

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to September 2004.

pH: April 1999 to September 2002.

WATER TEMPERATURE: April 1999 to September 2004.

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	7680, January 26, 2004	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	7680, January 26	28, September 8
WATER TEMPERATURE, °C	29.9, August 1	1.8, February 27

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 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	294	274	283	279	245	266	267	250	263	270	262	266
2	304	282	291	281	259	274	260	215	230	270	263	266
3	290	283	287	290	263	282	272	229	250	266	260	263
4	292	281	287	296	276	284	556	270	348	288	255	264
5	305	276	287	310	290	297	389	242	266	264	111	218
6	300	280	294	306	256	275	262	248	255	216	141	183
7	300	277	292	303	277	285	286	222	265	259	178	220
8	292	97	221	330	186	262	320	249	282	262	228	256
9	217	126	179	267	208	261	320	261	283	2,400	252	1,060
10	271	163	245	275	251	266	283	81	181	---	---	---
11	165	59	107	284	237	270	206	101	164	480	392	427
12	236	164	208	293	282	286	259	206	235	401	341	370
13	271	236	257	299	256	281	274	53	240	349	308	326
14	286	269	276	298	288	292	302	56	165	316	295	305
15	298	279	285	308	289	294	252	200	224	295	279	287
16	291	278	285	291	270	285	342	252	296	279	269	274
17	292	262	280	289	258	283	413	167	239	319	268	276
18	283	272	278	292	277	286	256	198	227	379	244	292
19	286	247	278	290	120	190	270	140	252	255	248	252
20	284	266	278	234	163	203	275	267	270	264	252	258
21	290	276	284	267	234	250	275	267	270	310	259	267
22	321	290	298	286	265	273	268	253	262	287	258	266
23	304	270	294	283	277	279	273	240	263	269	241	258
24	296	285	292	280	234	267	289	256	275	257	229	249
25	302	287	294	314	235	279	274	268	271	2,840	248	1,060
26	306	261	286	280	273	276	272	262	268	---	---	---
27	303	267	277	280	272	276	270	262	267	---	---	---
28	278	92	218	283	222	261	270	247	261	---	---	---
29	176	62	118	288	260	267	261	247	254	1,840	991	1,210
30	243	176	212	263	251	259	285	252	263	1,240	786	979
31	269	241	255	---	---	---	271	253	259	786	578	674
MONTH	321	59	259	330	120	270	556	53	253	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	578	484	522	392	214	279	224	78	164	402	100	220
2	1,090	443	479	427	221	311	276	224	251	303	38	130
3	1,010	287	395	391	314	347	290	273	283	203	88	160
4	392	335	357	395	357	375	291	270	286	247	194	223
5	393	361	381	377	347	355	301	286	295	282	247	263
6	712	79	259	353	336	344	317	294	302	295	268	279
7	296	136	251	336	327	332	315	293	300	294	270	284
8	316	296	308	344	329	335	302	294	299	304	289	295
9	329	315	322	669	321	354	308	294	298	296	276	288
10	334	322	328	676	349	447	309	288	296	300	284	290
11	337	324	330	374	327	344	299	140	285	290	270	285
12	326	119	200	332	312	324	253	136	193	292	106	223
13	274	202	244	323	310	317	212	71	140	254	197	235
14	397	227	288	317	299	309	253	148	210	279	254	269
15	265	141	212	413	307	342	278	252	268	---	---	---
16	263	178	225	545	334	397	286	275	281	---	---	---
17	310	263	292	338	304	319	288	276	283	---	---	---
18	315	289	299	408	260	308	288	268	277	288	88	247
19	335	301	313	277	225	244	295	256	284	236	143	185
20	331	307	317	281	233	275	303	282	291	285	236	258
21	318	305	310	383	216	283	299	283	292	297	255	279
22	306	301	303	293	282	287	306	289	297	293	281	286
23	372	298	317	301	290	295	303	282	296	296	272	287
24	367	302	322	300	285	295	294	290	292	294	246	274
25	339	306	321	300	287	295	293	278	289	289	280	283
26	4,530	307	1,550	298	289	294	674	228	292	301	287	291
27	4,870	1,060	2,870	299	288	294	674	277	305	306	288	296
28	2,270	413	1,070	301	286	294	301	278	288	315	194	276
29	561	232	376	298	288	294	311	291	296	332	216	281
30	---	---	---	469	183	280	300	291	295	353	282	307
31	---	---	---	269	72	142	---	---	---	297	73	186
MONTH	4,870	79	475	676	72	313	674	71	274	---	---	---

## 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 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	235	164	209	321	297	308	320	80	263	251	200	228
2	269	235	258	297	268	278	283	209	233	291	248	273
3	278	241	267	303	57	230	---	---	---	299	291	296
4	304	176	233	286	210	248	---	---	---	320	298	303
5	258	232	247	274	94	221	316	282	298	322	301	312
6	268	254	262	245	127	198	317	292	297	313	95	257
7	281	243	271	288	245	270	307	288	299	240	37	124
8	281	126	254	305	287	294	304	290	297	232	28	137
9	310	139	203	308	295	301	310	293	302	284	229	263
10	291	263	272	308	270	301	315	295	306	318	284	303
11	288	273	283	292	121	243	320	226	301	325	315	319
12	293	269	285	290	178	237	280	29	121	---	---	---
13	292	81	186	277	238	255	167	44	114	---	---	---
14	200	60	136	291	276	282	177	42	110	323	299	314
15	217	83	161	300	291	296	261	177	222	320	312	316
16	220	142	176	308	297	302	290	241	270	325	310	315
17	262	193	228	310	32	274	303	281	293	326	40	157
18	296	262	272	238	44	170	310	297	301	261	151	214
19	479	296	390	277	237	253	315	86	272	290	261	277
20	370	282	319	299	274	285	303	234	290	305	290	296
21	299	51	165	293	185	257	308	232	294	307	301	304
22	227	140	192	301	244	287	299	275	288	309	289	305
23	252	47	179	328	277	301	305	265	293	317	289	307
24	219	103	159	309	296	303	312	278	298	317	304	310
25	200	38	140	314	302	308	312	259	295	316	304	310
26	205	61	143	309	266	299	314	290	302	315	290	305
27	271	205	244	267	48	114	319	295	306	310	31	219
28	318	271	291	234	126	208	321	292	306	197	32	110
29	323	286	305	259	55	157	317	85	255	275	197	243
30	315	300	305	244	153	206	187	58	131	---	---	---
31	---	---	---	316	244	263	200	64	138	---	---	---
MONTH	479	38	234	328	32	256	---	---	---	---	---	---

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

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.4	16.4	17.8	17.9	15.0	16.4	11.2	8.5	9.8	9.4	6.8	8.1
2	17.9	16.0	17.0	18.4	15.5	16.9	10.2	8.3	9.3	10.2	8.6	9.3
3	16.7	13.8	15.4	18.6	16.0	17.3	9.3	7.6	8.2	12.9	9.0	10.7
4	18.5	14.7	16.5	19.2	16.8	18.0	8.5	7.0	7.4	14.7	12.5	13.5
5	19.4	16.6	18.0	20.2	18.5	19.3	8.1	6.7	7.4	17.3	14.2	15.3
6	19.5	17.7	18.6	21.2	19.6	20.3	8.8	7.6	8.2	15.5	8.6	11.8
7	20.1	18.5	19.2	20.6	19.4	20.2	8.7	6.5	7.6	8.6	5.9	7.1
8	20.1	18.3	19.0	19.4	15.7	17.0	8.6	6.3	7.5	7.1	5.6	6.4
9	20.0	18.9	19.4	15.7	12.9	14.2	9.6	6.7	8.2	7.2	6.1	6.8
10	19.7	18.6	19.3	13.7	10.9	12.3	12.2	8.7	10.4	---	---	---
11	19.1	17.9	18.6	15.6	11.9	13.4	11.1	9.0	10.0	5.7	3.8	4.8
12	21.1	18.4	19.6	17.3	13.9	15.5	9.3	7.5	8.5	8.2	4.7	6.3
13	21.3	18.8	20.0	16.9	12.4	14.8	8.4	4.6	7.5	9.2	6.5	7.8
14	20.4	18.8	19.9	12.4	10.4	11.5	6.4	4.4	5.5	8.8	6.8	7.8
15	18.8	16.4	17.5	12.4	11.3	11.8	8.2	5.8	7.0	9.4	7.7	8.4
16	17.8	15.1	16.5	14.9	11.6	13.1	9.0	6.8	7.9	8.5	6.4	7.5
17	17.9	15.1	16.5	16.3	14.6	15.4	10.2	7.9	9.1	8.3	6.4	7.4
18	17.6	15.9	16.8	16.8	15.1	15.9	8.6	6.7	7.7	9.3	8.2	9.0
19	17.9	14.8	16.4	18.0	15.6	17.0	10.1	7.0	7.8	9.0	7.0	8.1
20	18.5	15.5	17.0	15.6	13.5	14.5	7.0	5.3	6.0	7.0	4.7	5.7
21	18.9	16.4	17.7	15.0	12.3	13.7	6.6	4.3	5.4	6.7	4.4	5.5
22	18.3	16.5	17.3	15.0	12.4	13.8	8.1	5.3	6.5	7.7	4.6	6.0
23	16.5	14.1	15.2	15.0	12.5	13.8	9.8	6.4	8.0	7.3	5.3	6.4
24	15.8	13.8	14.9	16.0	13.4	14.4	11.6	9.5	10.6	8.8	5.5	6.9
25	16.4	14.0	15.2	13.8	10.5	11.5	9.5	7.1	8.1	8.3	2.8	5.8
26	17.3	15.5	16.3	12.0	9.5	10.8	7.8	5.7	6.8	---	---	---
27	18.3	17.0	17.7	13.3	10.9	12.0	8.2	5.5	6.8	---	---	---
28	17.6	14.4	16.0	15.7	12.3	14.1	8.6	6.0	7.3	---	---	---
29	15.9	13.4	14.6	12.3	8.9	9.9	9.8	6.8	8.2	7.0	3.3	5.0
30	17.0	13.9	15.4	10.3	7.6	9.0	11.0	9.4	10.3	7.6	5.1	6.3
31	17.5	14.8	16.1	---	---	---	9.4	7.5	8.5	6.5	4.4	5.6
MONTH	21.3	13.4	17.3	21.2	7.6	14.6	12.2	4.3	8.0	---	---	---
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	4.1	5.3	9.8	6.0	7.9	13.7	10.0	11.7	22.3	19.1	20.2
2	5.8	4.2	5.0	12.1	9.3	10.6	13.6	11.2	12.2	22.0	19.3	20.7
3	6.3	4.0	5.2	14.2	11.3	12.7	15.4	10.5	12.8	20.7	16.6	18.6
4	7.6	4.9	6.2	16.6	13.2	14.7	15.6	12.1	13.6	18.8	14.4	16.5
5	6.6	5.8	6.1	17.1	14.7	15.8	14.8	10.6	12.5	20.6	15.5	17.8
6	6.2	4.9	5.4	17.1	15.7	16.3	15.7	11.0	13.2	22.5	17.5	19.8
7	8.1	5.8	7.0	16.9	13.5	15.2	17.3	12.6	14.8	23.8	19.0	21.2
8	7.2	4.9	6.1	13.6	11.1	12.3	16.7	14.6	15.6	24.2	19.8	21.9
9	6.5	5.5	6.1	11.2	9.7	10.3	18.8	14.2	16.3	24.7	20.9	22.7
10	7.9	5.8	6.8	11.0	8.9	9.8	18.7	14.9	16.6	24.3	20.3	22.2
11	8.8	7.2	8.0	12.1	7.9	10	17.7	14.7	16.5	23.6	20.1	21.9
12	8.3	5.2	6.5	13.7	9.8	11.5	14.8	12.3	13.3	23.9	20.8	22.3
13	8.9	5.5	7.1	12.9	9.4	11.2	15.9	12.2	13.9	23.3	20.9	22.0
14	9.6	8.4	8.8	14.2	10.4	12.1	14.5	12.2	13.0	23.6	20.5	22.0
15	9.0	7.3	8.5	14.4	13.2	13.8	16.0	10.8	13.3	---	---	---
16	7.9	5.8	6.8	15.9	13.8	14.7	17.6	13.4	15.3	---	---	---
17	6.3	5.3	5.8	14.9	12.7	13.8	19.5	14.5	16.8	---	---	---
18	8.5	5.0	6.6	12.7	11.4	12.0	20.7	16.2	18.3	24.3	21.0	22.6
19	9.8	6.0	7.8	15.2	10.9	12.9	21.5	17.1	19.1	24.3	21.6	22.9
20	11.3	7.7	9.4	15.1	11.7	13.3	21.5	17.7	19.5	25.5	21.6	23.4
21	13.3	10.6	11.8	16.4	12.0	14.7	20.8	17.9	19.2	26.1	22.2	24.1
22	11.8	9.2	10.6	12.6	9.8	11.1	21.0	17.4	19.1	26.8	22.8	24.8
23	10.2	8.7	9.4	12.3	8.1	10.1	22.5	17.9	20.0	26.1	23.0	24.4
24	11.0	9.2	10.0	14.0	9.2	11.4	23.1	18.9	21.0	26.4	22.7	24.4
25	10.4	8.8	9.6	16.4	11.3	13.6	22.7	19.9	21.3	26.7	23.0	24.8
26	8.8	1.9	5.8	17.9	13.5	15.6	21.0	18.1	19.4	25.5	23.4	24.6
27	4.1	1.8	3.2	18.9	14.9	16.8	19.2	16.3	17.5	25.7	22.0	23.8
28	6.5	2.6	4.4	19.4	16.3	17.7	18.9	14.4	16.6	25.9	22.4	23.9
29	8.7	3.9	6.2	17.8	14.6	16.2	20.1	15.2	17.6	25.6	22.4	24.0
30	---	---	---	16.1	12.5	13.7	20.5	16.9	18.7	25.1	23.0	24.1
31	---	---	---	13.5	10.2	11.9	---	---	---	24.5	22.5	23.5
MONTH	13.3	1.8	7.1	19.4	6.0	13.0	23.1	10.0	16.3	---	---	---

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	21.6	23.0	25.4	22.9	24.1	29.9	25.0	26.6	26.0	23.8	24.9
2	25.0	20.8	22.9	24.8	23.4	24.1	27.7	25.6	26.6	25.1	23.6	24.4
3	25.2	21.2	23.4	26.0	23.2	24.5	---	---	---	24.5	22.2	23.5
4	24.6	22.3	23.5	27.2	23.7	25.2	---	---	---	24.5	21.9	23.3
5	24.0	20.6	22.4	28.3	24.3	26.0	27.0	25.0	25.9	24.8	22.5	23.7
6	23.2	21.2	22.1	28.1	24.0	25.9	25.1	22.8	23.8	26.5	22.9	24.3
7	24.2	21.4	22.8	28.1	24.8	26.3	23.8	20.5	22.2	24.6	22.8	23.7
8	24.2	22.2	23.1	27.9	24.6	26.3	23.6	21.2	22.5	23.8	22.8	23.3
9	24.6	22.0	23.2	28.1	24.8	26.4	24.3	21.2	22.9	24.6	22.6	23.5
10	26.2	22.1	24.1	28.5	25.0	26.8	24.9	22.1	23.6	24.2	22.0	23.1
11	27.1	23.5	25.4	28.3	25.1	26.5	25.6	22.8	24.2	24.7	22.1	23.3
12	26.5	24.1	25.3	27.8	25.2	26.3	25.1	22.4	23.6	---	---	---
13	24.7	22.1	22.9	27.9	24.7	26.2	24.9	22.3	23.3	---	---	---
14	26.6	22.2	23.5	28.2	25.1	26.7	23.6	19.8	21.3	23.6	21.9	22.6
15	25.5	23.2	24.3	27.0	24.2	25.5	21.7	20.9	21.3	22.7	21.3	22.0
16	27.0	23.7	25.2	25.7	22.8	24.4	24.5	21.1	22.6	23.1	21.6	22.4
17	27.8	24.4	26.0	25.6	22.9	24.2	25.5	22.4	23.8	23.5	22.1	23.0
18	27.9	24.7	26.3	24.9	22.8	23.7	26.0	23.2	24.4	22.7	20.7	21.6
19	28.0	24.8	26.2	26.3	23.0	24.5	27.6	23.4	24.8	21.1	18.9	20.0
20	26.1	23.4	24.9	26.6	23.5	24.9	26.5	23.7	25.1	20.2	17.5	18.9
21	24.9	21.7	23.2	28.7	23.4	25.8	26.3	23.9	25.0	20.6	17.5	19.0
22	26.0	22.6	24.0	27.3	24.3	25.9	24.5	23.6	24.0	21.7	18.1	19.9
23	27.5	23.5	25.0	27.4	25.0	26.2	25.4	22.7	24.0	22.8	19.7	21.3
24	25.4	23.8	24.6	27.2	24.8	26.1	26.0	23.2	24.6	22.5	20.3	21.5
25	26.2	23.1	24.2	26.4	24.1	25.4	25.8	22.9	24.3	22.0	19.5	20.9
26	24.8	22.1	23.5	26.0	24.4	25.3	25.0	22.8	24.0	22.0	19.5	20.9
27	24.6	22.6	23.6	26.4	23.8	24.9	25.9	22.8	24.4	22.5	20.6	21.3
28	24.4	22.6	23.4	26.9	24.2	25.3	26.5	23.8	25.2	22.8	21.3	22.0
29	25.7	22.3	23.8	26.1	24.3	25.1	25.6	23.6	24.1	21.9	20.4	21.3
30	24.6	23.0	23.8	27.3	24.2	25.6	26.6	23.2	24.7	---	---	---
31	---	---	---	28.0	24.6	26.1	25.1	23.9	24.4	---	---	---
MONTH	28.0	20.6	24.0	28.7	22.8	25.5	---	---	---	---	---	---