

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

pH: April 1999 to current year.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with radio telemetry.

REMARKS.--Station operated in cooperation with Mecklenburg County Department of Environmental Protection to characterize water-quality conditions in Little Sugar Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 740 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	5220, January 23, 2000	26, October 10, 1999, April 13, 15, 2000
pH, standard units	10.6, March 16, 2000	5.9, April 23, 1999
WATER TEMPERATURE, °C	31.4, July 31, 1999	1.5, December 31, 2000, January 3, 2001
DISSOLVED OXYGEN, mg/L	≥ 20.0, September 3, 1999	2.2, August 18, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	184, May 20, 2000	24, September 5, 1999

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	2190, December 22	34, September 24
pH, standard units	8.9, January 19	6.5, September 3, 4
WATER TEMPERATURE, °C	29.8, August 11	1.5, December 31, January 3
DISSOLVED OXYGEN, mg/L	13.1, January 3	3.3, April 24
DISSOLVED OXYGEN, PERCENT SATURATION,%	145, June 21	38, April 15

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02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	270	260	266	254	250	252
2	---	---	---	---	---	---	275	262	270	252	242	246
3	---	---	---	---	---	---	263	259	260	462	240	317
4	---	---	---	---	---	---	266	225	259	259	233	239
5	---	---	---	---	---	---	268	232	260	271	241	257
6	---	---	---	---	---	---	260	252	256	420	243	280
7	---	---	---	---	---	---	265	242	259	269	263	266
8	255	207	243	---	---	---	274	260	268	489	170	223
9	252	239	247	---	---	---	274	267	270	220	189	208
10	258	247	252	---	---	---	270	264	268	250	220	239
11	---	---	---	219	187	203	271	265	269	264	232	255
12	---	---	---	230	219	222	269	266	268	285	158	221
13	---	---	---	250	124	239	267	202	256	212	170	189
14	---	---	---	247	72	150	351	151	230	236	212	226
15	---	---	---	182	148	169	240	226	233	255	236	248
16	---	---	---	219	168	202	259	84	161	270	231	255
17	---	---	---	215	76	136	160	71	117	260	246	254
18	---	---	---	197	153	176	221	160	184	263	195	248
19	---	---	---	231	60	140	982	198	302	234	69	183
20	---	---	---	164	100	130	982	345	471	179	121	144
21	---	---	---	200	164	181	672	278	340	208	153	178
22	---	---	---	231	196	217	2190	357	911	238	208	228
23	---	---	---	243	231	237	377	318	346	255	236	247
24	---	---	---	257	242	251	318	288	304	253	244	250
25	---	---	---	322	59	150	288	273	279	267	248	261
26	---	---	---	182	110	153	274	261	267	265	253	260
27	---	---	---	246	182	209	419	267	292	267	256	262
28	---	---	---	260	234	250	530	297	385	266	253	260
29	---	---	---	259	244	252	297	285	289	264	198	252
30	---	---	---	267	255	261	299	278	291	255	147	212
31	---	---	---	---	---	---	325	250	273	239	201	216
MONTH	---	---	---	---	---	---	2190	71	294	489	69	238

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	255	239	251	289	274	282	278	174	248	311	295	307
2	265	254	261	292	157	262	280	251	267	317	303	310
3	264	249	259	286	93	204	291	210	261	314	299	305
4	262	254	258	184	48	117	276	249	261	315	291	302
5	258	253	255	223	153	196	---	---	---	315	287	303
6	259	253	256	268	223	246	---	---	---	311	283	300
7	263	253	260	282	266	269	---	---	---	305	290	299
8	270	241	260	289	270	282	---	---	---	310	290	302
9	269	260	266	293	277	288	---	---	---	306	292	297
10	291	195	243	295	286	290	---	---	---	294	281	288
11	252	239	247	291	277	286	317	288	300	295	276	286
12	251	173	206	294	126	260	---	---	---	292	282	286
13	227	87	198	217	152	182	---	---	---	303	266	281
14	229	95	182	265	217	244	---	---	---	291	275	283
15	247	198	224	275	68	135	---	---	---	302	290	295
16	265	175	254	237	140	193	---	---	---	302	288	293
17	183	62	122	285	237	259	---	---	---	306	289	296
18	241	176	213	286	272	276	---	---	---	312	297	305
19	260	241	253	286	278	283	---	---	---	313	292	302
20	268	260	264	289	59	171	342	308	321	307	288	300
21	280	265	273	207	67	143	335	311	321	296	86	173
22	285	66	158	263	207	236	331	315	321	199	103	152
23	218	138	185	290	263	276	344	314	329	232	129	179
24	257	218	237	299	284	291	349	225	308	261	71	214
25	268	112	170	322	291	298	271	76	121	199	100	156
26	229	146	194	310	276	283	245	158	210	177	80	131
27	269	229	246	301	289	294	282	245	266	237	177	218
28	285	262	273	304	287	295	295	282	288	244	85	144
29	---	---	---	296	45	124	300	291	297	153	64	94
30	---	---	---	240	95	184	307	276	294	127	82	109
31	---	---	---	---	---	---	---	---	---	150	127	138
MONTH	291	62	231	---	---	---	---	---	---	317	64	247

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	204	76	145	271	257	265	285	271	280	236	138	203
2	228	141	187	292	211	277	284	275	280	278	236	266
3	263	228	245	289	261	284	292	283	287	273	40	110
4	289	235	276	290	55	231	290	252	282	140	48	95
5	294	287	291	195	72	140	296	261	278	242	139	194
6	294	270	286	249	195	226	282	266	276	---	---	---
7	295	282	288	266	249	260	293	272	286	---	---	---
8	292	181	241	271	183	230	303	284	291	274	259	268
9	248	214	231	259	231	245	295	283	291	275	76	207
10	273	248	261	263	252	256	301	147	292	240	186	228
11	285	273	279	281	263	272	287	117	182	269	232	259
12	293	280	287	290	279	283	222	142	190	309	268	294
13	293	46	218	291	209	246	257	127	204	288	273	282
14	206	82	153	273	256	268	278	179	247	294	213	264
15	255	206	234	283	263	275	308	269	286	270	212	241
16	274	255	266	286	270	281	274	257	264	---	---	---
17	283	274	280	290	267	282	285	274	280	297	269	290
18	291	220	272	292	202	274	289	83	254	296	289	294
19	295	258	283	268	202	246	197	106	156	303	292	297
20	309	294	301	285	268	278	239	197	222	295	73	157
21	315	301	307	289	277	286	271	239	248	---	---	---
22	313	54	245	289	277	283	284	269	277	---	---	---
23	206	102	156	288	194	267	287	280	284	252	242	247
24	258	206	235	220	53	155	286	196	237	250	34	103
25	293	258	277	210	95	146	280	249	269	216	124	174
26	295	68	219	171	104	135	278	255	269	253	216	235
27	238	158	201	231	171	207	293	263	280	272	251	262
28	325	174	264	342	224	262	290	283	287	---	---	---
29	217	148	179	294	216	264	292	258	277	288	280	284
30	259	217	243	268	219	250	286	178	254	287	282	284
31	---	---	---	282	262	276	284	95	217	---	---	---
MONTH	325	46	245	342	53	247	308	83	259	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.2	7.2	7.2	7.4	7.2	7.3
2	---	---	---	---	---	---	7.3	7.1	7.2	7.4	7.2	7.3
3	---	---	---	---	---	---	7.3	7.1	7.2	7.3	7.1	7.2
4	---	---	---	---	---	---	7.3	7.2	7.2	7.2	7.1	7.1
5	---	---	---	---	---	---	7.2	7.1	7.2	7.3	7.1	7.2
6	---	---	---	---	---	---	7.2	7.1	7.1	7.2	7.0	7.1
7	---	---	---	---	---	---	7.2	7.1	7.1	7.2	7.0	7.1
8	7.5	7.3	7.4	---	---	---	7.2	7.0	7.1	7.8	7.0	7.2
9	7.5	7.3	7.4	---	---	---	7.1	7.0	7.0	7.0	6.8	6.9
10	7.5	7.2	7.4	---	---	---	7.1	7.0	7.1	7.3	6.9	7.1
11	---	---	---	7.2	7.1	7.2	7.1	6.9	7.0	7.3	7.2	7.2
12	---	---	---	7.3	7.2	7.3	7.1	6.9	7.0	7.9	7.2	7.3
13	---	---	---	7.5	7.3	7.4	7.4	7.0	7.2	7.5	7.0	7.2
14	---	---	---	7.8	7.2	7.4	7.7	7.2	7.3	7.2	7.0	7.1
15	---	---	---	7.2	7.2	7.2	7.7	7.1	7.2	7.3	7.1	7.2
16	---	---	---	7.3	7.2	7.2	8.4	7.0	7.3	7.3	7.1	7.2
17	---	---	---	7.4	6.9	7.2	8.1	7.0	7.1	7.5	7.1	7.3
18	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0	7.4	7.2	7.3
19	---	---	---	7.2	6.8	7.0	7.2	6.9	7.1	8.9	7.2	7.4
20	---	---	---	7.1	6.8	6.9	7.3	7.0	7.2	7.2	7.1	7.2
21	---	---	---	7.2	7.1	7.1	7.5	7.3	7.3	7.2	7.2	7.2
22	---	---	---	7.1	7.1	7.1	7.4	7.3	7.4	7.3	7.2	7.3
23	---	---	---	7.2	7.1	7.1	7.4	7.4	7.4	7.5	7.3	7.4
24	---	---	---	7.2	7.2	7.2	7.4	7.4	7.4	7.6	7.4	7.5
25	---	---	---	8.3	7.0	7.2	7.5	7.4	7.4	7.5	7.4	7.5
26	---	---	---	7.2	7.0	7.1	7.5	7.4	7.4	7.6	7.4	7.5
27	---	---	---	7.4	7.2	7.3	7.7	7.3	7.5	7.5	7.4	7.5
28	---	---	---	7.3	7.1	7.2	7.5	7.3	7.4	7.6	7.4	7.4
29	---	---	---	7.3	7.1	7.2	7.4	7.3	7.4	7.6	7.4	7.5
30	---	---	---	7.3	7.2	7.2	7.5	7.3	7.4	7.5	7.1	7.3
31	---	---	---	---	---	---	7.4	7.2	7.3	7.5	7.1	7.3
MONTH	---	---	---	---	---	---	8.4	6.9	7.2	8.9	6.8	7.3

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.7	7.4	7.5	7.6	7.4	7.5	7.5	7.3	7.4	7.5	7.3	7.4
2	7.8	7.4	7.6	7.7	7.4	7.5	7.5	7.4	7.5	7.6	7.3	7.4
3	7.8	7.5	7.6	7.4	7.2	7.3	7.5	7.4	7.4	7.8	7.2	7.5
4	7.8	7.5	7.6	7.6	6.9	7.1	7.5	7.4	7.4	7.8	7.2	7.5
5	7.7	7.5	7.6	7.3	7.1	7.2	---	---	---	7.9	6.9	7.5
6	7.8	7.5	7.6	7.3	7.2	7.2	---	---	---	8.2	7.2	7.7
7	7.8	7.5	7.6	7.4	7.1	7.3	---	---	---	8.6	7.5	8.0
8	7.8	7.5	7.6	7.6	7.3	7.4	---	---	---	8.5	7.9	8.1
9	7.9	7.5	7.7	7.6	7.4	7.5	---	---	---	8.4	7.7	8.1
10	7.7	7.3	7.5	7.6	7.5	7.5	---	---	---	8.3	7.7	8.0
11	7.8	7.4	7.6	7.7	7.5	7.6	8.1	7.4	7.7	8.2	7.6	7.8
12	7.5	7.3	7.4	8.4	7.4	7.6	8.4	7.4	7.8	8.1	7.4	7.7
13	7.8	7.2	7.4	7.5	6.9	7.2	---	---	---	8.0	7.4	7.6
14	7.6	7.3	7.4	7.6	7.0	7.4	---	---	---	7.9	7.3	7.5
15	7.5	7.3	7.4	7.9	7.2	7.4	---	---	---	7.9	7.0	7.4
16	7.6	7.1	7.4	7.4	7.3	7.4	---	---	---	8.1	7.2	7.6
17	8.5	7.1	7.4	7.6	7.4	7.5	---	---	---	7.7	7.2	7.4
18	7.4	7.3	7.4	7.7	7.5	7.6	---	---	---	8.1	7.1	7.6
19	7.5	7.4	7.4	7.7	7.5	7.6	---	---	---	7.9	7.3	7.5
20	7.5	7.4	7.4	7.9	7.2	7.5	---	---	---	7.8	7.2	7.4
21	7.5	7.4	7.4	7.3	7.1	7.2	---	---	---	7.7	6.8	7.1
22	8.3	7.3	7.4	7.7	7.2	7.4	---	---	---	7.9	6.6	7.1
23	7.4	7.3	7.4	7.6	7.5	7.5	---	---	---	7.1	6.8	7.0
24	7.6	7.4	7.5	7.6	7.4	7.5	---	---	---	8.1	6.8	7.2
25	7.8	7.2	7.4	7.7	7.5	7.6	7.6	7.1	7.3	7.3	7.0	7.2
26	7.4	7.2	7.3	7.7	7.5	7.6	7.4	7.2	7.3	7.3	6.8	7.0
27	7.6	7.4	7.5	7.7	7.5	7.6	7.5	7.3	7.4	7.4	7.1	7.3
28	7.6	7.3	7.4	7.7	7.6	7.6	7.5	7.3	7.4	7.3	6.8	7.0
29	---	---	---	7.6	7.0	7.3	7.6	7.3	7.4	7.1	6.7	6.9
30	---	---	---	7.4	7.1	7.3	7.6	7.4	7.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.5	7.1	7.5	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	7.8	7.2	7.4	8.0	7.2	7.5	7.0	6.7	6.8
2	---	---	---	7.6	6.9	7.3	8.3	7.3	7.6	7.0	6.8	6.9
3	---	---	---	7.8	7.0	7.3	8.3	7.1	7.5	7.3	6.5	6.7
4	---	---	---	8.2	6.9	7.5	7.7	7.2	7.4	6.9	6.5	6.7
5	---	---	---	7.4	6.9	7.2	8.1	7.2	7.5	6.8	6.7	6.7
6	7.9	7.6	7.8	7.6	7.3	7.4	8.0	7.3	7.6	---	---	---
7	8.0	7.7	7.8	7.7	7.3	7.5	7.9	7.3	7.5	---	---	---
8	7.8	7.5	7.7	7.5	7.1	7.3	7.9	7.3	7.5	7.4	6.8	7.0
9	7.8	7.5	7.6	7.5	7.2	7.3	7.8	7.2	7.5	7.1	6.7	7.0
10	8.2	7.6	7.8	7.7	7.1	7.3	7.9	7.2	7.4	7.2	6.9	7.0
11	8.5	7.6	7.9	8.0	7.2	7.4	7.9	6.8	7.0	7.1	6.8	6.9
12	8.4	7.4	7.8	8.2	7.2	7.6	7.1	6.8	6.9	7.4	6.8	7.1
13	8.3	6.8	7.3	7.7	7.1	7.4	7.1	6.6	6.9	7.7	7.0	7.3
14	7.1	6.8	7.0	8.0	7.2	7.5	7.1	6.7	6.9	8.1	7.2	7.6
15	7.3	7.1	7.2	8.4	7.3	7.6	7.1	6.8	7.0	8.0	7.3	7.5
16	7.5	7.2	7.3	8.4	7.3	7.7	7.1	6.8	7.0	---	---	---
17	7.6	7.2	7.4	8.5	7.2	7.7	7.3	7.0	7.1	8.1	7.4	7.7
18	7.7	7.2	7.4	8.5	6.9	7.7	8.0	6.7	7.2	8.0	7.5	7.6
19	7.8	7.2	7.5	7.5	6.8	7.1	7.0	6.7	6.9	8.0	7.5	7.7
20	8.1	7.1	7.6	7.9	6.9	7.3	7.2	7.0	7.1	7.6	7.3	7.4
21	8.3	7.2	7.7	8.2	7.2	7.6	7.6	7.1	7.3	---	---	---
22	7.8	6.6	7.3	8.3	7.3	7.6	7.8	7.4	7.5	---	---	---
23	6.9	6.6	6.7	7.9	7.2	7.5	8.1	7.4	7.7	7.9	7.6	7.7
24	7.1	6.8	6.9	8.6	7.0	7.3	7.6	7.4	7.5	8.2	7.0	7.3
25	7.3	6.9	7.1	7.7	7.3	7.4	8.0	7.5	7.7	7.5	7.2	7.4
26	8.2	7.0	7.2	7.4	7.2	7.3	8.3	7.5	7.8	7.6	7.5	7.5
27	7.5	7.2	7.4	7.5	7.3	7.4	8.4	7.5	7.8	7.7	7.6	7.6
28	7.7	7.3	7.4	7.5	7.4	7.5	8.4	7.5	7.8	---	---	---
29	7.5	7.1	7.3	7.7	7.4	7.5	8.0	7.4	7.6	7.8	7.5	7.6
30	7.6	7.2	7.4	7.6	7.3	7.4	7.7	7.2	7.4	7.8	7.5	7.6
31	---	---	---	7.8	7.3	7.5	7.6	6.7	7.2	---	---	---
MONTH	---	---	---	8.6	6.8	7.4	8.4	6.6	7.4	---	---	---

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	9.2	7.3	8.4	4.1	2.3	3.2
2	---	---	---	---	---	---	8.9	7.8	8.1	3.9	2.2	3.2
3	---	---	---	---	---	---	7.8	5.8	6.6	3.7	1.5	2.7
4	---	---	---	---	---	---	6.6	4.2	5.5	4.7	1.7	3.1
5	---	---	---	---	---	---	7.2	4.2	5.8	5.7	2.7	4.1
6	---	---	---	---	---	---	6.7	5.3	6.0	6.1	3.7	4.9
7	---	---	---	---	---	---	7.9	5.5	6.7	6.6	4.2	5.4
8	19.0	13.9	15.5	---	---	---	8.8	6.2	7.5	7.4	6.4	6.9
9	14.4	12.4	13.5	---	---	---	8.6	7.1	8.0	6.8	4.8	5.9
10	15.2	11.8	13.5	---	---	---	8.5	7.5	7.8	6.4	3.5	4.9
11	---	---	---	15.3	12.7	13.9	9.4	7.7	8.4	7.0	4.2	5.7
12	---	---	---	14.2	12.1	13.3	10.7	8.1	9.8	8.0	6.5	7.2
13	---	---	---	14.2	11.9	13.1	8.1	5.7	6.5	7.9	5.5	6.8
14	---	---	---	14.6	12.6	13.8	7.7	6.1	6.8	9.2	7.1	8.0
15	---	---	---	12.6	10.5	11.7	7.9	7.3	7.7	10.9	8.1	9.4
16	---	---	---	11.9	10.2	10.9	8.4	6.2	7.0	10.5	8.7	9.6
17	---	---	---	12.1	10.6	11.1	11.8	7.1	9.5	9.6	8.1	8.8
18	---	---	---	10.6	9.0	9.7	7.7	5.3	6.5	9.6	8.7	9.0
19	---	---	---	9.7	5.8	7.4	7.3	5.4	6.2	10.7	8.7	9.4
20	---	---	---	9.6	6.3	8.0	5.4	3.1	4.3	11.1	8.0	10.2
21	---	---	---	8.7	6.8	7.5	5.6	3.3	4.2	8.0	5.7	6.7
22	---	---	---	7.5	5.0	6.4	6.0	4.1	5.2	7.6	5.5	6.4
23	---	---	---	8.6	6.2	7.4	4.4	2.4	3.5	7.4	4.5	6.0
24	---	---	---	9.3	7.7	8.4	5.2	3.0	4.0	8.4	5.6	6.9
25	---	---	---	9.5	8.2	8.9	4.6	2.7	3.4	7.5	6.0	6.8
26	---	---	---	10.8	9.3	9.9	4.2	2.1	3.1	7.0	4.2	5.7
27	---	---	---	10.7	8.8	9.8	5.0	3.6	4.1	8.4	5.3	6.8
28	---	---	---	10.7	8.4	9.6	5.1	4.1	4.9	8.0	5.1	6.6
29	---	---	---	11.3	9.0	10.1	4.4	2.7	3.7	9.3	5.8	7.5
30	---	---	---	11.0	8.9	9.8	4.1	2.7	3.6	11.7	8.9	10.6
31	---	---	---	---	---	---	3.8	1.5	2.6	11.7	9.7	10.7
MONTH	---	---	---	---	---	---	11.8	1.5	6.0	11.7	1.5	6.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.9	9.4	10.1	14.1	11.2	12.6	14.3	12.3	13.4	21.8	17.0	19.3
2	9.9	8.5	9.4	16.1	12.0	13.9	14.6	10.1	12.4	22.1	18.0	20.0
3	8.5	6.6	7.6	15.0	12.2	13.8	14.1	12.7	13.3	22.6	18.1	20.3
4	9.5	6.9	8.0	12.4	11.1	11.8	14.8	13.2	13.9	23.0	18.4	20.7
5	10.1	7.6	8.8	13.0	10.4	11.7	---	---	---	23.6	19.0	21.2
6	10.1	6.8	8.5	10.4	7.3	8.4	---	---	---	22.0	19.6	20.6
7	11.4	7.2	9.2	10.1	6.7	8.2	---	---	---	20.3	17.0	18.8
8	12.1	8.7	10.3	11.4	7.0	9.1	---	---	---	19.5	17.4	18.5
9	13.0	9.5	11.2	12.6	9.2	10.6	---	---	---	21.4	18.2	19.6
10	14.4	11.6	13.2	11.9	7.9	9.8	---	---	---	22.7	18.4	20.6
11	11.6	8.4	9.7	12.8	8.4	10.5	22.4	19.5	20.8	23.6	19.4	21.5
12	9.6	6.9	7.9	14.6	10.7	12.2	22.8	19.4	21.1	22.8	20.1	21.5
13	9.8	6.8	7.9	16.5	13.5	14.7	---	---	---	22.2	19.4	20.9
14	11.7	9.4	10.3	15.5	12.4	13.9	---	---	---	21.0	17.4	19.4
15	13.9	11.7	13.0	14.2	12.0	12.7	---	---	---	22.4	18.1	20.2
16	15.7	13.2	14.3	12.3	11.5	11.8	---	---	---	23.3	19.2	21.3
17	15.1	10.8	12.6	14.8	10.7	12.5	---	---	---	21.8	19.2	19.9
18	10.8	7.8	9.1	13.3	10.3	11.9	---	---	---	23.3	18.6	20.9
19	10.6	7.4	8.8	12.9	9.4	11.2	---	---	---	24.5	20.0	22.3
20	12.4	8.5	10.3	11.1	7.8	9.0	17.3	12.9	15.0	24.0	21.2	22.7
21	12.1	11.0	11.5	10.2	8.4	9.3	19.8	15.1	17.3	23.4	21.7	22.5
22	11.2	6.2	7.6	13.3	8.8	11.0	21.1	16.8	18.9	23.6	21.3	22.2
23	10.4	5.9	7.8	14.4	10.4	12.4	22.1	17.7	19.8	22.5	18.9	20.7
24	12.0	8.3	10.0	15.0	11.1	13.0	22.6	18.6	20.4	23.3	18.4	20.3
25	14.1	11.4	12.8	14.1	11.5	12.9	20.4	15.0	16.2	20.9	19.3	20.3
26	15.0	12.2	13.6	13.2	10.3	11.9	18.2	14.0	15.9	21.9	18.2	19.9
27	13.9	11.2	12.6	12.4	8.6	10.4	19.9	14.4	17.0	22.7	18.5	20.6
28	13.4	12.4	12.9	12.9	8.7	10.7	21.3	16.2	18.6	21.1	18.7	19.6
29	---	---	---	11.5	8.4	9.6	19.5	16.9	17.9	22.6	19.5	20.7
30	---	---	---	14.1	8.8	11.2	20.4	15.9	18.1	23.8	19.7	21.7
31	---	---	---	15.2	12.0	13.7	---	---	---	23.0	20.2	21.6
MONTH	15.7	5.9	10.3	16.5	6.7	11.5	---	---	---	24.5	17.0	20.7

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.5	20.6	21.5	26.4	24.1	25.4	25.2	23.4	24.3	24.5	23.7	24.2
2	24.0	20.2	21.9	26.5	24.4	25.5	25.4	22.8	24.2	24.6	23.5	24.1
3	24.7	20.1	22.3	26.0	23.7	24.9	25.8	22.8	24.5	24.4	21.5	22.5
4	25.7	21.3	23.5	27.5	23.9	25.1	25.6	23.8	24.3	22.0	21.0	21.6
5	26.9	22.7	24.8	27.3	23.2	25.1	26.1	23.2	24.7	25.3	21.5	23.2
6	26.5	23.1	24.8	26.4	23.9	25.2	26.9	24.3	25.7	---	---	---
7	25.2	23.4	24.1	25.9	23.5	24.8	27.1	24.8	26.2	24.7	22.6	23.8
8	23.9	22.1	23.1	25.3	23.7	24.2	27.8	25.2	26.7	24.7	22.3	23.7
9	23.9	22.0	22.9	25.9	23.1	24.4	28.4	25.7	27.2	24.7	22.6	23.8
10	25.2	21.4	23.4	27.9	23.7	25.7	28.3	26.3	27.4	26.0	23.5	24.8
11	25.4	22.3	23.9	27.7	25.1	26.5	29.8	26.3	27.7	25.6	23.4	24.4
12	25.4	22.8	24.1	26.9	24.2	25.8	28.3	26.2	27.4	24.2	22.2	23.3
13	27.0	23.3	24.5	26.2	23.6	24.3	27.4	25.5	26.2	23.5	21.4	22.7
14	26.8	22.7	24.6	25.2	22.2	23.8	26.7	24.7	25.8	22.9	21.2	22.1
15	26.7	23.6	25.1	25.3	22.7	24.1	26.4	24.5	25.5	22.2	18.8	20.0
16	26.8	23.8	25.3	25.1	22.5	24.0	26.8	24.0	25.5	---	---	---
17	26.5	22.7	24.7	25.9	23.1	24.6	27.2	25.1	26.3	20.4	18.3	19.6
18	26.4	23.0	25.0	26.6	23.8	25.2	27.1	24.9	26.1	21.3	18.7	20.1
19	25.9	23.9	24.9	26.6	24.5	25.6	26.8	24.3	25.5	22.2	19.5	21.0
20	26.0	23.0	24.7	26.0	24.2	25.1	26.8	24.5	25.7	22.8	21.1	22.1
21	26.1	23.5	25.0	25.2	23.0	24.3	25.7	23.2	24.5	---	---	---
22	26.0	23.7	24.5	25.4	22.1	24.0	25.1	22.6	24.1	---	---	---
23	25.1	22.6	23.8	26.2	22.9	24.5	26.0	22.9	24.6	24.3	22.4	23.5
24	24.9	22.2	23.6	28.0	24.8	25.8	27.7	25.2	26.4	23.9	21.2	22.1
25	25.0	22.0	23.6	25.7	24.3	25.0	25.9	23.8	25.0	21.2	18.8	20.1
26	26.7	22.6	24.2	25.8	23.3	24.4	25.5	23.7	24.8	19.4	16.7	18.1
27	26.7	23.1	24.9	25.3	23.2	24.2	26.6	24.3	25.6	19.8	16.9	18.4
28	26.9	23.5	25.2	24.3	22.5	23.3	26.4	24.5	25.7	---	---	---
29	27.0	23.7	25.4	25.1	23.2	23.9	26.5	24.8	25.9	18.4	16.3	17.4
30	27.1	24.4	25.8	26.0	23.3	24.7	27.1	24.7	25.6	17.9	16.1	17.1
31	---	---	---	25.8	23.6	24.8	26.1	24.3	25.1	---	---	---
MONTH	27.1	20.1	24.2	28.0	22.1	24.8	29.8	22.6	25.6	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	9.4	8.2	8.8	12.4	11.6	11.9
2	---	---	---	---	---	---	9.6	8.2	9.1	12.5	11.8	12.1
3	---	---	---	---	---	---	10.9	9.2	10.2	13.1	12.0	12.4
4	---	---	---	---	---	---	11.5	10.1	10.9	12.8	11.5	12.2
5	---	---	---	---	---	---	11.4	10.2	10.8	12.6	10.9	11.8
6	---	---	---	---	---	---	11.3	10.2	10.7	12.3	10.8	11.4
7	---	---	---	---	---	---	11.1	10.0	10.5	12.6	10.7	11.5
8	9.4	7.5	8.6	---	---	---	10.8	9.6	10.2	11.1	10.2	10.7
9	10.1	8.7	9.3	---	---	---	10.7	9.6	10.1	11.3	10.2	10.7
10	10.0	7.9	9.0	---	---	---	10.6	9.8	10.1	12.0	10.4	11.3
11	---	---	---	---	---	---	10.9	9.7	10.2	11.9	10.3	11.1
12	---	---	---	---	---	---	10.5	9.1	9.8	10.8	9.9	10.4
13	---	---	---	---	---	---	11.9	9.8	10.8	11.2	10.3	10.7
14	---	---	---	9.2	7.6	8.3	10.8	9.5	10.2	11.0	9.7	10.3
15	---	---	---	9.3	8.2	8.9	10.0	9.3	9.6	10.8	9.2	9.9
16	---	---	---	9.6	8.9	9.3	11.4	9.5	10.6	10.9	9.1	9.7
17	---	---	---	10.2	8.7	9.3	10.8	9.8	10.2	10.9	9.2	9.9
18	---	---	---	9.6	8.7	9.1	11.1	10.1	10.6	9.9	9.0	9.4
19	---	---	---	11.7	9.0	10.5	11.6	10.2	10.8	9.9	9.0	9.3
20	---	---	---	11.1	9.6	10.3	11.8	10.7	11.2	10.3	9.2	9.6
21	---	---	---	10.5	9.6	10.1	11.5	10.9	11.2	11.0	10.2	10.6
22	---	---	---	10.9	10.0	10.5	11.5	10.3	11.0	11.2	10.4	10.7
23	---	---	---	10.7	9.9	10.3	12.4	11.5	11.8	11.4	10.3	10.8
24	---	---	---	10.2	9.5	9.9	12.0	11.3	11.7	11.0	10.0	10.5
25	---	---	---	11.1	9.4	10.0	12.4	11.4	12.0	11.2	10.0	10.5
26	---	---	---	9.8	9.3	9.6	12.6	11.2	12.1	11.7	10.5	11.0
27	---	---	---	10.1	8.5	9.6	11.9	10.3	11.5	11.3	9.8	10.6
28	---	---	---	9.3	7.5	8.5	10.9	9.9	10.5	11.6	9.8	10.7
29	---	---	---	9.2	7.6	8.5	12.0	10.8	11.4	11.5	9.7	10.6
30	---	---	---	9.1	8.1	8.5	11.9	10.8	11.4	9.8	8.6	9.3
31	---	---	---	---	---	---	12.6	11.5	12.0	10.4	8.6	9.3
MONTH	---	---	---	---	---	---	12.6	8.2	10.7	13.1	8.6	10.7

## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.9	8.7	9.6	10.2	7.4	8.9	---	---	---	8.7	6.1	7.1
2	11.0	8.8	9.6	10.2	8.1	9.0	---	---	---	9.1	6.1	7.2
3	11.4	8.9	9.9	10.2	7.7	8.6	9.1	8.5	8.8	9.4	6.0	7.3
4	11.0	8.9	9.7	10.7	9.5	10.1	9.2	8.3	8.7	9.6	6.3	7.5
5	10.4	8.7	9.3	10.3	9.4	9.8	---	---	---	9.8	6.2	7.6
6	10.7	8.5	9.3	11.1	9.5	10.5	---	---	---	9.4	6.2	7.6
7	10.3	8.1	9.1	11.0	9.9	10.4	---	---	---	10.0	6.5	8.1
8	10.0	7.9	8.7	10.9	9.5	10.2	---	---	---	9.6	6.8	7.9
9	10.1	7.3	8.5	10.7	9.2	9.8	---	---	---	9.9	6.5	7.8
10	9.3	7.0	8.0	11.2	9.6	10.2	---	---	---	10.0	6.1	7.6
11	10.7	7.7	9.1	11.3	9.5	10.2	10.5	6.0	7.6	9.8	5.9	7.4
12	10.1	8.5	9.3	10.3	8.2	9.3	---	---	---	9.8	5.9	7.5
13	10.8	9.1	9.8	8.4	7.3	8.0	---	---	---	10.1	6.1	7.7
14	9.7	8.5	9.1	9.4	7.6	8.4	---	---	---	10.7	6.6	8.2
15	8.8	7.5	8.1	9.4	7.7	8.8	---	---	---	10.6	6.6	8.1
16	8.8	7.4	7.9	8.9	8.6	8.8	---	---	---	10.5	6.0	7.7
17	9.8	7.6	9.3	9.3	8.3	8.8	---	---	---	9.3	5.6	7.0
18	10.9	9.5	10.3	9.8	8.3	9.0	---	---	---	10.3	5.2	7.4
19	10.8	9.8	10.3	10.0	8.4	9.1	---	---	---	9.6	4.8	6.6
20	10.6	9.3	10.0	11.5	8.4	10.1	8.1	4.9	6.6	9.2	4.9	6.5
21	10.2	9.1	9.5	11.6	9.9	10.8	7.7	5.2	6.3	---	---	---
22	11.9	9.0	10.8	10.5	8.7	9.8	7.3	5.1	5.9	---	---	---
23	11.8	10.5	11.2	9.7	8.7	9.2	6.8	3.5	5.3	6.3	4.8	5.8
24	11.5	9.9	10.6	9.6	8.6	9.0	7.1	3.3	5.3	7.5	4.2	5.1
25	10.4	9.3	9.8	10.0	8.6	9.2	8.3	3.9	7.4	6.2	3.8	4.3
26	10.0	9.0	9.4	10.3	8.7	9.5	7.8	6.1	7.0	7.2	4.7	5.6
27	10.5	8.5	9.7	10.8	9.5	10.1	7.2	5.6	6.4	5.6	4.4	5.0
28	9.5	7.2	8.1	11.2	9.6	10.2	6.7	5.1	5.8	8.7	4.5	6.6
29	---	---	---	---	---	---	7.5	5.2	6.3	8.4	6.3	7.2
30	---	---	---	---	---	---	8.2	5.9	6.8	7.1	5.3	6.4
31	---	---	---	---	---	---	---	---	---	6.5	5.2	5.8
MONTH	11.9	7.0	9.4	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.4	5.3	6.3	8.7	5.3	6.5	9.6	5.3	7.1	6.3	4.8	5.5
2	7.3	5.9	6.7	9.6	4.9	6.7	10.4	5.5	7.4	6.8	5.2	5.8
3	7.0	5.9	6.4	9.2	4.6	6.2	10.4	4.9	7.0	8.1	5.4	7.1
4	6.8	5.5	6.1	10.3	5.3	7.4	8.6	4.9	6.4	8.3	6.9	7.4
5	6.9	5.4	6.0	7.8	6.4	7.2	9.8	5.2	7.0	7.4	6.5	7.0
6	7.8	5.4	6.5	7.9	6.3	7.0	9.5	5.3	6.9	---	---	---
7	8.6	5.8	7.0	9.1	6.3	7.4	9.0	4.9	6.5	---	---	---
8	7.7	6.2	6.8	7.2	6.2	6.6	8.9	4.3	6.1	8.5	6.2	7.1
9	8.7	6.3	7.3	8.4	5.2	6.7	8.5	4.3	5.9	7.5	5.9	6.4
10	9.8	6.3	7.7	8.6	5.1	6.5	8.1	4.1	5.7	6.7	5.0	5.9
11	10.3	6.3	7.9	9.4	4.7	6.4	6.9	4.1	5.0	7.3	5.0	6.0
12	11.1	5.7	7.8	10.4	4.5	6.9	6.0	4.7	5.2	8.2	5.4	6.5
13	10.0	4.8	6.7	8.0	5.0	6.1	6.6	4.3	5.3	8.6	5.4	6.7
14	7.1	6.1	6.7	9.7	5.2	6.8	5.6	4.2	4.9	9.2	5.5	7.0
15	7.3	5.8	6.5	10.6	4.8	7.0	6.3	4.2	5.1	9.6	6.1	7.4
16	7.9	5.8	6.6	11.0	5.3	7.2	6.4	3.8	4.9	---	---	---
17	8.8	5.8	6.9	11.3	5.0	7.4	7.0	4.1	5.3	9.9	6.2	7.6
18	9.5	6.0	7.3	11.4	4.8	7.4	7.5	4.5	6.1	9.6	6.1	7.5
19	10.2	6.1	7.7	7.6	4.1	5.4	6.9	5.6	6.4	9.6	6.2	7.5
20	11.1	5.8	7.7	9.0	4.4	6.2	6.8	5.3	6.0	8.0	6.2	6.9
21	11.5	5.7	7.9	9.9	4.5	6.5	7.5	5.2	6.2	---	---	---
22	10.4	5.8	7.5	9.9	4.8	6.6	8.2	5.2	6.4	---	---	---
23	7.2	5.8	6.6	8.6	4.9	6.4	9.2	5.2	7.0	8.4	6.2	7.0
24	8.1	5.8	6.8	7.1	4.8	5.6	6.9	5.3	6.0	9.0	6.5	8.1
25	8.7	5.9	7.1	6.3	5.4	5.9	8.3	5.4	6.5	---	---	---
26	9.1	5.6	6.7	6.7	5.3	6.2	9.4	5.3	6.9	---	---	---
27	7.1	5.3	6.1	6.1	5.2	5.6	10.1	5.6	7.2	---	---	---
28	7.7	5.2	6.2	6.6	5.5	6.0	10.4	5.5	7.3	---	---	---
29	7.2	5.0	6.0	7.2	5.7	6.4	8.9	5.6	6.8	9.4	7.4	8.2
30	8.0	4.9	6.1	7.7	5.4	6.4	8.4	5.4	6.4	9.9	7.6	8.5
31	---	---	---	8.9	5.5	6.9	8.2	5.8	6.7	---	---	---
MONTH	11.5	4.8	6.9	11.4	4.1	6.6	10.4	3.8	6.2	---	---	---





## SANTEE RIVER BASIN

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	88	62	74	111	66	82	119	64	88	78	58	67
2	88	70	78	123	62	84	130	67	91	84	63	71
3	84	69	75	115	56	78	130	60	86	95	66	85
4	82	68	74	132	65	92	105	60	79	96	81	87
5	88	66	74	98	80	90	124	64	87	89	81	84
6	99	68	80	99	78	87	122	66	87	---	---	---
7	107	72	86	115	79	92	117	63	83	---	---	---
8	94	74	82	88	76	81	117	54	78	105	75	86
9	106	75	87	104	66	83	112	54	77	90	73	78
10	122	74	93	111	65	82	107	52	74	84	64	74
11	128	75	97	123	61	83	91	53	66	91	62	74
12	138	70	96	133	56	87	79	61	68	101	66	78
13	124	61	83	99	61	74	84	55	67	104	63	79
14	90	76	82	120	62	83	72	53	62	109	65	83
15	94	74	81	132	58	87	80	53	64	110	69	84
16	101	72	83	136	63	88	82	47	62	---	---	---
17	111	71	86	142	60	92	90	51	67	113	70	86
18	120	74	91	144	59	92	98	58	77	112	69	85
19	129	75	96	97	51	68	88	71	81	114	70	86
20	140	69	96	115	54	77	86	67	75	94	73	82
21	145	70	99	124	56	81	94	65	77	---	---	---
22	129	72	93	124	58	81	103	65	79	---	---	---
23	90	71	80	107	60	79	117	65	87	103	73	85
24	100	70	82	90	60	71	90	68	77	105	79	95
25	106	71	87	79	67	74	105	67	81	---	---	---
26	110	69	82	81	66	76	118	65	86	---	---	---
27	91	66	76	74	64	68	130	70	91	---	---	---
28	99	66	77	81	65	73	133	69	92	---	---	---
29	92	63	75	89	70	78	114	70	87	102	79	88
30	104	61	77	98	65	80	106	68	81	106	82	91
31	---	---	---	112	69	85	103	72	83	---	---	---
MONTH	145	61	84	144	51	82	133	47	79	---	---	---