

# Haw River Watch Monitoring Report 1994 - 2013

## Alma Creek

 AlmaCr-2-0001

Alamance

Rosa Ragan

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/1/1998	No	No	45	48	High	6	15 Fair		
6/1/1998	No	No	85	70	Low	6.4	4 Poor		
9/1/1998	No	No	90		Negligible	7	0 No benthic data		
12/1/1998	Yes	No	62	52	Normal	6	17 Good		
3/1/1999	No	No	46	52	Low	6.7	11 Fair		
9/1/1999	No	No	75	72	Negligible	6.2	0 No benthic data		
12/1/1999	Yes	No	55	48	Normal	6.6	15 Fair		
6/1/2000	No	Yes	70	65	Normal	6.8	14 Fair		

## Back Creek

 BackCr-2-0065

Alamance

Martha Honus

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
6/20/1998	No	Yes	84	74	Normal	7	22 Good		
9/27/1998	No	Yes	80	76	Low	7	8 Poor		
4/4/1999	No	No	80	62	Normal		11 Fair		

## Back Creek (Gibsonville)

 BacCrGib-3-0061

Guilford

Wade Hoiland

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
6/1/1998	No	Yes	90	71	Normal	7.4	22 Good		
12/19/1998	No	No	48	42	Normal	6.8	5 Poor		
4/3/1999	No	No	65	60	Normal	7	13 Fair		
6/1/1999	No	No	90		Low	7.2	11 Fair		
10/2/1999	No	Yes	73	64	Normal		17 Good		
7/3/2000	No	Yes	83	71.2	Low	7.2	23 Excellent		
3/12/2001	No	No	56	51.8	Normal	7.2	19 Good		
6/23/2001	No	No	70		Normal	7.4	15 Fair		

## Ben's Creek

 BensCr-1-0008

Guilford

Fred Berry

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/16/1995	No	Yes	52	47	Normal	6.2	15 Fair		
3/23/1996	No	No	50		Normal	6.4	9 Poor		
6/21/1997	Yes	Yes	80	75	Normal	6.7	7 Poor		
4/5/1998	No	Yes	60	58	Normal	6.5	19 Good		
10/10/1998	Yes	Yes	70	62	Normal	6.8	14 Fair		
12/5/1999	No	No	51		Normal		13 Fair		

## Big Alamance Creek Boy Wood

 GreatAla-3-0001

Alamance

Kim Colvin

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/20/1997	No	No	58	42	Normal	7.4	21 Good		

**Big Alamance Creek NR** **BigAlama-3-0384**

Guilford

Nancy Routh

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/1994	Yes	Yes		47	Normal	7.4	19	Good
3/18/1995	Yes	Yes	65	57	Normal	7.4	22	Good
6/17/1995	Yes	Yes	79	67	Normal	7.4	22	Good
9/24/1995	No	Yes		56	Normal	7.6	23	Excellent
12/17/1995	No	No	50	48	Normal	7.4	15	Fair
3/24/1996	No	Yes	70	50	Normal	7.4	21	Good
6/22/1996	No	No	80	73	Normal	7.4	20	Good
9/21/1996	No	No			Normal	7.4	20	Good
3/23/1997	No	No		56	Normal	7.2	8	Poor
6/22/1997	No	Yes	84	76	Normal	7.4	16	Fair
9/21/1997	No	Yes	71	68	Low	7.5	15	Fair
10/21/1997	No	Yes	71	68	Normal	7.5	15	Fair
3/22/1998	No	No	56	47	High	7.4	22	Good
6/21/1998	No	Yes	80	72	Normal	7.4	20	Good
3/20/1999	No	No		54	Normal	7.4	17	Good
6/18/2000	No	Yes	86	75	Normal	7.4	19	Good

**Big Alamance Creek RF** **BigAlama-3-0268**

Alamance

Robb Fulkerson

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/7/1995	No	No		56	Normal	7	18	Good
12/16/1995	No	No	53	44.6	High	7	8	Poor
3/23/1996	No	Yes	60	42.8	Normal	7	18	Good
9/29/1996	No	No	65	62.6	High	6.7	17	Good
3/15/1997	No	No	44	50	High	6.8	16	Fair
6/28/1997	No	Yes	68	68	Low	6.8	18	Good

**Bolin Creek - Bolinwood Dr.** **BolinCr-6-0021**

Orange

Alison Kitto

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/6/2003	No	No	73	68	Normal	7.4	18	Good
1/21/2004	No	No	46	43	Normal	7.4	12	Fair
4/6/2004	No	No	66	63	Normal	7.4	17	Good
11/15/2004	No	No	59		Normal	7.4	8	Poor
12/11/2004	No	Yes	60	58	High	7.4	15	Fair
2/26/2005	No	No	55	48	Normal	7.4	18	Good
10/18/2005	No	Yes	70	61	Normal	7.2	13	Fair
12/4/2005	No	No	68	52	Normal	7.4	18	Good
1/16/2006	No	Yes	64	46	Normal	7.6	11	Fair
4/24/2006	No	Yes	83	70	Normal	7.6	13	Fair
9/24/2006	No	No	85		Low	7.6	12	Fair
11/5/2006	No	Yes	56	43	Normal	7.4	12	Fair
3/25/2007	No	Yes	75	68	Normal	7.6	16	Fair
9/22/2007	No	Yes		70	Normal	7.2	15	Fair
3/19/2008	No	No	82	68	Normal	7.4	1	Poor

**Bolin Creek - Community Center**  **BolinCr-6-0009**

Orange

Alyssa Wittenborn

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/23/1996	Yes	No	45	44	Normal	7.1	18	Good
6/29/1996	No	No	73	70	Low	7	12	Fair
3/18/2000	No	No	54	54	Normal	7.2	7	Poor
11/3/2006	No	Yes	49	54	Normal	7.1	15	Fair
1/15/2007	No	No	66	58	Normal	7.1	21	Good
3/25/2007	No	No	86	69	Normal	7.5	14	Fair
7/4/2007	No	Yes	85	75	Low	7.4	9	Poor
10/7/2007	No	Yes	88	76	Negligible	7.3	5	Poor
1/8/2008	No	Yes	68	52	Low	7.2	11	Fair
3/23/2008	No	Yes	68	58	Normal	7.3	5	Poor
6/20/2008	No	Yes	90	78	Normal	7.4	8	Poor
9/21/2008	No	Yes	78	67	Normal	7.2	4	Poor
12/14/2008	No	No	50	44	Normal	6.9	9	Poor
4/17/2009	No	Yes	72	63	Normal	7.5	10	Poor

**Bolin Creek - Estes Drive Ext.**  **BolinCr-6-0036**

Orange

Margaret Fields

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/13/1996	No	No	72	58	Normal	7.1	14	Fair
6/29/1996	No	No	70	68	Normal	7.1	20	Good
7/13/2006	No	Yes	84	80	Normal	7.3	17	Good
12/30/2006	No	No	55	46	High	7	16	Fair
3/24/2007	No	No		60	Normal	7.4	19	Good
9/23/2007	No	Yes	84	75	Negligible	7	10	Poor

**Bolin Creek - Fair Oaks subdiv**  **BolinCr-6-0047**

Orange

Stream Study Group

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/25/2005	No	Yes	80	73	Normal	7.1	18	Good
9/18/2005	No	Yes	82	78	Negligible	6.9	8	Poor
1/28/2006	No	No	50	36	High	7	6	Poor
6/17/2006	No	Yes	74	73	Normal	7	22	Good
9/23/2006	No	Yes	77	67	Low	7.1	2	Poor
2/16/2011	No	Yes	50	48	Normal		22	Good

**Bolin Creek - Smith School, P3**  **BolinCr-6-0053**

Orange

Melinda Fitzgerald

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/4/2004	No	No	55		Normal		18	Good
12/13/2004	No	No	43	46	Normal	6.8	24	Excellent
3/10/2005	No	Yes	58	45	Normal	6.8	23	Excellent
10/5/2005	No	Yes		68	Low	6.7	28	Excellent
12/8/2005	No	No	53	44	Normal	6.7	23	Excellent
4/18/2006	No	No	62	59	Normal	7	19	Good
12/15/2006	No	No	41	43	Normal	6.2	22	Good
12/15/2007	No	No	52	46	Negligible	6.6	5	Poor
12/4/2008	No	No	54	43.5	Normal	6.6	16	Fair
3/25/2011	No	No		56	Normal		26	Excellent

**Bolin Creek - Smith School, P4**  **BolinCr-6-0054** *Orange* Melinda Fitzgerald

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/4/2004	No	No			Normal		16	Fair	
12/13/2004	No	Yes	65	50	Normal	6.6	15	Fair	
3/9/2005	No	No	55	58	High	6.8	19	Good	

**Bolin Creek - Smith School, P8**  **BolinCr-6-0055** *Orange* Melinda Fitzgerald

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/5/2004	No	No			Normal		15	Fair	
12/13/2004	No	Yes	61	50	Normal	6.8	29	Excellent	

**Bolin Creek - Smith School, P9**  **BolinCr-6-0056** *Orange* Melinda Fitzgerald

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/5/2004	No	No			Normal		16	Fair	
3/10/2005	No	Yes	54	50	Normal	6.8	17	Good	

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/18/1998	No	No	87	78	Normal	7.2	16	Fair	
9/26/1998	No	Yes	70	74	Low	7.4	13	Fair	
12/12/1998	No	No	50	48	Low	7.4	3	Poor	
3/22/1999	No	No	67	54	Normal	7.1	8	Poor	
6/21/1999	No	Yes	71	68	Low	7.2	12	Fair	
9/25/1999	No	Yes	80	68	Normal	7	11	Fair	
12/11/1999	No	Yes	49	46	Normal	7.3	7	Poor	
3/18/2000	No	No	54	54	Normal	7.2	7	Poor	
6/19/2000	No	No	80	78	Low	7.4	12	Fair	
9/24/2000	No	Yes	80	72	High	7.4	12	Fair	
12/15/2000	No	Yes		44	Normal	7.2	8	Poor	
3/25/2001	No	No	55	52	Normal	7.4	9	Poor	
6/24/2001	No	No	80	75	High	6.6	13	Fair	
9/30/2001	No	No	68	60	Low	7.4	11	Fair	
6/24/2002	No	No	93	82	Low	7.4	10	Poor	
9/22/2002	No	No	76	73	Low	7	11	Fair	
6/21/2003	No	No			Normal	7.2	14	Fair	0
10/9/2004	No	Yes	69	60	Low	7.4	16	Fair	
6/3/2005	No	No		65	Normal	7.1	16	Fair	
10/8/2005	No	Yes	76	72	Normal	7	10	Poor	
10/9/2005	No	Yes	66	69	Normal	7	19	Good	
12/27/2005	No	No	62	40	Normal	7	5	Poor	
4/14/2006	No	No	62	60	Low	7.2	1	Poor	
9/22/2006	No	Yes	72	65	Normal	7.4	8	Poor	
10/14/2006	No	No	64	54	Low	7.4	11	Fair	
1/28/2007	No	No	48	38	Normal	7.4	6	Poor	
10/3/2009	No	Yes	71	65	Low	7.1	10	Poor	
12/31/2009	No	Yes	45	42	High	6.9	3	Poor	
3/21/2010	No	Yes	70	60	Normal	7.4	4	Poor	
6/20/2010	No	Yes	88	72	Negligible	6.6	0	No benthic data	
7/16/2010	No	Yes	87	74	Normal	7.2	2	Poor	
8/24/2013	No	No	74	72	Normal	7.3	13	Fair	

**Booker Creek below Eastwood**     **BookerCr-6-0019**    *Orange*    James Sinott

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/29/1998	No	Yes	90	83	Low	6.9	14	Fair	
9/27/1998	No	Yes	88	72	Low	6.8	13	Fair	
12/19/1998	No	No	44		High	6.7	6	Poor	
4/2/1999	No	No	80	60	High	6.9	13	Fair	
6/19/1999	No	Yes	77	73	Normal	7.1	11	Fair	
10/4/1999	No	Yes	68	70	Normal	6.8	9	Poor	
12/19/1999	No	No	50	50	Normal	7.2	17	Good	
3/17/2000	No	No	46	58	Normal	7.1	16	Fair	
6/26/2000	No	Yes	83	81	Low	7.1	11	Fair	
10/1/2000	No	Yes	71	68	Low	7.1	15	Fair	
12/17/2000	No	No	40	46	High	7.3	8	Poor	
3/24/2001	No	No	68	58	Normal	7.3	13	Fair	
6/28/2001	No	No	80	85	Normal	7.1	15	Fair	
9/23/2001	No	No	78	72	Low	7.1	10	Poor	
1/20/2002	No	No	39	42	Normal	6.8	10	Poor	
3/23/2002	No	No	57	60	Normal	7.4	19	Good	
6/23/2002	No	No	88	74	Negligible	7.1	0	No benthic data	
9/29/2002	No	Yes	75	71	Low	7	10	Poor	
12/22/2002	No	No	59	49	High	7.1	4	Poor	
4/6/2003	No	No	70	65	Normal	7	16	Fair	
6/28/2003	No	Yes	74	76	Low	7.1	10	Poor	
9/21/2003	No	Yes	78	75	Normal	7.1	14	Fair	
6/20/2004	No	Yes		76	Low	7.2	8	Poor	
10/9/2004	No	No	69.5	66	Normal	7.1	14	Fair	
12/12/2004	No	No	48	52	High	7.1	11	Fair	
4/3/2005	No	No	67	60	Normal	7.2	13	Fair	
6/26/2005	No	Yes	76	74	Negligible	6.9	13	Fair	
10/9/2005	No	Yes	68	70	Low	6.8	12	Fair	
1/2/2006	No	No	48	46	Normal	6.9	7	Poor	

**Brooks Creek - Eddie Perry**     **BrooksCr-4-0014**    *Chatham*    Judy Peele

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/17/1995	No	Yes		65	Low	7	24	Excellent	

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/13/1995	No	No		52	Normal	6.7	23	Excellent	
3/18/1995	No	No	70	60	Normal	7.1	25	Excellent	
9/30/1995	Yes	No		65	Low	7	20	Good	
12/17/1995	No	No	52	46	Normal	6.8	21	Good	
3/23/1996	No	No	53	44	Normal	6.7	29	Excellent	
6/22/1996	No	No	68	70	Low	6.9	17	Good	
9/20/1996	No	No	65	60	Low	6.7	15	Fair	
3/21/1997	No	No	65	55	High	6.7	22	Good	
6/22/1997	No	Yes	84	71	Low	6.9	19	Good	
9/2/1997	No	No	80	74	Low	6.8	14	Fair	
12/19/1997	No	Yes	67	42	Normal	6.9	27	Excellent	
3/28/1998	No	No	70	59	Normal	6.8	19	Good	
6/20/1998	No	No	80	70	Low	6.9	28	Excellent	
9/26/1998	No	No	70	64	Negligible	6.9	12	Fair	
12/12/1998	No	No			Normal		0	No benthic data	
4/3/1999	No	No	65	59	High	6.6	18	Good	
6/25/1999	No	Yes	70	67	Low	6.9	15	Fair	
9/25/1999	No	No	81	64	Low	6.8	13	Fair	
12/11/1999	No	No	34	44	Normal	6.8	13	Fair	
4/1/2000	No	No	68	61	Normal	7	20	Good	
6/10/2000	No	Yes	73	67	Low	6.9	16	Fair	
9/30/2000	No	Yes	72	64	Low	6.9	14	Fair	
3/26/2001	No	No	50	52	High	6.7	22	Good	
6/24/2001	No	No	73	70	High	6.6	12	Fair	
9/22/2001	No	No	70	64	Low	6.8	16	Fair	
11/16/2001	No	No			Low	6.8	0	No benthic data	
12/22/2001	No	Yes	40	38	Low	7	17	Good	
3/23/2002	No	Yes	70	57	Normal	7.1	21	Good	
6/24/2002	No	No	84		Negligible		0	No benthic data	
9/22/2002	No	No	78	68	Negligible	6.8	8	Poor	
1/4/2003	No	No	34	42	Normal	6.7	22	Good	
3/22/2003	No	No	65	54	High	6.5	17	Good	
6/29/2003	No	Yes	80	74	Normal	6.9	21	Good	
9/20/2003	No	Yes	65	64	Normal	6.7	20	Good	
3/22/2004	No	Yes	62	60	Normal	6.8	19	Good	
6/20/2004	No	No	79	70	Low	7	18	Good	
9/19/2004	No	No	68	63	High	7	23	Excellent	
12/12/2004	No	No	50	50	High	6.6	16	Fair	
3/20/2005	No	Yes	68	52	High	6.8	30	Excellent	
7/3/2005	No	Yes	78	72	Negligible	7	16	Fair	
9/18/2005	No	Yes	82	73	Negligible	6.8	15	Fair	
12/17/2005	Yes	Yes	43	44	High	6.3	17	Good	
3/18/2006	No	Yes	62	58	Low	7.1	23	Excellent	
6/25/2006	No	Yes	78	72	Negligible	6.9	16	Fair	
9/30/2006	No	No	65	58	Normal	6.8	18	Good	

12/16/2006	No	Yes	62	46	Normal	6.8	21	Good		
3/25/2007	No	Yes	78	65	Normal	6.9	29	Excellent		
6/17/2007	No	Yes	75	68	Low	6.9	23	Excellent		
9/23/2007	No	No	88	78	Negligible	6.7	16	Fair		
1/12/2008	No	No	55	48	Low	6.5	18	Good		
3/21/2008	No	No	52	48	Normal	6.7	19	Good		
6/22/2008	No	Yes	76	68	Negligible	6.7	17	Good		
9/20/2008	No	Yes	62	62	Normal	6.7	19	Good		
12/20/2008	No	No	56	54	Normal	6.7	24	Excellent		
3/22/2009	No	No	55	48	High	6.5	23	Excellent		
6/20/2009	No	No	82	72	Low	6.8	20	Good		
12/12/2009	No	No	44	42	Normal	6.5	8	Poor		
3/21/2010	No	Yes	65	54	Normal	6.9	17	Good		
6/20/2010	No	Yes	80	73	Negligible	7.9	12	Fair		
9/26/2010	No	Yes	75	69	Negligible	6.9	18	Good		
3/19/2011	No	Yes	64	56	Low	6.5	22	Good		
6/19/2011	No	Yes	92	72	Low	6.9	14	Fair		
12/14/2011	No	Yes			Normal	6.7	24	Excellent	0.25	0.1
6/23/2012	No	Yes	75	70	Negligible	6.6	14	Fair		
9/22/2012	No	No	70	64	Normal	6.6	20	Good		
12/8/2012	No	No	60	53	Negligible	6.8	13	Fair		
3/23/2013	No	No	42	45	Normal	6.8	14	Fair		
6/29/2013	No	No	76	72	Normal	6.5	13	Fair		
9/29/2013	No	Yes	56	58	Normal	6.6	12	Fair		



<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/11/2000	No	No	78	72	Normal	7	12	Fair	
10/12/2000	No	No	51	48	High	7	11	Fair	
1/6/2001	No	No	44	36	Normal	6.8	3	Poor	
4/22/2001	No	Yes	76	59	Normal	6.9	10	Poor	
6/30/2001	No	Yes	84	74	Normal	7	11	Fair	
9/29/2001	No	Yes	68	65	Low	6.9	13	Fair	
12/16/2001	No	Yes	57	48	Low	6.9	9	Poor	
3/24/2002	No	Yes	62	54	Normal	6.9	10	Poor	
7/9/2002	No	Yes	87	75	Low	6.9	11	Fair	
9/29/2002	No	No	78	76	High	6.9	13	Fair	
12/15/2002	No	Yes	51	42	High	6.5	13	Fair	
3/23/2003	No	No	68	58	High	6.5	11	Fair	
6/30/2003	No	Yes	85	76	Normal	7	14	Fair	
9/20/2003	No	No	84	68	High	6.7	12	Fair	
12/31/2003	No	No	57	42	Normal	6.9	12	Fair	
3/21/2004	No	No	60	59	Normal	6.9	10	Poor	
6/20/2004	No	Yes	80	74	Normal	6.9	13	Fair	
9/19/2004	No	No	76	65	High	6.9	9	Poor	
12/30/2004	No	No	60	45	Low	6.8	10	Poor	
3/26/2005	No	Yes	52	47	Low	6.9	1	Poor	
6/26/2005	No	Yes	86	73	Low	7.3	5	Poor	
10/9/2005	No	Yes	68	69	Normal	6.9	11	Fair	
12/12/2005	No	Yes	51	44	High		9	Poor	
3/25/2006	No	Yes	52	50	Normal	7.3	11	Fair	
6/26/2006	No	Yes	73	73	Normal	6.9	13	Fair	
10/1/2006	No	No	66	62	Normal	6.9	6	Poor	
12/16/2006	No	Yes	68	52	Normal	6.9	12	Fair	
3/31/2007	No	Yes	68	52	Normal	7.3	6	Poor	
6/30/2007	No	Yes	84	76	Low	7.3	9	Poor	
9/23/2007	No	Yes	85	73	Normal	7.2	8	Poor	
12/17/2007	No	Yes	57	55	Low		7	Poor	
3/22/2008	No	No	68	60	Normal	7.1	6	Poor	
7/18/2008	No	Yes	85	75	Low	7.3	11	Fair	
10/1/2008	No	Yes	80	62	Low	6.9	4	Poor	
12/20/2008	No	Yes	54	53	Normal	6.9	12	Fair	
3/30/2009	No	No	58	54	High	7.1	13	Fair	
9/28/2009	No	Yes	58	65	High	6.6	15	Fair	
4/8/2010	No	Yes	58	62	Normal	6.9	6	Poor	

**Buck Branch** **BuckBr-4-0010**

Chatham

Betsy Kraus

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/24/2007	No	No	69	56	High	6.6	22 Good	0.09	0.09
7/7/2007	No	No	75	69	Low	6.7	21 Good	0.1	0.2
9/30/2007	No	No	61	60	Negligible	6.6	23 Excellent	0	0.1
12/15/2007	No	No	50	48	Low	6	26 Excellent	0	0
3/23/2008	No	No	60	55	Normal	6.4	26 Excellent		
6/29/2008	No	No	81	71	Negligible	6.8	25 Excellent		0.2

**Bush Creek N fork above WWTP**  **BushCrNf-5-0025**

Chatham

Cynthia Crossen

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/18/2011	No	No		72	Normal	7	0 No benthic data	0.1	0.15
7/28/2011	No	No			Negligible	7	6 Poor	0.24	0.15
9/17/2011	No	Yes	58	60	Normal	7.4	0 No benthic data	0.75	1
4/6/2013	No	No			Normal	6.9	7 Poor	3	0.8
9/22/2013	No	No	80	71	Normal	7.2	2 Poor		
12/9/2013	No	No	38	52	Normal	7.2	2 Poor	0	1

**Bush Creek N. fork above pond** **BushCrNf-5-0027**

Chatham

Cynthia Crossen

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/18/2011	No	No		72	Normal	7.1	0 No benthic data	1	0.15
7/28/2011	No	Yes		80	Normal	7.1	10 Poor	1.25	0.3

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/18/2004	No	No	87	69	Normal	7.6	24	Excellent	
6/19/2004	No	Yes	94	78	Normal	7.4	7	Poor	
9/25/2004	No	No	70	70	Normal	7.4	5	Poor	
12/18/2004	No	Yes	55	45	Normal	7.2	10	Poor	
3/22/2005	No	No	66	56	Normal	7.4	3	Poor	
6/18/2005	No	No	82	74	Normal	7.2	13	Fair	5
12/3/2005	No	No	44	46	Normal	7.4	9	Poor	4.75
3/18/2006	No	No	51	51	Normal	7.3	12	Fair	3.75
7/10/2006	No	Yes	79	76	Low	7.3	7	Poor	6
12/16/2006	No	No	59	52	High	7.3	6	Poor	2.5
3/31/2007	No	Yes	78	64	Normal	7.4	12	Fair	5
9/29/2007	No	Yes	78	68	Low	7.3	6	Poor	5
4/12/2008	No	No	75	66	High	7.4	7	Poor	5
6/23/2008	No	No	93	78	Low	7.5	12	Fair	5
1/5/2009	No	No	57	55	Normal	7.3	3	Poor	5
3/27/2009	No	No	72	56	Normal		23	Excellent	2.5
6/20/2009	No	No	78	76	Low	7.4	14	Fair	3
9/19/2009	No	No	76	70	Normal	7.4	12	Fair	3
9/20/2009	No	No	68	67	Normal	7.4	10	Poor	5
12/12/2009	No	No	40	44	Normal	7.2	6	Poor	0.75
3/20/2010	No	Yes	73	62	Normal	7.4	6	Poor	3
6/19/2010	No	No	76	74	Low	7.4	11	Fair	3
9/25/2010	No	Yes	88	74	Low	7.4	9	Poor	3
12/30/2010	No	No	49		Normal	7.4	3	Poor	3
3/26/2011	No	No	50	52	Normal	7.4	7	Poor	3
6/18/2011	No	Yes		72	Normal	7.3	18	Good	3
7/28/2011	No	Yes	86	77	Normal	7.5	23	Excellent	3
9/17/2011	No	Yes	59	59.5	Normal	7.4	12	Fair	3
4/7/2012	No	No	62	55	Normal	7.4	13	Fair	3

**Bush Creek south fork** **BushCrSf-5-0020**

Chatham

John Custer

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
5/13/2004	No	Yes	86	72	Normal	7.4	5	Poor	
10/23/2004	No	Yes	68	60	Normal	7.4	5	Poor	
12/18/2004	No	No	58	46	Normal	7.4	5	Poor	
3/22/2005	No	No	65	56	Normal	7.4	3	Poor	
6/18/2005	No	Yes	86	73	Normal	7.4	12	Fair	0.3
12/3/2005	No	No	54	46	Normal		6	Poor	0.3
3/18/2006	No	Yes	54	50	Normal	7.3	6	Poor	0.1
7/10/2006	No	Yes	89	76	Normal	7.5	3	Poor	0.2
12/16/2006	No	No	59	50	Normal	7.4	3	Poor	0.3
3/31/2007	No	Yes	78	66	Normal	7.5	9	Poor	0.2
9/29/2007	No	Yes	82	77	Negligible	6.9	0	No benthic data	0.1
4/12/2008	No	No	75	66	High	7.4	5	Poor	5
6/28/2008	No	Yes		80	Negligible	7	0	No benthic data	0.3
9/20/2008	No	Yes	68	66	Normal	7.4	2	Poor	0.4
1/5/2009	No	No	58	55	Normal	7.4	3	Poor	
3/27/2009	No	Yes	64	56	High	7.3	12	Fair	0.35
6/20/2009	No	Yes	82	72	Normal	7.3	6	Poor	0.13
9/19/2009	No	Yes	78	73	Normal	7.3	6	Poor	0.4
12/12/2009	No	No	42	42	Normal	7.4	0	No benthic data	0.3
3/20/2010	No	Yes	82	62	Normal	7.4	3	Poor	0.3
6/19/2010	No	Yes		72	Low	7.4	6	Poor	0.25
9/25/2010	No	No			Negligible		0	No benthic data	
12/30/2010	No	No	49	40	Normal	7.4	0	No benthic data	0.25
3/26/2011	No	No	52	50	Normal	7.2	0	No benthic data	0.35
6/18/2011	No	Yes	86	86	Normal	7.2	10	Poor	0.15
4/7/2012	No	Yes	56	52	Normal	7.4	6	Poor	0.03

**Cane Creek Alamance Co.** **CaneCrW-4-0122**

Alamance

Daniel Tolfree

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
5/29/2010	Yes	Yes	72	68	Normal	6.9	20	Good	
6/10/2010	No	Yes	90	78	Normal	6.8	19	Good	
9/19/2010	No	Yes	88	70	Low	6.9	13	Fair	
12/11/2010	Yes	No	42	37	Normal	6.9	7	Poor	
3/17/2011	No	No	80	56	Normal	6.9	23	Excellent	
6/19/2011	Yes	Yes	90	74	Normal	6.9	19	Good	
9/18/2011	Yes	Yes	68	62	Normal	6.8	14	Fair	
3/25/2012	Yes	Yes	70	60	High	6.9	19	Good	
6/24/2012	Yes	Yes	85	74	Normal	6.8	21	Good	
9/23/2012	Yes	Yes	64	62	High		10	Poor	
12/8/2012	Yes	Yes	72	52	Normal	6.9	6	Poor	
12/10/2012	Yes	No	57	42	Normal	6.9	8	Poor	
3/24/2013	Yes	Yes	56	48	High	6.8	2	Poor	
6/23/2013	No	Yes	84	70	Normal	6.9	17	Good	
9/21/2013	Yes	Yes	72	64	Normal	6.7	13	Fair	
12/6/2013	No	Yes	75	54	Normal	6.9	12	Fair	

**Cane Creek West - Lindley Mill**  **CaneCrW-4-0082** Alamance Roger Orstad

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/21/1998	No	No	86	74	Normal	6.5	17	Good	
9/27/1998	No	Yes	87	70	Low	6.8	17	Good	

**Cane Creek West - McBane Mill**  **CaneCrW-4-0032** Alamance Roger Orstad

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/21/1998	No	No	86	75	Normal	6.7	17	Good	
9/27/1998	No	No	75	70	Low	6.8	20	Good	
5/29/2010	No	No			Normal		0	No benthic data	

**Cane Creek West, S Fork**  **SoForkCa-4-0012** Alamance Mary Longhill

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/1/2000	No	No	73	57	Normal	7.6	24	Excellent	
6/18/2000	Yes	Yes	83	77	Normal	7	18	Good	
9/24/2000	Yes	Yes	90	70	Normal	7	18	Good	
1/2/2001	Yes	Yes	30	33	Low	7.1	16	Fair	
3/26/2001	Yes	Yes	58	59	Normal	7.1	23	Excellent	
7/7/2001	Yes	Yes	87	74	Low	7.1	25	Excellent	
12/31/2001	Yes	No	38	36	Low	7.2	8	Poor	
4/7/2002	Yes	Yes	66	53	Normal	7.6	24	Excellent	
9/16/2002	Yes	Yes	81	72	Negligible	6.7	10	Poor	
1/6/2003	No	No	46	42	Normal	7	13	Fair	
4/14/2003	No	Yes	70	62	High	6.9	16	Fair	
6/23/2003	No	Yes	88	72	Normal	7	15	Fair	
12/21/2003	No	No	40	38	Normal	7	15	Fair	
3/25/2004	Yes	Yes	68	55	Normal	7.5	27	Excellent	
6/29/2004	Yes	Yes	76	74	Normal	7.1	15	Fair	
10/3/2004	Yes	Yes	72	68	High	7.1	24	Excellent	
3/21/2005	No	Yes	59	54	High	7.4	15	Fair	
7/3/2005	Yes	Yes	88	76	Low	7.1	26	Excellent	
9/18/2005	No	No	85		Negligible		0	No benthic data	
4/11/2006	Yes	Yes	64	58	Low	7.3	16	Fair	
4/1/2008	Yes	Yes	60	59	High	7.2	17	Good	

**Carrboro Creek - Prince St.**  **CarbroCr-6-0006** Orange Echo Altham

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/24/2001	No	No	68	58	Normal	7.4	0	No benthic data	

**Chavis Branch** **ChavisBr-4-0003**

Alamance

Chris Carter

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/17/1995	No	Yes		62	Normal	7.1	34	Excellent	
9/24/1995	No	No		58	Low	7.1	19	Good	
12/16/1995	No	Yes	58	50	Normal	6.9	17	Good	
4/1/1996	No	No	55	54.5	High	6.7	24	Excellent	
6/22/1996	No	Yes	80	72	Normal	7	24	Excellent	
9/21/1996	No	Yes	78	64	Normal	7	21	Good	
12/14/1996	No	Yes	45	46	Normal	6.9	20	Good	
3/23/1997	No	Yes	66	52	Normal	7.1	23	Excellent	
2/12/2011	No	No	50	39	Normal	7.2	21	Good	

**College Branch** **CollegBr-1-0007**

Guilford

Calhoun Bond

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/7/2006	No	Yes	56	54	Low	8.2	6	Poor	0.6 0.2

**Collins Creek - Crawford Dairy** **CollinCr-4-0005**

Orange

Don Boyd

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/1994	No	Yes	44	46	Normal	6.9	23	Excellent	
6/18/1995	No	No		68	Low	6.8	13	Fair	
9/25/1995	Yes	No	65	61	Low	6.9	9	Poor	
12/17/1995	No	No	53	44	Normal	6.8	11	Fair	
9/20/1997	No	No	75	69	Low	7	26	Excellent	
12/13/1997	No	No	50	42	High	7	18	Good	

**Collins Creek - Falling Cedars** **CollinCr-4-0035**

Orange

Jean Bridges

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/28/1997	No	No	81	70.5	Normal	7	20	Good	
4/8/1999	No	No	87	68	Low	6.9	19	Good	

**Collins Creek - Hwy 54** **CollinCr-4-0059**

Orange

Lynn Bossong

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/9/2001	No	No	72	62	Low	7	25	Excellent	
12/16/2001	No	No			Normal		0	No benthic data	
3/27/2002	No	No		58	Normal		2	Poor	
6/21/2002	No	Yes	76	74	Normal	7.3	5	Poor	
9/29/2002	Yes	Yes	72	67	Negligible	7	3	Poor	
12/14/2002	No	No	52	45	High	6	0	No benthic data	
3/27/2003	No	No	75	60	High	6.1	3	Poor	0
6/21/2003	No	No	60	64	High	6	0	No benthic data	
9/21/2003	No	No	79	69	Normal	6.4	4	Poor	

**Crows Creek** **CrowsCr-4-0001**

Chatham

Ken Boggs

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/1994	Yes	Yes	40	48	Normal	7.01	10	Poor
3/24/1996	Yes	Yes	66	58	Normal	7	7	Poor
6/22/1996	No	Yes		75	Normal	7	5	Poor
9/21/1996	Yes	Yes		70	Normal	6.6	2	Poor
12/14/1996	No	No		49	High	6.9	6	Poor
3/22/1997	No	Yes	80	66	High	7	10	Poor
6/21/1997	No	Yes	76	78	Low	6.9	6	Poor
9/21/1997	No	No	74	69	Normal	6.8	4	Poor
12/13/1997	No	No	48	44	Normal	7	7	Poor
3/21/1998	No	No	56		High	7	0	No benthic data
6/20/1998	Yes	No	78	78	Normal	6.8	0	No benthic data
9/26/1998	No	No			Low		0	No benthic data

**Cub Creek - 15-501** **CubCreek-5-0093**

Chatham

School

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/6/2001	No	Yes	90	71	Low	7.1	15	Fair

**Cub Creek - Gov Club** **CubCreek-5-0022**

Chatham

Rich Goldberg

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/23/2000	No	Yes	76	69	Normal	7	14	Fair
12/31/2000	No	No	35	35	Normal	6.9	14	Fair
4/22/2001	Yes	No		63	Normal	6.9	12	Fair
9/30/2001	No	Yes	70	60	Normal		13	Fair
12/15/2001	No	Yes	65	55	Normal	7.4	14	Fair

**Dry Creek - 87 bridge** **DryCr-4-0051**

Chatham

Two Streams

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/13/2011	No	No			Normal		28	Excellent

**Dry Creek - Blue Heron** **DryCr-4-0038**

Chatham

Stephen Hawthorne

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
1/3/2003	No	No		49	Normal	6.9	0	No benthic data
8/30/2003	No	Yes	86	76	Normal	6.9	15	Fair 0.15 0.15

**Dry Creek - Cheek corner** **DryCr-4-0034**

Chatham

Cynthia Crossen

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/6/2004	No	Yes	70	67	Low	7	12	Fair 0.5 0.1

**Dry Creek - Old Graham bridge** **Dry3OldG-4-0026**

Chatham

Ray Bode

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/11/2010	Yes	No	38	38	Normal	6.7	21	Good
3/27/2011	Yes	Yes	40	46	Normal	7.2	8	Poor
3/26/2013	Yes	No	79	65	High	6.6	14	Fair
12/8/2013	Yes	Yes	43	42	Normal	6.8	10	Poor

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/10/1994	No	No	54.5	46	Normal	7.3	20	Good	
12/17/1994	Yes	Yes	45	46.5	Normal	7.2	18	Good	
3/18/1995	Yes	Yes	65	59	Normal	7.4	21	Good	
6/17/1995	Yes	Yes	80	67	Normal	6.9	28	Excellent	
9/24/1995	No	Yes	52	63	Low	7	23	Excellent	
12/16/1995	No	No	52	46	High	6.9	19	Good	
3/24/1996	No	Yes	62	50	Normal	7.2	24	Excellent	
6/22/1996	Yes	No	82	74	Low	7	26	Excellent	
9/21/1996	No	No	66	62	Normal	7	16	Fair	
12/14/1996	No	No		49	Normal	7	16	Fair	
3/23/1997	No	Yes	62	58	High	7.1	22	Good	
6/21/1997	Yes	Yes	80	73	Normal	7	30	Excellent	
10/21/1997	No	Yes	73	71	Negligible	6.7	17	Good	
12/13/1997	No	No	48	42	Normal	6.7	24	Excellent	
3/21/1998	No	No	56	51	High	6.5	0	No benthic data	
6/21/1998	No	Yes	79	72	Normal	7	22	Good	
9/26/1998	Yes	Yes	78	65	Negligible	7	13	Fair	
3/27/1999	No	No	66	57	Normal	7.4	20	Good	
6/19/1999	No	Yes	70	64	Low	7	24	Excellent	
9/26/1999	No	No	76	63	Normal	6.8	15	Fair	
12/11/1999	No	No	53	46	Normal	7	23	Excellent	
3/19/2000	No	No	54	51	Normal	7.2	19	Good	
6/17/2000	No	Yes	76	75	Low	7	18	Good	
9/24/2000	No	No	77	67	Normal	6.9	22	Good	
4/14/2001	No	No	84	67	Normal	7.4	24	Excellent	
9/22/2001	No	No	78	69	Negligible	7	22	Good	
12/16/2001	No	No	54	50	Low		19	Good	
3/24/2002	No	No	71	55	Normal	7	19	Good	
6/23/2002	No	No	84	81	Negligible	6.9	21	Good	
12/22/2002	No	Yes	59	49	High	6.9	18	Good	
3/23/2003	No	No	69	55	High	6.7	26	Excellent	
6/29/2003	No	Yes	84	71	Normal	7.2	17	Good	
9/20/2003	No	No	74	65	Normal	7	16	Fair	
1/4/2004	No	No	68	52	Normal	7.3	17	Good	
3/21/2004	No	No	59	53	Normal	7.1	23	Excellent	
7/11/2004	No	Yes	89	79	Negligible	7.2	23	Excellent	
9/12/2004	No	No	78	72	High	6.9	25	Excellent	
4/10/2005	No	No	70	61	Normal	6.8	19	Good	
6/26/2005	No	Yes	79	75	Normal	6.9	16	Fair	
9/25/2005	No	No	82	74	Low	6.4	8	Poor	
1/8/2006	Yes	No	55	41	High	6.7	8	Poor	
3/18/2006	Yes	No	62	54	Low	7	13	Fair	
6/18/2006	No	Yes	82	82	Low	6.9	16	Fair	
3/24/2007	No	No	84	66	Normal	7	19	Good	
8/17/2011	Yes	Yes		66	Normal	7	18	Good	



2/2/2012 No Yes 70 56 Normal 7 18 Good

**Frog Creek**  **FrogCr-4-0004** Chatham Casey Hayes

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
5/4/2006	No Yes	74	68	Normal	7.3	16 Fair		
6/29/2006	No No	75	70	Negligible	6.9	17 Good		
5/7/2007	No Yes	66	62	Normal	7.3	12 Fair		
6/23/2007	No Yes	70	70	Negligible	7	14 Fair		
12/16/2007	No No	50	50	Negligible	6.2	0 No benthic data		
3/23/2008	No No	69	59	Normal	6.9	8 Poor		
12/13/2008	No No	40	42	Normal	6.8	11 Fair		
3/22/2009	No No	52	49	High	6.9	17 Good		
9/18/2009	No No	75		Negligible		0 No benthic data		
9/18/2010	No No			Negligible		0 No benthic data		

**Glud Creek**  **GludCr-1-0007** Guilford Wayne & Debbie Green

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/12/2004	No No	49.5	52	Normal	6.7	1 Poor		
3/19/2005	No Yes	60	55	Normal	6.7	11 Fair		
6/15/2005	No Yes	75	70	Normal	7	5 Poor		
9/15/2005	No No	71	70	Low	7.2	3 Poor		
12/10/2005	No No	45	43	Normal		5 Poor		
3/12/2006	No No	77.7	70	Normal	7	8 Poor		
6/24/2006	No No	74.5	69	Normal	6.9	9 Poor		
9/26/2006	No Yes	63.9	64	Normal	6.9	9 Poor		
12/12/2006	No No	57	50	Normal	7.2	3 Poor		
3/22/2007	No No	73	64	Normal	6.9	8 Poor		
6/21/2007	No No	77	68	Low	7	4 Poor		
9/20/2007	No No	67	65	Low	7	5 Poor		
12/11/2007	No No	71	59	Negligible	6.9	5 Poor		
3/21/2008	No No	54	60	Low	7	6 Poor		
6/23/2008	No Yes	79	70	Low	6.9	7 Poor		
9/20/2008	No Yes	60	60	Low	7.2	7 Poor		
12/18/2008	No No	51	51	Normal	6.9	5 Poor		
4/20/2009	No No	53	55	Low	7	5 Poor		
6/20/2009	No No	75	72	Normal	6.9	5 Poor		

**GMS Land Creek**  **GMSLand-1-0000** Guilford Jenn Phillips

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
4/1/2009	No Yes	60	56	Normal	6.7	20 Good		
5/24/2011	No Yes	80	75	Normal	6	23 Excellent		
5/23/2012	No No	78	72	Normal	6	14 Fair		
3/7/2013	No No	50	49	Low	5	2 Poor		
4/23/2013	No No	74	67	Low	6	13 Fair	0	0

**Gum Creek - Burl airport**       **GumCr-3-0028**      Alamance      Wade Hoiland

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/20/1998	No	Yes	90	71	Normal	7.4	17	Good	
9/27/1998	No	Yes	94	75	Low	7.4	13	Fair	
12/19/1998	No	No	48	42	Normal	6.8	11	Fair	
4/3/1999	No	No	63	57	High	7.2	14	Fair	
6/27/1999	No	No	90		Low	7.3	13	Fair	
10/2/1999	No	No	75	66	High	7	19	Good	
7/3/2000	No	Yes	83	73.4	Low	7.2	9	Poor	
3/17/2001	No	Yes	55	55.4	Normal	7.4	17	Good	
6/23/2001	No	No	70	75	Normal	7.2	18	Good	
10/7/2001	No	No	62	61	Low	7.4	20	Good	

**Gum Creek - Truit Rd.**       **GumCr-3-0075**      Alamance      Matt Parker

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/6/1999	No	Yes	67	43	Low	7.4	11	Fair	

**Haw Creek - Mebane**       **HawCreek-2-0127**      Alamance      Martha Honus

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/20/1998	Yes	Yes	90	82	Low	7.3	25	Excellent	
9/27/1998	Yes	Yes	83	71	Low	7	10	Poor	
4/4/1999	Yes	Yes	82	65	High	7	13	Fair	

**Haw Creek - Sweeps/Haw**       **HawCr-2-0011**      Alamance      Karon Lashaw

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/29/1998	Yes	No	72	60	Normal	7	26	Excellent	

**Haw River - below 87 dam**       **Haw87Dam-2-0531**      Alamance      Martha Troxler

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/22/2006	No	Yes	72	70	Normal	6.8	6	Poor	
12/7/2006	No	Yes	64	48	Normal	7	14	Fair	

**Haw River - below Jordan Dam**       **BelowHaw-4-0001**      Chatham      Jamie Calkin

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/22/1996	No	Yes		68.9	High	6.5	3	Poor	
4/3/1997	No	Yes	64.4	59	Normal	7.5	10	Poor	

**Haw River - below SR 150**       **WilliHaw-1-0647**      Rockingham      Ray Bouchard

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/23/1996	Yes	Yes	54	46	High	6.8	5	Poor	
6/21/1996	Yes	Yes	90	73	Normal	6.8	4	Poor	

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
9/16/1995	No	No		76	Normal	7.4	11 Fair		
9/23/1995	No	Yes	60	72	Low	7.5	22 Good		
12/16/1995	Yes	No	48	45.5	Normal	6.9	21 Good		
3/24/1996	Yes	No		52	High	7.2	13 Fair		
6/22/1996	Yes	Yes	93		Low	7	21 Good		
9/21/1996	No	Yes	70	69	Normal	7.4	28 Excellent		
12/14/1996	No	Yes	63	49	High	7.4	18 Good	0.2	0.2
3/22/1997	No	No			High	7.2	19 Good	0.2	0.15
6/28/1997	No	Yes	78	79	Normal	7.4	32 Excellent	0.6	0.6
9/28/1997	No	No		68	Normal	7.6	18 Good		1
12/13/1997	No	No			Normal	7.4	14 Fair	0.8	0.6
3/22/1998	No	No			Normal	7.2	19 Good		
6/27/1998	No	Yes	94	73	Normal	7.5	24 Excellent	0.4	0.45
9/27/1998	No	Yes	77	71	Normal	7	30 Excellent	1.1	0.6
4/5/1999	No	Yes	94	71	Low	7.6	18 Good		1.4
10/1/2000	No	Yes	78	69	Normal	7.1	20 Good	0.3	0.3
3/24/2001	No	No	60	55	High	7.3	21 Good	0.3	0.6
6/24/2001	No	Yes	86	82	Normal	7.6	27 Excellent	0.3	0.6
9/23/2001	No	No	82	78	Normal	8.6	20 Good	1	1
11/15/2001	No	No			Low	8.6	0 No benthic data		
12/16/2001	No	No	60		Normal	7.7	22 Good	3.5	1.5
3/24/2002	No	Yes	73	55	Low	8.1	18 Good	0.6	0.4
6/23/2002	No	Yes	90	83	Low	7.4	22 Good	0.95	1.5
9/23/2002	No	Yes		81	Normal	8.1	21 Good	1	1
4/1/2003	No	No	72	68	Normal	6.9	13 Fair	0.4	0.5
10/30/2003	No	No		59	High	7.6	0 No benthic data	1	0.6
1/3/2004	No	No		45	Normal	7.4	15 Fair	0.8	0.4
3/21/2004	No	No	62	60	Normal	7.6	14 Fair	0.4	0.3
4/29/2004	Yes	Yes	70	68	Normal	7.8	18 Good		
6/24/2004	No	No	78	81	Normal	6	23 Excellent	0.4	0.6
1/3/2005	No	No	70		Normal	7.6	19 Good		0.2
9/14/2005	No	Yes	77	77	Low	7.9	14 Fair		
9/28/2005	No	Yes			Normal		16 Fair		
9/25/2006	No	No	77	79	Normal		18 Good		
9/26/2006	No	No		77	Normal	7.35	12 Fair		
9/27/2006	No	No			Normal		11 Fair		
9/29/2006	No	No			Normal	7.4	24 Excellent		
9/27/2007	No	No	87	85	Normal	7.8	9 Poor		
9/23/2008	No	No			Normal	7.2	19 Good		
9/24/2008	No	No	66	72	Normal	7.3	22 Good		
6/17/2009	No	No			High	7.2	0 No benthic data		0.25
9/9/2009	No	No			Normal	7.4	11 Fair		
11/9/2009	No	No			Normal	7.8	22 Good		
7/8/2010	No	Yes	80	82	Normal	8	16 Fair		
9/11/2010	No	No	72	70	Low	7.5	23 Excellent		

9/20/2010	No	Yes	82	76	Normal	7.4	22	Good		
9/22/2010	No	No			Low		15	Fair		
10/15/2010	No	Yes	50	59	Normal	7	25	Excellent	0.4	0.1
11/6/2010	No	No	45	53	Normal	7.1	25	Excellent		
12/15/2010	No	Yes	32	33	Normal	7.5	23	Excellent	0.5	0.1
3/17/2011	No	No			High	7	0	No benthic data	0	0.2
9/19/2011	No	Yes	67	70	Normal	7.3	25	Excellent		
9/20/2011	No	No			Normal	7.1	15	Fair		
9/22/2011	No	No			Normal	7	13	Fair		
10/16/2011	No	Yes			Normal	7.6	21	Good		0.25
12/13/2011	No	No	41	41	High	7	20	Good	0.4	0.1
3/28/2012	No	No		55	High	6.9	19	Good		
6/12/2012	No	No			Normal		24	Excellent		
7/21/2012	No	Yes	92	84	Normal	8.6	19	Good	0.25	0.1
9/25/2012	No	No			Normal		15	Fair		
9/26/2012	No	No			Normal	7	18	Good		
9/28/2012	No	No			Normal	7.2	27	Excellent		
10/3/2012	No	Yes	73	55	Normal	8.4	22	Good	0.4	0.15
9/23/2013	No	No			Normal	7.2	14	Fair		
9/24/2013	No	No			Normal	7.4	20	Good		
9/26/2013	No	No			Normal		28	Excellent		
9/27/2013	No	No			Normal		13	Fair		
11/19/2013	No	No			Normal		15	Fair		

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
5/10/2003	No	No			Normal	7.6	12	Fair	
5/8/2004	No	Yes	76	74	Normal	7.7	17	Good	
5/7/2005	No	No	70	62	Normal	7.6	21	Good	
6/20/2005	No	No	80		Normal	8.2	16	Fair	
9/17/2005	No	Yes	80	79	Normal	8.2	24	Excellent	1
11/16/2005	No	No	70		Low	8.6	24	Excellent	0.4
3/29/2006	No	No	54	54	Normal	7.6	14	Fair	0.3
5/13/2006	No	No	72	64	Normal	8	15	Fair	
9/9/2006	No	No	74		Normal	8.1	23	Excellent	
3/31/2007	No	No	66	62	Normal	7.7	25	Excellent	0.35
5/12/2007	No	No	69	71	Normal		20	Good	
6/29/2007	No	Yes	80		Normal	8.2	24	Excellent	1
9/8/2007	No	Yes	76	79	Low	8.7	15	Fair	0.01
12/29/2007	No	No	68	48	Normal	7.4	14	Fair	
3/28/2008	Yes	No	65	60	Normal	7.4	25	Excellent	0.25
3/29/2008	No	No	60	64	Low	7.7	16	Fair	
5/10/2008	No	No			Normal	7.2	22	Good	
6/20/2008	No	Yes		78	Normal	7.5	26	Excellent	0.25
8/30/2008	No	No		77	High	7.1	25	Excellent	
9/20/2008	No	Yes	65	67	Normal	7.4	23	Excellent	0.2
9/21/2008	No	Yes			Normal	7.2	16	Fair	
9/25/2008	No	No			Normal	7	15	Fair	
12/20/2008	No	No	53	50	Normal	7	15	Fair	0.5
3/21/2009	No	Yes	60	53	High	6.7	17	Good	0.1
12/22/2009	No	No	45	39	High	7	0	No benthic data	0.25
6/24/2010	No	Yes	95		Normal	8	14	Fair	0.25

**Haw River - Chicken Bridge** **HawChBr-4-0177**

Chatham

Gillian Corzine

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>		
6/20/2004	No	No		Normal	7.4	17	Good			
11/7/2004	No	Yes	76	62	Normal	7.4	14	Fair		
6/25/2005	Yes	Yes	85	88	Low	7.4	25	Excellent		
9/25/2005	Yes	Yes	76	83	Low	7.4	24	Excellent		
1/14/2006	No	No	55	46	Normal	7.4	8	Poor		
5/20/2006	Yes	Yes	81	74	Low	8	22	Good		
8/12/2006	No	Yes	85	85	Normal	7.4	22	Good		
9/23/2006	No	Yes	75	76	Normal	7.45	17	Good		
3/25/2007	Yes	Yes	80	67	Low	7.6	14	Fair		
7/4/2007	No	Yes	95	88	Normal	7.4	26	Excellent		
9/29/2007	No	Yes	80	76	Negligible	7.5	20	Good		
3/22/2008	No	Yes	68	60	High	7.4	13	Fair		
9/7/2009	No	Yes	74	73	Normal	7.5	19	Good	0.9	0.15
3/19/2010	Yes	Yes	56	70	Normal	7.5	10	Poor		
6/21/2010	No	Yes	90	91	Normal	7.4	14	Fair		
7/5/2010	Yes	Yes	90	75	Low	8	23	Excellent		
9/18/2010	Yes	Yes	83		Low	7.7	21	Good	1	
4/30/2011	Yes	Yes	80		Normal	7.5	24	Excellent	0.8	0.1
9/11/2012	No	Yes	88	87	Low	8	18	Good	1	0.2

**Haw River - Eversfield Rd.** **HawEvers-1-0917**

Guilford

Wayne &amp; Debbie Green

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>		
6/22/2003	No	No	76	70	Normal	6.5	7	Poor	0	0
9/20/2003	No	Yes	79	70	Normal	6.2	8	Poor	0	0
12/21/2003	No	No	42	37	Normal	6.6	1	Poor	0.1	0
3/21/2004	No	No	54.5	60	Normal	6.9	13	Fair	0	0.1
6/27/2004	No	No	69	70	Normal	6.7	11	Fair	0	0
9/25/2004	No	No	72	65	Low	6.6	7	Poor		

**Haw River - Goat Island** **GoatIHaw-2-0422**

Alamance

Ben Saunders

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/18/1995	No	No	70	59	Normal	7.4	15	Fair
6/17/1995	Yes	No		71	Normal	7.4	12	Fair
9/24/1995	No	No		67	Low	7.5	25	Excellent
12/17/1995	No	No	50	44	Normal	7.4	13	Fair
3/30/1996	Yes	No	55	51	High	7.4	14	Fair
6/22/1996	No	No	85	80	Low	7.4	17	Good
9/21/1996	No	No	72	68	Normal	7.1	17	Good
12/15/1996	No	No		48	High	7	13	Fair
3/22/1997	No	No	60	56	High	7	12	Fair
9/22/1997	No	Yes	58	68	Low	7.4	18	Good
3/21/1998	No	No	45	53	High	7	0	No benthic data
6/20/1998	Yes	No	85	76	Low	7.4	14	Fair
9/26/1998	No	Yes	68	72	Low	7.4	16	Fair
6/19/1999	Yes	Yes	75	70	Low	7.4	14	Fair
9/25/1999	Yes	No	65	63	Normal	7.4	9	Poor

**Haw River - Guilrock Camp** **HawGuilR-1-0732**

Guilford

HRLC

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/8/2007	No	No		76	Normal	7.2	0	No benthic data	
10/12/2007	No	No			Normal	7.1	0	No benthic data	
10/7/2008	No	Yes			Normal	7	20	Good	
10/9/2009	No	No			Normal		19	Good	
10/5/2010	No	No	55		High	6.7	17	Good	
10/6/2010	No	No	54	50	Normal	6.8	15	Fair	
10/7/2010	No	No			Normal	6.9	15	Fair	
10/8/2010	No	No			Normal	7	19	Good	
10/2/2011	Yes	No	60	62	Normal	6.9	23	Excellent	
10/4/2011	No	No			Normal		21	Good	
10/6/2011	No	No			Normal		14	Fair	
10/7/2011	No	No			Normal		14	Fair	
3/9/2012	No	No			Normal	6.8	18	Good	
3/22/2012	No	No	72	63	High	7	1	Poor	
10/9/2012	No	No			Normal	7	11	Fair	
10/12/2012	No	No			Normal		12	Fair	

**Haw River - Hwy 29 bridge** **HawHwy29-1-0692**

Rockingham

Robin Newnam

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/18/2001	Yes	No	60	51	Normal	6.8	18	Good	

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
9/24/1995	No	No		67	Normal	7.4	11	Fair	
12/17/1995	No	No	55	44	Normal	7.4	3	Poor	
6/23/1996	No	Yes	95		Normal	7.4	22	Good	
9/22/1996	No	No	72		Normal	7.5	12	Fair	
3/21/1997	No	No	70		High	7.1	0	No benthic data	
9/20/1997	No	Yes	80		Low	7.4	14	Fair	
12/14/1997	No	No	40	40	High	7.4	4	Poor	
3/21/1998	No	No	55	50	High	6.8	0	No benthic data	
6/20/1998	No	Yes	89	80	Normal	7.4	13	Fair	
12/13/1998	No	No	55	52	Normal	7.5	15	Fair	
3/20/1999	Yes	No	60	45	Normal	7.4	9	Poor	
12/11/1999	No	No			Normal	7.4	10	Poor	
3/19/2000	No	No	55	46	High	7.2	18	Good	0.2
6/18/2000	No	Yes	84	85	Normal		14	Fair	
5/2/2001	No	Yes	76	70	Normal	7.4	21	Good	
9/13/2003	Yes	Yes	71	69	Normal	7.6	17	Good	1
8/4/2004	No	No	84	85	Normal	7.2	11	Fair	0.35
9/18/2004	No	No	75	74	High	7.4	7	Poor	
12/18/2004	No	No	44	40	High	7.2	5	Poor	0.6
3/20/2005	Yes	No	68	50	High	7.2	0	No benthic data	
6/17/2005	No	Yes	87	80	Low	8	7	Poor	0.8
9/16/2005	No	Yes	89	84	Low	8	10	Poor	0.1
12/23/2005	No	Yes	42	38	Normal	7.2	11	Fair	0.2
3/18/2006	No	Yes	55	55	Low	8	13	Fair	1
6/23/2006	No	Yes	94	89	Low	7.5	15	Fair	0.2
9/23/2006	No	Yes	80	74	Normal	7.6	10	Poor	0.2
12/17/2006	No	No	56	44	High	7.5	7	Poor	
3/23/2007	No	No	85		High	7.6	6	Poor	0.5
6/17/2007	No	Yes			Normal	7.5	8	Poor	0.45
9/21/2007	No	No			Normal	7.8	0	No benthic data	0.3
12/17/2007	No	No	42		Normal	7.6	0	No benthic data	
3/22/2008	No	No	71		Normal	7.6	7	Poor	0.4
6/21/2008	No	No			Low	7.4	11	Fair	0.1
9/20/2008	No	Yes	78		Normal	7.6	3	Poor	0.9
11/2/2008	No	No	62		Normal	8	17	Good	1
12/15/2008	No	No	64	52	High	7	9	Poor	0.7
12/24/2008	No	No			High	7.1	0	No benthic data	0.8
3/23/2009	No	Yes	62	58	High	7.2	15	Fair	0.8
9/20/2009	No	Yes	69	76	Low	7.4	11	Fair	1
3/24/2010	No	Yes	74	64	High	7.4	11	Fair	0.8
9/21/2010	Yes	Yes	80	78	Low	8	16	Fair	0.7



**Haw River - Lea & Donovan's**  **HawL&D-2-0263** Alamance HRLC

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/2/2006	No	Yes	36	7.4	Normal		17	Good	
10/3/2006	No	Yes			Normal	7.4	14	Fair	
10/4/2006	No	Yes	73	76	Normal	7.4	10	Poor	
10/1/2007	No	No			Low	7.5	19	Good	
10/2/2007	No	No			Normal	7.7	14	Fair	
10/3/2007	No	No			Low		24	Excellent	
10/5/2007	No	No			Low		15	Fair	
9/30/2008	No	No			Normal	7.2	11	Fair	
10/2/2008	No	No			Normal		0	No benthic data	
10/3/2008	No	No			Normal		0	No benthic data	
9/27/2009	No	No			Normal	7.4	0	No benthic data	
9/29/2009	No	No			Normal	7.3	0	No benthic data	
9/30/2009	No	No			Normal	7.4	17	Good	
10/1/2009	No	No			Normal		18	Good	
9/26/2011	No	No			Normal	7	0	No benthic data	
10/3/2012	No	No			Normal	7	12	Fair	
10/5/2012	No	No			Normal	7.2	5	Poor	
9/30/2013	No	Yes			Normal	7.2	15	Fair	
10/1/2013	No	No			Normal	7.2	14	Fair	

**Haw River - Lexie Wolf**  **HawLWAN-4-0088** Chatham Austin Nykamp

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/19/2013	No	Yes	76		Normal	7.5	10	Poor	
12/7/2013	No	Yes	48	55	Normal	6.9	12	Fair	

**Haw River - Oak Ridge**  **OakRiHaw-1-0954** Rockingham Paul Holcomb

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/17/1995	Yes	Yes			Negligible	6	5	Poor	

**Haw River - Old Greensbor Hwy**  **HawOlGrn-4-0201** Chatham Margo Bennett

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/24/2001	No	Yes	85	79	Normal	7.4	17	Good	
12/16/2001	Yes	Yes	48	50	Low	7.2	16	Fair	
6/26/2002	No	Yes	85	82	Low	7.4	15	Fair	
7/28/2007	No	Yes	83	83	Normal	7.5	11	Fair	1 0.3
10/7/2007	Yes	Yes	88		Negligible	7.5	15	Fair	1.3 0.6
7/16/2008	Yes	Yes	74	80	High	7.5	17	Good	1 0.9

**Haw River - Pace's Mill** **HawPaces-4-0135**

Chatham

Lil Royal

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>		
11/16/2002	Yes	No	62	55	High	7	12	Fair	0	0.15
3/22/2003	No	No	63	50	High	6.7	1	Poor		0.3
6/1/2003	No	No	85	76	Normal	7.5	6	Poor	0.9	0.2
9/27/2003	No	Yes	72	70	Normal	7.1	11	Fair	0.15	0.2
12/13/2003	No	No	42	42	High	7.4	5	Poor	0.2	0.1
3/20/2004	No	No	51	51	Normal	7.5	13	Fair	0.6	0.5
6/18/2004	Yes	Yes	68	76	Normal	7.4	4	Poor	0.9	0.3
6/20/2004	No	Yes	76	80	High	7.45	20	Good	1	0.35
12/18/2004	No	No	43	38	Normal	6.9	0	No benthic data	1	1
3/20/2005	Yes	No		50	High	7.4	2	Poor	0.3	0.1
12/10/2005	Yes	Yes	36	40	High	6.9	2	Poor	0.8	0.1
6/24/2006	Yes	No	75	82	High	7.3	1	Poor	0.5	0.4
9/23/2006	Yes	Yes	87	74	Normal	7.4	4	Poor	0.2	0.2
12/16/2006	Yes	Yes	45		Normal	7.5	5	Poor	1	0.1
3/25/2007	Yes	Yes	80	73	Normal	7.5	4	Poor	0.1	0
6/23/2007	Yes	Yes	84	86	Normal	7.5	25	Excellent	0.6	0.15
9/22/2007	Yes	No	90	80	Negligible	7.6	12	Fair	4	0.35
12/15/2007	Yes	No	44		Low	7.6	0	No benthic data	2.25	0
3/25/2008	Yes	Yes	62	58	Normal	7.6	3	Poor	0.1	
6/20/2008	No	Yes	87	82	Low	7.6	15	Fair	2.5	4
9/20/2008	No	No	60	68	High	7.4	8	Poor	0.8	0.5
12/14/2008	No	Yes	51	46	High	7	15	Fair	0.35	0
3/29/2009	No	No	68	56	High	6.5	0	No benthic data	2.5	0.1
6/20/2009	No	Yes	84	78	High	6.5	3	Poor	0.1	2
9/19/2009	No	No	71	75	Normal	7.5	3	Poor	1	0.2
6/26/2010	Yes	Yes	84	82	Low	8	10	Poor	0.1	0.2
9/25/2010	Yes	Yes	82	78	Low	8.1	14	Fair	1	0.2
12/18/2010	Yes	No	38	34	Normal	7.2	0	No benthic data		
3/26/2011	No	No	50	52	Normal	7.1	0	No benthic data	0.1	0
6/18/2011	Yes	Yes	80	80	Normal	7.5	13	Fair	1	4.5
9/17/2011	Yes	Yes	60	65	Low	7	2	Poor	0.8	0.15
12/17/2011	No	No	48	47	Normal	8	6	Poor	0.7	0.15
3/30/2012	No	No	76	70	High	7.1	6	Poor	0.35	0.2
6/30/2012	No	Yes	70	76	Normal	7.25	9	Poor	0.5	0.1
9/22/2012	Yes	Yes	72	70	Normal	7.1	4	Poor	0.1	0.15
12/15/2012	No	Yes	44	42	Low	7.5	9	Poor	1.25	0.05
3/23/2013	Yes	No	56	46	Normal	7.25	8	Poor	1	0
6/30/2013	No	Yes	82		High	7.5	0	No benthic data		
9/21/2013	No	No	72	74	Low	7.2	8	Poor		0.2
12/21/2013	No	No	56	48	Normal	7.4	6	Poor	0.8	

**Haw River - Redbud** **RedbdHaw-4-0000**

Chatham

Maja Kricker

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>		
12/11/2010	No	No	35	35	Normal	7.4	16	Fair		
3/19/2011	No	Yes	73	62	Normal	7.4	22	Good		

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/18/1995	No	No	65	60	High	7.4	11	Fair	
6/17/1995	Yes	Yes		76	Normal	7.4	22	Good	
9/23/1995	No	Yes	52	68	Normal	7.5	20	Good	
12/16/1995	Yes	Yes	53	45	High	7.1	8	Poor	
3/23/1996	No	No	48	46	Normal	7.1	9	Poor	
6/22/1996	No	No	88	85	Low	7.4	16	Fair	
9/21/1996	No	No	75	70	Normal	7.4	16	Fair	0.9 0.3
12/14/1996	No	No	53		High	7.3	0	No benthic data	1 0.35
3/22/1997	No	No	73	57	High	7	0	No benthic data	0.6 0.2
6/21/1997	No	Yes	80	82	Normal	7.4	21	Good	0.3
9/21/1997	No	Yes	75	75	Low	7.4	19	Good	1
12/13/1997	Yes	No	49	44	Normal	7.4	20	Good	0.8 0.2
3/20/1998	No	No	53	50	High	6.6	0	No benthic data	0.9 0.95
6/21/1998	No	Yes	84	80	Normal	7.4	16	Fair	0.8 0.6
9/26/1998	No	Yes	82	76	Low	7.4	18	Good	0.4
12/12/1998	No	No	53	54	Low	7.4	17	Good	2 0.9
3/20/1999	No	No	57	55	Normal	7.1	0	No benthic data	0.3 0.4
6/20/1999	No	Yes	70	74	Low	7.4	19	Good	1 1
9/26/1999	No	No	76	63	Normal	7.3	15	Fair	1 0.6
12/11/1999	No	No	59	50	Normal	7.4	14	Fair	0.25 1
3/19/2000	No	No	59	55	High		0	No benthic data	0.3 0.1
6/17/2000	No	Yes	78	82	Normal	7.4	17	Good	1 0.6
9/24/2000	No	No	81	70	Normal	7.1	0	No benthic data	0.3 0.3
1/14/2001	No	No	45	43	Normal	7.4	0	No benthic data	1 0.1
4/1/2001	No	No			High	6.8	0	No benthic data	0.3 0.2
6/24/2001	No	No	83	82	Normal	7.4	24	Excellent	
9/30/2001	No	Yes	64	67	Low	8.6	23	Excellent	0.8 0.6
12/16/2001	No	Yes	62	56	Low		21	Good	
3/16/2002	No	No	79	59	Normal	7.3	4	Poor	0.8 0.2
7/1/2002	No	Yes	94	87.5	Normal	8.6	11	Fair	0.25 1.5
9/20/2002	No	Yes	81	76	Low	7.7	15	Fair	1.5 0.9
1/3/2003	No	No	42	46	High	6.8	0	No benthic data	0.3 0.1
3/15/2003	No	No	44	52	Normal	7.1	0	No benthic data	0.8 0

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/17/1994	No	Yes		46	Normal	7.4	17	Good	
3/18/1995	No	No	67	58	Normal	7.5	31	Excellent	
6/17/1995	Yes	Yes	82	75	Normal	7.2	15	Fair	
9/23/1995	No	No		71	Normal	7.4	22	Good	
12/16/1995	No	No	53	46	Normal	7.2	20	Good	
3/23/1996	No	No	53	46	High	7	14	Fair	
9/21/1996	Yes	Yes	70	66	Low	7.4	26	Excellent	
12/14/1996	No	No	55	51	High	7.1	0	No benthic data	0.5
12/13/1997	No	No	43	46	Normal	7.4	16	Fair	1.5
3/21/1998	No	No	53	71	Normal	7.4	16	Fair	
6/21/1998	No	No	86	75	Normal	7.4	19	Good	
9/27/1998	No	No		80	Low	7.5	16	Fair	
12/12/1998	Yes	No	50	50	Low	6.8	9	Poor	
3/20/1999	No	No		56	Normal	7.5	21	Good	
6/23/1999	No	No		80	Normal	7.8	10	Poor	
9/26/1999	No	No	75	74	Normal		16	Fair	
12/13/1999	No	No			Normal		19	Good	
3/26/2000	No	No	70	61	High		10	Poor	
6/25/2000	No	No	90	87	Normal	7.4	16	Fair	
9/28/2000	No	No	62	64	High	7.2	0	No benthic data	
12/30/2000	No	No	36	36	Normal	7.8	9	Poor	
4/20/2001	No	No	63	68	Normal	7	17	Good	
7/9/2001	No	Yes	92	84	Normal	7.8	12	Fair	
9/30/2001	No	No	68	70	Low	7.4	15	Fair	0.4
10/1/2001	No	No	69	68	Low	8.6	8	Poor	
12/11/2001	No	No	51	53	Normal	8.6	10	Poor	
4/4/2002	No	No	57	67	Normal	8.5	11	Fair	
7/8/2006	No	No	78	77	High	7.2	10	Poor	0.25
11/4/2006	No	No	52	54	Normal	7.7	18	Good	0.01
7/14/2007	No	Yes	81	78	Low	8.6	14	Fair	
7/12/2008	No	No			Normal	8.1	14	Fair	
7/31/2008	No	No			Normal		16	Fair	
6/27/2009	No	Yes	88	88	Normal	8.7	14	Fair	
5/1/2010	No	No			Normal	8.25	29	Excellent	
6/30/2010	No	No	75	80	Normal	8	16	Fair	
10/23/2010	No	Yes			Normal	8.7	24	Excellent	0.75
12/17/2010	No	No	54.5	43	Normal	8	17	Good	0.6
3/18/2011	No	No	54	56	High	7	16	Fair	0.25
5/7/2011	No	No			High	7.3	18	Good	
6/18/2011	No	Yes	93	88	Low	8	22	Good	1.5
7/21/2011	No	Yes			Normal		23	Excellent	0.35
7/23/2011	No	Yes	88	97	Normal	10.3	23	Excellent	
9/15/2011	No	No		78.8	Low	7.5	27	Excellent	
4/10/2012	No	Yes	53	66	Low	7.2	21	Good	1.2
5/5/2012	No	Yes	79	78	Normal	8	19	Good	0.57

6/19/2012	No	No	94	85	Normal	8.1	21	Good		
6/26/2012	No	Yes	80	88.5	Normal	8.5	25	Excellent		
7/11/2012	No	No			Normal		25	Excellent		
7/28/2012	No	Yes		88	Normal	8.5	26	Excellent		
9/26/2012	No	Yes	70	72	Normal	7.2	19	Good	0.1	0.35
10/2/2012	No	No			Normal	7.1	0	No benthic data		
12/8/2012	No	Yes	62	55	Low	7.2	21	Good	0.6	0.6
3/24/2013	No	Yes	57	56	High	7.5	16	Fair	0.4	0.32
5/4/2013	No	Yes	64	66	Normal	7.4	20	Good		
9/20/2013	No	Yes	68	70	Low	7.5	17	Good		
12/6/2013	No	Yes	68	50	Low	7.2	21	Good		

**Haw River - Suggs**

**HawSuggs-1-0796**

Rockingham Amy & Brad Suggs

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*Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate*

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6/29/2003	Yes	No	82	70	Normal	7	12	Fair	0.1	0
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**Haw River - Summit**

**SumitHaw-1-0773**

Rockingham Cynthia Crossen

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*Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate*

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12/17/1994	No	No	56	48	Normal	7	13	Fair		
3/19/1995	No	Yes		56	Normal	6.8	14	Fair		
3/23/1996	Yes	Yes	62	58	Normal	6	19	Good		
3/5/2002	Yes	Yes	47	38	Normal	6.9	27	Excellent		
3/9/2005	Yes	No	53	48	Normal	7	21	Good	0	0
10/7/2007	No	Yes	96	78	Normal	7	19	Good		
4/6/2010	No	No			Low	6.8	15	Fair		
8/19/2010	No	No	75	73	Normal	6.8	24	Excellent		
5/26/2011	No	No			Normal		23	Excellent		

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/17/1995	No	No		59	Normal	6.8	16	Fair	
9/20/1995	No	Yes		62	Normal	7.8	15	Fair	
12/15/1995	No	No	63	55	High	7.7	14	Fair	
12/15/1996	No	No	63.5	55.4	High	7.7	14	Fair	
5/9/1997	No	No	78.8	64.4	Normal	7.5	19	Good	1.76
9/19/1997	No	Yes	79		Low	7.8	15	Fair	
12/10/1997	No	No	52	44	Normal	7.3	10	Poor	
9/12/1998	No	No	15	17	Low	8	11	Fair	
9/30/1998	No	Yes	29	25	Normal	8	15	Fair	0.6
12/9/1998	No	No	84	77	Low	8	11	Fair	4.4
12/30/1998	No	Yes	88	77	Normal	7.2	9	Poor	
3/18/1999	No	No	75	18.5	Normal	7	26	Excellent	
11/17/1999	No	Yes	52	54	Normal	7.9	15	Fair	
3/28/2000	No	No	61	59	High	7.5	14	Fair	
6/21/2000	No	No	70	66	Normal	7	16	Fair	
10/4/2000	No	No	82.4	71.6	Normal	8	27	Excellent	
1/17/2001	No	No	48.2	42.8	Normal	7.5	18	Good	
4/27/2001	No	Yes	71	66	Normal	7.8	19	Good	
10/3/2001	No	Yes	77	68	Low	8.4	19	Good	
11/17/2001	No	No			Low	8.6	0	No benthic data	
3/20/2002	No	No	66	57	Normal	7	23	Excellent	
6/21/2002	No	Yes	84	79	Normal	8.5	21	Good	
9/25/2002	No	Yes	77	72	Low	7.8	18	Good	
4/2/2003	No	No	68	57	High	7.6	9	Poor	
10/1/2003	No	No	75	65	Normal	7.4	11	Fair	
3/24/2004	No	No	70	52	Normal	8.4	11	Fair	
1/12/2005	No	Yes			Normal	8	17	Good	
4/27/2005	No	No	77	64.5	Normal	8	14	Fair	
2/22/2006	No	No	57	50	Normal	8.6	19	Good	
6/25/2006	No	No	80	80	Normal	7	8	Poor	
12/17/2006	No	No	70	51	Normal	7.5	11	Fair	
6/23/2007	No	Yes	79	79	Low	7.6	15	Fair	
9/21/2007	No	Yes	72	69	Low	7.5	12	Fair	
3/15/2008	No	No	65	51	Normal	7.4	13	Fair	
6/21/2008	No	Yes	84	76	Low	7.8	18	Good	
9/20/2008	No	No	68	67	Normal	7.3	12	Fair	
12/18/2008	No	No	54	47	Normal	7.1	11	Fair	
3/23/2009	No	No	70	54	Normal	7.1	6	Poor	
9/28/2009	No	No	85	68	Normal	7.1	12	Fair	
3/20/2010	No	Yes	78	57	Normal	7.6	18	Good	
6/21/2010	No	Yes	84	81	Normal	7.3	12	Fair	
9/25/2010	No	Yes	91	76	Low	7.8	14	Fair	
6/11/2011	No	Yes	78	82	Normal	7.4	15	Fair	
9/26/2011	No	No	76	70	Normal	7	15	Fair	
12/24/2011	No	No	64	49	High	6.9	10	Poor	

4/1/2012	No	No	76	64	Normal	7.2	15	Fair
6/23/2012	No	Yes	86	78	Normal	7.6	14	Fair
3/23/2013	No	No	57	44	Normal	7.3	14	Fair
6/29/2013	No	No	75	74	Normal	7.1	14	Fair
9/21/2013	No	Yes	75	67	Low	7.6	21	Good
12/19/2013	No	No	56	39	Normal	7.1	12	Fair

**Haw River wetlands at HRSP**     **SumitWet-1-0773**    *Guilford*    Cynthia Crossen

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**Survey Date**   **BeaverFish**   **Air Temp**   **Water Temp**   **Flow**   **pH**   **Water Quality Index, Rating**   **Nitrate**   **Phosphate**

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5/26/2011	No	No			Normal		30	Excellent
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**Haywood Stream**     **HaywdStr-5-0003**    *Chatham*    Diana Haywood

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**Survey Date**   **BeaverFish**   **Air Temp**   **Water Temp**   **Flow**   **pH**   **Water Quality Index, Rating**   **Nitrate**   **Phosphate**

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3/22/1998	No	No		54	High	7	17	Good
6/23/1998	No	Yes	88		Low	7.4	15	Fair
3/27/1999	No	No	65		Normal	7.4	17	Good
9/26/1999	No	Yes	82	72	Normal	7.4	17	Good
12/12/1999	No	No	50	45	Normal	7.4	9	Poor
3/26/2000	No	No	75	68	High	7.5	15	Fair
6/26/2000	No	Yes			Normal	7.6	14	Fair
1/7/2001	No	No	41	36	Low	7.4	18	Good

**Herndon Creek**     **Herndon-5-0008**    *Chatham*    Allison Weakley

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**Survey Date**   **BeaverFish**   **Air Temp**   **Water Temp**   **Flow**   **pH**   **Water Quality Index, Rating**   **Nitrate**   **Phosphate**

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11/7/2004	No	Yes	70	60	Normal	7	25	Excellent
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**Hill Creek - CCCC**     **HillCr-4-0005**    *Chatham*    Cynthia Crossen

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**Survey Date**   **BeaverFish**   **Air Temp**   **Water Temp**   **Flow**   **pH**   **Water Quality Index, Rating**   **Nitrate**   **Phosphate**

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9/11/2004	No	Yes	75	70	Normal	6.8	18	Good		
5/28/2005	No	Yes	76	80	Low	7.1	13	Fair		
7/22/2008	No	No	71	71	Normal	7	0	No benthic data		
4/7/2009	No	No	50	53	Normal	7	25	Excellent	0.1	0.1
3/16/2010	No	No	52	48	Normal	6.8	28	Excellent	0.009	0.009
4/7/2010	No	No			Normal	7	25	Excellent	0.1	0.1
4/19/2011	No	No			Normal	7.3	27	Excellent		0.09

**Horsepen Creek - Ballenger Rd.**  **Horsepen-2-0074** Guilford Richard Kreager

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/4/2000	No	No	65	60	Normal	7	8	Poor	
7/25/2008	No	Yes	71	70	Normal	7.2	5	Poor	
12/13/2008	No	No	46	44	High	7.2	0	No benthic data	
4/22/2009	No	No	57	55	Normal	7.4	0	No benthic data	
7/2/2009	No	No	71	69	Normal	7.4	3	Poor	
10/5/2009	No	No	57	59	High	7.6	9	Poor	
12/14/2009	No	No	51	43	Normal	7.3	6	Poor	
3/19/2010	No	No	50	46	Normal	7.2	4	Poor	
6/2/2010	No	No	74	68	Low	7.4	7	Poor	
9/20/2010	No	No	78	67	Low	7.3	10	Poor	
12/11/2010	No	No	44	37	Normal	7.3	10	Poor	
4/2/2011	No	No	57	47	Normal	7.4	8	Poor	
6/23/2011	No	No	73	72	Normal	7	9	Poor	
1/10/2012	No	No	56	52	Low	7.4	3	Poor	
6/27/2012	No	No	75	68	Low	7.2	6	Poor	
9/24/2012	No	No	63	60	Low	7.2	9	Poor	
3/28/2013	No	No	55	49	High	7.4	0	No benthic data	

**Horsepen Creek - Chimney Rock**  **Horsepen-2-0103** Guilford Kevin Meehan

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/24/2000	No	No	73	67	Low	7	0	No benthic data	

**Horsepen Creek - Flemming St.**  **Horsepen-2-0054** Guilford Susan Burkholder

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/4/2000	No	No	64	61	High	7.1	3	Poor	
4/10/2012	No	No	66	56	Normal	7.5	11	Fair	
9/23/2013	No	No	65	64	Low	7.2	1	Poor	

**Horsepen Creek - Friendly Blvd**  **Horsepen-2-0091** Guilford Susan Burkholder

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/4/2000	No	No	69	59	Normal	7.2	9	Poor	

**Horsepen Creek - Old Oak Ridge**  **Horsepen-2-0067** Guilford Kevin Meehan

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/4/2000	No	No	64	60	Normal	7.1	7	Poor	

**Horsepen Creek - Radar St.**  **Horsepen-2-0086** Guilford Kevin Meehan

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/4/2000	No	No	66	61	Normal	7	4	Poor	



**Horsetail Creek** **HtailCr-4-0005***Orange*

Wanda Sunderman

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/22/1999	No	Yes	68	62	Low	7.2	17	Good	
9/21/1999	No	Yes	76	65	Normal	7	15	Fair	
12/19/1999	No	No	48	46	Normal	7.1	10	Poor	
3/18/2000	No	No	55	46	High		18	Good	
6/15/2000	No	Yes	85	75	Low	7.4	15	Fair	
9/25/2000	No	No	74	60	Low	7.2	6	Poor	
12/23/2000	No	No	32	33	Normal		8	Poor	
3/29/2001	No	Yes	52	47	Normal	7.2	12	Fair	
4/6/2001	No	No	76	60	High	7.2	18	Good	
7/6/2001	No	Yes	75	70	Normal	7.2	8	Poor	
9/26/2001	No	Yes	66	57	Low	7.2	9	Poor	
9/23/2002	No	No			Negligible		0	No benthic data	
4/2/2003	No	No	78	60	High	7.2	6	Poor	
10/8/2003	No	Yes	63	60	Normal	7.2	8	Poor	
3/22/2004	No	No	45	55	Normal	7.2	15	Fair	

**Kozel Stream** **KozelStr-5-0003***Chatham*

Mark Kozel

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/22/1998	No	No	54	57	High	6.7	19	Good	
4/10/1998	No	No			Negligible		0	No benthic data	
3/20/1999	No	No	62	55	Normal	6.9	29	Excellent	
6/29/1999	No	No	84		Normal		0	No benthic data	
10/9/1999	No	Yes	75	44	Normal	6.7	19	Good	
12/18/1999	No	Yes	45	50	Normal	6.8	19	Good	
5/7/2000	No	Yes	89	68	Normal	6.8	21	Good	
10/8/2000	No	Yes	54	55	Low	7	17	Good	
3/24/2002	No	Yes	70	65	Normal	6.8	18	Good	
9/22/2002	No	No	86		Normal	7.1	11	Fair	
4/6/2003	No	No	75	70	Normal	7.1	11	Fair	
3/21/2004	No	Yes	60	56	Normal	7	20	Good	
6/27/2004	No	Yes	76	73	Normal	7.4	19	Good	
12/22/2004	No	Yes	65	46	Normal	7.2	15	Fair	
4/3/2005	No	Yes	70	61	Normal	6.9	18	Good	
12/27/2005	No	Yes	53	48	Normal	7.2	18	Good	
3/18/2007	No	Yes	48	55	Normal	6.8	14	Fair	
6/27/2009	No	Yes	89	78	Normal	7.2	13	Fair	
3/21/2010	No	No	75	60	Normal	7.2	5	Poor	
12/27/2011	No	No	61	52	Normal	6.9	18	Good	

**Little Alamance - Burl City Pk**  **LitAlaCr-3-0093** Alamance Matt Dannenberg

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/22/1997	No	No	85	78	Normal	6.9	22	Good
9/2/1997	No	Yes	90	75	Normal	7	20	Good
12/14/1997	Yes	Yes	400	45	Normal	6.8	7	Poor
3/21/1998	No	No	62	54	High	6.8	2	Poor
6/20/1998	No	Yes	82	80	Normal	7.4	16	Fair
9/28/1998	Yes	Yes			Negligible	7	4	Poor
12/19/1998	Yes	No	49	44	Normal	6.9	9	Poor
3/20/1999	Yes	Yes	64	57	Normal	7.2	10	Poor
6/22/1999	No	Yes	73	68	Normal	7.4	23	Excellent
12/26/1999	Yes	Yes	54	38	Normal	7	4	Poor
3/26/2000	Yes	Yes	72	67	Normal	7	20	Good
6/20/2000	Yes	Yes	74	74	High	6.5	13	Fair
4/21/2001	No	Yes	81	74	Normal	7.3	11	Fair
6/20/2001	No	Yes	86	80	Low	7.4	18	Good
6/18/2002	No	Yes	74	74	Negligible	6.8	14	Fair
3/13/2010	No	No	63	57	Normal	6.8	11	Fair
7/5/2010	No	Yes	92	74	Low	7.1	5	Poor
1/23/2011	No	No	45		Normal	7.2	10	Poor
4/10/2011	No	No	65	59	High	6.8	22	Good

**Little Alamance - Mt. Hope**  **LitAlama-3-0040** Guilford Rob Fulkerson

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/30/1995	No	No	72	59	Normal	7.5	8	Poor
12/16/1995	No	No	58	44.6	High	7	14	Fair
3/23/1996	No	Yes	60	44.6	Normal	8	19	Good
9/29/1996	No	Yes	64	63.5	High	7	21	Good
1/11/1997	No	No		46	High	7.3	12	Fair
3/15/1997	No	No	42	50	High	7	22	Good
6/28/1997	No	Yes	78	68	Low	7.1	14	Fair
6/24/1998	Yes	Yes	95	78	Normal	7	14	Fair
12/19/1998	No	No	51	5	High	5.8	17	Good
3/20/1999	No	Yes	60	12	Normal	7.5	17	Good
9/25/1999	No	Yes	72	63	High	7	12	Fair
12/18/1999	No	No	49	40	High	7	19	Good
3/25/2000	No	No	60		Normal	7	19	Good
6/18/2000	No	No	81	21	Low	7	19	Good
3/25/2001	No	No	58	60	High	7	15	Fair
6/24/2001	No	No	68	66	Normal	7	10	Poor
12/16/2001	No	No	59	62	Low	7	8	Poor
3/29/2002	No	No	52	55	Normal	7.8	16	Fair
6/30/2002	No	Yes	85	68	Low	7	17	Good
9/21/2002	No	Yes	76	68	Low	7	16	Fair
3/22/2003	No	No	62		High	7.2	12	Fair

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
9/21/2003	No	Yes	80	75	Normal	7.1	15	Fair	
12/28/2003	No	No	59	46	Normal	7.6	12	Fair	
4/3/2004	No	No	65	62	Normal	7.6	12	Fair	
6/19/2004	No	Yes	88	82	Normal	7.2	17	Good	
9/20/2004	No	Yes	67	65	Normal	7.1	19	Good	
3/20/2005	No	No	66	53	Normal	7.2	8	Poor	
6/18/2005	No	Yes	85	72	Normal	7.4	11	Fair	
9/16/2005	No	No	86	76	Low	7.2	9	Poor	
12/18/2005	No	No	48	46	Normal	7.1	8	Poor	
3/25/2006	No	No	52	50	Normal	7.4	9	Poor	
6/25/2006	No	No	84	78	Low	7	13	Fair	
9/24/2006	No	Yes	83	75	Low	7	20	Good	
12/16/2006	No	No	67	50	Normal	7.5	11	Fair	
3/31/2007	No	No	70	60	Normal	7.3	12	Fair	
6/23/2007	No	Yes	75	69	Low	7.1	20	Good	
9/21/2007	No	Yes	72	65	Negligible	7	7	Poor	
3/15/2008	No	No	61	55	Normal	7.1	7	Poor	
6/21/2008	No	Yes	83	68	Negligible	7.3	15	Fair	
9/20/2008	No	Yes	70		Normal	7	16	Fair	
12/18/2008	No	No	55	48	Normal	7	12	Fair	
3/23/2009	No	No	69	54	High	7.4	10	Poor	
6/22/2009	No	Yes	86	72	Normal	7	11	Fair	
9/19/2009	No	No	76	68	Normal	6.9	14	Fair	
3/20/2010	No	No	73	56	Normal	7.6	10	Poor	
6/21/2010	No	Yes	82	72	Negligible	7	11	Fair	
9/25/2010	No	No		90	Normal		0	No benthic data	
10/17/2010	No	Yes	73	66	Low	6.9	12	Fair	
3/29/2011	No	Yes	49	44	Normal	7.1	11	Fair	
6/11/2011	No	Yes	84	74	Normal	7	14	Fair	
9/25/2011	No	No	78	68	Normal	6.8	6	Poor	
1/1/2012	No	No	64	42	Normal	7.2	11	Fair	
4/12/2012	No	No	64	52	Normal	7.4	8	Poor	
6/23/2012	No	No	83	71	Normal	7.1	14	Fair	
10/6/2012	No	No	78	61	Low	7.1	10	Poor	
3/23/2013	No	No	54	45	Normal		10	Poor	
6/29/2013	No	Yes	78	71	High	6.8	8	Poor	
9/21/2013	No	Yes	76	64	Normal	6.9	13	Fair	
12/19/2013	No	No	53	37	Normal	7.1	9	Poor	

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/12/1995	No	Yes		66	Normal	7.5	15	Fair	
3/19/1995	No	No		60	Normal	7.5	4	Poor	
6/17/1995	No	No	83	86	Low	7.5	7	Poor	
12/23/1995	No	Yes	20	41	Normal	7.2	2	Poor	
3/23/1996	No	No	66	58	Normal	7.4	4	Poor	
6/26/1996	No	No	80	92	Low	7.4	7	Poor	
9/29/1996	No	No	68	71	Normal	7	8	Poor	
12/22/1996	No	No	40	42	Low	7.3	8	Poor	
3/22/1997	No	No	54	66	Normal	7.4	6	Poor	
6/30/1997	No	No	72	80	Normal	7.4	8	Poor	
9/29/1997	No	Yes	74	73	Normal	7.4	1	Poor	
12/21/1997	No	No	55	48	Low	7.4	6	Poor	
3/21/1998	No	No	50	50	Normal	7	10	Poor	
6/24/1998	No	No	90	89	Low	7	10	Poor	
9/29/1998	No	Yes	76	75	Negligible	7.6	6	Poor	
12/20/1998	No	Yes	65	56	Normal	7.4	9	Poor	
4/5/1999	No	No	65	70	Normal	7.4	9	Poor	
6/19/1999	Yes	No	78	80	Normal	7.4	8	Poor	
9/26/1999	No	Yes	82	76	Low	7.6	3	Poor	
12/20/1999	No	No	50	48	Normal	7.2	7	Poor	
3/22/2000	No	No	55	52	High	7	8	Poor	
6/15/2000	No	Yes	89	67	Low	7.4	4	Poor	
12/12/2000	No	No	36	40	Normal	6.8	6	Poor	
4/2/2001	No	No	59	64	Normal	7.4	1	Poor	
6/25/2001	No	No	85	82	Low	7	3	Poor	
9/17/2001	No	No	78	73	Low	7.4	3	Poor	
12/18/2001	No	No			Negligible		0	No benthic data	
3/25/2002	No	No	66	60	Normal	7.2	6	Poor	
9/22/2002	No	Yes	80	78	Negligible		7	Poor	
12/16/2002	No	No	56	48	High	6.8	4	Poor	
6/22/2003	No	No	81	76	Normal	7.2	2	Poor	
9/24/2003	No	No	76		Normal	7.2	9	Poor	
12/15/2003	No	No	50	44	High	6.9	13	Fair	
3/22/2004	No	No	49	54	Normal	7.4	6	Poor	
6/21/2004	No	No	73	69	Normal	7	4	Poor	
9/20/2004	No	No	56	62	Normal	7	2	Poor	
12/12/2004	No	No	50	48	Normal	7	10	Poor	
3/20/2005	No	No	68	60	Normal	7.4	4	Poor	
6/21/2005	No	No	80	72	Negligible	7	2	Poor	
12/14/2005	No	No	39	38	Low	7	3	Poor	
3/21/2006	No	No	45	47	Low	7.1	1	Poor	
6/23/2006	No	No	77	73	Low	7	9	Poor	
9/22/2006	No	Yes	57	59	Low	7	5	Poor	
1/2/2007	No	No	53	49	Normal	7.2	3	Poor	
3/24/2007	No	No	73	68	Low	7.5	1	Poor	

10/1/2007	No	Yes	76	64	Normal	7.4	0	No benthic data
12/17/2007	No	No	40	42	Low	6.6	0	No benthic data
3/25/2008	No	No	55	57	Low	7.1	5	Poor

**Little Creek**

**LittleCr-4-0008**

*Chatham*

Michael McCormick

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/19/2006	Yes	No			Negligible	7.2	8	Poor	
6/27/2006	No	No			Normal	6.8	5	Poor	
9/25/2006	No	No			Negligible		0	No benthic data	
3/22/2007	No	Yes			Normal	7	8	Poor	
6/23/2007	No	No			Normal		0	No benthic data	
12/18/2007	No	No			Negligible		0	No benthic data	
6/22/2008	No	No			Negligible		0	No benthic data	
9/20/2008	Yes	No			Normal		8	Poor	
12/13/2008	No	No			Normal		8	Poor	
12/18/2008	No	No			Low		0	No benthic data	
6/22/2009	No	No			Normal		0	No benthic data	
3/21/2010	No	No			Normal		14	Fair	
4/24/2011	No	No			Normal		18	Good	

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/16/2000	No	No	45	44	Normal	7.1	0	No benthic data	
3/31/2001	No	No	65	57	High	7	0	No benthic data	
6/30/2001	No	No	87	72	Low	7.2	0	No benthic data	
9/22/2001	No	No	74	69	Normal	7.1	0	No benthic data	
12/15/2001	No	No	59	56	Normal	7.4	0	No benthic data	
3/23/2002	No	No	55	52	Normal	7.4	0	No benthic data	
6/29/2002	No	No			Normal	6.9	0	No benthic data	
12/5/2002	No	No	50	46	High	6.9	0	No benthic data	
3/29/2003	No	No	72	68	Normal	7	0	No benthic data	
6/22/2003	No	No	73	68	High	7.2	0	No benthic data	
9/28/2003	No	No	70	68	Normal	7.2	0	No benthic data	
12/20/2003	No	No	44	45	High	7	0	No benthic data	
3/27/2004	No	No	64	66	Normal	7.2	0	No benthic data	
6/20/2004	No	No	74	73	High	7	0	No benthic data	
3/20/2005	No	No		53	Normal	7.1	0	No benthic data	
6/19/2005	No	No		72	Normal	7.4	0	No benthic data	
3/19/2006	No	No			Normal		0	No benthic data	
4/30/2006	No	No	67	62	Normal	7.2	0	No benthic data	
6/25/2006	No	No		75	Normal	7.2	0	No benthic data	
10/1/2006	No	No	69	64	Low	7.4	0	No benthic data	
12/16/2006	No	No	52	50	Normal	7.2	0	No benthic data	
3/25/2007	No	No	71	60	High	7.2	0	No benthic data	
7/1/2007	No	No	76	74	Low	7.4	0	No benthic data	
9/27/2007	No	No	72	72	Negligible	7.4	0	No benthic data	
12/31/2007	No	No			Normal	6.9	0	No benthic data	
6/20/2010	No	No	84	76	Normal	7	0	No benthic data	
9/18/2010	No	No	80	75	Negligible	7.2	0	No benthic data	
6/11/2011	No	No	85	75	Normal	7.4	0	No benthic data	
3/24/2012	No	No			Normal	7.2	0	No benthic data	
6/24/2012	No	No			Normal	7.2	0	No benthic data	
9/23/2012	No	No	69	69	Normal	7.4	0	No benthic data	

**Little Creek - Hwy 64** **LittleCr-4-0004**

Chatham

Ralph Davis

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/20/2000	No	No	90	76	Normal	7	8	Poor
9/22/2000	No	No			Normal		0	No benthic data
3/25/2001	No	No	62	52	Normal	7	6	Poor
3/24/2002	No	No	77	56	Low	7.4	11	Fair
4/18/2010	No	Yes	64	60	Normal	7.3	18	Good
6/19/2010	No	No	78	72	Low	6.8	12	Fair
9/16/2010	No	Yes	88	79	Normal	6.8	5	Poor
12/12/2010	No	No	46	45	Normal	6.8	0	No benthic data
3/20/2011	No	No	76	55	Normal	7	14	Fair
6/18/2011	No	Yes	84	74	Normal	7	10	Poor
9/25/2011	No	Yes	80	72	Normal	6.8	23	Excellent
12/18/2011	No	No	63	41	Normal	7	3	Poor
6/30/2012	No	Yes	82	75	Low	6.8	9	Poor
3/17/2013	No	No	62	46	Normal	7	16	Fair
9/21/2013	No	Yes			Negligible	7	17	Good

**Little Troublesome above WWTP**  **LitTrubl-1-0059**

Rockingham

Don Waddell

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/4/1995	No	No		45	Normal	6.9	12	Fair
3/18/1995	No	No	65	57	Normal	7.4	18	Good
6/17/1995	No	Yes	82	68	Normal	7.8	19	Good
9/24/1995	Yes	Yes	55	56	Normal	7.2	20	Good
12/17/1995	No	Yes	45	44.5	Normal	7.47	27	Excellent
3/23/1996	Yes	Yes	45	42	Normal	7.1	16	Fair
3/22/1997	No	No	67	57	Normal	7.8	14	Fair
6/21/1997	No	No	88	68	Low	7.4	14	Fair

**Little Troublesome below WWTP**  **LitTrubl-1-0009**

Rockingham

David Fulton

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/18/1995	No	No	74	57	Normal	6.9	20	Good
6/17/1995	No	No	77	70	Normal	7.3	18	Good

**Little Troublesome Creek** **LitTrubl-1-0034**

Rockingham

Trent Frazier

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/22/1997	Yes	No	67	60	Normal	6.9	8	Poor
6/21/1997	Yes	Yes	88	68	Low	7.2	12	Fair

**Long Branch** **LongBr-4-0001**

Chatham

Tom MacLean

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/1999	No	No	48	44	Normal	6.7	0	No benthic data
4/12/2013	No	No	70	65	Normal	6.6	13	Fair
7/19/2013	No	No	82	74	Normal	6.8	4	Poor

**Mary's Creek** **MarysCr-4-0054**

Alamance

Mike Holland

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/16/1995	Yes	Yes	45	49	Normal	6.7	18	Good
12/14/1996	No	No	44	48	Normal	6.8	24	Excellent
6/21/1997	No	No	83	73	Normal	6.6	21	Good
6/27/1998	Yes	Yes	100		Low	7	17	Good
1/7/2001	No	No	40	40	Low	7.5	15	Fair
4/1/2001	No	No	82	70	Normal	6.9	21	Good

**Mary's Creek - Whitney Rd.** **MarysCr-4-0009**

Alamance

HRLC

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/1/2008	No	Yes			Normal		27	Excellent
10/2/2008	No	No			Normal		20	Good
10/3/2008	No	No			Normal		24	Excellent
6/8/2009	No	Yes	73		Normal	6.8	26	Excellent
9/29/2009	No	No			Normal		28	Excellent
9/29/2010	No	No			Normal		18	Good
9/27/2011	No	No			Low		32	Excellent
9/28/2011	No	No			Normal		21	Good

**Meadow Branch** **MeadowBr-4-0007**

Chatham

Brad Kosiba

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
8/1/2000	No	No	80	64	Normal	7	17	Good
10/1/2000	No	Yes	70	62	Normal	7	18	Good
12/29/2000	No	No	40	34	Normal	7.1	13	Fair
3/24/2001	No	No	67	56	Normal		18	Good
6/24/2001	No	Yes	68	68	Normal	6.8	24	Excellent
9/30/2001	No	No	64	56	Low	7.2	27	Excellent
12/29/2001	No	Yes	61	41	Low	7.1	20	Good
4/2/2002	No	Yes	64	62	Normal	6.9	25	Excellent
6/20/2002	No	Yes	85	72	Low	7.4	27	Excellent
9/28/2002	No	Yes	81	68	Low	6.8	17	Good
12/30/2002	No	No	50	38	Normal	6.8	20	Good
3/15/2003	No	Yes	46	44	Normal	6.8	25	Excellent
6/22/2003	No	Yes	65	62	Normal	6.7	24	Excellent
12/13/2003	Yes	No	32	34	Normal	6.9	23	Excellent
3/20/2004	Yes	No	53	39	Normal	6.7	23	Excellent
6/28/2004	No	Yes	80	66	Normal	6.9	21	Good
1/1/2005	Yes	Yes	65	39	Normal	7	15	Fair
3/31/2005	Yes	Yes	67	57	High	6.9	20	Good
9/11/2005	No	Yes	76	70	Low	7.1	15	Fair
9/22/2013	Yes	Yes	75	67	Normal	7	23	Excellent

**Meadow Creek** **MedCreek-2-0001**

Alamance

Kevin Meehan

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/26/2001	Yes	Yes	78	68	Normal	7.4	16	Fair



Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/8/1995	Yes	No		47.5	High	6.6	18	Good	
3/18/1995	Yes	Yes	70	53	Low	6.7	19	Good	
6/17/1995	Yes	Yes		65	Low	6.8	18	Good	
9/24/1995	Yes	Yes		58	Normal	7	11	Fair	
12/24/1995	Yes	No	29	33	Normal	6.7	17	Good	
3/23/1996	No	No	54	50	Normal	6.8	11	Fair	
6/22/1996	Yes	No		75	Normal	6.9	11	Fair	
9/22/1996	No	No	72	66	Normal	6.9	3	Poor	
1/4/1997	Yes	No		52	Normal	6.7	27	Excellent	
3/23/1997	Yes	No	58	59	High	6.8	9	Poor	
6/21/1997	Yes	No	88	72	Normal	6.8	13	Fair	
9/21/1997	Yes	Yes	70	68	Normal	7	16	Fair	
12/21/1997	Yes	No	41	40	Normal	6.7	21	Good	
3/23/1998	Yes	No	50	50	High	6.7	7	Poor	
6/21/1998	Yes	Yes	78	70	Low	6.9	10	Poor	
10/4/1998	Yes	Yes	62	64	Low	6.8	10	Poor	
12/19/1998	Yes	No		45	Normal	6.7	14	Fair	
3/23/1999	Yes	Yes	50	50	High	6.7	12	Fair	
6/27/1999	No	No	85	76	Normal	6.9	13	Fair	
10/30/1999	No	No	70	64	Normal	6.7	11	Fair	
12/18/1999	Yes	Yes	69	42	Normal	6.7	16	Fair	
3/19/2000	No	Yes	43	50	Normal	6.8	20	Good	
6/17/2000	Yes	No	82	77	Normal	6.9	14	Fair	
9/23/2000	No	No	69	66	Normal	6.7	14	Fair	
12/25/2000	Yes	Yes	35	34	Normal	6.9	17	Good	
3/25/2001	Yes	No	60	56	Normal	6.8	14	Fair	
6/24/2001	Yes	Yes	78	73	Normal	6.9	17	Good	
9/23/2001	Yes	Yes	80	69	Low	7	20	Good	
12/16/2001	Yes	No	65	50	Normal	6.8	8	Poor	
3/20/2002	Yes	Yes	70	62	Normal	7.4	15	Fair	
7/7/2002	Yes	Yes	82	71	Low	7	12	Fair	
10/1/2002	Yes	No	79	71	Normal	6.9	17	Good	
12/22/2002	Yes	No	65	47	Normal	6.5	12	Fair	
4/13/2003	No	No	72	60	Normal	6.7	12	Fair	0
6/30/2003	Yes	Yes		74	Normal	6.9	10	Poor	
9/21/2003	Yes	Yes	80	69	Normal	6.8	13	Fair	
12/24/2003	Yes	No	54	47	Normal	6.7	20	Good	
3/21/2004	Yes	No	61	59	Normal	7	18	Good	
7/5/2004	Yes	No	95	78	Normal	7	15	Fair	
9/19/2004	Yes	No	72	66	High	6.6	15	Fair	
12/10/2004	Yes	Yes	66	50	High	6.2	9	Poor	
3/20/2005	Yes	No	65	57	Normal	6.7	26	Excellent	
6/28/2005	Yes	Yes	72	72	Normal	6.9	16	Fair	
9/10/2005	Yes	Yes	82	70	Normal	7	19	Good	
12/11/2005	Yes	Yes	48		Normal	6.7	17	Good	

3/19/2006	No	No	58	55	Normal	7.1	10	Poor
6/24/2006	Yes	Yes	85	74	High	6.8	21	Good
9/24/2006	Yes	Yes	84	72	Normal	7	15	Fair
12/17/2006	Yes	Yes	62	50	Normal	6.8	22	Good
3/22/2007	Yes	Yes	72	64	Normal	6.7	19	Good
3/24/2007	Yes	Yes	80	67	Normal	7	18	Good
6/23/2007	Yes	Yes	85	72	Low	7	21	Good
9/19/2007	Yes	Yes	75	62	Low	6.9	15	Fair
12/16/2007	Yes	Yes	38	48	Normal	6.6	21	Good
6/27/2008	Yes	Yes	80	73	Low	7	20	Good
10/5/2008	Yes	Yes	70	63	Normal	6.7	19	Good
12/13/2008	Yes	Yes	50	42	Normal	6.2	22	Good
3/21/2009	Yes	Yes	60	55	Normal	6.7	27	Excellent
6/21/2009	Yes	Yes	85	74	Normal	6.9	20	Good
9/27/2009	Yes	Yes	75	67	Normal	6.4	18	Good
12/13/2009	Yes	Yes	39	41	Normal	6.2	15	Fair
3/14/2010	Yes	Yes	65	57	Normal	6.6	17	Good
6/27/2010	Yes	Yes	95	81	Low	7	18	Good
9/19/2010	Yes	Yes	85	74	Normal	7	17	Good
12/18/2010	Yes	Yes	48	43	Normal	6.7	18	Good
3/20/2011	Yes	Yes	60	57	Normal	6.8	25	Excellent
7/6/2011	Yes	Yes	80	75	Low	7	15	Fair
10/16/2011	Yes	Yes	70	63	Normal	6.7	16	Fair
12/11/2011	Yes	Yes	50	45	Normal	6.7	13	Fair
3/25/2012	No	No	70	62	High	6.2	21	Good
7/7/2012	Yes	Yes	92	78	Low	6.7	18	Good
9/30/2012	No	No	75	64	Normal	6.7	21	Good
3/30/2013	Yes	Yes	65	56	Normal	6.8	21	Good
6/30/2013	Yes	Yes	80	74	High	6.8	19	Good
12/16/2013	No	No	48	47	High	6.7	20	Good

**Mears Fork - Lake Brandt Rd**     **MearsFor-1-0046**    *Guilford*    Bonnie Fields

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/22/2003	No	No	84	69	High	6.8	5	Poor
9/19/2003	No	No	74	68	High	6.5	3	Poor

**Mears Fork - Strawberry Rd.**     **MearsFor-1-0055**    *Guilford*    Moni Bates

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/17/1999	No	No		High	6.8	23		Excellent

**Meeting of the Waters**     **MeetoWat-6-0007**    *Orange*    Shelly Kitchens

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/22/2006	No	No	78	72	Low	7.7	5	Poor
6/26/2006	No	No	76	72	Normal	7.7	5	Poor
6/21/2007	No	No			Low	7.4	11	Fair
7/17/2008	No	Yes		7.7	Normal		10	Poor
7/7/2009	No	Yes	78	70	Normal	7.4	13	Fair

**Michaels Branch** **MichBra-3-0018**

Guilford

Carolyn Rhode

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
5/19/2012	No	No	64	59	Normal	7	17	Good	
6/16/2012	No	No	76	68	Low	7.3	12	Fair	
9/23/2012	No	Yes	72	66	Normal	7.3	15	Fair	
12/15/2012	No	No	55	48	Low	7.2	20	Good	
3/23/2013	No	No	45	44	Normal	7.3	21	Good	
7/7/2013	No	Yes	88	77	Normal	6.9	24	Excellent	
10/13/2013	No	Yes			Normal	7.3	17	Good	
12/15/2013	No	Yes	43	46	Normal	6.9	13	Fair	

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/17/1994	No	Yes	56	49	Normal	7	13	Fair	
3/18/1995	No	No		58	Normal	7	17	Good	
6/24/1995	No	Yes		68	High	7	14	Fair	
9/24/1995	No	Yes		56	Normal	7	14	Fair	
9/1/2001	No	No	76	72	Normal	6.8	23	Excellent	
9/27/2001	No	No	67	61	Normal	7.1	14	Fair	
1/27/2002	No	No	66	48	Normal	6.6	10	Poor	
3/24/2002	No	No	75	58	Normal	7.2	17	Good	
6/23/2002	No	Yes	92	74	Negligible	7	2	Poor	
9/28/2002	No	No	73	70	Low	7	11	Fair	
12/15/2002	No	No	52	46	High	6.4	6	Poor	
3/23/2003	No	No	72	58	Normal	6.5	16	Fair	
5/24/2003	No	No	65	61	Normal	6.8	23	Excellent	
6/23/2003	No	Yes	75	67	Normal	6.7	18	Good	
10/4/2003	No	Yes	70		Normal	7	15	Fair	
12/20/2003	No	No	38	42	Normal	6.9	19	Good	
3/14/2004	No	No	62	54	Normal	6.8	16	Fair	
6/22/2004	Yes	Yes	80	73	Low	7.1	19	Good	
9/19/2004	No	No	70	66	Normal	6.8	16	Fair	
12/12/2004	Yes	No		50	Normal	6.8	17	Good	
3/20/2005	Yes	No	70	56	Normal	6.7	23	Excellent	
7/1/2005	Yes	No	90	76	Low	7.1	13	Fair	
9/18/2005	No	Yes	85	74	Negligible	7.1	7	Poor	
12/11/2005	No	No	50	45	Normal	6.6	14	Fair	
3/19/2006	No	No	57	54	Normal	7	12	Fair	
7/7/2006	No	Yes	78		Low	7	11	Fair	
10/7/2006	No	No	60	62	Normal	6.8	12	Fair	
12/23/2006	No	No	67	53	Normal	6.7	17	Good	
4/9/2007	No	No	46	46	Normal	7	9	Poor	
6/24/2007	No	No	82		Negligible		0	No benthic data	
9/24/2007	No	No	75	70	Negligible	6.9	3	Poor	
12/16/2007	No	No	48	48	Low	6.8	20	Good	
3/22/2008	Yes	Yes	70	54	Normal	6.9	21	Good	
6/22/2008	Yes	No	85	72	Negligible	6.8	16	Fair	
9/19/2008	No	Yes	70	67	Normal	6.9	11	Fair	
12/14/2008	No	No	50	46	Normal	6.8	14	Fair	
3/15/2010	No	No	60	55	Normal	6.8	9	Poor	
9/18/2010	No	No	84		Normal		0	No benthic data	
12/19/2010	No	No	39	38	Normal	6.7	13	Fair	
3/19/2011	No	No	78	68	Normal	6.8	14	Fair	
6/25/2011	No	No	85		Negligible		0	No benthic data	
9/18/2011	No	No	69		Negligible		0	No benthic data	
1/1/2012	No	No	63	50	Normal	6.8	17	Good	
3/25/2012	No	No		63	High	6.4	15	Fair	
6/30/2012	No	No	101		Negligible		0	No benthic data	

9/23/2012	No	No	72		Negligible		0	No benthic data
4/7/2013	No	No	71	56	Normal	6.6	15	Fair
9/15/2013	No	No	80		Negligible		0	No benthic data
12/6/2013	No	No	70	60	Low	6.7	14	Fair

**Miles Branch Tributary - Ladd**  **MilesTrb-4-0007** Chatham Karen Ladd

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/21/2003	No	No	80	68	Low	6.8	3	Poor	
3/18/2004	No	No	68	59	Low	7	5	Poor	
12/12/2004	No	No	45	44	Low	6.8	5	Poor	

**Morgan Creek - 119 Morgan Ben**  **MorganCr-6-0000** Orange Barb Thomas

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/21/2007	No	Yes	78	64	Normal	6.9	17	Good	
6/23/2007	No	Yes	76	71	Low	7.3	9	Poor	
4/21/2010	No	No			Normal		19	Good	

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
10/10/1998	No	Yes	73	63	Low	7.2	23	Excellent	
12/12/1998	No	No	51	50	Low	7.2	24	Excellent	
3/28/1999	No	No	74	65	Normal	7.5	24	Excellent	
6/20/1999	No	Yes	65	65	Low	7.1	27	Excellent	
9/26/1999	No	Yes	73	64	Normal	7	25	Excellent	
12/12/1999	Yes	No	53	45	Normal	6.9	24	Excellent	
10/1/2000	No	Yes	71	64	Normal	7.2	32	Excellent	
12/23/2000	No	No	36	38	Normal	7	27	Excellent	
6/24/2001	No	Yes	85	73	Normal	7.2	32	Excellent	
9/22/2001	No	Yes	74	70	Low	7.1	24	Excellent	
12/16/2001	Yes	Yes	62	48	Low	7.1	21	Good	
3/29/2002	No	Yes	70		Normal		29	Excellent	
6/30/2002	No	Yes	80	74	Negligible	6.9	16	Fair	
9/21/2002	No	No	80	74	Negligible	6.9	2	Poor	
12/22/2002	No	No	60	46	Normal	6.9	21	Good	
3/22/2003	No	Yes	71	59	High	6.7	30	Excellent	
6/21/2003	No	No	73	68	Normal	6.9	26	Excellent	
9/20/2003	Yes	Yes	78	70	Normal	7	23	Excellent	
12/22/2003	No	No	60	42	Normal	7	24	Excellent	
4/4/2004	Yes	Yes	59	59	Normal	7.9	26	Excellent	
6/19/2004	No	Yes	82	78	Low	7.1	22	Good	
9/19/2004	No	Yes	66	66	Normal	7.1	35	Excellent	
12/12/2004	No	No	54	50	High	7	27	Excellent	
3/20/2005	No	Yes	74	56	High	7.2	29	Excellent	
6/19/2005	No	Yes	78	71	Normal	7.3	23	Excellent	
9/8/2005	No	No			Normal		0	No benthic data	
12/24/2005	Yes	No	58	43	Normal	6.9	24	Excellent	
3/18/2006	No	No	52	60	Low	7.1	29	Excellent	
6/10/2006	No	Yes	73	65	Low		24	Excellent	
12/16/2006	Yes	Yes	64	49	Normal	7.2	27	Excellent	
3/25/2007	No	Yes	79	69	Normal	7.8	20	Good	
6/23/2007	No	Yes	78	72	Low	7.2	22	Good	
3/22/2008	No	No	78	62	Normal	7.4	23	Excellent	
6/28/2008	No	Yes	86	75	Negligible	6.7	19	Good	
9/21/2008	No	Yes	68	64	Normal	7.1	23	Excellent	
12/13/2008	Yes	Yes	54	47	High		24	Excellent	
4/9/2009	No	No	68	60	Normal	7.4	27	Excellent	
6/21/2009	Yes	Yes	78	75	Normal	7.1	22	Good	
9/19/2009	No	No			Negligible		0	No benthic data	
3/14/2010	No	Yes	68	54	Normal	7	22	Good	
6/19/2010	No	Yes	90	75	Low	7.1	19	Good	
3/18/2011	No	No	71	62	Normal	7.4	25	Excellent	
7/3/2011	No	Yes			Normal	7.2	20	Good	
9/17/2011	No	No			Negligible		0	No benthic data	
6/24/2012	No	Yes	80	74	Low		18	Good	

3/30/2013	No	Yes	68	56	Normal	7.4	28	Excellent
6/22/2013	No	Yes	78	70	Normal	7.1	25	Excellent

**Morgan Creek - N of Univ. Lake**  **MorganCr-6-0109** *Orange* Richard Cheney

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/19/2003	No	Yes	75	71	Normal	7.2	25	Excellent	
9/22/2003	No	No	72	70	Normal	7	16	Fair	
12/13/2003	No	No	43	43	Normal	7.2	15	Fair	
3/21/2004	Yes	Yes	61	61	Normal	7.4	20	Good	
6/20/2004	Yes	Yes	75	75	Low	7.2	16	Fair	
9/19/2004	No	Yes	71	67	Normal	7.2	18	Good	
12/12/2004	No	No	52	50	Normal	7.2	21	Good	
3/19/2005	Yes	No	64	52	Normal	7.2	18	Good	
6/19/2005	Yes	Yes	76	71	Low	7.2	20	Good	
9/12/2005	Yes	Yes	83	72	Negligible	7	19	Good	
12/10/2005	No	No	49	42	Normal	7	17	Good	
3/18/2006	Yes	Yes	63	56	Low	7.4	14	Fair	
6/24/2006	Yes	Yes	83	75	Normal	7.2	16	Fair	
9/25/2006	Yes	Yes	67	69	Low	7.2	18	Good	
12/16/2006	No	No	63	47	Normal	7.4	19	Good	
3/19/2007	Yes	No	61	51	Normal	7.2	20	Good	
6/23/2007	Yes	Yes	83	73	Low	7.2	13	Fair	
9/23/2007	No	No	90	77	Negligible	6.9	12	Fair	
12/17/2007	No	No	46	43	Low	7	11	Fair	
3/22/2008	No	Yes	72	58	Normal	7.4	14	Fair	
6/21/2008	No	Yes	85	72	Low	7	20	Good	
9/20/2008	No	Yes	68	64	Normal	7.1	15	Fair	
12/20/2008	No	Yes	56	54	Normal	7	18	Good	
3/22/2009	Yes	Yes	59	56	Normal	7.2	15	Fair	
9/20/2009	No	Yes	74	70	Negligible	6.8	16	Fair	
12/20/2009	No	No	42	44	High	6.9	18	Good	
6/21/2010	No	Yes	82	76	Low	7.1	20	Good	
6/24/2010	No	Yes	80	78	Low	7.1	20	Good	
9/19/2010	No	No			Negligible		0	No benthic data	
12/19/2010	No	No	41	39	Normal	7	12	Fair	
3/21/2011	Yes	Yes	75	64	Normal	7.3	18	Good	
6/18/2011	No	Yes	82	76	Low	7.1	19	Good	
9/27/2011	No	Yes	76	77	Negligible	6.9	14	Fair	
4/1/2012	No	Yes	76	68	Normal		26	Excellent	
6/30/2012	No	Yes	72	72	Negligible	6.9	19	Good	
9/30/2012	No	Yes	67	65	Normal		20	Good	
12/10/2012	No	No	50	49	Normal	7	17	Good	
3/23/2013	Yes	Yes	52	49	Normal	7.6	21	Good	
6/30/2013	No	Yes	78	73	Normal	6.9	24	Excellent	
12/7/2013	No	Yes	49	56	Normal	7.1	22	Good	

**Morgan Creek - NC Bot Garden**  **MorganCr-6-0043** *Orange* Sarah Hartman

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/20/1997	No	Yes	80	74	Low	7.2	22	Good	
12/14/1997	No	No	45	42	Normal	7.2	13	Fair	
6/21/1998	No	No	82	78	Low	7.4	11	Fair	
9/26/1998	No	No	75	78	Low	7.3	15	Fair	
12/12/1998	No	No	50	60	Normal	7.4	17	Good	
3/27/1999	No	No		40	High	7.2	7	Poor	
6/19/1999	No	No	78	69	Normal	7.2	19	Good	

**Morgan Creek above WWTP**  **MorganCr-6-0068** *Orange* Sarah Haggerty

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/24/1995	No	Yes		60	Low	7.4	13	Fair	
12/16/1995	No	Yes	55	48	Normal	7.3	15	Fair	
3/23/1996	No	No	58	50	High	7.4	14	Fair	
6/22/1996	Yes	Yes	90	78	Low	7	17	Good	
9/21/1996	No	No	75		High	6.8	3	Poor	
12/15/1996	No	No		44	Normal	7.3	16	Fair	
10/14/2000	No	Yes	72	56	Normal	7.2	14	Fair	
3/25/2001	No	No	63	58	Normal	7.3	17	Good	
6/24/2001	No	No			High	7.1	14	Fair	
9/23/2001	No	Yes	82	72	Low	7.1	12	Fair	
12/22/2001	No	No	48	40	Normal	7.7	4	Poor	
3/20/2002	No	Yes	80	64	Normal	7.4	16	Fair	
9/30/2002	No	No	71	70	Low	7.3	13	Fair	
5/17/2003	No	Yes	61	64	Low	7.1	14	Fair	

**Motes Creek - below lake**  **MotesCr-4-0001** *Alamance* Lynn Bossong

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/17/2004	No	No	50	48	Normal	7	9	Poor	0.6 0.25



**Motes Creek - Meadowfest** **MotesCre-4-0005**

Alamance

Kim Colvin

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/18/1995	Yes	Yes		55	Normal	7.4	21	Good
9/23/1995	Yes	No		64	Normal	7.1	18	Good
3/21/1998	Yes	No	68	52	Normal	7	23	Excellent
6/21/1998	Yes	No	90	82	Low	7	20	Good
9/27/1998	No	Yes	92	73	Low	7.2	22	Good
12/12/1998	No	No	50	50	Low	6.8	10	Poor
3/16/1999	Yes	No	74	50.5	High	6.8	16	Fair
6/19/1999	No	No	80	70	Normal	7	23	Excellent
9/26/1999	No	Yes	78	68	Normal	7	28	Excellent
12/11/1999	No	No	54	45	High	6.8	17	Good
3/24/2000	No	No	70	54	High	7	19	Good
6/25/2000	Yes	Yes	90		Normal	7	22	Good
9/28/2000	No	Yes	68	64	Normal	6.9	14	Fair
12/30/2000	No	Yes	36	36	Normal	7.1	19	Good
4/19/2001	Yes	No	71	68	Normal	7.2	29	Excellent
6/24/2001	No	Yes	84	76	Normal	7	25	Excellent
10/7/2001	No	Yes		62	Low	7	22	Good
4/14/2002	No	No	75	64	Normal	7	22	Good
7/16/2002	No	Yes	88	77	Low	7.4	19	Good
10/9/2002	No	No	64	70	Low	7	20	Good
7/2/2009	No	No	95	75	High		20	Good
6/23/2010	No	Yes			Normal	7.2	21	Good
1/3/2011	Yes	No	42	43	High	7.2	14	Fair
3/20/2011	No	No	70	56	High	7.4	20	Good

**Motes Creek - Redbud** **MotesCre-4-0008**

Alamance

Kevin Meehan

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/13/2002	No	No	72	66	Normal	7.2	23	Excellent

**Muddy Creek** **MuddyCr-2-0028**

Guilford

Lauren McGee

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/11/2004	No	No	51	54	High	7	5	Poor
9/22/2005	No	Yes	86	75	Low	8	6	Poor

**Neville Creek** **Neville-4-0000**

Orange

Betsy Kempter

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/2010	Yes	No	49	39	Low	6.5	13	Fair
5/18/2011	Yes	No	64	62	Low	7	30	Excellent 0.1

**New Hope Creek - 15-501** **NewHopCr-5-0092**

Durham

John Kent

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/1994	No	Yes	46	44	Low	6.4	7	Poor
3/18/1995	No	No	64	57	Normal	6.9	4	Poor
6/17/1995	No	No	75	68	Normal	7	7	Poor

**New Hope Creek - Johnson Mill**  **NewHopCr-5-0175** *Orange* John Hollingsworth

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/14/2003	Yes	Yes	69	67	Normal	7.1	13	Fair	
12/20/2003	No	No	41	40	Normal	7.1	23	Excellent	
1/4/2004	No	Yes	72	52	High	7.2	12	Fair	
2/29/2004	Yes	Yes	64	46	Normal	7.1	23	Excellent	
3/21/2004	No	No	50	60	Normal	7.4	14	Fair	
3/19/2005	No	No	72	55	High	7	15	Fair	
5/15/2010	No	Yes	74	66	Low	7.1	23	Excellent	
4/20/2011	No	No		60	Normal	7	25	Excellent	
6/19/2011	No	Yes	90	70	Low	7.4	18	Good	
11/14/2011	No	No	62	52	Normal	6.8	23	Excellent	

**New Hope Creek - Pine Mtn**  **NewHopCr-5-0139** *Orange* Sandy Bisdee

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/7/1999	Yes	No	51	68	Normal	7	15	Fair	
6/18/1999	No	No	77	70	Normal	7.2	15	Fair	
10/4/2000	No	Yes	72	66	High	7.1	3	Poor	
3/24/2001	No	Yes	68	54	High	7.1	4	Poor	
9/30/2001	No	Yes	72	62	Normal	7.2	8	Poor	
9/22/2002	No	Yes	83	80	Low	7.3	8	Poor	
3/23/2003	No	No	73	58	High	7	0	No benthic data	
12/13/2003	No	No	39	43	High	7	0	No benthic data	
2/26/2004	Yes	Yes	69	65	Normal	7.2	0	No benthic data	
9/12/2005	No	Yes	80	67	Low	7.4	0	No benthic data	

**New Hope Creek - Rhodo Bluff**  **NewHopCr-5-0155** *Orange* Cynthia Crossen

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/9/2000	No	No	70	57	Normal	7.2	15	Fair	

**New Hope Creek - Woodbury**     **NewHopCr-5-0062**    *Durham*    John Manuel

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/1999	No	Yes	58	41	Normal	7.2	17	Good	
3/19/2000	Yes	No	53	54	Normal	7.4	16	Fair	
6/17/2000	No	Yes	85	80	Normal		19	Good	
8/10/2000	No	Yes	80	73	Normal	7.2	19	Good	
12/31/2000	No	No	38	34	Low	7	10	Poor	
4/8/2001	No	Yes	85	68	High	7.1	14	Fair	
4/9/2001	No	Yes	85	68	Normal	7.1	14	Fair	
6/30/2001	No	Yes	89	83	Low	7.1	17	Good	
9/23/2001	No	Yes	84	75	Normal	7	15	Fair	
1/30/2002	No	No	78	55	Normal	6.9	11	Fair	
5/5/2002	Yes	No		62	Normal	6.7	14	Fair	
9/26/2002	No	Yes	78	72	Normal	7	12	Fair	
3/29/2003	Yes	No	70	65	High	6.9	8	Poor	
6/29/2003	No	Yes	84	74	Normal	7	15	Fair	
9/28/2003	No	Yes	70	69	High	6.9	16	Fair	
11/1/2003	Yes	Yes	75	66	Normal	6.9	18	Good	
11/26/2003	Yes	Yes	52	58	Normal	6.7	17	Good	
12/6/2003	No	No	52	58	Normal	6.7	17	Good	
2/29/2004	Yes	Yes	67	46	High	7	17	Good	
9/25/2004	No	Yes	75	73	Normal	7	17	Good	
2/6/2005	Yes	Yes	59	46	Normal	6.9	0	No benthic data	
12/28/2005	No	No	64		High		0	No benthic data	
5/16/2006	Yes	Yes	70	65	Normal	6.9	13	Fair	
10/1/2006	Yes	No	75	65	High	7	19	Good	
6/17/2007	Yes	Yes	85	75	Normal	7.1	16	Fair	

**North Buffalo Creek - Daniels**     **NBufalCr-2-0137**    *Guilford*    Kim Yarbray

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/15/1999	No	No	72	74	Normal	7	9	Poor	
11/1/1999	No	Yes		63	Low	7.4	5	Poor	
3/22/2000	No	No			Normal		0	No benthic data	
1/2/2007	No	No	65	51	Normal	7.3	0	No benthic data	

**North Buffalo Creek - Smith St**  **NBufalCr-2-0136** Guilford Happy Mackenzie Rieth

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
5/20/1995	No	No		76	Normal	7.4	20	Good	
9/25/1995	No	No		64	High	7.4	9	Poor	
9/22/1996	No	Yes		75	Normal	7.4	8	Poor	
3/23/1997	No	Yes	62	60	Normal	7	13	Fair	
6/30/1997	No	No		80	Normal	7.4	16	Fair	
9/20/1997	No	No	70	70	Low	7.4	15	Fair	
3/20/1999	No	Yes	65	55	Normal	7.4	14	Fair	
10/2/1999	No	Yes	75	70	Normal	7.4	9	Poor	
3/31/2001	No	No	68	56	High	7.4	8	Poor	
10/5/2003	No	No	72	64	Normal	7.6	9	Poor	
12/20/2003	No	No	50	48	Low	7.3	0	No benthic data	
3/21/2004	No	No	62	64	Normal	7.4	7	Poor	
6/27/2004	No	Yes		75	Normal	7.4	0	No benthic data	
9/26/2005	No	Yes		73	Low	7.4	5	Poor	
3/19/2006	No	No	62	60	Normal	7.4	6	Poor	
10/22/2011	No	Yes	68		Negligible	6.8	13	Fair	
1/2/2012	No	Yes	48	46	Low	7.2	3	Poor	
4/7/2012	No	Yes	61	59	Low	7	9	Poor	
7/30/2012	No	Yes	84	82	Negligible	7.2	2	Poor	
10/17/2012	No	Yes	72	62	Normal	7	17	Good	
5/8/2013	No	No	68	62	High	7	7	Poor	
8/5/2013	No	No	82	76	Normal	7.3	16	Fair	

**Nursery Creek**  **NurserCr-2-0002** Alamance Mike Holland

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/8/1995	No	Yes		65	Normal	7.1	11	Fair	

**Parker's Creek**  **ParkrsCr-5-0004** Chatham Allison Weakley

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>	
5/11/2004	No	Yes	76	66	Low	7.2	17	Good	0.15	0
9/26/2004	No	Yes	73	64	Normal	7.3	18	Good		
4/14/2005	No	No	58	55	High	7	18	Good		
7/10/2005	No	Yes	81	73	Normal	7.1	20	Good	0.1	0
9/18/2005	Yes	Yes	76	74	Negligible	7.1	4	Poor		
1/1/2006	Yes	No	56	42	Normal	7	9	Poor		
3/26/2006	Yes	No	55	48	High	7.3	13	Fair		
7/26/2006	Yes	Yes	76	74	Normal	7	5	Poor		
10/1/2006	Yes	No	68	66	Normal	7.2	19	Good		
1/7/2007	Yes	No	60	53	High	7	21	Good		
4/22/2007	Yes	No	80	66	Normal	6.9	21	Good		
6/24/2007	Yes	Yes	76	70	Low	6.8	12	Fair		
9/30/2007	No	Yes	72	62	Negligible	6.8	3	Poor	0.1	0
2/2/2008	Yes	No	52	45	Normal	6.8	20	Good	0	0
3/28/2008	No	No	81	64	Normal	7.2	15	Fair		
6/25/2008	No	Yes	75	68	Negligible	6.8	6	Poor	0.2	

**Paul's Creek** **PaulsCr-1-0001***Guilford*

R. Warren

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/23/1996	No	Yes	45	45	Normal	7	12	Fair	
6/19/1996	No	No	80	68	Normal	7.5	7	Poor	
3/28/1997	No	Yes	50	48.2	High	6.5	13	Fair	

**Peabody Creek** **PeabodCr-2-0004***Orange*

Jamie Calkin

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/16/1995	No	No		68	Low	6.5	18	Good	

**Pokeberry Creek - Bynum Bridge** **Poke3ByB-4-0012***Chatham*

Catherine Deininger

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
1/27/2007	No	No	56	44	Normal	7	32	Excellent	

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/17/1994	No	No		47	Normal	7.3	16	Fair	
3/18/1995	No	No		57	Normal	7	15	Fair	
6/17/1995	No	Yes		71	Normal	7.2	11	Fair	
9/24/1995	No	No		58	Normal	7.3	14	Fair	
12/16/1995	No	No		41	High	7	16	Fair	
3/24/1996	No	No	59	48	High	7	16	Fair	
6/22/1996	No	Yes	73	73	Low	7.3	12	Fair	
9/21/1996	No	Yes		65	High	7.2	10	Poor	
12/14/1996	No	No		48	Normal	7	16	Fair	
3/23/1997	No	No	55	52	High	7	7	Poor	
6/15/1997	No	No	80		Normal	7.2	12	Fair	
9/21/1997	No	Yes	70	68	Low	7.3	15	Fair	
12/14/1997	No	Yes	36	40	Normal	7	13	Fair	
3/29/1998	No	Yes	80	62	High	6.9	14	Fair	
6/28/1998	No	Yes	90	82	Low	7.3	8	Poor	
9/26/1998	No	Yes		63	Low	7.4	10	Poor	
12/12/1998	No	No	46	46	Low	7.3	8	Poor	
3/28/1999	No	Yes	58	51	High	7	10	Poor	
6/19/1999	No	Yes	80	72	Normal	7.2	6	Poor	
9/26/1999	No	No	70	66	Normal	7	12	Fair	
12/12/1999	No	Yes	50	40	Normal	7.1	11	Fair	
3/18/2000	No	No	40	50	Normal	7.1	13	Fair	
6/18/2000	No	Yes	88	82	Low	7.3	6	Poor	
9/23/2000	No	No		69	Normal	7.2	11	Fair	
12/15/2000	No	No	40	40	Normal	7.2	12	Fair	
3/25/2001	No	No	53	53	High	7	15	Fair	
7/1/2001	No	Yes	80	75	Normal	7.2	12	Fair	
9/22/2001	No	Yes	74	66	Low	7.2	18	Good	
12/9/2001	No	No	54	52	Low		15	Fair	
3/16/2002	No	Yes	80	64	Normal	7.4	18	Good	
7/1/2002	No	Yes	90	73	Negligible	7.2	5	Poor	
9/14/2002	No	Yes	75	68	Negligible	7.1	12	Fair	
12/16/2002	No	No	50	43	High	6.7	18	Good	
3/28/2003	No	No	68	58	High	6.8	15	Fair	
6/28/2003	No	Yes	75	72	Low	7.1	13	Fair	
9/21/2003	Yes	No	80	70	High	7.1	13	Fair	
12/27/2003	No	Yes	52	37	High	7	19	Good	
4/9/2004	No	No	68	60	Normal	7.4	13	Fair	
6/20/2004	No	Yes	82	78	Low	7.4	6	Poor	
9/24/2004	No	Yes	80	69	Normal	7.2	12	Fair	
12/12/2004	No	No	48	46	High	6.7	16	Fair	
4/10/2005	Yes	No	60	57	High	6.9	12	Fair	
7/10/2005	No	Yes	88	79	Low	7.1	14	Fair	
9/12/2005	No	No	50	48	Normal	7.1	10	Poor	
10/13/2005	No	Yes	70	66	Normal	7.2	17	Good	

12/17/2005	No	No	40	39	High	6.7	11	Fair
7/16/2006	No	Yes	85	76	Low	7.4	6	Poor
10/15/2006	No	No	50	48	Low		10	Poor
12/17/2006	No	No	65	43	Normal	7.1	15	Fair
3/18/2007	No	No	49	46	High	6.7	10	Poor
7/1/2007	No	No	78	73	Normal	7.2	22	Good
9/22/2007	No	Yes	76	69	Negligible	7.1	15	Fair
12/15/2007	No	No	46	46	Low	7.1	12	Fair
4/12/2008	No	No	55	60	Normal	7.1	14	Fair
7/13/2008	No	Yes	90		Low	7.1	19	Good
10/5/2008	No	No		65	Normal	7.3	18	Good
12/14/2008	No	Yes		42	Normal	6.7	11	Fair
3/22/2009	No	No	44	44	High	6.7	12	Fair
7/4/2009	No	Yes	74	70	Low	7.4	12	Fair
9/27/2009	No	Yes	68	66	Normal	7.1	17	Good
1/20/2010	No	No	62	46	Normal	6.9	17	Good
4/5/2010	No	No		82	Normal	7.0	19	Good
6/20/2010	No	Yes	89	76	Low	7.2	20	Good
10/10/2010	No	Yes		62	Low	7.2	19	Good
1/29/2011	No	No	44	38	Normal	7.1	18	Good
3/20/2011	No	No	54	54	Normal	7.1	16	Fair
7/4/2011	No	Yes	80	76	Normal	7.2	12	Fair
10/2/2011	Yes	Yes	53	55	Low	7.3	14	Fair
1/1/2012	No	Yes	55	42	Normal	7.1	15	Fair
4/28/2012	No	No	60	62	Normal	7.2	16	Fair
9/16/2012	No	Yes	70	64	Low	7.3	9	Poor
3/17/2013	No	No	57	53	High	7	13	Fair
8/4/2013	No	No		74	Normal	7.2	11	Fair
10/6/2013	No	No	74	72	Low	7.1	16	Fair

**Pokeberry Creek - Morris Rd.**       **PokebeCr-4-0039**      Chatham      Rich Goldberg

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/1999	Yes	No	56	42	Normal	6.7	23	Excellent
3/26/2000	No	No	70	60	Normal		14	Fair

**Pokeberry Creek - near Haw**       **PokebeCr-4-0001**      Chatham      Sharon Garbutt

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/10/2005	No	No	60	61	High	7.2	11	Fair
7/16/2006	No	No	85	76	Low	7.5	9	Poor
12/18/2006	No	Yes	66	46	Normal	7.1	18	Good
3/18/2007	No	Yes	51	49	High	6.7	8	Poor
7/1/2007	No	Yes	83	73	Low	7.4	9	Poor
9/22/2007	No	Yes	78	71	Negligible	7.2	15	Fair

**Price Creek, East Branch**       **PriceEB-6-0012**      Chatham      Noreen Esposito

<i>Survey Date</i>	<i>BeaverFish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/26/2004	No	No	74	68	Normal	7.2	2	Poor

**Redbud Creek** **Redbud-4-0000**

Chatham

Maja Kricker

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/2010	No	No	40	40	Low	7.2	17 Good		
3/20/2011	No	No	60	54	Normal	7.2	16 Fair		

**Reedy Fork Creek - Bold Moon** **ReedFoCr-2-0145**

Guilford

Chris Carter

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/9/1995	No	No		48	High	6.9	11 Fair		
3/18/1995	No	Yes	65	58	High	7.2	11 Fair		

**Reedy Fork Creek below Buffalo** **ReedFoCr-2-0086**

Alamance

Ken Winter

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/25/1995	No	No	65	56	Normal	7.4	12 Fair		
6/17/1995	No	No		72	Normal	7.4	12 Fair		

**Reedy Fork Creek below Lk Bran** **ReedFoCr-2-0301**

Guilford

Crowder

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/24/1996	Yes	No	56	50	Normal	6.8	17 Good		
6/23/1996	Yes	Yes	88	79	Low	6.7	15 Fair		



<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/21/1999	No	Yes	84	71	Normal	7.1	24	Excellent	
12/11/1999	No	No	54.5	46	High	7	17	Good	
6/25/2000	No	Yes	90	80	Normal	7	12	Fair	
8/21/2000	No	Yes	80	74	Normal	7	22	Good	
9/24/2000	No	Yes	75	72	Normal	6.8	16	Fair	
12/16/2000	No	No	45	44	Normal	6.8	6	Poor	
3/31/2001	No	Yes	65	56	High	6.5	15	Fair	
6/23/2001	No	Yes			Normal		0	No benthic data	
6/30/2001	No	Yes			Normal		13	Fair	
9/22/2001	No	Yes	74	73	Normal	6.8	12	Fair	
11/15/2001	No	No			Normal	7	0	No benthic data	
12/15/2001	No	No	59	55	Normal	7	14	Fair	
3/23/2002	No	Yes	55	56	High	7.1	20	Good	
6/29/2002	No	Yes			Low	6.9	13	Fair	
9/22/2002	No	Yes	77	75	Low	7.3	5	Poor	
12/5/2002	No	No	50	46	High	6.5	8	Poor	
3/29/2003	No	No	72	70	Normal	7	18	Good	
6/22/2003	No	Yes	73	73	High	7	18	Good	
9/28/2003	No	Yes	70	72	Normal	6.9	21	Good	
12/20/2003	No	No	44	44	Normal	6.8	0	No benthic data	
3/27/2004	No	Yes	64	65	Normal	7	22	Good	
6/20/2004	No	No	74	81	High	7.2	16	Fair	
9/12/2004	No	Yes		71	Normal	7.1	18	Good	
12/4/2004	No	No	50	50	Normal	7.2	13	Fair	
3/20/2005	No	Yes	63	53	Normal	6.8	26	Excellent	
6/19/2005	No	Yes	78	75	Low	7	20	Good	
9/19/2005	No	Yes	82	76	Negligible	7	21	Good	
4/30/2006	No	Yes	67	64	Normal	7	14	Fair	
6/25/2006	No	No	78	79	High	7	18	Good	
10/1/2006	No	Yes	69	63	Normal	6.7	16	Fair	
12/16/2006	No	No	52	48	Normal	7	16	Fair	
3/25/2007	No	No	72	64	High	6.8	26	Excellent	
7/1/2007	No	No	76	73	Low	7	13	Fair	
9/27/2007	No	No		74	Negligible	7	0	No benthic data	
12/31/2007	No	No	49	53	High	6.6	0	No benthic data	
7/22/2008	No	Yes	71	72	Normal	6.7	15	Fair	
9/5/2008	No	No	54	59	High	6.6	18	Good	
9/20/2008	No	No	64	69	Normal	6.4	19	Good	
4/5/2009	No	No	65	61	Normal	7	21	Good	
4/6/2009	No	Yes	66	66	Normal		33	Excellent	
4/8/2009	No	No			Normal		21	Good	
3/31/2010	No	Yes	60	42	Normal	7	26	Excellent	0
4/17/2010	No	Yes	74	68	Low	7	18	Good	0
6/20/2010	No	No	84	82	Low	7.4	14	Fair	
9/18/2010	No	No	80	72	Negligible	7	7	Poor	

4/30/2011	No	No	70		Normal	6.8	20	Good		
5/10/2011	No	No	72	65	Normal	7.4	25	Excellent	0	12
5/11/2011	No	No	61	61	Normal	7	20	Good	0	12
6/11/2011	No	No	85	77	Low	6.9	18	Good		
10/13/2011	No	Yes	76	72	Low	7	25	Excellent		
11/16/2011	No	No			Normal	6.9	33	Excellent	0.1	0.3
3/24/2012	No	No	73	69.5	High	7	23	Excellent		
4/17/2012	No	No	76	70	Normal	6.9	33	Excellent	0	0
4/19/2012	No	Yes			Normal		32	Excellent		
6/24/2012	No	No	79	77	Normal	7	12	Fair		
9/23/2012	No	No	69	72	High	6.8	17	Good		
12/8/2012	No	No	59	55	Negligible	6.8	15	Fair		
4/24/2013	No	No	53	61	Normal	6.9	32	Excellent		
4/26/2013	No	No			Normal		29	Excellent		

**Roberson Creek - Hanks Chapel**  **RobersCr-4-0014** Chatham Elizabeth Byars

**Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate**

3/18/1995 Yes No 65 58 High 7.4 9 Poor

**Roberson Creek - Hewitts**  **RobersCr-4-0082** Chatham Chris Carson

**Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate**

6/30/2003	No	Yes	78	74	Normal	7.2	24	Excellent		
9/20/2003	No	Yes	77	67	Normal	7.2	28	Excellent		
12/26/2003	No	No	45	40	Normal	7.2	26	Excellent		
3/20/2004	No	Yes	60	52	High	7	25	Excellent		
9/17/2004	No	No	80	69	Normal	7	22	Good		
4/10/2005	No	Yes	80	64	High		17	Good		
7/22/2006	No	No	78	76	Normal	7.4	17	Good	3.5	0.2
10/11/2007	No	No		66	Low	7.4	22	Good		
11/10/2011	No	No	70	54	Normal	7.1	20	Good		

**Roberson Creek - Pitts/Moncure**  **RobSEfor-4-0002** Chatham Catherine Deininger

**Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate**

11/17/2001 No No Low 7.2 0 No benthic data

**Roberson Creek - Town Lake**  **RobersCr-4-0080** Chatham Daphne Hill

**Survey Date BeaverFish Air Temp Water Temp Flow pH Water Quality Index, Rating Nitrate Phosphate**

5/8/1996 No No 68 68 Normal 6.9 22 Good

**Roberson Creek NW Fork KM**     **RobEfnWf-4-0038**    Chatham    Keith Megginson

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/2000	No	No	43	48	Normal	6.8	0	No benthic data	
3/25/2001	No	No	64	54	Low	7	10	Poor	
10/6/2001	No	Yes	66	58	Negligible	6.9	11	Fair	
12/16/2001	No	No	59	499	Negligible	6.9	5	Poor	
3/29/2002	No	No			Normal		14	Fair	
6/22/2002	No	Yes	83	70	Negligible	7.4	3	Poor	
9/21/2002	No	No	74	71	Negligible	6.5	5	Poor	
3/23/2003	No	No	68	56	High	6.8	18	Good	
3/24/2003	Yes	No	60	64	High	6.9	14	Fair	
6/22/2003	Yes	No	77	70	Normal	6.7	7	Poor	
9/22/2003	No	No	85	70	Low	6.7	10	Poor	
12/28/2003	Yes	No	36	42	Normal	7.3	5	Poor	
3/22/2004	Yes	Yes	67	64	Normal	6.9	14	Fair	
6/20/2004	Yes	Yes	72	77	Normal	6.8	6	Poor	
12/12/2004	No	No	50	50	Normal	6.9	8	Poor	

**Roberson Creek NW Fork MO**     **RobWfnWf-4-0151**    Chatham    Mike O'Connell

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
10/1/2000	No	Yes	72	64	Normal	7	17	Good	
12/17/2000	No	No	52	50	Normal	6.6	17	Good	
3/26/2001	Yes	No	50	52	Normal	6.9	20	Good	
7/29/2001	Yes	Yes	82	74	Low	6.9	15	Fair	
9/25/2001	No	No	68	62	Normal	7.2	7	Poor	
11/18/2001	No	No			Normal	6.8	0	No benthic data	
12/16/2001	No	No	58	49	Normal	7	21	Good	
3/2/2002	No	Yes	75	64	Low	7.3	20	Good	
9/22/2002	No	Yes	74	72	Low	6.8	15	Fair	
12/17/2002	No	No	50	44	High	6.5	16	Fair	
3/28/2003	No	No	73	64	Normal	6.8	20	Good	
6/22/2003	Yes	Yes	72	69	High	6.8	8	Poor	
1/13/2004	No	No	52	38	Normal	7.3	22	Good	
3/21/2004	No	Yes	64	62	High	6.8	27	Excellent	

**Roberson Creek SE Fork - Camp**  **RobSEfor-4-0012** Chatham Leslie Ann Yell

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
9/24/2000	No	No	74	68	Normal	6.7	10	Poor	
12/11/2000	No	No	44	46	Low	7	5	Poor	
3/25/2001	No	No	5152	6.6	Normal		19	Good	
6/23/2001	No	No	76	69	Normal	6.6	19	Good	
9/23/2001	No	Yes	75	68	Low	6.8	21	Good	
11/17/2001	No	No			Low	6.7	0	No benthic data	
3/23/2002	No	No	45	46	Normal	7	21	Good	
12/29/2002	No	No		39	Normal	6.6	16	Fair	
4/14/2003	No	No		58	Normal	6.6	21	Good	
9/28/2003	No	Yes	76	68	Normal	6.8	2	Poor	
3/29/2004	No	No	65	60	Normal	7	23	Excellent	
7/24/2004	No	No	82	73	Low	6.9	13	Fair	
9/25/2004	No	No	80	66	Normal	6.9	9	Poor	
7/2/2005	No	No	85	72	Low	6.5	9	Poor	

**Rock Creek**  **RocCreek-3-0044** Alamance Kim Colvin

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/1/2000	No	Yes	65	54	Normal	6.8	20	Good	
11/10/2001	No	No	73	54	Low	6.7	15	Fair	
11/9/2002	No	No	64	50	Normal	6.7	4	Poor	

**Running Creek**  **RuningCr-1-0003** Guilford John Minson

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
2/20/1995	No	No		47	High	6.9	30	Excellent	
3/18/1995	No	No	60	52	Normal	7.1	22	Good	
6/17/1995	No	Yes		67	Low	7.2	15	Fair	
9/23/1995	No	No		60	Normal	7	15	Fair	
12/16/1995	No	Yes	50	43	Normal	7	19	Good	
3/24/1996	No	No	50	45	Normal	6.8	16	Fair	
6/22/1996	No	Yes	80	70	Normal	7.1	11	Fair	

**Sandy Creek Trib - East Fork**  **SandyEf-5-0013** Durham Chris Shepard & Martha Pentec

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/26/2004	Yes	Yes	68	64	Normal	7.8	10	Poor	
7/8/2004	No	Yes	91	82	Low		6	Poor	
12/31/2004	No	Yes	62	48	Normal	7.4	8	Poor	
3/13/2005	No	Yes	61	50	Normal	7.2	4	Poor	
6/20/2005	No	Yes	82	72	Normal	7.4	11	Fair	

**Simpson Creek - our name**  **SimpsnCr-4-0019** Chatham Gary Simpson

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/22/2003	No	No	78	68	Normal	6.9	17	Good	

**South Buffalo Creek - Burl Rd.**     **SBuffaCr-2-0048**    Guilford    Jack Dalton

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
6/17/1995	No	Yes		68	Low	8	6	Poor	
9/24/1995	No	No		57	Normal	7	4	Poor	
12/22/1995	No	No		35.6	High	7	0	No benthic data	

**South Buffalo Creek below WWT**     **SBuffaCr-2-0014**    Guilford    Leslie Nawrocki

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
2/25/1995	No	No			Normal	7.4	17	Good	
3/18/1995	No	No	68	65	Normal	7.4	15	Fair	
6/17/1995	No	No	77	75	Normal	7.4	11	Fair	
9/23/1995	No	No		72	High	7.1	11	Fair	
3/23/1996	No	No	50	60	High	7.4	10	Poor	
6/22/1996	No	Yes	85	82	Low	7	15	Fair	
9/21/1996	No	No	70	75	Normal	7.4	9	Poor	

**Squirrel Creek**     **Squirrel-2-0022**    Guilford    Anne Somers

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/16/1995	No	Yes	56	52	Normal	6.8	19	Good	
3/23/1996	No	Yes	65.4	53.6	Normal	7	17	Good	
6/23/1996	No	Yes	87	68	Normal	6.9	4	Poor	
3/22/1997	No	Yes	70	59	Normal	6.7	14	Fair	
11/2/1997	No	No	64	57	Normal	6.8	15	Fair	
6/17/1998	No	Yes	75	89	High	6.3	17	Good	

**Stinking Creek**     **StinkCr-4-0040**    Chatham    Tami Schwerin

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/22/1997	Yes	Yes	73	58	Normal	6.7	26	Excellent	
10/25/2011	No	No	76	57	Low	7.1	15	Fair	
12/20/2011	Yes	No	58	44	Normal	6.6	20	Good	

**Tannery Branch**     **Tannery-4-0001**    Chatham    Chris Bouton

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/14/2006	No	No	62	62	Low		4	Poor	

**Temple Creek**     **TempleCr-4-0003**    Chatham    Paul Harrell

Survey Date	Beaver	Fish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
9/24/1995	No	No	60	58	Low	7.3	11	Fair	
12/17/1995	No	No		46	Normal	7.4	14	Fair	
3/24/1996	No	No	65	54	Normal	7.2	14	Fair	
6/23/1996	No	Yes	75	70	Low	7.4	16	Fair	
9/21/1996	No	No	60	60	Normal	7.1	12	Fair	
12/23/1996	No	No		45	Normal	7.1	22	Good	
1/4/1998	No	No	57		Normal	7.1	8	Poor	
3/29/1998	Yes	Yes	75		Normal	7.1	16	Fair	
6/27/1998	No	Yes	80		Normal	7.4	21	Good	
4/4/1999	No	No	80		High	7.3	15	Fair	
7/3/1999	No	Yes	85		Negligible	6.8	11	Fair	

**Terrells Creek - Baldwin's Mil**  **Terrells-4-0007** Chatham Emily Shepard

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/10/1995	No	No	35	40	Normal	6.7	13	Fair
12/16/1995	No	Yes	54	46	Normal	7	21	Good
3/23/1996	No	Yes	62	55	Normal	7.1	22	Good
12/13/2003	No	No	42	45	Normal	7	12	Fair
3/22/2004	No	Yes	56	54	Normal	7.2	12	Fair
6/23/2004	No	Yes	77	77	Normal	6.5	5	Poor
9/25/2004	No	No	74	68	Normal	7.2	2	Poor

**Terrells Creek - Hwy 87**  **Terrells-4-0022** Chatham Two Streams

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
7/10/2000	No	Yes	86	76	Normal	6.9	18	Good
2/3/2007	No	No		Normal			35	Excellent

**Third Fork Trib - Forest Hills**  **ThirdfFH-5-0013** Durham Allison Armieri

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
9/14/2003	No	No	76	75	Normal	7.7	6	Poor
1/15/2004	No	Yes	66	50	High	7.4	10	Poor
4/6/2004	No	No	56		Low	7.4	3	Poor
12/16/2006	No	No			Normal	6	6	Poor
3/30/2007	No	Yes	75	66	Normal		13	Fair
3/12/2012	Yes	Yes	73	53	Normal	7.3	5	Poor
9/28/2012	Yes	No	86	68	Normal	7.4	9	Poor

**Town Branch**  **TownBr-2-0012** Alamance Kay Storey

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
12/28/1997	No	No	69	60	Normal	6.9	10	Poor
2/28/1998	No	No	69	60	Normal	6.9	8	Poor
9/5/2008	No	No	54	57	High	6.6	0	No benthic data

**Travis Creek**  **TravisCr-2-0028** Alamance Carole Troxler

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
6/1/2000	No	No	81	79	Normal	7.1	21	Good
12/18/2000	No	No	42	40	Normal	7	5	Poor
4/9/2001	No	No	72	68	High	7.4	6	Poor
6/20/2001	No	Yes		73	Normal	7	4	Poor
11/8/2001	No	No			Low	7	0	No benthic data

**Troublesome Creek**  **TroublCr-1-0079** Rockingham Jeff Mabe

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
3/23/1996	Yes	No	52	46	High	6.8	6	Poor
6/21/1996	No	No	95	73	Normal	6.8	13	Fair

**Turkey Creek - 15-501**  **TurkeyCr-4-0021** Chatham April Morris

Survey Date	BeaverFish	Air Temp	Water Temp	Flow	pH	Water Quality Index, Rating	Nitrate	Phosphate
5/4/2000	No	No		68	Normal	6.7	18	Good
11/17/2000	No	No	68	60	Low	7	27	Excellent

**Turkey Creek - Pitts/Moncure**     **TurkeyCr-4-0010**    Chatham    Catherine Deininger

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
11/17/2001	No	No			Normal	7.4	0	No benthic data	
12/10/2001	No	No	68	61	Low	7.2	4	Poor	

**Varnals Creek**     **Varnals-4-0006**    Alamance    Sam Berryhill

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/31/1997	No	No	56	46	High	7	18	Good	
1/31/1998	No	No	56	46	High	7.1	18	Good	
3/21/1998	No	No	68	58	High	7	24	Excellent	
6/20/1998	No	Yes	83	76	Normal	7	33	Excellent	
1/17/1999	No	No	66	43	Normal	6.8	20	Good	
7/6/1999	No	No	90		Negligible	7.2	0	No benthic data	
9/21/1999	No	No	84	66	Normal	7.2	24	Excellent	
12/30/1999	No	No	58	40	Low	7.2	12	Fair	
4/3/2000	No	No	74	62	High	6.8	18	Good	
10/7/2000	No	Yes	63	64	Normal	7.2	21	Good	
3/24/2001	No	No	58	50	High		16	Fair	
9/27/2001	No	No	69	62	Low	7.2	19	Good	
3/22/2002	No	No	57	52	Normal	7.2	18	Good	
9/29/2002	No	Yes	82	68	Low	7.2	15	Fair	

**Wasco Creek**     **WascoCr-4-0006**    Chatham    John Wasson

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
3/30/1997	No	No	81	60	Normal	6.2	13	Fair	
6/22/1997	Yes	Yes	87	78	Low	6.1	13	Fair	
9/20/1997	No	Yes	77	68	Negligible	6.5	13	Fair	
12/13/1997	Yes	No	44	44	Normal	6.3	14	Fair	
4/4/1998	Yes	Yes	53	56	High	6	8	Poor	
7/5/1998	No	No	83	77	Normal	6.2	7	Poor	

**White Oak Creek**     **WhiteOak-5-0008**    Chatham    Larry Henson

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
7/7/2001	Yes	Yes	90	84	Normal	7.1	12	Fair	

**Wilkinson Creek - Bailey** **WilkinCr-4-0007**

Chatham

Patsy Bailey

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
6/29/2003	No	Yes	82	74	Normal	6.9	17	Good	
9/21/2003	No	No	80	72	Normal	6.9	9	Poor	
12/13/2003	No	No	43	42	High	6.7	15	Fair	
3/21/2004	No	No	70	59	High	6.8	17	Good	
6/12/2004	No	Yes	74	76	Normal	7.1	13	Fair	
9/12/2004	No	Yes	79	73	High	6.9	10	Poor	
12/18/2004	No	Yes	56	40	High	6.8	20	Good	
3/19/2005	No	No	70	54	High	6.75	20	Good	
6/17/2005	No	Yes	75	72	Low	7.1	22	Good	
9/9/2005	No	Yes	88	76	Low	7.1	12	Fair	
12/4/2005	No	Yes	60	50	Normal	6.7	13	Fair	
4/9/2006	No	Yes	58	54	High	6.8	17	Good	
6/25/2006	No	Yes	76	74	Normal	7.1	14	Fair	
12/15/2006	No	No	60	42	High	6.95	13	Fair	
3/18/2007	No	No	47	46	High	6.7	14	Fair	
6/17/2007	No	Yes	66	68	Low	7.1	17	Good	
9/28/2007	No	No	70		Negligible		0	No benthic data	
12/29/2007	No	No	64	48	Low	6	14	Fair	
3/22/2008	No	No	73	57	Low	6.8	20	Good	
9/14/2008	No	Yes	88	74	High	6.9	12	Fair	
12/17/2008	No	Yes	52	46	High	6.8	16	Fair	

**Wilkinson Creek - Beaver dam** **WilkinCr-4-0035**

Chatham

Betsy Kraus

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>	
3/18/2006	Yes	No	60	60	Normal	7	17	Good	0	0
10/1/2006	No	No	76	64	Normal	6.4	16	Fair		
3/18/2007	Yes	No	48	46	Normal	6.7	17	Good	0.09	0.09
6/24/2007	Yes	Yes	76	82	Low	6.6	16	Fair		
9/23/2007	No	No	86	77	Negligible	6.6	20	Good		
12/16/2007	No	No	50	49	Low	6.1	15	Fair	0	0
3/22/2008	No	No	58	55	Normal	6.3	25	Excellent		
6/30/2008	No	No	86	84	Low	6.9	23	Excellent	0.25	0.1



**Wilkinson Creek - Hamlet Ch.**     **WilkinCr-4-0024**    Chatham    Laine Salgado

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/17/1994	No	Yes	40	47	Normal	6.7	9	Poor	
3/18/1995	No	Yes	60	59	High	6.7	21	Good	
6/17/1995	No	Yes	82	68	Low	6.6	19	Good	
9/30/1995	No	Yes	70	63	Low	6.6	20	Good	
9/13/1997	No	Yes	80	70	Normal	6.5	18	Good	
12/13/1997	No	No	46	42	Normal	6.7	21	Good	
9/27/1998	No	Yes	80	65	Negligible	6.7	17	Good	
3/27/1999	Yes	No	62	53	Normal	6.6	19	Good	
6/27/1999	Yes	Yes	85	71	Negligible	6.7	24	Excellent	
9/26/1999	Yes	Yes	80	67	High	6.6	20	Good	
12/11/1999	Yes	Yes	50	45	Normal	6.4	20	Good	
3/26/2000	Yes	Yes	70	62	Normal	6.7	23	Excellent	

**Wilson Creek**     **WilsonCr-6-0017**    Orange    Tai Roulston

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
12/12/1999	No	Yes	58	48	Normal	7	23	Excellent	
3/19/2000	No	Yes	56	54	Normal	7.1	18	Good	
5/18/2000	No	Yes	80	73	Low	7.1	22	Good	
9/24/2000	No	Yes	80	70	Normal	7.2	24	Excellent	
12/10/2000	No	No	38	42	Normal	7.2	18	Good	
3/25/2001	No	No	58	52	High	6.9	20	Good	
6/27/2001	No	No	86	72	Low	7.2	20	Good	

**Wolfpack Creek**     **WolfpkCr-4-0001**    Chatham    Jamie Calkin

<i>Survey Date</i>	<i>Beaver</i>	<i>Fish</i>	<i>Air Temp</i>	<i>Water Temp</i>	<i>Flow</i>	<i>pH</i>	<i>Water Quality Index, Rating</i>	<i>Nitrate</i>	<i>Phosphate</i>
4/3/1997	No	No	64.4	59	Normal	7.5	20	Good	