03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC-Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD .-- Water years 1997 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Water years 1997 to current year.

DISSOLVED OXYGEN: Water years 1997 to current year.

INSTRUMENTATION .-- Water-quality monitor since May 1997.

REMARKS.--Interruptions in the data are due to malfunctions of the monitor. Data were collected during the current year for the months of October 2002, May through September 2003.

EXTREMES FOR PERIOD OF RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	24.9, August 14, 2002	6.8, June 2, 2001
DISSOLVED OXYGEN, mg/L	12.0, June 14, 2001	3.1, November 1, 1998

EXTREMES FOR CURRENT YEAR .--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	23.3, September 3, 4	13.3, October 31
DISSOLVED OXYGEN, mg/L	9.8, October 31, May 17, 18	5.1, August 27, September 2, 3, 4, 5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	OCTOBER			NOVEMBER			D	ECEMBE	ER	JANUARY			
1	19.3	18.6	18.8										
2	19.9	18.6	19.1										
3	19.8	18.8	19.2										
4	19.6	18.8	19.3										
5	20.0	19.2	19.5										
6	19.9	18.6	19.2										
7	19.5	18.7	19.1										
8	19.8	18.8	19.2										
9	19.6	18.7	19.3										
10	19.6	19.1	19.4										
11	19.6	19.2	19.4										
12	19.8	18.9	19.3										
13	19.5	18.8	19.0										
14	19.2	18.1	18.7										
15	19.2	18.2	18.6										
16	19.0	18.0	18.6										
17	18.7	16.0	17.0										
18	17.0	15.2	16.4										
19	16.5	15.3	15.8										
20	15.9	15.4	15.6										
21	16.2	15.5	15.9										
22	16.3	15.5	15.9										
23	15.9	15.2	15.6										
24	15.9	15.5	15.7										
25	16.3	15.4	15.7										
26	16.3	15.9	16.1										
27	16.2	15.9	16.0										
28	16.4	15.8	16.0										
29	16.4	15.9	16.2										
30	16.1	14.6	15.6										
31	15.9	13.3	14.4										
MONTH	20.0	13.3	17.5										

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC-Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	I	FEBRUAR	Y		MARCH			APRIL			MAY		
1													
2 3													
4													
5													
6													
7 8													
9													
10													
11													
12 13													
14													
15													
16													
17 18										16.0 16.0	15.5 15.6	15.8 15.9	
19										16.4	15.6	16.1	
20										16.5	15.8	16.3	
21										16.6	16.3	16.5	
22 23										16.8 16.6	16.3 16.1	16.5 16.4	
24										16.4	16.0	16.2	
25										16.5	15.7	16.2	
26										16.5	15.8	16.2	
27 28										16.5 16.8	15.9 15.8	16.3 16.5	
29										16.8	15.9	16.5	
30 31										16.9 16.8	15.7 16.5	16.4 16.7	
MONTH										16.9	15.5	16.3	
		JUNE			JULY				AUGUST SEPTEMBER				
				•••		20.0							
$\frac{1}{2}$	17.4 16.9	16.0 15.4	16.6 16.2	20.9 20.9	20.5 18.4	20.8 19.2	20.8 21.0	19.1 19.0	$20.0 \\ 20.0$	23.1 23.2	21.8 22.0	22.4 22.8	
3	16.9	16.4	16.7	18.5	18.1	18.3	20.1	19.0	19.5	23.3	22.5	22.9	
4 5	17.2 17.4	16.5 16.2	16.8 17.0	18.9 18.9	18.2 17.6	18.5 18.4	21.1 20.4	18.7 17.6	19.8 19.1	23.3 22.9	22.1 21.3	23.1 22.4	
6 7	17.6 17.7	16.4 17.2	17.1 17.6	19.3 19.6	18.7 18.2	18.9 19.1	21.0 21.2	18.1 18.3	19.6 19.8	22.2 21.7	21.1 21.0	21.6 21.5	
8	18.2	17.7	18.0	20.0	18.9	19.5	21.2	19.0	20.0	21.8	20.9	21.4	
9 10	18.3 18.2	17.4 17.1	17.9 17.8	$20.2 \\ 20.4$	18.9 19.2	19.9 20.0	21.3 21.3	19.2 19.6	20.3 20.3	21.7 21.6	20.5 20.4	21.3 21.2	
11 12	18.6 18.8	17.9 17.9	18.2 18.4	20.3 20.2	19.2 18.7	19.9 19.6	21.5 21.5	19.3 19.6	20.5 20.8	21.4 21.2	20.3 20.2	20.9 20.7	
13	18.9	18.1	18.4 18.7	20.1	19.1	19.5	21.5	20.6	21.0	21.2 21.2	19.9	20.7	
14 15	19.1 19.3	18.3 18.2	18.8 18.8	20.2 20.3	19.0 19.6	19.7 20.0	21.5	19.8 	20.7	21.3 21.2	20.1 20.1	20.9 20.7	
16 17	18.8 19.5	17.8 17.9	18.2 18.7	20.4 20.5	18.7 18.9	19.7 19.9				21.0 21.1	19.5 19.4	20.2 20.1	
18	19.4	17.4	18.3	20.7	19.1	20.0				20.8	19.1	19.9	
19 20	19.8 19.6	17.6 17.7	19.1 18.7	20.7 20.9	19.4 19.4	20.0 20.2	22.2 22.5	20.8 21.2	21.6 21.8	20.8 21.0	19.6 19.5	20.1 20.1	
	19.7	18.0		21.0		20.1		21.2		20.6	19.4	20.0	
21 22	19.7	16.7	19.0 17.8	21.0 20.2	17.8 17.7	18.8	22.5 22.4	21.1	21.9 21.7	20.0	19.4	20.0 19.7	
23 24	19.6	15.6	179	19.9	17.4	18.3	22.4	21.2	21.8	19.9	19.1	19.5	
24 25	19.6 20.0	18.1 18.7	19.0 19.4	20.2 20.6	16.9 17.6	18.5 19.0	22.7 22.5	21.4 21.4	22.0 22.0	19.3 19.1	18.9 17.8	19.0 18.6	
26 27	20.3 19.9	19.2 19.3	19.7 19.5	20.9 20.6	18.3 19.2	19.6 19.9	22.6 22.9	21.7 22.0	22.3 22.5	19.1 19.1	18.2 18.3	18.7 18.7	
28	20.3	18.8	19.6	21.2	19.5	20.3	23.0	22.0 22.3	22.7	18.7	17.8	18.3	
29 30	20.6 20.7	19.1 19.8	19.9 20.3	20.9 21.2	19.4 19.3	20.1 20.4	23.1 23.2	22.2 22.4	22.7 22.9	18.0 18.0	17.3 17.0	17.7 17.5	
31				21.2	19.6	20.4	23.0	21.8	22.4				
MONTH	20.7	15.4	18.3	21.2	16.9	19.6	23.2	17.6	21.1	23.3	17.0	20.4	

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC-Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	Ł	1	NOVEMBE	R	1	DECEMBE	R		JANUARY	[
1	8.3	7.6	8.1									
2 3	8.4 8.5	7.5 7.3	8.1 7.9									
4	7.9	7.4	7.6									
5	8.6	7.6	8.1									
6	8.7	7.9	8.2									
7 8	8.7 8.8	7.7 7.9	8.0 8.3									
9	8.3	7.5	7.9									
10	8.1	7.4	7.8									
11	7.9	7.5	7.7									
12 13	8.8 8.6	7.5 7.7	8.2 8.1									
13	8.0 8.9	7.5	8.1									
15	8.6	7.3	8.0									
16	8.0	7.3	7.6									
17	8.9	7.4	8.3									
18 19	8.9 9.1	7.6 7.9	8.1 8.5									
20	8.8	8.2	8.4									
21	8.3	7.6	7.9									
22	8.7	8.0	8.3									
23 24	8.6 8.9	8.1 7.9	8.3 8.4									
24 25	8.9 9.0	7.9	8.4 8.4									
26	9.1	8.3	8.5									
20	8.9	8.3 8.3	8.5 8.5									
28	8.5	7.8	8.2									
29 30	8.4 9.1	7.7 8.2	8.1 8.5									
31	9.8	8.1	9.0									
MONTH	9.8	7.3	8.2									
		FEBRUAR	Y		MARCH			APRIL			MAY	
1		FEBRUAR			MARCH			APRIL			MAY	
$\frac{1}{2}$		FEBRUAR	Y 		MARCH 			APRIL			MAY 	
2 3	 										 	
2 3 4	 	 	 		 			 			 	
2 3 4 5	 	 		 	 	 	 	 		 	 	
2 3 4 5 6	 	 	 		 			 			 	
2 3 4 5 6 7 8	 	 	 	 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9			 	 		 	 		 	 	 	
2 3 4 5 6 7 8 9 10		 	 	 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9 10 11			 	 		 	 		 	 	 	
2 3 4 5 6 7 8 9 10 11 12 13			 				 		 	 		
2 3 4 5 6 7 8 9 10 11 12 13 14												
2 3 4 5 6 7 8 9 10 11 12 13 14 15												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16												
2 3 4 5 6 7 8 9 10 11 12 13 14 15												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19										 9.8 9.8 9.6	 9.4 9.5 9.3	 9.6 9.4
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $										 9.8 9.8 9.6 9.6 9.6	 9.4 9.5 9.3 9.2	 9.6 9.4 9.4 9.4
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\end{array} $										 9.8 9.8 9.6 9.6 9.6 9.5	 -	 9.6 9.4 9.4 9.4 9.2
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\end{array} $										 9.8 9.8 9.6 9.6 9.6	 9.4 9.5 9.3 9.2	 9.6 9.4 9.4 9.4 9.2 9.3 9.0
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $										 9.8 9.8 9.6 9.6 9.6 9.6 9.2 9.5	 9.4 9.5 9.3 9.2 8.8 8.9 8.9 9.0	 9.6 9.6 9.4 9.4 9.4 9.2 9.3 9.0 9.2
$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $										 9.8 9.6 9.6 9.6 9.6 9.2 9.5 9.3	 9.4 9.5 9.2 8.8 8.9 8.9 9.0 8.9	 9.6 9.6 9.4 9.4 9.4 9.2 9.3 9.0 9.2 9.0
$ \begin{array}{c} 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\end{array} $										 9.8 9.6 9.6 9.6 9.6 9.6 9.5 9.6 9.2 9.5 9.3 9.4	 9.4 9.5 9.3 9.2 8.8 8.9 8.9 9.0 8.9 8.9 9.0 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	 9.6 9.4 9.4 9.4 9.2 9.3 9.0 9.2 9.0 9.2 9.0 9.1
$ \begin{array}{c} 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\end{array} $										 	 9.4 9.5 9.3 9.2 8.8 8.9 9.0 8.9 9.0 8.9 8.9 8.9 9.0 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	 9.6 9.4 9.4 9.4 9.4 9.2 9.3 9.0 9.2 9.0 9.2 9.0 9.1 9.0
$ \begin{array}{c} 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\end{array} $										 9.8 9.6 9.6 9.6 9.6 9.6 9.5 9.6 9.2 9.5 9.3 9.4 9.2 9.2 9.2	$\begin{array}{c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & &$	 9.6 9.4 9.4 9.4 9.2 9.3 9.0 9.2 9.0 9.2 9.0 9.1 9.0 8.8 8.8
$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ 24\\ 25\\ 26\\ 27\\ 28\\ 29\\ 30\\ \end{array}$										 9.8 9.8 9.6 9.6 9.6 9.6 9.6 9.5 9.6 9.2 9.5 9.3 9.4 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2 9.2	$\begin{array}{c} & & & & & \\ & & & & \\ & & & \\$	 9.6 9.6 9.4 9.4 9.4 9.2 9.3 9.0 9.2 9.0 9.2 9.0 9.2 9.0 9.2 9.0 9.2 9.0 9.2 9.0 9.2 9.0 8.8 8.8 8.8
$ \begin{array}{c} 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\end{array} $										 9.8 9.6 9.6 9.6 9.6 9.6 9.5 9.6 9.2 9.5 9.3 9.4 9.2 9.2 9.2	$\begin{array}{c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & &$	 -

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC-Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	JUNE			JULY				AUGUST		SEPTEMBER			
1 2 3 4 5	9.3 9.5 9.2 9.3 9.3	8.6 8.5 8.4 8.4 8.4	9.0 9.0 8.7 8.7 8.8	7.6 8.3 8.4 7.9 8.6	7.2 7.4 7.7 7.7 7.7	7.4 8.1 8.0 7.8 8.1	8.3 8.1 8.3 8.5	6.9 7.4 6.7 7.0	7.5 7.7 7.4 7.7	8.1 7.1 7.3 6.4 6.9	6.0 5.1 5.1 5.1 5.1 5.1	7.0 6.0 5.8 5.5 5.8	
6 7 8 9 10	9.5 8.3 8.1 8.6 8.6	7.7 7.4 7.8 7.9 7.8	8.4 8.0 7.9 8.2 8.3	8.2 8.3 8.1 8.1 8.1	7.8 7.5 7.4 7.4 7.4	8.1 7.9 7.7 7.7 7.7	8.6 8.4 8.5 8.5 8.6	6.7 6.7 6.8 7.0 7.1	7.6 7.6 7.7 7.7 7.8	7.8 7.5 7.5 7.2 7.8	6.4 6.4 5.8 5.8 5.7	6.8 6.8 6.5 6.3 6.4	
11 12 13 14 15	8.7 8.4 8.3 8.5 8.6	7.9 7.7 7.8 7.6 7.9	8.2 8.1 8.1 8.1 8.2	8.2 8.5 8.5 8.3 7.9	7.4 7.6 7.9 7.6 7.6	7.8 8.0 8.2 7.9 7.8	8.5 7.4 7.3 8.1	6.4 6.4 6.8 6.8	7.3 6.9 7.0 7.3	8.3 8.4 8.5 8.6 8.2	6.1 6.3 6.4 6.2 6.0	6.8 7.4 7.0 6.9 7.3	
16 17 18 19 20	8.6 8.9 9.1 8.7 8.9	8.4 8.0 7.9 7.8 7.8	8.5 8.4 8.5 8.1 8.3	8.7 8.9 8.8 8.0 7.9	7.8 7.8 7.1 7.1 6.9	8.1 8.3 7.8 7.6 7.4	 7.9 7.7	 6.4 6.5	 7.0 7.0	8.8 8.7 8.6 7.9 8.1	7.1 7.1 6.4 6.3 6.8	7.8 7.6 7.5 7.1 7.3	
21 22 23 24 25	8.7 9.6 9.6 8.9 8.8	7.7 8.0 7.7 7.8 7.6	8.2 8.9 8.6 8.3 8.1	8.2 8.2 8.5 8.5 8.3	6.9 7.3 7.3 6.9 6.9	7.4 7.9 8.0 7.8 7.6	7.5 8.1 7.8 7.8 7.9	6.7 6.7 6.3 6.2 5.6	7.0 7.4 7.0 7.0 6.8	8.4 7.7 7.4 7.4 8.1	6.9 6.6 6.4 7.1 7.1	7.5 7.1 7.0 7.3 7.5	
26 27 28 29 30 31	8.5 8.5 8.8 8.8 8.6	7.1 7.5 7.6 7.5 7.3	7.8 8.0 8.1 8.1 7.8	8.2 7.8 7.7 7.7 7.7	6.6 7.0 6.4 6.7 6.4	7.4 7.4 7.2 7.1 6.9	7.7 7.4 7.2 8.0 7.6 8.6	5.8 5.1 5.7 5.9 5.7 6.6	6.5 6.4 6.4 6.8 6.5 7.4	7.8 7.9 8.5 8.6 8.6	7.0 6.9 7.6 7.8 7.5	7.4 7.4 8.0 8.1 7.9	
MONTH	9.6	7.1	8.3	8.9	6.4	7.7	8.6	5.1	7.2	8.8	5.1	7.0	