

02146300 IRWIN CREEK NEAR CHARLOTTE, NC—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2003 to September 2004.

WATER TEMPERATURE: June 2003 to September 2004.

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 the Irwin Creek basin.

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	3200, January 27, 2004	36, August 12, 2004
WATER TEMPERATURE, °C	32.2, July 10, 2004	0.0, February 26, 27, 2004

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

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	3200, January 27	36, August 12
WATER TEMPERATURE, °C	32.2, July 10	0.0, February 26, 27

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	287	244	261	267	245	253	273	255	262	287	273	277
2	287	267	277	275	267	272	276	243	261	274	248	259
3	293	279	286	280	264	272	259	214	232	254	242	249
4	287	259	270	272	229	247	296	250	267	278	252	261
5	280	265	272	282	250	259	280	238	255	281	131	243
6	283	266	276	305	266	285	255	232	241	200	128	159
7	292	282	288	276	260	265	259	249	254	237	200	223
8	285	160	240	277	235	255	267	258	263	254	233	242
9	208	170	189	264	242	254	272	263	267	782	254	468
10	267	208	247	270	260	265	286	83	191	671	435	527
11	257	82	124	273	262	269	223	108	167	440	305	360
12	225	149	195	269	231	243	246	223	233	305	289	297
13	265	225	244	262	240	248	257	73	237	305	273	290
14	280	263	272	278	261	271	214	68	146	282	266	273
15	285	269	276	268	250	258	263	187	218	288	269	275
16	279	261	268	277	256	263	259	247	253	291	272	280
17	285	268	276	277	264	271	715	215	295	292	268	277
18	285	273	279	278	272	276	251	223	232	301	240	266
19	280	271	275	289	146	209	280	251	266	252	236	241
20	280	257	264	227	155	191	270	262	266	271	248	260
21	282	264	271	260	227	241	273	260	266	274	253	265
22	282	257	269	275	259	264	271	226	252	267	253	261
23	287	272	281	267	259	263	281	240	266	260	252	255
24	287	262	272	279	260	266	281	268	272	264	254	258
25	285	264	271	285	268	276	272	266	270	865	244	358
26	291	273	280	272	254	263	270	266	268	2,120	660	888
27	293	277	287	276	246	257	273	269	271	3,200	2,080	2,500
28	288	144	251	281	242	267	273	267	269	2,900	1,440	2,130
29	167	92	129	246	236	241	275	266	271	1,450	722	948
30	232	167	208	257	245	250	297	261	276	722	480	586
31	263	232	252	---	---	---	275	268	272	481	422	443
MONTH	293	82	253	305	146	257	715	68	250	3,200	128	472



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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	19.2	14.9	16.7	17.4	13.3	15.1	9.5	5.7	7.4	7.6	3.8	5.7
2	18.6	14.8	16.4	17.9	13.7	15.6	8.2	5.5	6.8	8.9	6.4	7.5
3	16.3	12.4	14.2	18.1	14.3	16.0	6.9	5.9	6.3	11.4	6.8	8.9
4	18.1	12.9	15.2	19.3	15.7	17.3	5.9	5.2	5.4	14.5	11.0	12.6
5	19.2	14.8	16.7	20.5	17.7	18.9	6.9	5.7	6.3	16.4	13.3	14.8
6	19.1	16.5	17.7	21.6	18.9	20.0	7.8	5.4	6.5	15.2	7.1	11.0
7	19.7	17.6	18.4	21.1	19.1	20.0	6.6	3.8	5.1	7.1	3.7	5.0
8	19.2	17.4	18.2	19.1	15.1	16.8	6.6	3.3	4.8	5.7	3.2	4.4
9	20.2	18.4	19.1	15.1	11.3	13.2	7.5	3.9	5.6	5.2	4.4	4.9
10	19.8	18.3	18.9	12.4	9.3	10.8	11.8	6.3	8.8	4.9	2.9	4.2
11	19.1	17.9	18.5	13.8	9.6	11.6	10.8	7.5	9.0	3.9	1.2	2.5
12	21.2	17.6	19.0	17.1	12.4	14.6	8.0	5.3	6.7	6.3	2.1	3.9
13	21.0	17.6	19.2	16.3	10.2	13.7	7.1	4.7	6.1	7.4	3.7	5.4
14	20.1	18.0	19.5	11.4	8.1	9.6	5.9	4.4	5.2	7.2	3.9	5.5
15	18.2	15.2	16.6	11.5	9.4	10.5	7.0	4.4	5.6	8.0	5.5	6.4
16	17.4	13.2	15.0	14.3	9.9	12.0	7.6	4.6	6.2	7.3	4.0	5.5
17	17.1	13.2	15.1	15.9	13.5	14.5	9.1	6.4	7.9	6.9	4.0	5.5
18	17.7	14.7	15.8	16.5	13.6	15.0	7.1	5.0	6.0	8.7	6.6	7.7
19	17.4	13.0	14.9	17.1	14.8	16.5	7.0	5.1	6.1	7.9	5.2	6.8
20	18.0	13.6	15.6	14.8	11.9	13.2	5.1	2.9	3.9	5.2	2.4	3.8
21	18.6	14.8	16.6	14.1	10.2	12.0	4.3	1.4	2.8	5.1	1.8	3.2
22	17.7	14.8	16.2	13.9	10.1	11.9	5.8	2.4	3.9	5.9	1.7	3.7
23	15.0	12.4	13.8	13.9	10.1	11.9	7.9	3.6	5.7	5.7	2.7	4.2
24	15.4	12.1	13.4	14.6	11.4	12.8	11.0	7.9	9.3	7.5	2.7	4.9
25	16.1	12.6	14.1	11.6	8.3	9.6	7.9	4.4	5.8	6.3	1.2	3.8
26	16.2	13.9	15.1	10.7	6.9	8.7	5.6	2.6	4.0	1.2	0.5	0.8
27	17.9	15.8	16.8	12.1	9.0	10.5	5.9	2.3	4.0	3.0	0.9	2.0
28	16.8	14.3	15.5	14.3	10.9	12.9	6.6	3.0	4.6	4.3	0.9	2.6
29	15.8	13.5	14.3	10.9	6.4	8.2	7.9	4.0	5.8	5.4	1.2	3.2
30	16.4	12.3	14.1	8.5	4.9	6.6	9.6	7.1	8.6	6.9	3.4	4.8
31	16.8	13.1	14.7	---	---	---	7.4	4.5	6.0	5.7	2.5	4.1
MONTH	21.2	12.1	16.3	21.6	4.9	13.3	11.8	1.4	6.0	16.4	0.5	5.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.4	1.6	3.3	9.6	5.3	7.5	14.8	9.7	11.8	21.5	18.7	20.0
2	4.5	2.3	3.5	12.7	9.2	10.8	14.4	10.5	11.9	22.3	19.4	20.6
3	5.9	4.0	4.8	15.6	10.8	12.9	16.5	9.1	12.5	20.7	16.1	18.6
4	7.0	3.0	4.8	18.0	12.6	15.0	18.1	10.9	13.6	20.3	13.4	16.2
5	5.2	3.9	4.6	18.5	14.5	16.3	17.4	9.1	12.6	22.3	14.7	17.8
6	5.5	4.5	4.9	18.8	15.7	16.8	18.5	9.5	13.3	24.7	16.7	20.1
7	7.6	5.5	6.3	18.3	13.0	15.1	19.2	11.2	14.9	26.8	18.4	21.8
8	6.8	3.5	5.0	15.1	10.0	12.1	17.8	14.2	15.8	27.1	19.5	22.7
9	5.4	3.8	4.6	11.0	8.6	9.7	22.2	12.9	16.7	27.6	21.1	23.6
10	7.0	4.0	5.5	11.9	7.9	9.4	21.1	14.3	17.3	27.1	20.3	23.0
11	8.4	5.6	6.9	13.5	6.0	9.3	18.9	15.6	17.1	26.3	20.2	22.7
12	7.5	5.4	6.1	15.4	8.2	11.2	15.7	12.0	13.2	24.4	21.1	22.4
13	8.6	4.2	6.2	14.5	8.3	10.9	15.4	11.7	13.4	24.5	20.8	22.3
14	8.5	7.2	7.7	15.8	9.2	12.0	14.0	11.4	12.8	25.4	20.5	22.5
15	8.4	6.9	8.0	14.5	12.9	13.6	18.2	9.5	13.3	26.3	20.4	22.8
16	8.0	5.2	6.4	16.6	13.3	14.5	19.8	12.2	15.6	26.4	20.6	23.0
17	5.9	4.3	4.9	15.9	12.2	13.6	22.4	13.6	17.3	26.4	21.2	23.4
18	8.5	3.2	5.5	12.2	10.3	11.3	23.9	15.7	19.1	26.9	21.0	23.5
19	9.8	3.9	6.6	17.4	9.7	12.9	24.3	16.9	20.0	26.8	21.5	23.6
20	11.2	5.7	8.4	---	---	---	24.3	17.8	20.5	29.1	21.7	24.7
21	14.1	10.0	11.5	18.4	11.8	14.8	23.2	17.8	20.1	29.9	22.5	25.6
22	12.2	7.5	9.6	14.7	8.6	11.0	24.4	17.3	20.1	29.6	23.3	25.9
23	9.2	6.9	8.2	14.5	6.7	9.9	25.0	17.9	20.8	29.1	23.5	25.6
24	---	---	---	16.2	7.6	11.3	26.7	18.9	22.0	29.1	22.8	25.4
25	10.8	7.8	9.2	18.6	10.2	13.9	25.2	20.4	22.5	30.2	23.2	26.1
26	8.3	0.0	4.2	20.9	12.5	16.1	21.7	18.0	20.0	27.8	24.0	25.5
27	4.1	0.0	2.4	21.3	14.4	17.5	20.6	15.9	17.7	28.5	22.3	24.8
28	7.0	1.5	4.1	21.9	16.0	18.5	21.4	13.4	16.7	27.5	23.0	24.7
29	8.8	3.1	5.8	20.6	14.4	17.0	23.0	14.3	18.0	28.6	22.4	24.9
30	---	---	---	16.3	12.1	13.5	21.7	16.5	18.9	27.5	23.4	25.1
31	---	---	---	13.8	11.2	12.0	---	---	---	24.8	22.5	23.7
MONTH	---	---	---	---	---	---	26.7	9.1	16.6	30.2	13.4	23.0

