



Water-Data Report 2009

02124692 GOOSE CREEK AT FAIRVIEW, NC

Upper Pee Dee Basin
Rocky Subbasin

LOCATION.--Lat 35°09'13", long 80°32'07" referenced to North American Datum of 1983, Union County, NC, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 2.0 mi above Duck Creek and 1.0 mi north of Fairview.

DRAINAGE AREA.--24.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1999 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m). WDR NC-03-1B: 2000(M), 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 472.67 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at streamgage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum peak stage for period of record from crest-stage gage. Minimum discharge for current water year and period of record affected by regulation of unknown origin. No flow also occurred August 12-16, 2002, August 22-27, September 6-15, 2007, October 2, 3, 6-25, 2007, September 6-12, 15-19, 2009.

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.55	1.3	34	2.8	3.1	1,130	18	4.1	6.5	0.64	8.1	0.26
2	0.80	1.5	7.8	2.8	3.1	284	16	3.7	5.3	0.71	3.2	0.17
3	0.69	1.4	4.2	3.0	8.8	82	19	3.5	4.4	0.53	e0.90	0.05
4	0.60	1.4	2.8	56	6.6	38	14	3.4	4.1	0.71	e0.59	0.02
5	0.71	2.0	2.3	21	5.9	25	11	10	24	0.97	e0.38	0.00
6	0.46	0.70	2.1	237	5.7	19	11	53	11	0.78	e0.25	0.00
7	0.60	1.0	2.1	114	5.0	16	9.7	11	5.4	1.1	0.76	0.00
8	2.5	1.1	2.0	37	3.9	14	8.6	6.9	4.3	0.66	0.70	0.00
9	6.0	2.8	1.5	16	3.5	12	8.0	5.8	3.7	0.71	0.68	0.00
10	2.0	1.1	2.4	12	3.2	10	8.0	5.0	3.6	0.91	e0.14	0.00
11	0.72	1.6	213	13	3.2	9.4	66	6.0	7.5	1.2	e0.15	0.00
12	0.61	1.6	220	9.8	4.0	8.3	17	7.3	17	0.82	e0.15	0.02
13	0.61	1.6	24	7.8	3.5	9.5	11	4.8	5.2	1.4	e0.14	0.02
14	0.69	19	12	6.9	3.1	25	80	3.9	3.5	2.3	e0.15	0.01
15	0.67	18	8.4	5.9	3.4	112	44	e13	2.9	1.2	e0.18	0.00
16	0.60	3.4	6.9	5.0	7.2	83	17	e57	3.9	0.76	e0.16	0.00
17	0.83	1.5	5.5	4.7	5.8	49	12	e16	29	0.77	e0.22	0.00
18	14	1.2	4.9	4.2	23	25	9.4	e12	7.0	0.57	e0.18	0.00
19	3.4	1.7	7.2	4.3	137	19	8.3	7.6	4.4	0.49	e0.17	0.24
20	1.2	5.7	8.5	4.3	20	44	25	5.2	2.9	0.65	e0.17	0.39
21	0.75	1.9	24	3.8	11	20	14	4.3	2.2	0.63	0.16	0.63
22	0.76	1.0	11	4.5	8.3	15	8.9	3.6	1.6	0.96	0.19	0.41
23	0.77	0.97	5.8	4.5	6.3	13	7.1	2.9	1.4	0.83	0.14	0.13
24	0.77	1.1	4.8	3.3	5.4	12	6.4	5.8	1.2	1.9	0.13	0.08
25	1.7	1.6	4.9	3.1	5.0	11	5.8	22	0.89	1.8	0.16	0.16
26	2.4	2.2	4.4	2.8	4.7	15	5.4	41	0.84	0.49	0.06	0.23
27	1.7	2.0	4.0	2.7	4.8	16	5.1	26	0.87	2.1	0.04	1.3
28	1.3	1.6	4.2	3.5	102	366	4.5	32	1.0	72	0.02	1.6
29	0.90	1.9	4.7	8.3	---	361	4.4	18	0.45	96	0.02	0.38
30	0.92	52	4.0	4.6	---	40	4.0	7.0	0.53	28	0.04	0.17
31	1.1	---	3.4	3.5	---	23	---	5.0	---	5.6	0.11	---
Total	51.31	135.87	646.8	612.1	406.5	2,906.2	478.6	406.8	166.58	228.19	18.44	6.27
Mean	1.66	4.53	20.9	19.7	14.5	93.7	16.0	13.1	5.55	7.36	0.59	0.21
Max	14	52	220	237	137	1,130	80	57	29	96	8.1	1.6
Min	0.46	0.70	1.5	2.7	3.1	8.3	4.0	2.9	0.45	0.49	0.02	0.00
Cfsm	0.07	0.19	0.87	0.82	0.60	3.91	0.66	0.55	0.23	0.31	0.02	0.01
In.	0.08	0.21	1.00	0.95	0.63	4.50	0.74	0.63	0.26	0.35	0.03	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2009, BY WATER YEAR (WY)

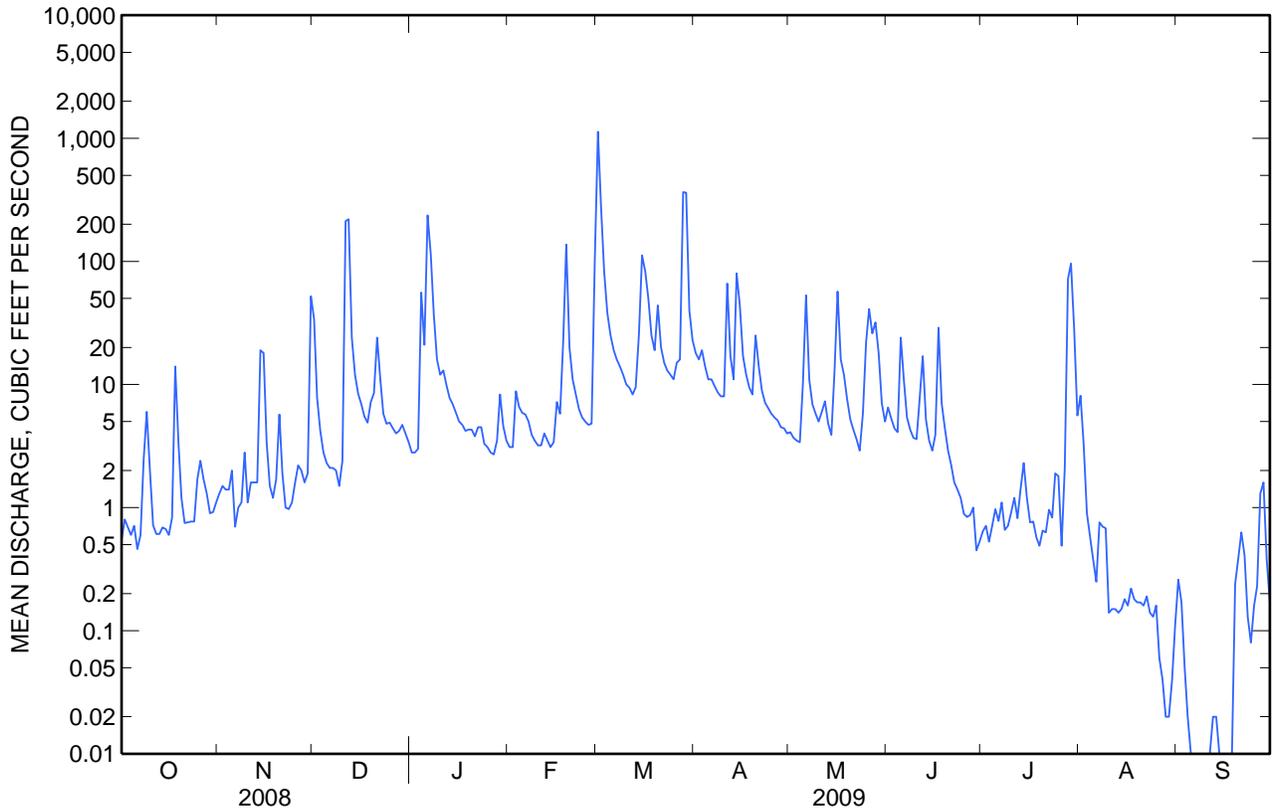
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.97	17.0	20.2	18.1	25.9	43.1	24.6	9.62	15.8	10.2	7.92	11.8
Max	12.4	105	59.1	36.9	60.4	111	133	59.2	55.4	57.8	31.0	87.7
(WY)	(2007)	(2007)	(2003)	(2007)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	0.70	0.91	2.99	3.74	7.02	6.38	4.64	1.72	0.75	1.49	0.31	0.07
(WY)	(2001)	(2002)	(2001)	(2004)	(2001)	(2006)	(2006)	(2007)	(2002)	(2001)	(2007)	(2007)

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2000 - 2009	
Annual total	4,088.10		6,063.66			
Annual mean	11.2		16.6		18.0	
Highest annual mean					52.4	2003
Lowest annual mean					6.25	2001
Highest daily mean	316	Aug 27	1,130	Mar 1	2,000	Nov 22, 2006
Lowest daily mean	0.19	Jun 19	0.00	Sep 5	0.00	Aug 12, 2002
Annual seven-day minimum	0.43	Aug 7	0.00	Sep 5	0.00	Sep 8, 2007
Maximum peak flow			2,330	Mar 1	3,090	Sep 28, 2004
Maximum peak stage			9.29	Mar 1	^a 10.40	Sep 28, 2004
Instantaneous low flow			^a 0.00	Sep 5	^a 0.00	Aug 11, 2002
Annual runoff (cfsm)	0.465		0.692		0.749	
Annual runoff (inches)	6.34		9.40		10.18	
10 percent exceeds	20		25		29	
50 percent exceeds	2.5		3.5		3.5	
90 percent exceeds	0.52		0.17		0.44	

^a See Remarks.



02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2000 to September 2009 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1999 September 2009.

pH: November 1999 to September 2009.

WATER TEMPERATURE: November 1999 to September 2009.

DISSOLVED OXYGEN: November 1999 to September 2009.

DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to September 2009.

TURBIDITY: July 2006 to September 2009.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 1999 to September 2009, optical backscatterance sensor from April 2000 to July 2006. Turbidity is collected using a Hydrolab Datasonde 4a.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality and suspended sediment concentrations in the Goose Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 747 mm Hg. No water quality data are reported for May 15-18 when the monitor was removed for repair, and for several days in September 2009, when there was zero flow in the stream. Malfunctioning equipment and sensor fouling account for additional periods of missing dissolved-oxygen data.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 500 microsiemens, April 28, 2008; minimum recorded, 38 microsiemens, April 10, 2003.

pH: Maximum recorded, 9.1 standard units, March 24, 2004, March 21, 2007; minimum recorded, 0.4 standard units, February 8, 2005.

WATER TEMPERATURE: Maximum recorded, 29.1°C, August 9, 2007; minimum recorded, 0.0°C, January 24, 25, 2003.

DISSOLVED OXYGEN: Maximum recorded, 15.6 mg/L, March 5, 2009; minimum recorded, 1.6 mg/L, September 20, 2009.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 143%, March 21, 2007; minimum recorded, 18%, April 27, 2008, September 20, 2009.

TURBIDITY: Maximum recorded, 1,820 FNU, July 23, 2006; minimum recorded, 0.0 FNU, on many days during the period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 328 microsiemens, September 28; minimum recorded, 54 microsiemens, March 1.

pH: Maximum recorded, 8.3 standard units, March 11; minimum recorded, 6.3 standard units, March 29.

WATER TEMPERATURE: Maximum recorded, 26.9°C, August 11, 21; minimum recorded, 0.1°C, January 17.

DISSOLVED OXYGEN: Maximum recorded, 15.6 mg/L, March 5; minimum recorded, 1.6 mg/L, September 20.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 135%, March 11; minimum recorded, 18%, September 20.

TURBIDITY: Maximum recorded, 1,300 FNU, February 19; minimum recorded, 0.0 FNU, on several days during the year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Time	Instan- taneous dis- charge, ft ³ /s (00061)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
Jan				
06...	0920	509	415	570
06...	0938	507	490	671

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	182	174	176	245	240	243	158	142	149	219	217	218
2	184	175	179	253	245	249	176	158	169	217	211	213
3	189	183	186	261	253	257	189	175	182	217	213	215
4	191	189	190	265	261	264	196	189	192	218	110	166
5	189	181	186	265	254	261	205	196	201	164	125	147
6	187	181	184	257	253	255	209	204	206	176	105	126
7	192	179	189	267	255	259	214	209	211	150	115	127
8	214	178	193	270	266	267	218	212	214	149	124	138
9	312	210	263	275	270	272	222	218	220	---	---	---
10	298	273	278	277	275	276	238	219	222	177	165	171
11	280	276	278	281	277	279	262	95	173	193	177	186
12	281	276	278	283	280	281	131	102	116	189	183	186
13	281	274	279	---	---	---	158	131	146	194	183	189
14	279	277	278	287	244	274	176	158	166	195	190	193
15	282	266	278	251	167	183	190	176	185	198	194	196
16	276	260	268	188	172	180	201	188	195	197	194	195
17	260	223	247	192	184	188	205	200	202	202	195	198
18	297	213	252	200	192	194	210	205	208	205	198	202
19	244	170	188	199	195	196	214	208	211	212	202	205
20	170	163	166	201	192	197	210	174	199	213	203	209
21	171	165	167	218	201	211	191	162	178	211	203	208
22	179	169	172	230	218	224	162	151	155	214	200	206
23	178	172	175	235	230	233	175	156	165	213	204	208
24	180	167	178	234	221	229	184	175	181	213	208	210
25	199	176	186	221	210	215	203	184	195	213	207	210
26	203	192	197	210	186	199	208	202	206	208	205	206
27	215	195	202	186	180	182	215	207	209	207	204	205
28	236	215	228	196	183	188	217	213	215	215	206	211
29	237	236	236	217	196	203	220	217	219	243	210	219
30	237	236	236	250	146	213	222	217	220	211	200	206
31	240	237	238	---	---	---	221	217	219	200	192	195
Month	312	163	218	---	---	---	262	95	191	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	207	197	203	132	54	91	146	139	142	189	186	188
2	205	199	202	119	65	101	151	146	148	188	187	188
3	226	199	211	130	119	126	161	150	155	189	179	187
4	214	191	207	140	128	133	153	147	150	189	183	188
5	197	184	189	145	139	142	153	147	149	188	131	180
6	202	197	200	151	145	148	155	152	154	---	---	---
7	205	196	202	156	150	153	157	152	155	133	106	121
8	210	202	206	159	154	155	155	152	154	148	133	140
9	210	205	207	161	158	160	157	151	155	157	147	150
10	212	202	206	162	160	161	160	148	157	162	155	158
11	214	207	210	166	162	165	203	105	125	185	158	168
12	218	212	216	166	162	164	139	119	130	192	177	183
13	217	212	215	191	165	169	150	139	145	188	166	179
14	215	211	214	211	166	180	168	79	138	169	166	167
15	215	209	212	177	126	151	132	94	119	---	---	---
16	226	203	212	146	125	134	147	132	140	---	---	---
17	223	210	216	145	141	143	155	147	152	---	---	---
18	228	166	207	154	145	150	163	153	158	---	---	---
19	174	114	134	160	154	157	167	161	164	140	134	137
20	166	146	156	189	142	153	192	147	166	142	135	137
21	181	166	172	152	143	149	147	138	141	148	142	144
22	188	181	184	162	152	156	154	142	147	154	148	151
23	197	183	190	164	157	161	163	152	157	159	152	155
24	201	191	195	166	156	163	171	161	166	227	150	160
25	203	196	200	163	158	160	176	171	174	246	122	164
26	204	201	203	171	159	165	179	175	178	125	73	98
27	206	203	205	177	164	167	179	177	178	188	96	147
28	242	116	195	181	65	151	183	176	179	112	83	96
29	---	---	---	108	62	93	187	182	184	138	112	127
30	---	---	---	124	108	118	188	186	188	135	128	131
31	---	---	---	139	124	131	---	---	---	144	133	138
Month	242	114	199	211	54	147	203	79	155	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	156	139	149	---	---	---	139	121	130	---	---	---
2	158	148	153	193	189	191	144	135	142	---	---	---
3	158	152	155	193	190	192	142	137	139	---	---	---
4	157	150	155	195	190	193	154	139	146	213	204	207
5	191	125	147	198	193	195	163	154	159	---	---	---
6	168	135	148	200	194	197	167	158	162	---	---	---
7	142	135	139	208	200	203	175	166	171	---	---	---
8	154	138	146	211	208	210	179	174	176	---	---	---
9	157	148	152	216	211	213	186	179	183	---	---	---
10	158	149	156	218	214	216	193	185	189	---	---	---
11	173	148	160	221	215	217	199	193	196	---	---	---
12	168	109	127	229	221	225	---	---	---	---	---	---
13	125	111	117	231	224	228	---	---	---	217	213	215
14	145	125	136	230	223	227	---	---	---	220	215	218
15	151	145	147	233	228	230	212	202	206	---	---	---
16	156	151	154	232	227	228	223	212	218	---	---	---
17	156	94	117	229	226	228	---	---	---	---	---	---
18	123	97	112	230	227	228	---	---	---	---	---	---
19	142	123	132	232	226	229	---	---	---	---	---	---
20	154	140	147	234	230	232	---	---	---	---	---	---
21	154	152	153	234	230	232	---	---	---	288	259	276
22	165	153	159	232	226	230	---	---	---	299	288	295
23	172	164	167	232	201	221	---	---	---	302	299	301
24	176	172	174	209	196	204	---	---	---	304	301	302
25	184	173	179	217	205	214	---	---	---	305	278	297
26	186	182	184	219	214	216	---	---	---	302	290	299
27	190	185	188	---	---	---	---	---	---	317	295	302
28	191	187	189	---	---	---	---	---	---	328	293	316
29	192	188	190	---	---	---	---	---	---	293	281	285
30	---	---	---	128	91	100	---	---	---	282	278	280
31	---	---	---	135	98	109	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	6.9	6.8	6.9	7.3	7.2	7.2	6.9	6.8	6.8	7.4	7.2	7.2
2	7.0	6.9	7.0	7.3	7.2	7.2	7.0	6.8	6.9	7.4	7.2	7.2
3	7.1	7.0	7.1	7.3	7.2	7.2	7.0	6.9	7.0	7.3	7.2	7.2
4	7.2	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.0	7.2	6.8	7.0
5	7.2	7.0	7.1	---	---	---	7.1	7.0	7.0	7.0	6.9	6.9
6	7.2	7.0	7.2	---	---	---	7.1	7.0	7.1	7.0	6.6	6.7
7	7.2	7.1	7.1	---	---	---	7.1	7.0	7.1	6.9	6.7	6.8
8	7.2	6.9	7.2	7.0	6.9	6.9	7.2	7.1	7.2	7.0	6.8	6.9
9	7.0	6.9	7.0	7.0	6.9	6.9	7.2	7.1	7.2	---	---	---
10	7.0	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.1	7.1	7.0	7.1
11	7.1	7.0	7.0	7.1	7.0	7.0	7.0	6.7	6.8	7.1	7.0	7.1
12	7.1	7.0	7.0	7.1	7.0	7.0	7.1	6.7	6.8	7.1	7.1	7.1
13	7.1	7.1	7.1	---	---	---	7.2	7.1	7.1	7.2	7.1	7.1
14	7.1	7.1	7.1	7.1	6.9	7.0	7.2	7.1	7.2	7.2	7.1	7.2
15	7.2	7.0	7.0	7.0	6.8	6.9	7.2	7.1	7.2	7.2	7.1	7.2
16	7.1	7.0	7.0	6.9	6.8	6.9	7.2	7.1	7.2	7.3	7.2	7.2
17	7.1	6.9	7.0	7.0	6.9	7.0	7.2	7.1	7.1	7.3	7.2	7.2
18	7.1	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1	7.2	7.2	7.2
19	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.2	7.2
20	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.0	7.2	7.3	7.2	7.2
21	7.1	7.1	7.1	7.2	7.2	7.2	7.1	7.0	7.1	7.3	7.2	7.3
22	7.2	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.1	7.3	7.2	7.3
23	7.2	7.1	7.1	7.2	7.1	7.1	7.0	7.0	7.0	7.3	7.2	7.2
24	7.1	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.0	7.3	7.2	7.2
25	7.1	7.0	7.1	7.1	7.1	7.1	7.0	6.9	7.0	7.3	7.2	7.2
26	7.1	7.0	7.1	7.2	7.1	7.1	7.1	7.0	7.0	7.3	7.2	7.3
27	7.2	7.0	7.1	7.2	7.1	7.1	7.1	7.0	7.0	7.4	7.2	7.3
28	7.2	7.1	7.2	7.1	7.0	7.1	7.2	7.0	7.0	7.4	7.2	7.3
29	7.2	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.1	7.4	7.2	7.3
30	7.2	7.1	7.2	7.1	6.9	7.0	7.2	7.0	7.1	7.4	7.2	7.3
31	7.3	7.1	7.2	---	---	---	7.3	7.1	7.2	7.4	7.3	7.3
Max	7.3	7.1	7.2	---	---	---	7.3	7.1	7.2	---	---	---
Min	6.9	6.8	6.9	---	---	---	6.9	6.7	6.8	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	7.4	7.3	7.3	7.0	6.5	6.7	7.0	6.7	6.8	7.1	7.0	7.0
2	7.4	7.3	7.3	6.8	6.5	6.8	6.9	6.8	6.8	7.0	7.0	7.0
3	7.6	7.2	7.3	7.1	6.8	6.8	7.2	6.8	6.9	7.0	6.9	7.0
4	7.5	7.3	7.4	7.2	7.1	7.2	7.3	6.9	7.0	7.0	7.0	7.0
5	7.6	7.4	7.5	7.3	7.2	7.2	7.4	6.9	7.1	7.0	6.7	7.0
6	7.5	7.4	7.4	7.3	7.2	7.2	7.3	7.0	7.1	---	---	---
7	7.5	7.3	7.4	7.4	7.2	7.3	7.5	7.0	7.2	6.9	6.8	6.9
8	7.5	7.3	7.4	7.6	7.2	7.3	7.6	7.1	7.2	6.9	6.9	6.9
9	7.6	7.3	7.4	7.8	7.3	7.4	7.6	7.1	7.2	6.9	6.9	6.9
10	7.7	7.3	7.4	8.0	7.3	7.5	7.2	6.9	7.1	6.9	6.9	6.9
11	7.6	7.2	7.4	8.3	7.3	7.5	7.0	6.8	6.9	7.0	6.9	6.9
12	7.5	7.2	7.4	8.2	7.3	7.5	7.1	6.9	7.0	7.1	7.0	7.1
13	7.5	7.3	7.3	7.5	7.3	7.4	7.1	6.9	7.0	7.1	7.0	7.1
14	7.4	7.2	7.3	7.4	7.2	7.3	7.1	6.4	7.0	7.0	7.0	7.0
15	7.4	7.2	7.3	7.2	7.0	7.1	6.9	6.6	6.9	---	---	---
16	7.5	7.2	7.4	7.1	7.0	7.0	7.0	6.9	7.0	---	---	---
17	7.5	7.3	7.4	7.2	7.0	7.1	7.2	6.9	7.0	---	---	---
18	7.4	7.1	7.3	7.2	7.0	7.1	7.3	7.1	7.2	---	---	---
19	7.1	6.6	6.9	7.3	7.0	7.1	7.3	7.1	7.2	7.1	7.0	7.1
20	7.1	6.9	7.1	7.3	7.1	7.1	7.2	7.0	7.2	7.1	7.1	7.1
21	7.2	7.1	7.1	7.4	7.0	7.2	7.2	7.1	7.1	7.1	7.0	7.1
22	7.2	7.1	7.1	7.4	7.1	7.2	7.2	7.1	7.1	7.1	7.0	7.0
23	7.3	7.1	7.2	7.6	7.1	7.3	7.2	7.1	7.1	7.0	7.0	7.0
24	7.3	7.2	7.3	7.8	7.1	7.3	7.1	7.0	7.1	7.0	6.9	7.0
25	7.3	7.2	7.2	7.5	7.2	7.3	7.1	7.0	7.0	7.0	6.8	7.0
26	7.3	7.2	7.2	7.6	7.2	7.3	7.0	7.0	7.0	6.9	6.7	6.8
27	7.3	7.2	7.2	7.4	7.1	7.3	7.0	7.0	7.0	6.9	6.8	6.8
28	7.2	6.8	7.2	7.2	6.3	7.1	7.1	7.0	7.0	6.8	6.7	6.8
29	---	---	---	6.8	6.3	6.7	7.1	7.0	7.0	6.9	6.7	6.8
30	---	---	---	6.9	6.7	6.8	7.1	7.0	7.0	6.8	6.8	6.8
31	---	---	---	7.0	6.8	6.8	---	---	---	6.9	6.8	6.8
Max	7.7	7.4	7.5	8.3	7.3	7.5	7.6	7.1	7.2	---	---	---
Min	7.1	6.6	6.9	6.8	6.3	6.7	6.9	6.4	6.8	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	6.9	6.9	6.9	---	---	---	6.8	6.8	6.8	7.0	6.9	7.0
2	7.0	6.9	7.0	7.3	7.2	7.2	6.8	6.8	6.8	---	---	---
3	7.0	6.9	7.0	7.3	7.2	7.2	6.9	6.8	6.8	---	---	---
4	7.0	6.9	7.0	7.3	7.2	7.2	6.9	6.8	6.8	7.2	7.0	7.1
5	7.0	6.8	6.9	7.3	7.0	7.2	6.9	6.8	6.8	---	---	---
6	6.9	6.8	6.9	7.1	7.0	7.0	6.9	6.8	6.9	---	---	---
7	7.0	6.9	6.9	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
8	7.0	6.9	7.0	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.9	---	---	---
10	7.1	7.0	7.0	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
11	7.1	6.9	7.0	7.1	7.0	7.0	7.0	6.9	7.0	---	---	---
12	7.0	6.8	6.9	7.1	7.0	7.0	---	---	---	---	---	---
13	6.8	6.8	6.8	7.1	7.0	7.0	---	---	---	7.1	7.1	7.1
14	6.9	6.8	6.8	7.1	7.0	7.0	---	---	---	7.1	7.1	7.1
15	6.9	6.8	6.9	7.1	7.1	7.1	7.1	7.0	7.0	---	---	---
16	7.0	6.9	6.9	7.1	7.0	7.0	7.1	7.0	7.0	---	---	---
17	7.0	6.7	6.8	7.1	7.0	7.0	7.1	7.0	7.0	---	---	---
18	6.8	6.7	6.8	7.2	7.0	7.1	7.1	7.0	7.1	---	---	---
19	6.9	6.8	6.9	7.3	7.1	7.2	7.1	7.0	7.0	---	---	---
20	7.0	6.9	7.0	7.3	7.1	7.2	7.0	7.0	7.0	---	---	---
21	7.0	6.9	7.0	7.3	7.1	7.2	7.0	7.0	7.0	7.0	6.9	7.0
22	7.0	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.0
23	7.1	7.0	7.0	7.2	7.0	7.1	7.1	7.0	7.0	7.1	7.0	7.0
24	7.1	7.0	7.1	7.0	7.0	7.0	7.1	7.0	7.0	7.0	7.0	7.0
25	7.1	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.0	7.1	6.9	7.0
26	7.0	7.0	7.0	7.2	7.0	7.0	7.1	7.0	7.0	7.0	6.9	7.0
27	7.0	7.0	7.0	---	---	---	7.1	7.0	7.1	7.0	7.0	7.0
28	7.1	7.0	7.0	---	---	---	7.2	7.0	7.1	7.0	7.0	7.0
29	7.1	7.0	7.1	---	---	---	7.1	7.0	7.1	7.1	7.0	7.1
30	---	---	---	6.8	6.6	6.8	7.1	7.0	7.0	7.2	7.1	7.1
31	---	---	---	6.8	6.7	6.8	7.0	7.0	7.0	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	19.8	17.8	19.0	9.9	6.8	8.3	7.3	6.3	6.9	7.3	4.5	6.0
2	18.2	16.2	17.2	10.3	7.3	8.7	6.3	5.1	5.5	4.9	4.1	4.5
3	17.4	14.8	16.0	10.0	8.3	9.3	5.1	3.7	4.2	5.9	4.9	5.4
4	17.0	14.2	15.6	11.4	9.9	10.8	5.0	3.5	4.3	9.3	5.9	7.6
5	17.1	14.5	15.8	12.4	11.4	11.9	6.6	5.0	5.8	11.4	9.3	10.3
6	17.4	14.6	16.0	13.7	10.8	12.2	6.0	5.4	5.6	12.9	11.4	12.4
7	17.2	15.4	16.2	13.4	10.6	12.0	5.7	3.9	4.8	13.6	11.0	12.9
8	17.6	15.6	16.3	14.4	11.5	12.9	4.5	3.1	3.7	11.0	8.4	9.5
9	17.9	17.2	17.6	12.6	10.2	11.3	5.6	3.4	4.6	---	---	---
10	18.8	17.9	18.3	11.5	8.3	9.8	9.6	5.6	7.2	7.7	5.3	6.3
11	19.1	18.1	18.6	10.4	7.5	9.0	13.6	9.6	12.0	9.9	7.7	9.0
12	19.1	17.2	18.1	10.0	7.6	9.1	---	---	---	9.3	6.7	7.7
13	18.8	16.5	17.6	---	---	---	9.3	6.8	7.4	6.7	5.3	5.7
14	18.3	15.6	16.9	12.6	10.0	11.0	6.8	5.5	6.1	5.3	3.9	4.5
15	17.9	15.0	16.4	14.9	12.5	13.9	9.5	6.5	7.8	4.6	3.4	4.0
16	17.8	15.0	16.4	13.9	10.2	12.1	11.3	9.5	10.5	3.4	1.0	2.0
17	17.9	15.9	17.0	10.6	8.5	9.5	11.0	10.3	10.7	1.3	0.1	0.7
18	16.0	14.8	15.3	8.5	5.9	7.5	12.0	10.9	11.4	2.1	0.8	1.5
19	14.8	12.4	13.7	7.0	4.7	5.6	13.6	12.0	12.8	3.0	1.4	2.2
20	13.0	11.2	12.0	5.2	3.9	4.6	14.5	13.6	14.1	3.1	1.9	2.7
21	12.9	10.3	11.6	6.2	3.8	4.9	14.4	11.2	13.7	1.9	0.7	1.4
22	12.3	10.3	11.3	5.5	2.6	4.0	11.2	5.4	7.7	2.0	0.5	1.3
23	11.6	9.3	10.4	6.2	3.4	4.4	5.4	4.1	4.6	3.7	1.3	2.4
24	11.7	10.3	10.9	5.1	3.1	4.2	8.0	4.8	6.1	6.2	3.7	5.1
25	12.8	11.6	12.1	6.2	4.3	5.1	10.2	8.0	9.3	6.1	5.4	5.8
26	12.9	11.0	12.1	5.7	3.4	4.4	9.7	9.1	9.3	5.6	5.0	5.4
27	12.4	10.8	11.6	5.9	3.4	4.5	9.6	8.9	9.2	6.2	5.2	5.7
28	11.1	9.2	10.2	6.4	4.1	5.1	12.1	9.6	11.0	8.7	6.2	7.4
29	10.3	7.9	9.1	6.1	5.3	5.8	13.2	11.4	12.4	8.6	7.4	8.1
30	10.0	7.2	8.5	7.0	5.9	6.4	11.4	9.4	10.2	7.5	5.3	6.4
31	9.7	6.6	8.1	---	---	---	9.9	7.3	8.9	5.3	3.9	4.7
Month	19.8	6.6	14.4	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	5.5	3.5	4.5	9.8	4.2	6.4	14.7	13.1	13.8	20.1	18.7	19.4
2	6.7	4.4	5.6	6.8	3.9	5.1	15.0	14.6	14.8	20.7	19.3	19.9
3	6.4	5.6	6.0	6.1	3.4	4.8	17.9	14.6	16.0	20.6	19.4	19.9
4	5.9	2.8	4.2	6.8	3.1	5.0	17.1	13.7	15.5	20.4	19.6	19.9
5	2.8	1.2	1.9	8.0	4.2	6.2	17.7	13.9	15.8	20.5	19.2	19.6
6	2.8	0.7	1.8	11.1	6.7	8.8	18.4	15.5	17.0	---	---	---
7	4.8	2.0	3.4	13.7	10.1	11.9	15.5	11.5	13.2	21.0	19.1	20.0
8	7.8	4.5	6.3	15.8	12.4	14.0	13.0	9.6	11.3	20.6	19.9	20.3
9	9.1	6.9	8.1	17.2	14.0	15.5	15.5	11.2	13.2	22.1	20.1	21.1
10	10.4	8.0	9.2	16.3	13.9	15.3	14.7	13.6	14.3	21.9	20.6	21.2
11	12.1	9.2	10.6	18.2	14.9	16.5	16.2	13.9	14.9	21.0	17.0	19.0
12	12.3	10.6	11.4	17.5	14.1	15.6	16.0	12.9	14.5	17.4	15.6	16.6
13	11.2	9.3	10.4	14.1	9.5	11.4	14.8	13.4	13.8	17.3	15.8	16.7
14	10.9	9.8	10.3	9.5	8.3	8.6	17.5	13.3	14.6	18.3	16.6	17.5
15	10.1	8.4	9.3	9.7	8.3	8.8	16.4	14.5	15.5	---	---	---
16	9.3	7.9	8.7	10.5	9.7	10.0	16.1	13.5	14.8	---	---	---
17	7.9	5.7	6.7	12.2	10.1	11.0	15.8	12.4	14.2	---	---	---
18	9.4	6.5	7.2	13.1	9.8	11.4	16.9	13.0	14.9	---	---	---
19	10.6	8.7	9.7	14.3	10.5	12.4	16.1	14.6	15.2	15.7	14.0	14.9
20	8.7	5.9	6.9	13.8	11.0	12.5	17.4	14.9	16.1	16.6	13.9	15.2
21	6.6	4.2	5.6	12.5	9.4	11.1	17.0	15.2	16.1	18.2	16.4	17.3
22	8.0	5.9	6.7	13.0	9.3	11.2	15.7	13.9	14.8	18.8	17.1	18.0
23	6.3	4.2	5.3	14.0	10.3	12.2	16.4	12.7	14.6	18.6	17.8	18.3
24	5.1	3.1	4.4	14.7	11.9	13.2	18.4	14.7	16.5	19.4	18.2	18.8
25	5.6	3.7	4.8	13.6	10.3	11.7	20.2	17.2	18.8	20.7	19.2	19.8
26	9.0	5.6	7.1	11.7	9.4	10.3	20.7	18.5	19.7	21.8	20.6	21.3
27	10.3	9.0	9.6	13.4	11.7	12.5	20.4	18.7	19.7	21.8	20.9	21.3
28	11.2	9.8	10.4	14.8	13.2	13.8	19.8	17.9	19.0	22.0	21.3	21.7
29	---	---	---	16.3	13.4	14.6	19.4	18.0	18.8	22.2	20.6	21.4
30	---	---	---	14.8	11.6	13.4	19.4	17.9	18.8	21.9	20.6	21.4
31	---	---	---	14.3	11.7	13.0	---	---	---	21.9	20.1	21.0
Month	12.3	0.7	7.0	18.2	3.1	11.2	20.7	9.6	15.7	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	22.2	20.2	21.3	---	---	---	24.4	23.4	23.9	22.6	20.3	21.3
2	22.7	20.7	21.8	25.2	21.6	23.3	24.2	23.9	24.0	---	---	---
3	23.2	21.7	22.5	24.8	21.6	23.0	25.0	23.4	24.2	---	---	---
4	22.9	21.8	22.2	24.0	19.9	22.0	25.2	23.4	24.3	20.8	18.0	19.6
5	22.0	21.0	21.5	22.8	21.2	21.9	25.7	23.6	24.5	---	---	---
6	21.9	20.8	21.4	23.3	21.9	22.5	25.1	23.4	24.2	---	---	---
7	22.0	20.2	21.1	24.0	22.0	23.0	24.7	22.5	23.6	---	---	---
8	22.6	20.7	21.7	23.6	21.6	22.7	24.9	22.7	23.8	---	---	---
9	23.3	21.7	22.5	22.7	21.9	22.3	25.8	23.1	24.4	---	---	---
10	23.0	21.9	22.5	22.7	21.3	22.0	26.3	23.7	25.0	---	---	---
11	23.1	21.6	22.4	22.9	21.3	22.1	26.9	24.2	25.4	---	---	---
12	23.2	21.5	22.3	24.6	21.9	23.2	---	---	---	---	---	---
13	23.9	22.1	23.0	24.3	23.3	23.7	---	---	---	21.2	19.0	20.3
14	23.8	22.6	23.3	23.8	22.4	23.1	---	---	---	21.1	18.8	20.1
15	23.4	22.3	22.9	23.6	21.3	22.6	24.6	22.8	23.6	---	---	---
16	23.2	22.5	22.9	24.6	22.3	23.4	24.1	23.0	23.4	---	---	---
17	22.6	21.4	21.9	25.7	23.2	24.4	24.0	22.5	23.3	---	---	---
18	23.6	21.9	22.7	25.4	23.1	24.2	25.1	22.8	23.9	---	---	---
19	23.5	22.3	23.0	24.3	20.8	22.6	26.5	23.0	24.7	---	---	---
20	24.3	23.0	23.6	23.8	20.9	22.3	26.5	23.9	24.9	---	---	---
21	25.1	23.6	24.3	23.9	21.1	22.2	26.9	23.7	25.2	22.7	20.9	21.7
22	24.6	23.1	24.0	24.1	21.2	22.6	26.6	23.9	25.0	21.9	20.1	21.2
23	24.4	22.8	23.7	23.7	21.8	22.8	25.1	22.9	23.8	22.9	21.4	22.0
24	24.7	23.1	23.9	24.1	22.2	23.1	25.3	21.9	23.5	23.7	21.8	22.7
25	24.4	22.5	23.5	24.1	22.1	23.2	25.4	21.2	23.3	23.8	22.1	22.9
26	25.0	22.8	23.9	25.7	21.8	23.7	25.4	20.8	23.2	22.3	20.3	20.8
27	25.7	23.4	24.5	---	---	---	25.3	21.1	23.1	21.8	19.8	20.6
28	25.4	23.6	24.5	---	---	---	24.8	22.3	23.5	21.3	18.8	20.1
29	26.0	23.4	24.5	---	---	---	25.3	21.7	23.4	19.4	16.6	18.1
30	---	---	---	---	---	---	24.8	21.2	23.0	18.2	14.4	16.4
31	---	---	---	24.6	23.8	24.2	23.0	21.1	21.7	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	6.9	6.0	6.4	8.7	7.7	8.1	10.9	10.6	10.8	12.2	10.3	11.1
2	---	---	---	9.1	7.5	8.1	11.5	10.6	11.1	12.6	11.1	11.6
3	---	---	---	8.3	7.3	7.8	12.1	11.2	11.7	12.4	10.8	11.5
4	---	---	---	7.7	6.8	7.3	12.1	11.4	11.8	---	---	---
5	---	---	---	---	---	---	11.6	10.5	11.1	---	---	---
6	---	---	---	---	---	---	11.2	10.5	10.8	---	---	---
7	---	---	---	---	---	---	11.4	10.5	11.0	---	---	---
8	---	---	---	7.0	5.4	6.0	12.3	11.2	11.8	---	---	---
9	---	---	---	6.6	5.5	5.9	12.5	11.3	11.9	---	---	---
10	---	---	---	7.5	5.6	6.2	11.3	9.4	10.8	---	---	---
11	---	---	---	7.6	5.8	6.5	9.4	7.6	8.3	---	---	---
12	---	---	---	7.7	5.9	6.6	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	9.0	6.0	7.6	---	---	---	---	---	---
15	---	---	---	9.0	7.2	8.1	---	---	---	---	---	---
16	7.2	5.9	6.4	8.0	7.1	7.5	---	---	---	---	---	---
17	6.8	5.2	5.9	9.0	7.8	8.4	---	---	---	---	---	---
18	8.0	5.7	7.3	9.6	8.2	9.1	---	---	---	---	---	---
19	7.8	7.3	7.5	10.1	8.9	9.6	---	---	---	---	---	---
20	8.2	7.4	7.8	11.7	9.1	10.9	---	---	---	---	---	---
21	8.4	7.5	7.9	11.7	11.1	11.4	---	---	---	---	---	---
22	8.4	7.6	7.9	11.8	10.6	11.2	---	---	---	---	---	---
23	8.6	7.6	8.0	11.2	10.3	10.6	---	---	---	---	---	---
24	8.2	7.4	7.8	11.0	10.1	10.6	12.1	10.9	11.7	---	---	---
25	7.8	7.0	7.3	10.6	10.0	10.2	10.9	9.8	10.3	---	---	---
26	7.6	6.8	7.2	10.7	10.0	10.3	10.4	9.5	10	---	---	---
27	8.2	7.0	7.5	11.0	10.1	10.5	10.8	9.8	10.2	---	---	---
28	8.5	7.3	7.9	11.1	10.0	10.5	10.6	9.2	9.8	---	---	---
29	8.8	7.7	8.2	10.4	9.6	9.9	9.8	8.6	9.1	---	---	---
30	9.0	7.7	8.2	10.9	9.5	10.1	10.5	8.9	9.6	---	---	---
31	8.9	7.6	8.2	---	---	---	11.2	9.5	10.2	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	10.3	8.9	9.4	5.7	5.2	5.4
2	---	---	---	---	---	---	9.4	8.5	8.9	5.4	4.9	5.2
3	---	---	---	---	---	---	9.7	7.9	8.7	5.3	4.6	4.9
4	---	---	---	13.5	12.2	12.9	10.3	7.8	8.8	5.9	4.8	5.3
5	---	---	---	15.6	12.0	13.1	10.2	7.6	8.6	6.3	5.2	5.5
6	---	---	---	12.6	10.1	11.4	9.1	6.8	7.7	---	---	---
7	---	---	---	11.2	9.5	10.3	10.6	7.3	8.8	6.5	5.8	6.2
8	---	---	---	10.9	9.0	9.9	11.3	8.5	9.6	5.9	5.6	5.8
9	---	---	---	11.3	8.8	9.7	10.8	8.0	9.1	5.9	5.5	5.7
10	---	---	---	11.7	8.6	9.9	9.3	7.2	8.0	5.9	5.4	5.6
11	---	---	---	12.5	8.4	10.0	8.2	7.1	7.7	6.3	5.3	5.8
12	---	---	---	12.4	8.1	10.1	8.8	7.1	7.8	7.0	6.2	6.7
13	---	---	---	---	---	---	8.3	7.1	7.6	6.9	6.5	6.7
14	---	---	---	---	---	---	8.4	7.0	7.5	6.6	6.2	6.4
15	---	---	---	---	---	---	8.1	7.2	7.7	---	---	---
16	---	---	---	---	---	---	8.7	7.4	8.0	---	---	---
17	---	---	---	---	---	---	9.5	7.6	8.2	---	---	---
18	---	---	---	---	---	---	8.7	7.4	8.0	---	---	---
19	---	---	---	---	---	---	8.2	7.2	7.6	8.3	7.6	7.9
20	---	---	---	---	---	---	7.8	7.0	7.4	8.1	7.2	7.8
21	---	---	---	---	---	---	7.8	6.8	7.2	7.5	6.7	7.2
22	---	---	---	---	---	---	7.7	6.9	7.2	7.2	6.2	6.8
23	---	---	---	---	---	---	7.7	6.6	7.2	6.7	6.2	6.4
24	---	---	---	---	---	---	7.0	6.1	6.5	6.8	5.8	6.4
25	---	---	---	---	---	---	6.4	5.6	6.1	7.6	5.6	6.8
26	---	---	---	---	---	---	6.0	5.4	5.7	7.7	6.4	6.9
27	---	---	---	---	---	---	6.0	5.2	5.5	7.3	5.8	6.3
28	---	---	---	---	---	---	5.9	5.3	5.6	7.3	6.1	6.7
29	---	---	---	---	---	---	6.3	5.3	5.7	7.3	5.8	6.4
30	---	---	---	---	---	---	6.1	5.3	5.6	6.4	5.8	6.1
31	---	---	---	---	---	---	---	---	---	6.5	5.9	6.2
Month	---	---	---	---	---	---	11.3	5.2	7.6	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	6.4	5.8	6.2	---	---	---	---	---	---	---	---	---
2	6.6	5.8	6.2	7.3	5.7	6.3	---	---	---	---	---	---
3	6.8	5.5	6.0	7.3	5.6	6.4	---	---	---	---	---	---
4	6.9	6.1	6.5	---	---	---	---	---	---	6.0	4.5	5.0
5	8.6	6.2	7.4	9.5	6.8	8.3	---	---	---	---	---	---
6	7.4	6.2	6.5	8.3	6.6	7.3	---	---	---	---	---	---
7	7.3	6.3	6.7	8.1	6.6	7.3	---	---	---	---	---	---
8	7.3	6.4	6.9	9.0	7.2	7.9	---	---	---	---	---	---
9	8.0	6.2	7.1	8.0	6.9	7.4	---	---	---	---	---	---
10	---	---	---	8.6	6.8	7.5	---	---	---	---	---	---
11	---	---	---	8.8	6.8	7.8	---	---	---	---	---	---
12	---	---	---	9.3	7.4	8.0	---	---	---	---	---	---
13	---	---	---	8.8	7.2	7.8	---	---	---	4.0	3.3	3.6
14	---	---	---	8.9	7.1	8.1	---	---	---	3.6	3.2	3.4
15	---	---	---	9.1	7.6	8.5	---	---	---	---	---	---
16	---	---	---	8.8	7.0	7.9	---	---	---	---	---	---
17	---	---	---	8.1	6.5	7.2	---	---	---	---	---	---
18	---	---	---	8.9	6.3	7.3	---	---	---	---	---	---
19	---	---	---	9.4	7.0	7.9	---	---	---	---	---	---
20	---	---	---	9.6	7.0	8.1	---	---	---	---	---	---
21	---	---	---	9.9	6.9	7.9	---	---	---	3.6	1.8	3.0
22	---	---	---	9.1	6.8	7.6	---	---	---	3.8	2.7	3.2
23	---	---	---	8.2	6.0	6.9	---	---	---	3.9	3.2	3.6
24	---	---	---	6.8	5.7	6.2	---	---	---	3.5	2.9	3.1
25	---	---	---	6.6	5.5	6.2	---	---	---	3.3	2.4	2.9
26	---	---	---	7.1	5.1	5.9	---	---	---	4.1	1.9	3.0
27	---	---	---	---	---	---	---	---	---	4.4	3.0	3.7
28	---	---	---	---	---	---	---	---	---	4.6	3.6	4.2
29	---	---	---	---	---	---	---	---	---	4.9	4.2	4.6
30	---	---	---	---	---	---	---	---	---	5.5	4.5	4.9
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	77	65	70	78	63	70	92	88	90	102	86	91
2	---	---	---	83	66	71	93	87	90	100	87	92
3	---	---	---	75	66	70	95	88	92	101	88	93
4	---	---	---	71	63	67	95	91	93	---	---	---
5	---	---	---	---	---	---	94	85	91	---	---	---
6	---	---	---	---	---	---	92	85	87	---	---	---
7	---	---	---	---	---	---	93	84	88	---	---	---
8	---	---	---	70	51	59	97	87	91	---	---	---
9	---	---	---	63	51	55	100	90	94	---	---	---
10	---	---	---	70	50	56	97	84	91	---	---	---
11	---	---	---	69	51	57	84	74	78	---	---	---
12	---	---	---	69	53	59	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	86	54	70	---	---	---	---	---	---
15	---	---	---	86	71	80	---	---	---	---	---	---
16	76	62	67	76	69	72	---	---	---	---	---	---
17	72	56	62	82	70	75	---	---	---	---	---	---
18	81	58	73	83	72	77	---	---	---	---	---	---
19	76	70	73	85	71	78	---	---	---	---	---	---
20	77	69	72	92	73	86	---	---	---	---	---	---
21	79	69	72	96	86	91	---	---	---	---	---	---
22	78	68	71	93	82	87	---	---	---	---	---	---
23	78	68	71	91	79	84	---	---	---	---	---	---
24	74	67	69	87	79	83	100	93	96	---	---	---
25	71	64	67	87	79	82	96	88	91	---	---	---
26	68	62	65	86	78	81	92	84	88	---	---	---
27	74	63	67	89	79	83	96	86	90	---	---	---
28	75	64	68	91	80	84	99	86	90	---	---	---
29	76	64	69	85	78	81	95	82	87	---	---	---
30	76	63	68	91	78	83	97	81	87	---	---	---
31	75	62	67	---	---	---	101	83	89	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	103	87	92	64	58	60
2	---	---	---	---	---	---	95	85	89	61	55	58
3	---	---	---	---	---	---	103	82	90	60	52	55
4	---	---	---	108	99	103	108	78	90	67	54	60
5	---	---	---	128	100	108	109	76	89	70	57	61
6	---	---	---	109	93	100	99	71	82	---	---	---
7	---	---	---	109	91	98	103	71	85	72	66	69
8	---	---	---	112	89	98	109	76	90	67	63	65
9	---	---	---	120	87	99	108	75	89	69	63	66
10	---	---	---	122	86	101	93	71	80	68	62	64
11	---	---	---	135	85	105	81	72	78	67	60	63
12	---	---	---	128	82	103	90	71	79	74	65	71
13	---	---	---	---	---	---	82	70	75	73	67	70
14	---	---	---	---	---	---	85	71	75	71	66	68
15	---	---	---	---	---	---	83	74	79	---	---	---
16	---	---	---	---	---	---	89	76	81	---	---	---
17	---	---	---	---	---	---	96	75	82	---	---	---
18	---	---	---	---	---	---	90	74	80	---	---	---
19	---	---	---	---	---	---	84	73	78	84	77	80
20	---	---	---	---	---	---	83	73	77	83	75	79
21	---	---	---	---	---	---	82	71	75	80	72	76
22	---	---	---	---	---	---	79	68	73	79	68	73
23	---	---	---	---	---	---	78	67	72	73	67	70
24	---	---	---	---	---	---	75	63	68	75	64	70
25	---	---	---	---	---	---	72	63	66	87	62	76
26	---	---	---	---	---	---	68	59	63	88	74	80
27	---	---	---	---	---	---	68	57	62	85	67	72
28	---	---	---	---	---	---	66	58	62	84	71	78
29	---	---	---	---	---	---	70	57	62	83	68	74
30	---	---	---	---	---	---	68	57	61	75	66	70
31	---	---	---	---	---	---	---	---	---	75	68	71
Month	---	---	---	---	---	---	109	57	77	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	74	68	71	---	---	---	---	---	---	---	---	---
2	78	68	72	90	68	76	---	---	---	---	---	---
3	81	66	71	89	66	76	---	---	---	---	---	---
4	81	72	76	---	---	---	---	---	---	68	49	56
5	100	71	85	112	80	96	---	---	---	---	---	---
6	86	71	75	99	78	86	---	---	---	---	---	---
7	84	72	77	98	78	87	---	---	---	---	---	---
8	86	74	80	108	85	94	---	---	---	---	---	---
9	95	72	84	94	81	87	---	---	---	---	---	---
10	---	---	---	102	78	88	---	---	---	---	---	---
11	---	---	---	104	79	91	---	---	---	---	---	---
12	---	---	---	114	86	96	---	---	---	---	---	---
13	---	---	---	107	86	95	---	---	---	46	37	41
14	---	---	---	108	84	97	---	---	---	41	37	38
15	---	---	---	109	90	100	---	---	---	---	---	---
16	---	---	---	108	85	95	---	---	---	---	---	---
17	---	---	---	101	80	88	---	---	---	---	---	---
18	---	---	---	111	76	89	---	---	---	---	---	---
19	---	---	---	115	82	94	---	---	---	---	---	---
20	---	---	---	116	81	95	---	---	---	---	---	---
21	---	---	---	120	80	93	---	---	---	43	21	34
22	---	---	---	110	79	90	---	---	---	44	31	37
23	---	---	---	97	72	81	---	---	---	46	38	42
24	---	---	---	83	68	74	---	---	---	42	34	37
25	---	---	---	80	66	74	---	---	---	40	28	34
26	---	---	---	89	59	71	---	---	---	46	22	34
27	---	---	---	---	---	---	---	---	---	51	34	42
28	---	---	---	---	---	---	---	---	---	53	41	47
29	---	---	---	---	---	---	---	---	---	54	46	49
30	---	---	---	---	---	---	---	---	---	59	47	51
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	110	45	60	5.2	1.1	3.1
2	---	---	---	---	---	---	51	27	36	8.9	2.5	5.4
3	19	8.2	12	---	---	---	28	18	23	7.2	2.7	5.1
4	17	6.0	11	---	---	---	20	14	17	600	2.3	170
5	10	4.8	7.1	---	---	---	17	11	14	160	48	91
6	6.9	2.5	4.4	1.7	0.0	0.6	13	7.6	9.5	1,010	44	290
7	3.6	1.9	2.2	6.6	0.0	0.5	8.3	4.3	6.5	250	77	120
8	110	2.3	13	---	---	---	8.5	3.8	5.6	100	39	60
9	74	9.8	38	---	---	---	8.2	4.4	6.9	---	---	---
10	14	3.4	5.9	---	---	---	28	7.1	9.2	46	15	20
11	5.5	3.5	3.8	---	---	---	---	---	---	44	14	17
12	6.2	4.0	4.7	---	---	---	---	---	---	40	8.6	12
13	17	4.4	5.9	---	---	---	100	43	63	14	5.6	8.6
14	11	4.8	5.1	180	0.2	41	54	34	40	13	4.4	6.7
15	8.6	4.5	5.5	75	32	44	44	31	34	7.2	3.9	5.6
16	7.8	3.9	5.8	41	18	30	41	29	32	8.8	2.4	4.9
17	11	3.3	5.3	23	12	16	39	26	31	4.9	2.5	3.7
18	75	11	30	17	6.4	9.5	35	27	30	6.0	1.6	3.3
19	45	13	33	9.2	5.1	6.8	38	29	33	11	1.6	3.3
20	40	29	35	13	1.3	5.1	37	26	31	7.3	1.2	3.5
21	29	18	23	3.4	0.3	1.8	52	27	37	10	1.0	4.1
22	19	13	16	2.7	0.0	1.1	32	20	24	5.1	1.1	2.7
23	16	11	13	5.7	0.0	2.3	24	14	18	4.4	1.4	2.6
24	14	8.9	11	6.3	1.4	4.2	19	10	14	6.5	1.8	3.5
25	15	4.5	9.3	19	3.6	5.9	20	7.0	11	10	2.2	4.2
26	13	2.5	5.8	15	3.2	5.3	11	3.8	6.9	7.0	2.2	4.2
27	5.4	1.9	3.0	10	2.9	4.4	9.3	3.7	5.8	4.7	2.0	3.0
28	4.4	2.2	3.2	9.0	4.8	6.5	9.5	3.5	5.6	18	2.0	6.4
29	---	---	---	18	5.4	8.5	12	4.1	7.2	46	5.4	15
30	---	---	---	220	6.2	67	11	3.4	5.6	8.1	2.9	4.8
31	---	---	---	---	---	---	8.3	2.2	4.6	9.3	3.0	5.2
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	9.0	3.2	5.9	1,020	140	350	24	12	16	6.5	2.6	3.8
2	16	3.9	7.4	---	---	---	17	8.7	11	---	---	---
3	18	5.0	11	---	---	---	21	9.8	13	---	---	---
4	9.2	4.0	5.8	49	29	37	14	8.3	10	---	---	---
5	10	4.8	6.7	40	21	26	13	7.4	9.0	---	---	---
6	12	5.5	8.0	26	17	19	12	7.2	8.3	---	---	---
7	11	6.0	7.9	18	13	15	16	6.2	8.3	87	33	58
8	14	5.9	8.1	16	12	13	14	7.0	8.6	42	20	27
9	9.7	5.2	6.9	17	9.9	12	27	9.8	13	25	15	19
10	8.5	5.2	7.0	15	7.9	9.9	220	12	23	25	13	17
11	---	---	---	13	7.7	9.1	540	46	140	41	15	25
12	---	---	---	12	6.7	8.2	52	16	32	21	13	16
13	---	---	---	13	6.3	8.3	---	---	---	27	15	19
14	---	---	---	110	8.1	26	---	---	---	---	---	---
15	---	---	---	150	38	77	---	---	---	---	---	---
16	---	---	---	90	39	56	---	---	---	---	---	---
17	---	---	---	43	25	33	---	---	---	---	---	---
18	1,300	5.5	77	26	16	20	26	3.7	7.6	---	---	---
19	---	---	---	28	13	15	53	1.4	10	31	16	21
20	130	44	79	160	26	58	140	5.5	43	34	14	19
21	58	30	38	35	20	25	23	9.7	16	29	12	17
22	30	17	22	20	14	16	20	3.3	8.8	28	10	16
23	39	11	16	23	13	18	---	---	---	23	12	14
24	16	8.9	11	27	16	18	35	0.7	5.1	59	14	28
25	16	7.3	10	20	17	18	---	---	---	290	28	87
26	12	7.0	8.6	21	17	19	---	---	---	470	110	230
27	20	7.9	9.8	26	19	21	---	---	---	600	56	120
28	510	9.1	130	---	---	---	---	---	---	650	78	200
29	---	---	---	---	---	---	13	2.2	4.7	150	55	77
30	---	---	---	---	---	---	8.0	3.0	4.9	67	44	55
31	---	---	---	---	---	---	---	---	---	63	35	44
Month	---	---	---	---	---	---	---	---	---	---	---	---

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	74	30	40	---	---	---	260	69	150	---	---	---
2	65	24	33	16	4.9	11	270	54	190	---	---	---
3	47	24	31	14	4.0	8.3	57	44	48	---	---	---
4	44	24	31	9.8	0.4	4.5	50	38	43	---	---	---
5	210	40	86	13	0.1	5.7	74	18	36	---	---	---
6	78	35	53	21	4.6	11	33	20	24	---	---	---
7	65	31	38	28	4.7	12	31	15	20	---	---	---
8	53	26	35	30	4.8	14	---	---	---	---	---	---
9	64	26	34	19	6.4	11	---	---	---	---	---	---
10	75	28	39	18	7.2	12	---	---	---	---	---	---
11	92	35	47	21	0.7	11	---	---	---	---	---	---
12	140	36	95	30	4.3	15	---	---	---	---	---	---
13	97	48	69	26	13	20	---	---	---	8.8	0.5	3.1
14	95	39	51	36	9.5	18	---	---	---	8.6	0.1	3.2
15	61	37	43	24	7.2	15	50	15	30	---	---	---
16	72	36	47	25	12	19	48	12	29	---	---	---
17	510	38	230	28	12	20	61	22	39	---	---	---
18	---	---	---	34	18	25	52	18	34	---	---	---
19	---	---	---	39	19	30	41	17	26	---	---	---
20	---	---	---	38	11	25	25	9.1	17	---	---	---
21	---	---	---	22	9.6	16	10	3.9	6.9	9.6	5.9	7.5
22	---	---	---	24	10	16	---	---	---	12	4.0	7.2
23	---	---	---	42	12	23	---	---	---	12	5.9	7.1
24	---	---	---	60	20	33	---	---	---	13	5.7	8.4
25	---	---	---	48	18	33	---	---	---	13	5.0	8.5
26	---	---	---	---	---	---	---	---	---	12	3.5	5.9
27	---	---	---	---	---	---	---	---	---	38	3.1	7.2
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	410	120	200	---	---	---	---	---	---
31	---	---	---	120	62	85	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---