

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 September 2002.

WATER TEMPERATURE: April 1999 to current year.

DISSOLVED OXYGEN: April 1999 to September 2002.

DISSOLVED OXYGEN, PERCENT SATURATION: April 1999 to September 2002.

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

REMARKS.--Station operated in cooperation with Mecklenburg County Land Use and Environmental Services Agency 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	6620, January 3, 2002	22, June 7, 2003
pH, standard units	10.6, March 16, 2000	5.9, April 23, 1999
WATER TEMPERATURE, °C	31.4, July 31, 1999	0.9, January 24, 2003
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	6040, February 17	22, June 7
WATER TEMPERATURE, °C	29.7, July 10	0.9, January 24

SANTEE RIVER BASIN

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	284	271	280	282	274	277	302	283	297	319	185	254
2	298	281	290	285	279	282	297	284	293	269	220	244
3	297	290	293	286	279	283	296	284	291	269	122	172
4	302	260	291	286	276	280	2,080	286	575	260	206	236
5	282	261	275	286	58	202	321	72	167	285	259	272
6	292	281	288	190	66	122	310	199	245	295	283	290
7	304	292	297	258	190	230	282	259	268	300	290	294
8	311	294	301	278	251	261	316	281	295	300	291	295
9	302	292	297	288	278	282	306	284	293	304	291	297
10	301	189	276	288	277	285	313	258	300	300	296	298
11	287	42	110	296	66	166	298	95	142	297	291	294
12	246	172	215	162	51	102	263	196	238	294	289	292
13	255	51	151	256	151	211	271	52	147	301	291	294
14	244	162	212	296	256	279	---	---	---	301	273	289
15	256	49	157	318	296	306	---	---	---	292	285	288
16	198	44	122	314	58	175	299	283	291	477	256	298
17	270	198	240	---	---	---	341	292	305	928	337	585
18	292	270	281	---	---	---	340	300	308	337	286	296
19	299	292	294	306	270	291	317	302	309	291	280	287
20	316	237	287	314	299	307	313	74	150	296	278	283
21	306	92	243	324	313	317	257	121	223	569	263	325
22	184	81	137	326	303	318	282	257	272	554	338	370
23	245	184	218	314	303	309	305	213	275	4,100	325	1,260
24	280	245	264	313	293	305	289	26	142	1,790	559	1,010
25	287	242	276	309	303	306	205	59	132	1,470	683	949
26	269	228	258	310	298	304	301	205	243	992	649	749
27	276	264	270	308	297	303	307	277	285	649	469	507
28	281	75	182	301	295	297	315	286	303	479	403	442
29	183	112	156	301	292	295	326	301	313	1,640	429	754
30	241	183	212	303	295	299	313	295	304	854	126	295
31	275	241	258	---	---	---	306	297	300	294	176	249
MONTH	316	42	240	---	---	---	---	---	---	4,100	122	412
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	312	285	305	300	85	232	298	266	282	322	311	317
2	312	307	309	251	98	176	311	265	296	324	153	285
3	318	306	312	306	251	284	317	310	313	279	191	231
4	315	169	232	327	303	315	318	297	313	279	204	232
5	280	210	253	330	208	263	315	194	277	296	232	275
6	302	125	266	281	54	140	282	95	248	232	64	111
7	217	94	143	288	217	259	204	53	113	259	144	220
8	260	217	241	323	288	307	258	71	203	288	259	275
9	274	259	266	324	317	321	207	42	119	307	288	301
10	273	116	190	343	318	326	119	43	79	317	305	311
11	271	225	252	337	320	327	251	111	202	321	314	318
12	286	265	276	354	325	332	301	251	281	326	317	322
13	295	280	288	361	327	334	313	298	306	329	317	324
14	295	179	261	335	325	329	315	289	306	331	315	324
15	244	199	217	330	72	244	322	312	319	327	66	275
16	4,150	240	1,210	212	41	129	326	315	320	241	125	193
17	6,040	901	2,330	278	212	244	335	318	327	273	241	258
18	1,060	339	690	265	188	220	330	63	131	293	148	246
19	407	363	379	274	61	238	232	99	167	274	206	233
20	561	359	411	217	40	106	288	232	267	302	257	281
21	409	367	378	303	217	266	303	244	286	311	59	219
22	431	89	241	322	298	313	314	272	296	149	52	84
23	268	188	231	338	318	327	322	307	316	224	147	190
24	318	268	296	359	328	335	328	320	324	265	71	237
25	355	317	325	343	330	335	328	172	239	175	68	113
26	371	144	289	337	330	333	243	199	221	235	69	203
27	180	110	141	360	289	310	288	233	262	229	73	170
28	277	154	231	320	309	317	306	287	298	266	228	249
29	---	---	---	322	308	315	318	302	310	284	250	265
30	---	---	---	318	66	141	316	308	312	298	261	288
31	---	---	---	268	171	231	---	---	---	295	105	201
MONTH	6,040	89	392	361	40	269	335	42	258	331	52	244

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	257	156	220	308	113	270	309	259	283	253	101	184
2	282	257	271	189	43	113	300	187	278	297	247	275
3	286	118	217	276	172	233	310	76	220	308	290	298
4	227	140	189	299	276	290	243	28	165	307	132	228
5	294	227	263	303	297	300	224	48	138	269	196	228
6	326	84	278	306	299	302	269	116	217	321	269	290
7	132	22	73	309	302	306	288	133	274	303	293	298
8	228	49	159	342	272	299	285	74	236	305	293	299
9	262	49	185	398	74	264	234	87	170	323	283	295
10	313	262	295	249	108	197	238	68	189	294	281	288
11	340	311	327	288	68	210	294	237	272	304	288	296
12	336	123	275	245	39	177	301	114	263	306	282	298
13	322	229	287	189	34	108	241	116	182	309	296	301
14	330	321	327	247	88	189	281	42	213	314	280	300
15	332	322	327	291	247	271	257	108	204	302	296	299
16	332	51	262	303	288	295	272	62	172	322	295	304
17	221	33	153	304	53	184	282	94	223	313	300	307
18	214	49	128	362	226	287	328	120	219	319	287	308
19	232	97	170	282	34	212	321	256	289	321	287	309
20	298	204	266	265	146	232	323	294	307	306	288	301
21	320	249	311	386	148	284	314	299	305	306	293	302
22	327	316	322	265	153	217	317	46	260	310	55	254
23	327	321	325	368	204	263	309	215	279	204	50	133
24	330	316	324	409	257	288	311	279	298	261	204	239
25	329	316	323	329	284	297	312	299	305	285	260	272
26	328	308	321	306	82	250	334	301	316	288	275	280
27	328	224	313	269	135	217	323	303	310	289	131	264
28	264	180	230	310	266	283	320	290	304	223	131	198
29	297	227	269	314	69	220	308	294	301	271	223	247
30	312	232	299	263	33	158	308	54	245	287	265	275
31	---	---	---	260	104	206	233	42	162	---	---	---
MONTH	340	22	257	409	33	239	334	28	245	323	50	272

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.8	21.7	22.8	14.4	13.2	13.8	9.3	7.4	8.1	13.7	10.8	12.6
2	24.4	22.1	23.3	13.4	11.6	12.5	8.6	6.1	7.3	12.5	11.3	11.6
3	24.6	22.7	23.8	13.6	11.7	12.6	9.9	7.3	8.6	11.4	10.0	11.0
4	24.6	23.0	23.9	14.4	12.7	13.5	9.0	3.6	6.6	10.0	7.7	8.5
5	24.7	23.2	24.1	14.3	12.3	13.5	5.8	2.2	4.1	9.2	7.0	8.0
6	24.4	22.1	23.0	14.2	12.4	13.2	7.7	5.8	6.6	8.6	7.1	8.0
7	23.2	21.7	22.6	13.1	11.4	12.3	7.8	5.9	6.8	7.2	5.7	6.5
8	22.5	18.3	20.0	13.6	10.9	12.1	7.6	5.8	6.8	8.7	5.9	7.1
9	18.7	17.6	18.2	14.9	11.9	13.3	7.9	6.9	7.3	10.8	8.0	9.2
10	22.4	18.1	19.4	17.3	14.4	15.7	7.7	6.2	6.8	10.8	9.3	10.4
11	21.0	19.0	20.1	19.4	17.1	17.9	7.6	5.6	6.6	9.3	7.1	7.9
12	22.5	19.9	21.1	18.0	15.5	16.7	9.3	7.6	8.5	7.1	4.9	5.8
13	21.6	20.2	21.0	15.5	13.3	14.6	8.9	6.6	7.8	6.5	5.0	5.7
14	20.4	17.3	18.6	13.4	11.7	12.6	---	---	---	7.7	5.1	6.3
15	17.3	14.2	15.8	13.8	11.3	12.5	---	---	---	7.0	5.5	6.3
16	17.4	13.9	15.8	14.7	13.3	13.9	9.4	6.7	8.0	6.7	5.0	5.7
17	17.4	15.4	16.4	---	---	---	9.0	7.9	8.5	6.7	5.0	5.9
18	16.8	14.6	15.7	---	---	---	8.7	7.9	8.3	5.0	3.4	4.4
19	17.1	14.3	15.7	11.9	9.8	10.9	10.1	8.5	9.1	5.1	2.9	4.0
20	18.5	15.5	16.8	13.0	10.7	11.7	13.5	10.1	12.1	7.5	3.9	5.5
21	19.0	15.8	17.8	13.9	12.5	13.1	10.6	8.4	9.2	9.0	7.0	7.9
22	15.8	15.0	15.3	13.3	10.4	12.1	10.4	7.7	8.9	7.9	6.3	7.1
23	17.5	15.4	16.2	10.7	8.9	9.9	10.1	8.3	9.4	6.9	2.0	4.2
24	16.9	16.2	16.5	11.8	8.8	10.2	9.6	6.5	8.1	4.0	0.9	2.4
25	16.4	15.6	15.9	12.2	9.8	11.0	8.6	7.2	7.9	5.7	2.1	3.5
26	17.3	15.8	16.5	12.1	9.9	11.0	7.5	5.9	6.8	6.8	4.2	5.3
27	18.6	16.9	17.6	11.3	9.0	10.5	7.6	5.6	6.6	6.0	3.0	4.8
28	18.5	16.9	17.7	9.0	7.4	8.2	7.6	5.6	6.6	6.5	3.7	4.9
29	16.9	14.7	15.7	8.6	6.2	7.5	9.2	6.5	7.7	8.8	6.0	7.2
30	14.7	14.2	14.5	10.3	8.2	9.2	9.2	7.5	8.4	8.5	5.4	6.7
31	15.0	13.1	14.0	---	---	---	10.8	8.4	9.4	6.9	5.5	6.1
MONTH	24.7	13.1	18.6	---	---	---	---	---	---	13.7	0.9	6.8
FEBRUARY			MARCH			APRIL			MAY			
1	8.8	6.7	7.6	9.8	8.4	8.8	14.4	9.6	12.0	22.1	19.4	20.7
2	9.8	6.8	8.3	10.6	8.5	9.4	17.4	13.1	15.1	22.7	19.4	20.7
3	11.6	8.8	10.1	11.0	8.1	9.7	18.7	14.7	16.6	20.7	18.2	19.5
4	13.2	11.0	12.1	11.9	8.9	10.5	18.6	15.8	17.2	19.7	17.9	18.6
5	11.2	8.5	9.5	12.9	11.2	12.1	17.9	16.5	17.2	17.9	16.2	16.7
6	8.7	6.2	8.0	13.2	11.9	12.5	18.1	15.2	16.7	19.4	16.7	17.8
7	7.7	5.3	6.4	12.4	10.0	10.9	16.7	11.7	12.5	20.3	17.6	18.8
8	7.7	5.8	6.8	12.4	8.3	10.4	12.1	10.0	11.5	23.1	18.7	20.8
9	8.7	6.4	7.5	14.9	11.1	12.9	10.8	9.0	9.9	23.9	20.9	22.4
10	8.1	7.0	7.5	13.9	11.2	12.7	9.9	7.6	8.8	24.5	21.3	22.8
11	8.8	5.9	7.3	12.8	10.2	11.5	12.7	9.3	10.8	23.1	20.3	22.0
12	9.4	7.0	8.1	14.9	10.5	12.6	16.4	10.9	13.4	21.3	18.3	19.7
13	8.9	6.1	7.5	16.2	12.7	14.3	17.4	13.0	15.2	21.1	17.5	19.2
14	9.2	7.0	7.9	15.5	13.5	14.6	18.3	14.2	16.3	20.2	17.6	18.9
15	11.7	8.4	9.8	13.5	10.6	12.1	19.4	15.8	17.7	19.6	18.3	18.9
16	10.4	3.4	6.9	12.6	10.1	11.4	19.6	16.3	18.0	20.6	18.5	19.5
17	4.7	3.2	3.8	14.2	12.6	13.3	19.4	16.8	18.2	20.2	18.0	19.1
18	7.8	4.1	6.0	14.8	13.6	14.2	18.4	12.4	14.3	18.0	16.6	17.3
19	8.8	6.3	7.4	14.6	10.9	14.1	13.6	12.2	12.8	16.6	15.9	16.2
20	10.4	8.6	9.3	11.1	8.7	10.0	15.5	13.5	14.3	20.0	15.8	17.7
21	9.8	8.8	9.3	15.8	10.8	13.0	16.5	15.1	15.7	20.8	18.5	19.0
22	11.0	9.0	9.8	16.4	12.5	14.5	18.1	15.6	16.7	18.7	17.5	18.0
23	11.7	10.0	10.9	15.7	12.8	14.5	17.6	14.0	15.8	18.2	17.1	17.6
24	11.8	8.3	10.1	16.5	13.1	14.9	17.2	14.4	15.9	19.7	17.2	18.0
25	11.5	9.8	10.6	17.0	13.4	15.3	16.4	15.6	15.9	20.8	18.7	19.6
26	10.2	6.5	8.7	18.0	14.7	16.3	18.9	15.9	17.2	20.8	18.6	19.7
27	6.5	4.9	5.8	17.2	14.7	16.1	19.8	16.0	17.9	19.6	17.9	18.7
28	8.7	5.8	7.1	17.3	14.9	16.2	20.4	16.8	18.6	20.7	17.1	18.8
29	---	---	---	19.3	16.8	17.8	21.1	17.5	19.3	20.4	17.8	19.2
30	---	---	---	18.1	10.6	12.3	22.0	18.7	20.3	21.2	17.5	19.4
31	---	---	---	12.0	8.9	10.6	---	---	---	23.1	17.9	20.0
MONTH	13.2	3.2	8.2	19.3	8.1	12.9	22.0	7.6	15.4	24.5	15.8	19.2

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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
1	21.3	18.1	19.8	24.3	21.6	23.0	24.9	23.6	24.3	26.6	23.8	25.1
2	20.9	17.3	19.3	22.6	20.3	21.4	25.6	23.4	24.3	26.5	24.0	25.1
3	20.6	18.9	19.7	24.3	21.2	22.7	28.2	23.6	25.2	26.6	24.1	25.2
4	23.4	19.4	21.0	26.0	22.3	24.1	25.6	21.5	24.1	26.6	24.4	25.4
5	22.5	19.5	21.1	26.4	23.4	24.8	25.8	21.6	23.2	25.8	22.7	24.1
6	22.7	19.4	21.0	26.2	23.5	24.7	25.3	22.9	24.1	23.7	21.3	22.2
7	22.4	20.9	21.6	25.8	23.6	24.6	24.8	22.9	23.9	22.1	20.4	21.2
8	24.4	20.2	21.7	27.0	23.2	25.1	26.5	23.1	24.3	22.3	20.8	21.5
9	23.7	20.1	21.8	27.9	24.6	25.8	25.8	22.9	24.4	23.3	21.0	22.1
10	23.9	20.0	22.0	29.7	23.7	25.6	25.0	23.0	23.8	22.7	20.5	21.5
11	23.9	20.8	22.4	26.8	23.6	24.8	25.2	22.3	23.8	22.2	19.7	20.9
12	26.3	21.8	23.4	26.3	21.9	24.5	26.2	23.6	24.7	21.8	19.4	20.6
13	24.5	21.8	23.1	24.6	21.5	23.0	26.0	24.0	25.0	23.7	19.9	21.6
14	25.1	22.0	23.5	24.1	22.4	23.2	26.9	24.2	25.2	24.0	21.3	22.6
15	25.6	22.6	24.0	25.1	22.5	23.8	26.6	24.1	25.2	24.1	21.8	22.9
16	24.5	22.9	23.6	27.0	23.4	24.9	25.6	24.2	25.1	23.0	21.1	22.1
17	24.0	21.9	22.7	26.3	23.6	25.0	26.2	23.5	24.8	21.9	19.6	20.8
18	24.3	21.7	22.5	26.2	23.5	24.9	26.1	23.7	24.9	20.6	19.2	19.9
19	25.9	21.6	23.4	28.0	23.2	24.4	25.8	24.0	24.9	22.9	19.2	20.9
20	24.4	22.1	23.2	26.0	22.8	24.2	26.4	23.7	24.9	23.4	20.0	21.6
21	22.8	19.7	21.4	26.5	23.8	25.1	26.5	23.9	25.1	23.3	20.5	21.8
22	23.4	19.8	21.6	26.6	23.7	25.0	26.7	24.1	24.9	23.7	21.4	22.2
23	24.2	20.6	22.3	24.7	22.8	23.6	26.9	23.5	25.0	23.5	21.8	22.6
24	24.2	21.2	22.7	25.1	21.8	23.3	26.2	24.3	25.2	22.8	20.0	21.4
25	25.3	21.6	23.3	25.6	22.5	23.9	26.3	23.4	24.7	23.1	19.8	21.3
26	25.8	22.4	24.0	27.8	23.3	24.8	27.3	24.0	25.5	22.9	20.2	21.5
27	25.6	23.0	24.3	26.5	23.9	25.2	27.8	24.6	26.1	23.6	20.6	22.0
28	24.7	22.4	23.2	27.3	24.2	25.6	27.8	25.2	26.3	22.8	20.0	21.6
29	25.2	21.9	23.4	28.5	24.4	25.6	27.2	25.2	26.1	20.0	17.5	18.7
30	25.8	23.0	24.2	26.6	23.8	24.7	27.4	24.8	25.9	19.0	16.2	17.6
31	---	---	---	25.2	23.4	24.3	26.7	24.5	25.5	---	---	---
MONTH	26.3	17.3	22.4	29.7	20.3	24.4	28.2	21.5	24.9	26.6	16.2	21.9