9	15.8	12.9	14.6	23.6	19.6	21.5
26	2.1	0.8	1.4	10.6	10.0	10.3	12.9	11.8	12.1	26.0	21.4	23.4
27	3.3	1.9	2.5	10.0	8.1	8.8	13.2	11.5	12.3	26.3	23.5	24.7
28	3.9	3.1	3.5	8.7	7.3	7.7	12.8	11.4	11.8	23.5	22.2	22.9
29	---	---	---	9.3	8.0	8.8	13.4	10.5	12.0	23.8	21.5	22.5
30	---	---	---	9.3	7.6	8.5	16.3	13.3	14.7	25.9	21.7	23.5
31	---	---	---	10.2	7.4	8.5	---	---	---	27.0	23.1	25.0
Month	4.3	-0.1	1.6	12.2	3.3	7.8	18.3	9.2	14.1	27.0	10.9	18.9

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	27.3	24.3	25.4	26.2	23.4	24.7	26.5	24.4	25.2	27.5	24.3	25.8
2	27.9	23.8	25.6	25.8	22.0	23.9	25.6	23.0	24.5	28.1	24.7	26.3
3	28.5	24.9	26.6	26.9	22.2	24.5	26.2	23.9	25.0	26.5	25.1	25.8
4	29.2	25.5	27.4	28.2	23.7	25.9	27.6	24.9	26.3	25.4	22.6	24.4
5	29.2	26.4	27.8	29.6	25.2	27.3	29.3	26.4	27.8	23.6	21.1	22.2
6	28.9	25.4	27.4	30.6	26.6	28.6	29.2	26.6	27.8	23.5	19.9	21.7
7	26.5	23.5	24.9	31.2	28.2	29.4	28.0	25.1	26.5	24.6	20.8	22.6
8	25.5	21.8	23.5	28.6	27.1	28.1	27.5	25.0	26.0	25.4	22.6	23.7
9	22.9	19.2	21.2	28.2	24.7	26.9	28.3	25.2	26.8	22.8	20.6	21.9
10	21.8	19.5	20.4	26.9	26.0	26.6	29.0	26.6	27.5	21.4	19.7	20.4
11	23.3	20.0	21.7	27.8	25.2	26.4	29.7	26.7	27.9	22.3	18.9	20.5
12	24.8	21.1	22.9	28.4	25.3	26.7	27.7	25.5	26.8	20.7	19.6	20.2
13	25.8	22.9	24.2	26.8	25.3	26.1	26.5	24.5	25.3	21.9	19.0	20.2
14	24.3	23.0	23.6	25.8	23.8	25.2	26.5	23.9	24.9	22.6	19.7	20.9
15	25.4	22.4	23.7	25.2	23.2	24.1	24.5	23.4	24.0	22.0	19.3	20.5
16	24.4	23.0	23.6	28.6	22.7	26.2	25.0	23.0	23.9	20.6	18.5	19.6
17	---	---	---	30.0	26.7	28.2	26.9	23.9	25.3	22.3	19.5	20.6
18	---	---	---	30.5	26.9	28.7	26.1	24.5	25.2	22.0	19.4	20.5
19	27.4	22.6	25.1	30.5	27.4	28.9	27.2	23.5	25.3	22.6	18.8	20.7
20	28.8	24.7	26.6	29.6	27.7	28.6	27.7	24.3	25.9	22.8	19.6	21.0
21	28.9	25.5	27.3	30.2	27.0	28.3	26.1	24.0	25.1	22.1	18.6	20.3
22	29.0	25.8	27.2	29.6	24.5	27.8	25.2	24.1	24.6	22.7	18.6	20.7
23	28.8	25.5	27.1	28.9	26.7	27.6	24.1	22.1	23.2	23.1	20.3	21.7
24	28.9	25.9	27.3	30.7	27.1	28.8	22.3	21.1	21.8	26.0	21.5	22.6
25	29.0	25.6	27.3	31.0	27.9	29.0	22.5	20.7	21.5	25.1	22.2	23.4
26	29.4	25.5	27.4	29.0	26.5	27.6	24.3	20.8	22.5	23.0	21.2	22.0
27	29.4	26.0	27.7	29.3	25.3	27.3	25.0	21.0	22.9	21.2	20.2	20.6
28	29.8	26.9	28.2	28.9	25.6	27.1	24.9	21.0	22.9	22.1	20.5	21.1
29	29.5	26.9	28.1	28.9	25.4	27.4	25.8	21.3	23.6	22.3	20.2	21.3
30	28.0	25.1	26.3	27.5	24.6	26.3	26.6	22.5	24.5	21.7	20.8	21.3
31	---	---	---	27.9	24.5	26.0	27.1	23.5	25.3	---	---	---
Month	---	---	---	31.2	22.0	27.0	29.7	20.7	25.0	28.1	18.5	21.8

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued
TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October				November				December				January
1	2.2	1.1	1.6	6.3	4.5	5.5	3.6	1.7	2.4	6.0	4.8	5.2
2	1.8	1.0	1.4	4.6	3.1	3.6	43	1.6	5.7	5.7	4.8	5.1
3	2.8	1.3	1.9	3.6	2.6	2.8	160	23	74	6.5	4.4	5.0
4	4.3	1.5	2.5	2.7	2.3	2.5	50	14	27	4.5	3.9	4.2
5	4.4	1.3	2.2	3.0	2.2	2.4	14	8.1	10	4.2	3.3	3.6
6	2.7	1.1	1.7	3.1	2.1	2.4	15	8.1	12	4.1	3.0	3.3
7	2.9	1.4	1.8	3.7	2.0	2.3	11	5.0	7.4	3.6	2.9	3.1
8	3.0	1.1	1.6	2.8	2.0	2.3	5.1	3.6	4.3	4.2	2.8	3.2
9	2.3	1.1	1.5	2.7	2.0	2.3	380	3.7	120	4.7	2.7	3.2
10	4.4	1.2	2.2	3.2	2.2	2.5	---	---	---	4.0	2.7	3.1
11	4.5	1.1	2.2	3.8	2.2	2.5	18	9.4	13	4.4	3.0	3.5
12	3.4	0.9	1.7	2.9	2.2	2.4	9.6	6.1	7.3	3.6	2.6	3.0
13	2.1	0.9	1.2	9.4	2.1	2.8	110	5.1	18	4.2	2.4	3.0
14	1.5	0.9	1.1	7.0	2.5	3.6	110	17	44	4.3	2.5	3.0
15	57	1.1	11	3.7	2.2	2.7	17	8.9	12	4.0	2.3	3.0
16	61	2.9	5.0	3.1	2.1	2.5	12	6.3	7.5	5.7	2.6	3.3
17	42	2.4	7.4	3.7	2.1	2.4	6.8	5.2	6.0	24	2.9	9.0
18	5.3	2.2	2.9	2.7	1.9	2.1	6.6	4.4	5.1	43	15	29
19	3.5	1.6	2.3	9.0	2.0	2.9	6.6	4.0	4.6	15	8.3	11
20	4.1	1.4	2.0	96	6.7	20	7.2	4.3	5.4	9.0	5.5	6.6
21	2.4	1.2	1.7	9.2	3.2	6.0	7.6	4.6	5.8	7.0	4.4	5.2
22	2.6	1.4	1.8	3.9	2.1	2.6	7.4	4.0	4.9	5.7	3.7	4.3
23	39	1.5	3.2	2.3	1.7	2.0	7.1	3.7	4.6	5.8	3.3	4.1
24	100	6.9	31	7.6	1.7	2.1	5.3	3.4	4.1	7.1	2.9	3.6
25	260	26	100	2.5	1.8	2.0	25	3.0	4.7	670	2.9	160
26	26	8.3	14	2.4	1.9	2.1	130	8.3	47	160	35	78
27	33	7.1	18	2.7	1.8	2.1	150	41	81	35	14	22
28	68	26	44	2.8	1.4	1.7	41	14	23	14	9.3	12
29	37	12	21	2.0	1.3	1.5	14	9.8	12	11	7.6	8.9
30	12	6.2	8.4	35	1.3	6.5	10	6.3	7.8	7.8	5.5	6.7
31	6.7	4.6	5.3	---	---	---	6.5	5.0	5.7	5.9	4.9	5.3
Month	260	0.9	9.8	96	1.3	3.4	---	---	---	670	2.3	14

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01400500 RARITAN RIVER AT MANVILLE, NJ—Continued**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

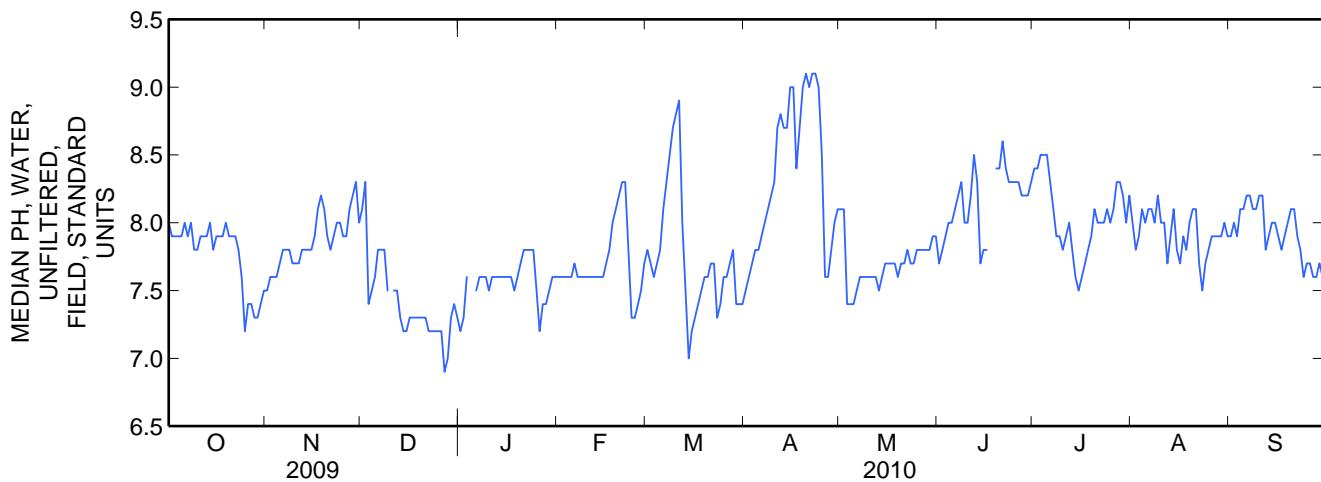
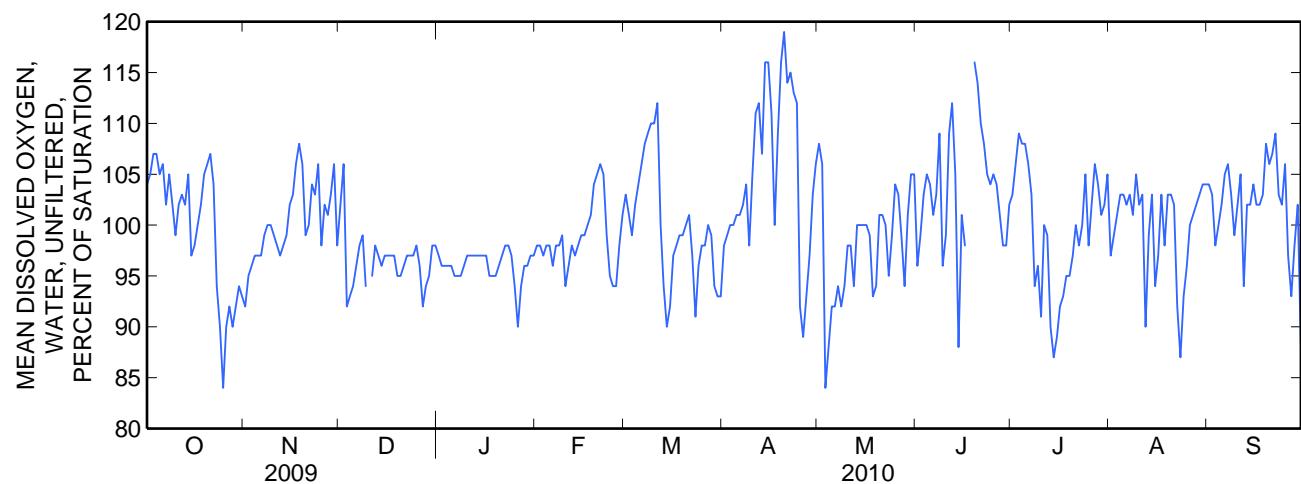
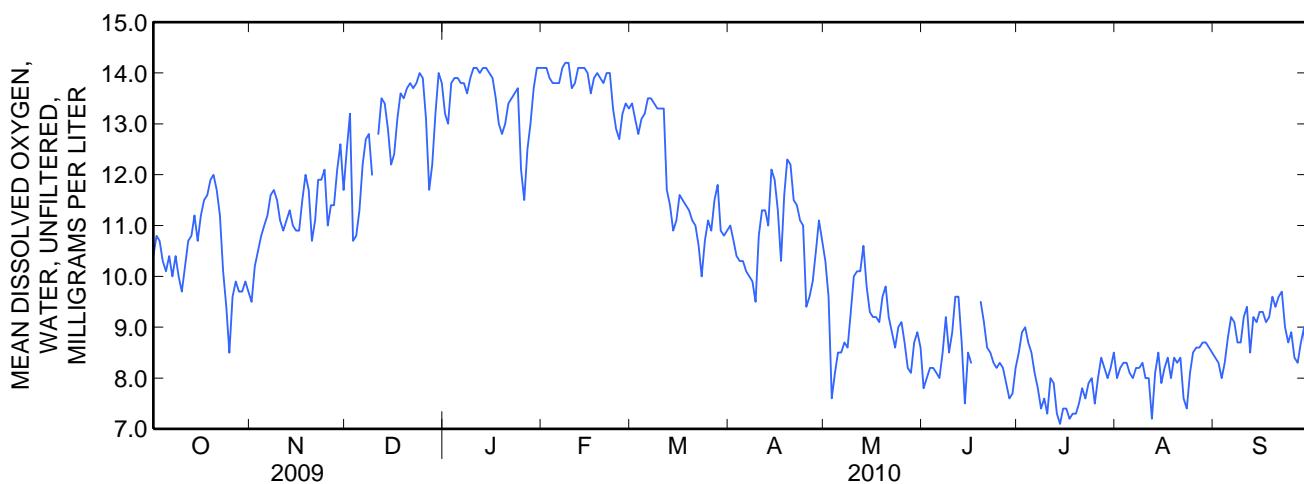
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	8.1	4.6	5.8	13	5.3	7.0	23	12	16	3.9	2.9	3.4
2	6.4	4.2	4.8	19	7.8	13	13	8.8	11	3.7	2.5	3.0
3	6.1	4.0	4.5	13	8.1	9.5	9.7	7.0	8.5	180	3.3	77
4	9.0	3.7	4.7	15	7.5	11	7.9	5.4	6.7	65	15	31
5	7.5	3.4	4.1	14	6.0	9.4	7.1	4.7	5.8	16	7.7	11
6	5.7	3.5	4.1	8.9	5.1	6.6	6.2	4.4	5.2	8.5	7.1	7.8
7	5.3	3.4	4.0	6.4	4.5	5.2	5.9	4.1	4.9	7.9	5.9	6.7
8	6.5	3.3	4.2	6.3	4.3	5.1	5.5	3.6	4.4	7.9	6.1	6.9
9	5.2	3.3	4.1	5.9	3.9	4.8	7.6	4.0	6.3	7.7	5.2	6.5
10	5.7	3.6	4.4	5.0	3.4	3.9	6.8	3.1	4.4	5.4	4.0	4.6
11	8.6	3.4	5.3	3.8	2.9	3.3	3.8	2.4	2.9	5.0	4.2	4.6
12	8.1	3.5	5.0	5.2	2.9	3.8	4.1	2.7	3.2	20	4.4	12
13	6.0	3.0	3.9	450	4.5	100	3.6	2.4	2.9	14	6.7	9.5
14	6.0	3.0	4.0	400	75	210	2.9	1.9	2.3	7.3	5.5	6.3
15	6.6	3.2	4.0	75	33	47	3.4	2.1	2.5	6.4	5.4	5.8
16	10	2.9	4.6	34	19	25	6.8	2.6	3.5	6.5	4.8	5.6
17	6.2	3.0	3.9	19	12	15	9.1	4.1	6.3	6.3	4.4	5.3
18	8.9	2.9	4.3	13	8.7	11	5.4	2.3	3.3	44	5.4	16
19	8.7	2.7	5.4	13	6.9	8.2	2.6	2.0	2.2	53	12	29
20	6.5	3.4	4.4	14	5.5	6.7	3.2	2.3	2.7	12	5.2	7.5
21	7.5	3.6	4.4	6.7	4.6	5.6	4.5	2.8	3.4	6.4	4.9	5.6
22	6.9	4.0	4.6	390	4.2	18	3.8	2.5	3.2	6.7	4.0	5.1
23	56	5.0	22	220	38	110	3.4	2.5	2.8	6.4	4.1	5.0
24	130	32	65	38	12	21	4.5	2.6	3.2	6.6	3.8	4.9
25	37	19	25	13	6.9	9.4	23	3.2	10	5.8	3.5	4.4
26	25	12	18	7.2	5.9	6.6	110	20	52	5.9	3.2	4.2
27	13	6.9	9.6	7.4	4.4	5.4	34	13	24	12	2.9	4.7
28	8.1	5.7	6.5	5.5	3.6	4.2	13	4.8	7.4	12	6.2	8.5
29	---	---	---	190	5.2	86	4.8	3.3	3.9	9.3	4.6	6.4
30	---	---	---	170	28	80	4.5	3.3	3.7	7.0	3.8	5.3
31	---	---	---	130	23	52	---	---	---	6.3	3.7	4.9
Month	130	2.7	8.7	450	2.9	29	110	1.9	7.3	180	2.5	10

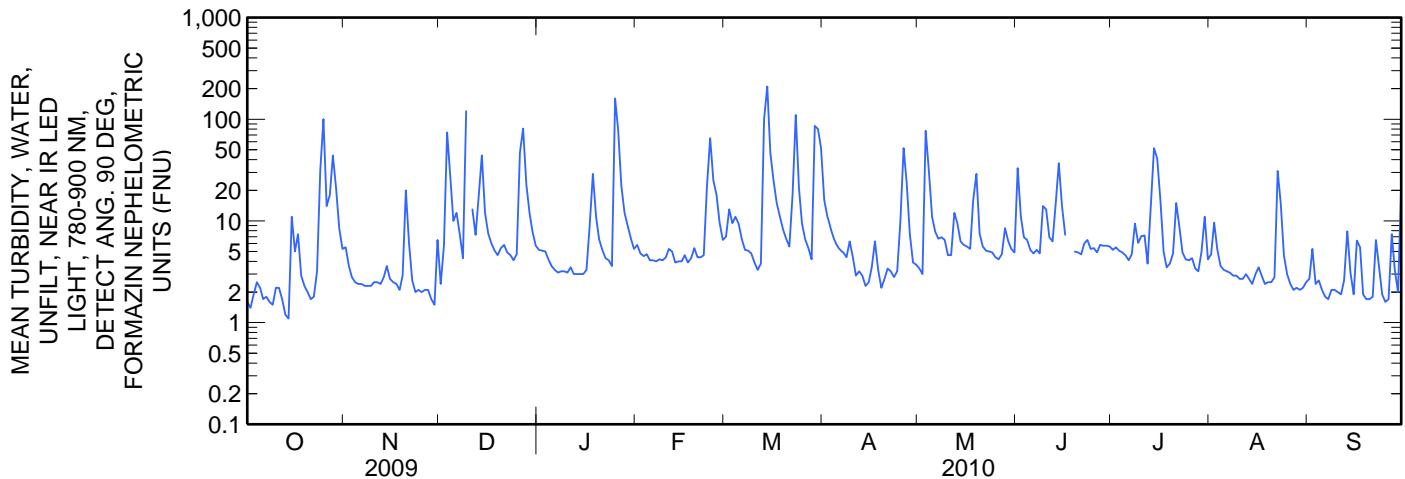
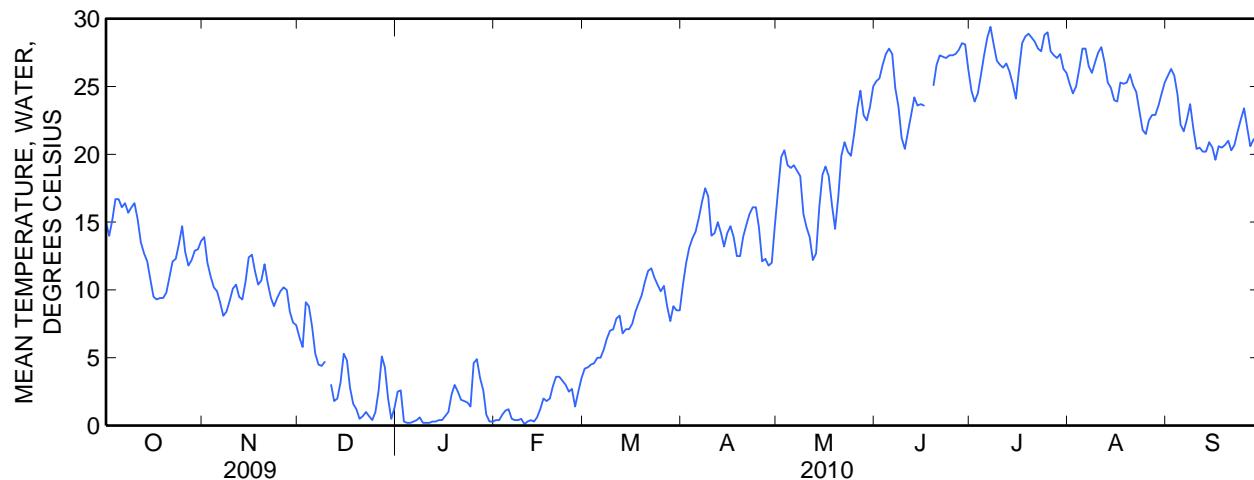
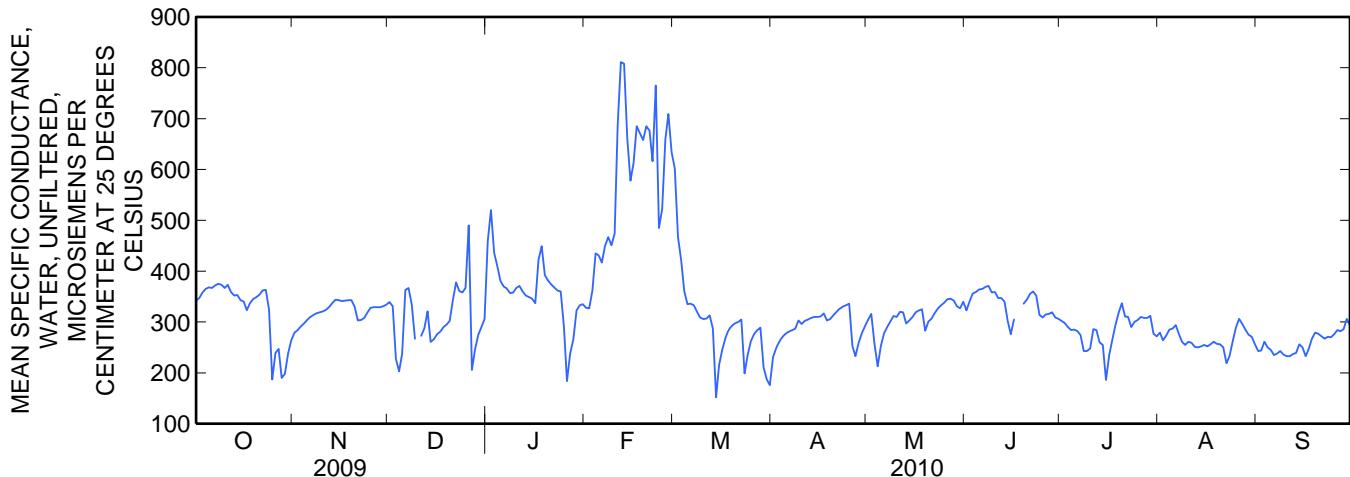
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01400500 RARITAN RIVER AT MANVILLE, NJ—Continued**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June		July		August			September	
1	250	3.2	33	8.5	3.1	5.2	16	2.0	4.7	4.5	1.5	2.7
2	25	5.9	11	9.1	3.4	5.5	16	6.5	9.6	120	1.4	5.3
3	11	4.1	6.9	7.9	3.3	5.1	10	2.4	5.2	4.0	1.3	2.4
4	16	3.2	6.5	8.0	2.9	4.9	6.2	1.9	3.6	5.7	1.4	2.6
5	13	3.1	5.2	7.8	2.7	4.6	5.6	1.7	3.3	3.2	1.3	2.1
6	8.6	3.2	4.8	7.8	2.2	4.1	5.5	1.7	3.2	3.4	1.2	1.8
7	10	3.8	5.2	7.6	2.5	4.7	5.2	1.7	3.1	2.8	1.0	1.7
8	8.3	3.2	4.8	180	3.2	9.4	4.9	1.7	2.9	3.4	1.2	2.1
9	59	3.6	14	9.7	3.5	6.1	5.1	1.6	2.9	3.4	1.3	2.1
10	30	9.0	13	12	5.5	7.1	4.6	1.4	2.7	3.1	1.3	2.0
11	10	4.6	6.9	16	3.4	7.2	4.7	1.4	2.7	2.8	1.1	1.9
12	14	3.9	6.3	6.7	2.2	3.8	4.5	1.7	3.0	4.7	1.6	2.6
13	63	2.8	15	78	4.7	14	4.4	1.6	2.7	120	1.2	7.9
14	62	22	37	170	18	52	3.5	1.6	2.4	7.9	1.4	3.1
15	22	8.3	14	120	14	41	5.3	1.7	3.0	2.9	1.2	1.9
16	11	5.1	7.3	180	4.5	16	5.9	2.0	3.5	95	1.2	6.4
17	---	---	---	21	2.9	5.0	4.4	1.6	2.9	50	2.0	5.5
18	---	---	---	5.1	2.3	3.5	3.6	1.6	2.4	3.1	1.1	1.9
19	7.7	3.4	5.0	6.0	2.7	3.8	3.8	1.5	2.5	2.7	1.0	1.7
20	7.7	3.0	4.9	7.7	3.0	4.8	4.3	1.5	2.5	3.0	1.0	1.7
21	8.1	3.3	4.7	140	2.0	15	4.2	1.6	2.8	3.0	1.1	1.8
22	30	2.9	6.0	29	4.4	8.9	230	1.6	31	140	1.1	6.5
23	10	3.8	6.5	9.7	2.2	4.9	34	7.5	15	11	1.6	3.6
24	8.3	3.3	5.3	7.6	2.1	4.2	8.3	2.6	4.6	2.9	1.1	1.9
25	8.7	3.3	5.4	6.7	1.9	4.1	4.5	1.9	3.0	3.2	1.0	1.6
26	10	2.8	4.9	7.6	2.1	4.3	3.6	1.6	2.4	3.4	1.1	1.7
27	8.8	3.4	5.8	6.3	1.8	3.4	3.3	1.4	2.1	100	1.4	7.4
28	11	2.7	5.7	5.7	1.7	3.2	3.7	1.4	2.2	19	1.4	3.3
29	9.7	3.4	5.7	11	2.5	5.0	3.4	1.3	2.1	3.2	1.4	2.0
30	10	2.9	5.6	210	3.5	11	3.8	1.3	2.2	120	2.6	22
31	---	---	---	7.5	2.2	4.2	4.3	1.3	2.5	---	---	---
Month	---	---	---	210	1.7	8.9	230	1.3	4.5	140	1.0	3.7

Water-Data Report 2010
01400500 RARITAN RIVER AT MANVILLE, NJ—Continued



01400500 RARITAN RIVER AT MANVILLE, NJ—Continued

01400500 RARITAN RIVER AT MANVILLE, NJ—Continued**CROSS-SECTIONAL WATER-QUALITY MEASUREMENTS WITH RECORDED MONITOR VALUES, AT NOTED TIME, ON JUNE 4, 2010.**

[Cross sectional measurements were made periodically to document river variability and verify that recorded monitor values were representative of river conditions. Water-quality measurements acquired at increments of 10 feet. Gap in center due to presence of bridge pier. The daily mean discharge of 327 ft³/s for the Raritan River at Manville on June 4, 2010 was equaled or exceeded 85 percent of the time by all daily mean discharges for the Raritan River at Manville between water years 1964–2010.]

