

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: LICK CRK AT SR 1500 NR CORINTH

Station #: B6130500

Hydrologic Unit Code: 03030004

Latitude: 35.55947 **Longitude:** -79.05437

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-4-(2)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	21	35	> 99.9	0	0.9	2.7	5.7	9.7	11.2	12.2
	60	0	<5	26	43.3	> 99.9	0	0.9	2.7	5.7	9.7	11.2	12.2
pH (SU)	60	0	<6	9	15	92.7	5.1	5.8	6.1	6.5	6.8	7.1	7.7
	60	0	>9	0	0		5.1	5.8	6.1	6.5	6.8	7.1	7.7
Spec. conductance (umhos/cm at 25°C)	60	1	N/A				47	64	73	78	87	98	181
Water Temperature (°C)	60	0	>32	0	0		2.3	6	9.4	14.2	22	24.8	26.8
Other													
TSS (mg/L)	60	1	N/A				1	2	4	6	10	19.6	68
Turbidity (NTU)	60	0	>50	3	5		4.1	6.9	9.3	12.9	21.1	38.9	132
Nutrients (mg/L)													
NH3 as N	60	27	N/A				0.01	0.02	0.02	0.03	0.06	0.11	0.34
NO2 + NO3 as N	60	9	>10	0	0		0.02	0.02	0.04	0.12	0.19	0.25	0.29
TKN as N	60	6	N/A				0.2	0.2	0.3	0.42	0.68	0.97	2.03
Total Phosphorus	52	3	N/A				0.02	0.03	0.04	0.07	0.1	0.18	0.52

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	122.4	12	20	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT NC 42 NR CORINTH
Station #: B6160000
Latitude: 35.54905 **Longitude:** -79.02460
Agency: MCFRBA

Hydrologic Unit Code: 03030004
Stream class: WS-IV CA
NC stream index: 18-(4.5)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.6	6.2	7.5	9.3	10.7	11.5	12.6
	85	0	<5	1	1.2		3.6	6.2	7.5	9.3	10.7	11.5	12.6
pH (SU)	85	0	<6	1	1.2		5.8	6.4	6.8	7.2	7.7	8.6	9.2
	85	0	>9	3	3.5		5.8	6.4	6.8	7.2	7.7	8.6	9.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	111	138	166	197	226	264
Water Temperature (°C)	85	0	>32	3	3.5		6	9.8	13.9	24	28.2	30	32.8
Other													
Chlorophyll a (ug/L)	46	1	>40	3	6.5		1	3	8	15	29	39	47
TSS (mg/L)	60	0	N/A				2	6	8	9	12	27.1	225
Turbidity (NTU)	60	0	>50	5	8.3		4	5.7	7.4	10.6	14.8	41.2	228
Nutrients (mg/L)													
NH3 as N	60	25	N/A				0.02	0.02	0.02	0.03	0.07	0.11	0.15
NO2 + NO3 as N	60	4	>10	0	0		0.02	0.07	0.26	0.5	0.65	0.95	1.79
TKN as N	60	1	N/A				0.2	0.4	0.5	0.74	0.94	1.09	1.39
Total Phosphorus	52	0	N/A				0.04	0.06	0.08	0.11	0.13	0.29	0.57

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	37.7	7	11.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: BUCKHORN CRK BESIDE SR 1921 NR CORINTH

Station #: B6204000

Hydrologic Unit Code: 03030004

Latitude: 35.54353

Longitude: -78.98986

Stream class: C

Agency: MCFRBA

NC stream index: 18-7-(11)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	8	13.3	85.8	0.9	3	5.1	6.7	10.7	11.5	12.8
	60	0	<5	14	23.3	>99.9	0.9	3	5.1	6.7	10.7	11.5	12.8
pH (SU)	59	0	<6	1	1.7		5.7	6.2	6.5	6.8	7	7.1	7.6
	59	0	>9	0	0		5.7	6.2	6.5	6.8	7	7.1	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				71	82	99	114	126	134	156
Water Temperature (°C)	60	0	>32	0	0		1.9	7.3	10.3	15.6	22.7	25.4	28.6
Other													
TSS (mg/L)	60	15	N/A				1	1	1	2	4	6.9	19
Turbidity (NTU)	60	0	>50	0	0		1.5	2.1	2.8	3.7	5.5	8.3	16.7
Nutrients (mg/L)													
NH3 as N	60	33	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.5
NO2 + NO3 as N	60	18	N/A				0.02	0.02	0.02	0.04	0.11	0.19	0.57
TKN as N	60	14	N/A				0.2	0.2	0.21	0.4	0.56	0.76	1.15
Total Phosphorus	52	3	N/A				0.02	0.03	0.03	0.04	0.06	0.08	0.3

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	31.1	1	1.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT CAPTAINS LANDING SUBDIVISION NR COKESBURY
Station #: B6215000 **Hydrologic Unit Code:** 03030004
Latitude: 35.48710 **Longitude:** -78.95160 **Stream class:** WS-IV
Agency: MCFRBA **NC stream index:** 18-(10.5)

Time period: 07/19/2010 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	9	0	<4	0	0		6	6	6.7	7.1	9.3	12	12
	9	0	<5	0	0		6	6	6.7	7.1	9.3	12	12
pH (SU)	9	0	<6	0	0		6.3	6.3	7	7.4	7.7	7.8	7.8
	9	0	>9	0	0		6.3	6.3	7	7.4	7.7	7.8	7.8
Spec. conductance (umhos/cm at 25°C)	9	0	N/A				148	148	174	190	214	217	217
Water Temperature (°C)	9	0	>32	1	11.1		7.4	7.4	18.8	27.2	29.2	32.1	32.1
Other													
TSS (mg/L)	6	1	N/A				2.5	2.5	3.6	5	6.5	8	8
Turbidity (NTU)	6	0	>50	0	0		3.8	3.8	3.9	5.2	5.7	6.1	6.1
Nutrients (mg/L)													
NH3 as N	6	4	N/A				0.02	0.02	0.02	0.02	0.04	0.04	0.04
NO2 + NO3 as N	6	0	>10	0	0		0.3	0.3	0.35	0.55	0.9	0.99	0.99
TKN as N	6	0	N/A				0.37	0.37	0.4	0.5	0.57	0.61	0.61
Total Phosphorus	6	0	N/A				0.06	0.06	0.06	0.07	0.09	0.11	0.11

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
6	83.4	0	0	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: AVENTS CRK AT SR 1418 NR COKESBURY

Station #: B6230000

Hydrologic Unit Code: 03030004

Latitude: 35.48772

Longitude: -78.90987

Stream class: WS-IV HQW

Agency: MCFRBA

NC stream index: 18-13-(2)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		4.3	6.6	7.8	9.6	11.3	12.6	13.9
	60	0	<5	1	1.7		4.3	6.6	7.8	9.6	11.3	12.6	13.9
pH (SU)	60	0	<6	5	8.3		5.6	6.1	6.3	6.6	6.9	7.3	7.7
	60	0	>9	0	0		5.6	6.1	6.3	6.6	6.9	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	60	1	N/A				47	57	58	62	65	71	76
Water Temperature (°C)	60	0	>32	0	0		2.5	5.2	9.4	13.7	21.8	24.1	27.3
Other													
TSS (mg/L)	60	6	N/A				1	1.1	2	3	5	11	48
Turbidity (NTU)	60	0	>50	2	3.3		2.8	3.5	4.6	5.8	7.4	12.8	58.8
Nutrients (mg/L)													
NH3 as N	60	51	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.09
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.06	0.13	0.26	0.45	0.73	0.94
TKN as N	60	17	N/A				0.2	0.2	0.2	0.33	0.56	0.8	1.7
Total Phosphorus	52	17	N/A				0.02	0.02	0.02	0.03	0.04	0.05	0.46

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
59	137.9	8	13.6	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: NEILLS CRK AT US 401 NR LILLINGTON
Station #: B6252000
Latitude: 35.42810 **Longitude:** -78.82400
Agency: MCFRBA

Hydrologic Unit Code: 03030004
Stream class: WS-IV
NC stream index: 18-16-(0.7)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	1	1.7		3.1	5.5	6.7	8.6	10.3	11.8	12.4
	60	0	<5	5	8.3		3.1	5.5	6.7	8.6	10.3	11.8	12.4
pH (SU)	60	0	<6	5	8.3		5.4	6	6.3	6.7	7.1	7.3	7.6
	60	0	>9	0	0		5.4	6	6.3	6.7	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				56	64	76	87	100	129	165
Water Temperature (°C)	60	0	>32	0	0		2.9	6.6	10.2	14.1	22.5	25.5	29.8
Other													
TSS (mg/L)	60	3	N/A				1	3	3	5	8.8	15.9	71
Turbidity (NTU)	60	0	>50	2	3.3		3	5.5	6.3	8.2	12.8	25.6	89.8
Nutrients (mg/L)													
NH3 as N	60	41	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.21
NO2 + NO3 as N	60	5	>10	0	0		0.02	0.05	0.14	0.35	0.55	0.69	0.96
TKN as N	60	3	N/A				0.2	0.23	0.3	0.4	0.62	0.8	1.37
Total Phosphorus	52	2	N/A				0.02	0.03	0.05	0.08	0.15	0.2	0.53

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	112.3	7	11.7	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: KENNETH CRK AT SR 1441 CHALYBEATE SPRINGS RD NR ANGIER

Station #: B6320000

Hydrologic Unit Code: 03030004

Latitude: 35.51435

Longitude: -78.78622

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-16-1-(2)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	3	5		3.2	5	6.2	8.1	10.3	11.9	13.1
	60	0	<5	5	8.3		3.2	5	6.2	8.1	10.3	11.9	13.1
pH (SU)	60	0	<6	8	13.3	85.8	5.4	5.8	6.1	6.5	6.8	7.1	7.3
	60	0	>9	0	0		5.4	5.8	6.1	6.5	6.8	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				56	73	88	100	113	150	267
Water Temperature (°C)	60	0	>32	0	0		3	6.4	10.1	14.1	22.1	25.2	26.8
Other													
TSS (mg/L)	60	2	N/A				1	1	2	5	7	17.7	178
Turbidity (NTU)	60	0	>50	4	6.7		3.1	4.8	6.1	8.5	12.3	30.5	267
Nutrients (mg/L)													
NH3 as N	60	25	N/A				0.02	0.02	0.02	0.03	0.05	0.1	0.93
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.09	0.25	0.45	1.07	1.54	6.54
TKN as N	60	5	N/A				0.14	0.2	0.34	0.48	0.64	0.92	1.97
Total Phosphorus	52	1	N/A				0.02	0.03	0.05	0.12	0.26	0.54	0.78

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	179.1	11	18.3	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT US 401 AT LILLINGTON

Station #: B6370000

Hydrologic Unit Code: 03030004

Latitude: 35.40653

Longitude: -78.81350

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-(16.7)

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.5	6.3	6.6	7.5	9.4	10.8	11.5
	85	0	<5	0	0		5.5	6.3	6.6	7.5	9.4	10.8	11.5
pH (SU)	85	0	<6	2	2.4		5.9	6.4	6.8	7.1	7.4	7.6	7.9
	85	0	>9	0	0		5.9	6.4	6.8	7.1	7.4	7.6	7.9
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				67	114	132	158	191	221	265
Water Temperature (°C)	85	0	>32	1	1.2		5.4	10.1	13.1	23.7	27.8	29.9	32.4
Other													
TSS (mg/L)	60	3	N/A				1	3.1	6	10	17	33.8	70
Turbidity (NTU)	60	0	>50	4	6.7		2.6	4.8	5.7	11.4	16.4	48.2	70.2
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.05	0.07	0.21
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.22	0.34	0.51	0.64	0.84	1.36
TKN as N	60	1	N/A				0.2	0.34	0.43	0.53	0.78	1	1.25
Total Phosphorus	52	0	N/A				0.05	0.06	0.07	0.08	0.1	0.15	0.43
Metals (ug/L)													
Aluminum, total (Al)	9	0	N/A				218	218	374	407	1053	3170	3170
Arsenic, total (As)	9	9	>10	0	0		10	10	10	10	10	10	10
Cadmium, total (Cd)	9	9	>2	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium, total (Cr)	9	9	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	9	4	>7	0	0		2	2	2	3	3	4	4
Iron, total (Fe)	9	0	>1000	2	22.2		414	414	588	769	1454	2640	2640
Lead, total (Pb)	9	0	>25	0	0		1	1	1	1	1	2	2
Manganese, total (Mn)	9	0	>200	0	0		39	39	62	69	118	184	184
Mercury, total (Hg)	9	0	>0.012	0	0		0.002	0.002	0.003	0.004	0.007	0.009	0.009
Nickel, total (Ni)	9	0	>25	0	0		1	1	1	1	1	2	2
Zinc, total (Zn)	9	8	>50	0	0		10	10	10	10	10	15	15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
60	102.7	10	16.7										

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: BUIES CRK AT KEITH HILLS GOLF COURSE MAINT SHOP AT BUIES CREEK
Station #: B6485000 **Hydrologic Unit Code:** 03030004
Latitude: 35.39070 **Longitude:** -78.75270 **Stream class:** WS-IV
Agency: MCFRBA **NC stream index:** 18-18

Time period: 01/20/2006 to 12/21/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	5	8.3		1.2	4.1	5.4	7.6	10.3	11.4	12.8
	60	0	<5	14	23.3	> 99.9	1.2	4.1	5.4	7.6	10.3	11.4	12.8
pH (SU)	60	0	<6	10	16.7	> 99.9	4.8	5.7	6.1	6.5	6.7	7.2	7.5
	60	0	>9	0	0		4.8	5.7	6.1	6.5	6.7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				58	71	76	84	102	142	243
Water Temperature (°C)	60	0	>32	0	0		3.3	7	10.2	14.9	22.7	26.1	29.7
Other													
TSS (mg/L)	60	4	N/A				1	1.1	2	4	5.8	8	72
Turbidity (NTU)	60	0	>50	1	1.7		1.4	2.6	3.7	4.6	7	10.3	83.7
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.05	0.08	0.2
NO2 + NO3 as N	60	3	>10	0	0		0.02	0.02	0.05	0.08	0.18	0.32	0.64
TKN as N	60	1	N/A				0.2	0.33	0.44	0.54	0.89	1.1	1.59
Total Phosphorus	52	5	N/A				0.02	0.02	0.03	0.05	0.07	0.11	0.47

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	159.8	12	20	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: UPPER LITTLE RIV AT SR 1222 NR BROADWAY

Station #: B6820050

Hydrologic Unit Code: 03030004

Latitude: 35.40674

Longitude: -79.06280

Stream class: C

Agency: MCFRBA

NC stream index: 18-20-(8)

Time period: 07/02/2008 to 12/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	2	6.7		3.3	4.4	6	7.9	10.1	11	12.3
	30	0	<5	4	13.3	82.5	3.3	4.4	6	7.9	10.1	11	12.3
pH (SU)	30	0	<6	9	30	>99.9	5.4	5.7	6	6.2	6.7	6.9	7.3
	30	0	>9	0	0		5.4	5.7	6	6.2	6.7	6.9	7.3
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				49	54	64	84	122	134	193
Water Temperature (°C)	30	0	>32	0	0		2.6	7.1	9.5	17	23.4	26.9	27.9
Other													
TSS (mg/L)	30	3	N/A				1	1	2.4	5	9	11.9	22
Turbidity (NTU)	30	0	>50	0	0		2	2.7	4.5	6.3	10.4	22.2	33.2
Nutrients (mg/L)													
NH3 as N	30	17	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.18
NO2 + NO3 as N	30	0	N/A				0.05	0.08	0.14	0.25	0.48	1	1.17
TKN as N	30	2	N/A				0.2	0.28	0.42	0.53	0.76	1.07	3.67
Total Phosphorus	22	2	N/A				0.02	0.02	0.05	0.11	0.22	0.36	0.39

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
30	88	0	0	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: UPPER LITTLE RIV AT SR 2021 NR LILLINGTON

Station #: B6830000

Hydrologic Unit Code: 03030004

Latitude: 35.32656

Longitude: -78.72378

Stream class: WS-IV

Agency: MCFRBA

NC stream index: 18-20-(24.5)

Time period: 01/19/2006 to 12/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5.8	6.4	7	8.2	9.6	11.9	12.4
	60	0	<5	0	0		5.8	6.4	7	8.2	9.6	11.9	12.4
pH (SU)	60	0	<6	24	40	> 99.9	4.6	5.5	5.9	6.1	6.7	7	7.5
	60	0	>9	0	0		4.6	5.5	5.9	6.1	6.7	7	7.5
Spec. conductance (umhos/cm at 25°C)	60	3	N/A				47	50	57	66	84	136	218
Water Temperature (°C)	60	0	>32	0	0		1.7	6.1	9.4	15.7	23.8	26.2	27.8
Other													
TSS (mg/L)	60	12	N/A				1	1	1	2.5	5	8.9	47
Turbidity (NTU)	60	0	>50	0	0		1	1.9	2.8	4.5	7.3	10.8	13.7
Nutrients (mg/L)													
NH3 as N	60	53	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.07
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.1	0.15	0.24	0.33	0.53	1.09
TKN as N	60	5	N/A				0.2	0.2	0.32	0.4	0.55	0.69	1.32
Total Phosphorus	52	22	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	84.9	4	6.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT NC 217 AT ERWIN
Station #: B6840000
Latitude: 35.31224 **Longitude:** -78.69250
Agency: MCFRBA

Hydrologic Unit Code: 03030004
Stream class: WS-V
NC stream index: 18-(20.7)

Time period: 01/19/2006 to 12/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6	6.8	7.2	7.8	10	11.7	13.4
	85	0	<5	0	0		6	6.8	7.2	7.8	10	11.7	13.4
pH (SU)	85	0	<6	1	1.2		6	6.4	6.8	7.2	7.5	7.7	8.2
	85	0	>9	0	0		6	6.4	6.8	7.2	7.5	7.7	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				64	91	128	151	181	201	252
Water Temperature (°C)	85	0	>32	0	0		3.2	8.8	12.8	24.5	28.4	30	31.8
Other													
TSS (mg/L)	60	4	N/A				1	2.1	5	8	18	34	181
Turbidity (NTU)	60	0	>50	5	8.3		2	3.1	4.9	8.9	20.5	45.1	104
Nutrients (mg/L)													
NH3 as N	60	37	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.1
NO2 + NO3 as N	60	3	>10	0	0		0.02	0.29	0.39	0.49	0.61	0.74	1.37
TKN as N	60	4	N/A				0.2	0.3	0.4	0.56	0.75	0.98	1.69
Total Phosphorus	52	0	N/A				0.03	0.06	0.07	0.08	0.11	0.16	0.3
Metals (ug/L)													
Aluminum, total (Al)	9	0	N/A				132	132	229	332	732	1280	1280
Arsenic, total (As)	9	9	>10	0	0		10	10	10	10	10	10	10
Cadmium, total (Cd)	9	9	>2	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium, total (Cr)	9	9	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	9	7	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	9	0	>1000	2	22.2		377	377	460	694	944	2060	2060
Lead, total (Pb)	9	3	>25	0	0		0	0	0	1	1	2	2
Manganese, total (Mn)	9	0	>200	0	0		18	18	30	37	49	88	88
Mercury, total (Hg)	9	0	>0.012	0	0		0.001	0.001	0.002	0.003	0.005	0.011	0.011
Nickel, total (Ni)	9	1	>25	0	0		0	0	1	1	1	1	1
Zinc, total (Zn)	9	7	>50	0	0		10	10	10	10	10	16	16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
60	72.7	9	15										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: LOWER LITTLE RIV AT SR 1451 AT MANCHESTER

Station #: B7280000

Hydrologic Unit Code: 03030004

Latitude: 35.19323

Longitude: -78.98561

Stream class: C

Agency: MCFRBA

NC stream index: 18-23-(24)

Time period: 01/19/2006 to 06/06/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		6.7	7.6	7.9	8.8	10.9	11.9	13
	30	0	<5	0	0		6.7	7.6	7.9	8.8	10.9	11.9	13
pH (SU)	30	0	<6	13	43.3	> 99.9	5	5.1	5.6	6.1	6.5	7.1	7.3
	30	0	>9	0	0		5	5.1	5.6	6.1	6.5	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	30	13	N/A				47	47	47	47	58	74	100
Water Temperature (°C)	30	0	>32	0	0		4.6	6.5	10.2	15.2	22.6	26.3	27.3
Other													
TSS (mg/L)	30	1	N/A				1	1.1	2	3.5	6	7.9	28
Turbidity (NTU)	30	0	>50	0	0		2.3	2.5	3	3.4	5	8	23.6
Nutrients (mg/L)													
NH3 as N	30	18	N/A				0.02	0.02	0.02	0.02	0.03	0.04	0.12
NO2 + NO3 as N	30	1	N/A				0.02	0.28	0.4	0.5	1.06	2.41	4.18
TKN as N	30	7	N/A				0.2	0.2	0.22	0.38	0.5	0.6	0.71
Total Phosphorus	30	0	N/A				0.01	0.03	0.04	0.08	0.15	0.23	0.32

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
30	93.4	4	13.3

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: LOWER LITTLE RIV AT NC 210 NR SPRING LAKE

Station #: B7300000

Hydrologic Unit Code: 03030004

Latitude: 35.20205

Longitude: -78.95300

Stream class: C

Agency: MCFRBA

NC stream index: 18-23-(24)

Time period: 01/19/2006 to 12/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.7	7	7.5	8.6	10.6	11.8	13.4
	60	0	<5	0	0		6.7	7	7.5	8.6	10.6	11.8	13.4
pH (SU)	60	0	<6	32	53.3	> 99.9	4.3	5	5.4	5.9	6.5	6.7	7.2
	60	0	>9	0	0		4.3	5	5.4	5.9	6.5	6.7	7.2
Spec. conductance (umhos/cm at 25°C)	60	33	N/A				47	47	47	47	56	91	136
Water Temperature (°C)	60	0	>32	0	0		2.4	6.3	9.9	15.9	23.3	25.9	28
Other													
TSS (mg/L)	60	7	N/A				1	1	2	4	6	9.9	46
Turbidity (NTU)	60	0	>50	0	0		1.5	2.3	2.9	4.2	6.2	9	39.8
Nutrients (mg/L)													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.03	0.06	0.17
NO2 + NO3 as N	60	1	N/A				0.02	0.21	0.3	0.38	0.67	1.94	5.84
TKN as N	60	12	N/A				0.2	0.2	0.29	0.4	0.51	0.67	0.89
Total Phosphorus	52	3	N/A				0.02	0.02	0.04	0.08	0.16	0.32	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	108.8	10	16.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: LOWER LITTLE RIV AT SR 1609 NR WALKERTOWN

Station #: B7319100

Hydrologic Unit Code: 03030004

Latitude: 35.25982

Longitude: -78.82307

Stream class: C

Agency: MCFRBA

NC stream index: 18-23-24

Time period: 07/02/2008 to 12/16/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		6.5	6.8	7.2	8.7	10.4	12	13.5
	30	0	<5	0	0		6.5	6.8	7.2	8.7	10.4	12	13.5
pH (SU)	30	0	<6	20	66.7	> 99.9	4.2	4.4	5.3	5.6	6.4	6.8	6.9
	30	0	>9	0	0		4.2	4.4	5.3	5.6	6.4	6.8	6.9
Spec. conductance (umhos/cm at 25°C)	30	15	N/A				47	47	47	47	71	94	105
Water Temperature (°C)	30	0	>32	0	0		2.3	6.5	9.4	17.3	24.2	27	28
Other													
TSS (mg/L)	30	3	N/A				1	2	2.4	4.5	8	12.6	57
Turbidity (NTU)	30	0	>50	0	0		1.8	2	3	5	7.2	10.9	41.2
Nutrients (mg/L)													
NH3 as N	30	23	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.08
NO2 + NO3 as N	30	0	N/A				0.05	0.19	0.3	0.56	0.95	1.81	2.95
TKN as N	30	3	N/A				0.2	0.2	0.33	0.46	0.56	0.79	1.08
Total Phosphorus	22	1	N/A				0.02	0.02	0.05	0.11	0.19	0.25	0.32

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
30	119.9	2	6.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT HOFFER WTP INTAKE AT FAYETTEVILLE

Station #: B7480000

Hydrologic Unit Code: 03030004

Latitude: 35.08143

Longitude: -78.86355

Stream class: WS-IV CA

Agency: MCFRBA

NC stream index: 18-(25.5)

Time period: 01/09/2006 to 12/15/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	251	0	<4	0	0		5.4	6.1	6.6	7.5	9.2	10.7	12.4
	251	0	<5	0	0		5.4	6.1	6.6	7.5	9.2	10.7	12.4
pH (SU)	251	0	<6	5	2		5.9	6.3	6.7	7	7.3	7.5	8.7
	251	0	>9	0	0		5.9	6.3	6.7	7	7.3	7.5	8.7
Spec. conductance (umhos/cm at 25°C)	251	0	N/A				56	94	109	130	149	180	224
Water Temperature (°C)	251	0	>32	0	0		3.5	8.2	12.8	22.6	27.5	30	31.9
Other													
TSS (mg/L)	60	2	N/A				1	3	6	8.5	16.8	27.8	143
Turbidity (NTU)	60	0	>50	1	1.7		1.7	4.4	5.9	8.2	17.3	24.2	129
Nutrients (mg/L)													
NH3 as N	60	38	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.29
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.33	0.44	0.55	0.67	0.88	1.29
TKN as N	60	7	N/A				0.2	0.2	0.31	0.5	0.59	0.74	1.87
Total Phosphorus	51	3	N/A				0.02	0.05	0.08	0.09	0.11	0.13	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	63.1	4	6.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT I 95 BELOW FAYETTEVILLE

Station #: B7500000

Hydrologic Unit Code: 03030004

Latitude: 34.98200

Longitude: -78.84782

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26)

Time period: 01/09/2006 to 12/15/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	253	0	<4	0	0		5.2	5.9	6.4	7.3	9.1	10.5	12.2
	253	0	<5	0	0		5.2	5.9	6.4	7.3	9.1	10.5	12.2
pH (SU)	253	0	<6	6	2.4		5.8	6.3	6.7	7	7.2	7.4	8.8
	253	0	>9	0	0		5.8	6.3	6.7	7	7.2	7.4	8.8
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				73	102	111	131	157	184	237
Water Temperature (°C)	253	0	>32	0	0		3.3	8.3	13.1	22.6	27.2	29.9	31.8
Other													
TSS (mg/L)	60	2	N/A				1	2.7	6.2	8	13	22.8	71
Turbidity (NTU)	60	0	>50	1	1.7		2.8	4.9	6.7	8.8	13.3	22.5	86
Nutrients (mg/L)													
NH3 as N	60	36	N/A				0.02	0.02	0.02	0.02	0.03	0.07	0.13
NO2 + NO3 as N	60	1	N/A				0.02	0.43	0.54	0.66	0.85	1.13	1.83
TKN as N	60	9	N/A				0.2	0.2	0.41	0.53	0.67	0.8	1.22
Total Phosphorus	51	1	N/A				0.02	0.06	0.08	0.1	0.12	0.16	0.33
Metals (ug/L)													
Aluminum, total (Al)	9	0	N/A				169	169	239	289	402	1200	1200
Arsenic, total (As)	9	9	>10	0	0		10	10	10	10	10	10	10
Cadmium, total (Cd)	9	9	>2	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium, total (Cr)	9	9	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	9	7	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	9	0	>1000	1	11.1		544	544	562	675	774	1210	1210
Lead, total (Pb)	9	0	>25	0	0		1	1	1	1	1	3	3
Mercury, total (Hg)	9	0	>0.012	0	0		0.002	0.002	0.002	0.003	0.003	0.004	0.004
Nickel, total (Ni)	9	0	>88	0	0		1	1	1	1	1	1	1
Zinc, total (Zn)	9	8	>50	0	0		10	10	10	10	10	10	10

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	65.5	6	10	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CROSS CRK AT CROSS CREEK PARK AT FAYETTEVILLE

Station #: B7547000

Hydrologic Unit Code: 03030004

Latitude: 35.05386

Longitude: -78.87691

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-(3)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		7.1	8.2	8.7	9.9	11.4	12.6	15.4
	60	0	<5	0	0		7.1	8.2	8.7	9.9	11.4	12.6	15.4
pH (SU)	60	0	<6	5	8.3		5.5	6	6.3	6.6	6.9	7.1	7.4
	60	0	>9	0	0		5.5	6	6.3	6.6	6.9	7.1	7.4
Spec. conductance (umhos/cm at 25°C)	60	3	N/A				47	51	55	60	67	74	105
Water Temperature (°C)	60	0	>32	0	0		1.7	7.7	11.7	17.4	22.6	26.7	28.1
Other													
TSS (mg/L)	60	12	N/A				1	1	1	3	4.8	6.9	23
Turbidity (NTU)	60	0	>50	0	0		2.5	2.9	3.5	4.3	5.6	10.5	25.6
Nutrients (mg/L)													
NH3 as N	60	24	N/A				0.02	0.02	0.02	0.03	0.06	0.09	0.39
NO2 + NO3 as N	60	1	N/A				0.02	0.09	0.12	0.19	0.29	0.39	0.5
TKN as N	60	15	N/A				0.12	0.2	0.2	0.31	0.42	0.57	1.08
Total Phosphorus	51	23	N/A				0.02	0.02	0.02	0.02	0.03	0.05	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	219.4	22	36.7	99.9

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: BLOUNTS CRK AT US 301A PERSON ST AT FAYETTEVILLE

Station #: B7584000

Hydrologic Unit Code: 03030004

Latitude: 35.04976

Longitude: -78.87033

Stream class: C

Agency: MCFRBA

NC stream index: 18-27-5

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		4.9	7.2	7.8	9.1	10.6	11.6	13.5
	60	0	<5	1	1.7		4.9	7.2	7.8	9.1	10.6	11.6	13.5
pH (SU)	60	0	<6	13	21.7	> 99.9	5.5	5.9	6	6.4	6.6	6.9	8.1
	60	0	>9	0	0		5.5	5.9	6	6.4	6.6	6.9	8.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				52	63	75	80	87	92	185
Water Temperature (°C)	60	0	>32	0	0		3.4	8.8	12.4	18	22.7	26.6	28.8
Other													
TSS (mg/L)	60	6	N/A				1	1	2.5	4	7	17.4	129
Turbidity (NTU)	60	0	>50	1	1.7		2.8	3.4	4.3	6.2	8.9	14.5	97.9
Nutrients (mg/L)													
NH3 as N	60	8	N/A				0.02	0.02	0.03	0.07	0.1	0.12	0.53
NO2 + NO3 as N	60	1	N/A				0.02	0.19	0.29	0.38	0.47	0.51	0.65
TKN as N	60	9	N/A				0.2	0.2	0.26	0.34	0.48	0.68	1.98
Total Phosphorus	51	16	N/A				0.02	0.02	0.02	0.03	0.04	0.09	0.13

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	492.5	30	50	100

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: UT TO CROSS CRK OFF ANNE ST AT FAYETTEVILLE
Station #: B7584800 **Hydrologic Unit Code:** 03030004
Latitude: 35.06282 **Longitude:** -78.87182 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-27-(3)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	5	8.3		0.8	4.5	5.4	7.1	9.2	9.8	11.7
	60	0	<5	13	21.7	> 99.9	0.8	4.5	5.4	7.1	9.2	9.8	11.7
pH (SU)	60	0	<6	0	0		6.1	6.3	6.7	6.8	6.9	7	7.6
	60	0	>9	0	0		6.1	6.3	6.7	6.8	6.9	7	7.6
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				88	175	205	233	254	291	517
Water Temperature (°C)	60	0	>32	0	0		5.4	9.2	12.7	17	21.5	24.6	25.4
Other													
TSS (mg/L)	60	3	N/A				1	2.1	4	7	9	13	49
Turbidity (NTU)	60	0	>50	1	1.7		6	9	12.2	14.8	19	24.2	110
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.02	0.04	0.06	0.1	0.13	0.23	0.67
NO2 + NO3 as N	60	1	N/A				0.02	0.09	0.16	0.25	0.39	0.59	1.42
TKN as N	60	4	N/A				0.2	0.26	0.51	0.62	0.85	1.26	1.51
Total Phosphorus	51	8	N/A				0.02	0.02	0.02	0.04	0.06	0.1	0.32

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	635.1	35	58.3	100

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: UT TO CROSS CRK AT CROSS CREEK WRF AT FAYETTEVILLE
Station #: B7584900 **Hydrologic Unit Code:** 03030004
Latitude: 35.05991 **Longitude:** -78.86468 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-27-(3)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	10	17.2	> 99.9	0.6	3.7	4.5	6	8.4	9.4	11.3
	58	0	<5	20	34.5	> 99.9	0.6	3.7	4.5	6	8.4	9.4	11.3
pH (SU)	58	0	<6	0	0		6.1	7	7.4	7.6	7.8	7.9	8.2
	58	0	>9	0	0		6.1	7	7.4	7.6	7.8	7.9	8.2
Spec. conductance (umhos/cm at 25°C)	57	1	N/A				47	598	748	974	1126	1506	1973
Water Temperature (°C)	58	0	>32	0	0		2	5.9	9.9	14.6	21	23.8	26
Other													
TSS (mg/L)	58	2	N/A				1	4	5	10	17.2	27.1	66
Turbidity (NTU)	58	0	>50	2	3.4		2.8	7	11.3	18.9	25	30.3	78.3
Nutrients (mg/L)													
NH3 as N	58	1	N/A				0.02	0.3	2.41	7.34	16.65	23.02	36
NO2 + NO3 as N	58	1	N/A				0.02	0.45	0.95	1.92	3.98	5.11	12.5
TKN as N	58	0	N/A				0.5	2.66	4.73	9.08	18.73	31.2	82.9
Total Phosphorus	49	0	N/A				0.02	0.04	0.07	0.09	0.14	0.23	0.57

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
57	477.5	25	43.9	100

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CROSS CRK AT US 301 BUS AND I 95 BUS AT FAYETTEVILLE
Station #: B7590000 **Hydrologic Unit Code:** 03030004
Latitude: 35.05467 **Longitude:** -78.86223 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-27-(3)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		4.7	7.4	8.3	9.2	10.9	12.2	14.6
	60	0	<5	1	1.7		4.7	7.4	8.3	9.2	10.9	12.2	14.6
pH (SU)	60	0	<6	2	3.3		5.9	6.3	6.6	6.9	7.2	7.4	7.8
	60	0	>9	0	0		5.9	6.3	6.6	6.9	7.2	7.4	7.8
Spec. conductance (umhos/cm at 25°C)	60	3	N/A				47	52	66	73	81	92	1189
Water Temperature (°C)	60	0	>32	0	0		2.1	7.6	11.7	17.1	23	26.6	28.8
Other													
TSS (mg/L)	60	11	N/A				1	1	2	3	5.8	16.6	40
Turbidity (NTU)	60	0	>50	0	0		2.2	2.8	3.7	4.7	6.1	16.5	35.6
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.08	0.11	1.5
NO2 + NO3 as N	60	1	N/A				0.02	0.15	0.21	0.28	0.36	0.46	1.9
TKN as N	60	10	N/A				0.18	0.2	0.24	0.32	0.49	0.69	17.9
Total Phosphorus	51	24	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.27
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
59	396.6	25	42.4	100									

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: ROCKFISH CRK AT US 401 BYPASS NR RAEFORD

Station #: B7679300

Hydrologic Unit Code: 03030004

Latitude: 34.99932

Longitude: -79.21514

Stream class: B

Agency: MCFRBA

NC stream index: 18-31-(12)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		5	7.2	7.9	8.8	10.3	11.7	12.8
	60	0	<5	0	0		5	7.2	7.9	8.8	10.3	11.7	12.8
pH (SU)	60	0	<6	60	100	> 99.9	3.5	3.6	3.8	4	4.3	4.9	5.3
	60	0	>9	0	0		3.5	3.6	3.8	4	4.3	4.9	5.3
Spec. conductance (umhos/cm at 25°C)	60	57	N/A				47	47	47	47	47	47	62
Water Temperature (°C)	60	0	>32	0	0		4.3	8	11.4	16.4	20.7	24.3	25.5
Other													
TSS (mg/L)	60	9	N/A				1	1	2	3	5	7.9	34
Turbidity (NTU)	60	0	>50	0	0		1.4	1.7	2.2	2.6	3.6	5.7	23.1
Nutrients (mg/L)													
NH3 as N	60	50	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
NO2 + NO3 as N	60	2	N/A				0.02	0.03	0.04	0.06	0.08	0.1	0.8
TKN as N	60	29	N/A				0.12	0.2	0.2	0.2	0.31	0.4	0.97
Total Phosphorus	51	42	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.2

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	66.2	3	5	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: ROCKFISH CRK AT SR 1432 NR RAEFORD
Station #: B7700000
Latitude: 34.96826 **Longitude:** -79.10959
Agency: MCFRBA

Hydrologic Unit Code: 03030004
Stream class: B
NC stream index: 18-31-(18)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		6.5	6.8	7.6	8.5	10.1	11.3	12.8
	60	0	<5	0	0		6.5	6.8	7.6	8.5	10.1	11.3	12.8
pH (SU)	60	0	<6	48	80	> 99.9	4.3	4.7	5	5.5	5.8	6.2	6.7
	60	0	>9	0	0		4.3	4.7	5	5.5	5.8	6.2	6.7
Spec. conductance (umhos/cm at 25°C)	60	39	N/A				47	47	47	47	54	67	80
Water Temperature (°C)	60	0	>32	0	0		3.9	7.9	11.5	16.9	21.1	25.1	26.5
Other													
TSS (mg/L)	60	9	N/A				1	2	2	4	5	9.8	19
Turbidity (NTU)	60	0	>50	0	0		1.4	2	2.3	3.4	4.1	7	25.2
Nutrients (mg/L)													
NH3 as N	60	32	N/A				0.02	0.02	0.02	0.02	0.04	0.1	0.14
NO2 + NO3 as N	60	1	N/A				0.02	0.19	0.32	0.44	0.58	0.88	1.35
TKN as N	60	12	N/A				0.2	0.2	0.23	0.32	0.45	0.68	1.22
Total Phosphorus	51	1	N/A				0.02	0.03	0.06	0.13	0.22	0.48	0.74

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	154.7	14	23.3	79.3

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: ROCKFISH CRK AT NC 87 NR FAYETTEVILLE

Station #: B8230000

Hydrologic Unit Code: 03030004

Latitude: 34.95608

Longitude: -78.84405

Stream class: C

Agency: MCFRBA

NC stream index: 18-31-(23)

Time period: 01/09/2006 to 12/28/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	58	0	<4	0	0		6.9	7.3	7.8	9.2	10.7	12.1	13.2
	58	0	<5	0	0		6.9	7.3	7.8	9.2	10.7	12.1	13.2
pH (SU)	58	0	<6	41	70.7	> 99.9	4.6	5.1	5.3	5.6	6.1	6.4	7.2
	58	0	>9	0	0		4.6	5.1	5.3	5.6	6.1	6.4	7.2
Spec. conductance (umhos/cm at 25°C)	58	49	N/A				47	47	47	47	47	55	60
Water Temperature (°C)	58	0	>32	0	0		3.4	8	11.8	17.9	22.7	26.5	28.8
Other													
TSS (mg/L)	58	2	N/A				1	3	4	7	10	14	70
Turbidity (NTU)	58	0	>50	1	1.7		3.4	4.1	4.7	6.5	8	12.6	92
Nutrients (mg/L)													
NH3 as N	58	43	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.07
NO2 + NO3 as N	58	1	N/A				0.02	0.15	0.21	0.28	0.36	0.48	0.62
TKN as N	58	9	N/A				0.19	0.2	0.23	0.32	0.47	0.73	11.2
Total Phosphorus	49	2	N/A				0.02	0.03	0.03	0.06	0.09	0.11	0.34

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
58	77	5	8.6	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT DUPONT WATER INTAKE UPS LOCK AND DAM 3
Station #: B8290000 **Hydrologic Unit Code:** 03030005
Latitude: 34.84945 **Longitude:** -78.82629 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-(26)

Time period: 01/09/2006 to 12/15/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	253	0	<4	0	0		4.3	5.5	6.2	7.2	8.7	10.5	12.5
	253	0	<5	7	2.8		4.3	5.5	6.2	7.2	8.7	10.5	12.5
pH (SU)	253	0	<6	10	4		5.5	6.1	6.4	6.8	7.2	7.4	8.7
	253	0	>9	0	0		5.5	6.1	6.4	6.8	7.2	7.4	8.7
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				51	98	108	124	144	163	212
Water Temperature (°C)	253	0	>32	0	0		3.3	8	13.2	22.4	27.6	29.1	31.1
Other													
Chlorophyll a (ug/L)	47	3	>40	3	6.4		1	1	3	6	18	34	44
TSS (mg/L)	60	1	N/A				1	4	6	10	13.8	22.9	466
Turbidity (NTU)	60	0	>50	1	1.7		3.1	4.4	6.9	10.4	13.3	24	247
Nutrients (mg/L)													
NH3 as N	60	31	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.2
NO2 + NO3 as N	60	1	N/A				0.02	0.46	0.56	0.7	0.85	1.19	1.55
TKN as N	60	6	N/A				0.2	0.2	0.38	0.52	0.71	0.97	1.5
Total Phosphorus	51	0	N/A				0.04	0.07	0.08	0.12	0.14	0.18	0.38
Metals (ug/L)													
Aluminum, total (Al)	9	0	N/A				151	151	190	284	366	1040	1040
Arsenic, total (As)	9	9	>10	0	0		10	10	10	10	10	10	10
Cadmium, total (Cd)	9	9	>2	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium, total (Cr)	9	9	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	9	8	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	9	0	>1000	1	11.1		543	543	584	659	755	1120	1120
Lead, total (Pb)	9	0	>25	0	0		1	1	1	1	1	1	1
Mercury, total (Hg)	9	0	>0.012	0	0		0.002	0.002	0.002	0.003	0.004	0.005	0.005
Nickel, total (Ni)	9	0	>88	0	0		1	1	1	1	1	2	2
Zinc, total (Zn)	9	7	>50	0	0		10	10	10	10	11	21	21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:										
59	52.5	3	5.1										

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf: States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT POWER LINES NR TOLARSVILLE
Station #: B8302000 **Hydrologic Unit Code:** 03030005
Latitude: 34.78434 **Longitude:** -78.79825 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-(26)

Time period: 01/04/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		5	6	6.3	7.4	9.1	10.6	12.7
	255	0	<5	0	0		5	6	6.3	7.4	9.1	10.6	12.7
pH (SU)	255	0	<6	14	5.5		4.6	6.1	6.5	6.7	6.9	7.2	8.1
	255	0	>9	0	0		4.6	6.1	6.5	6.7	6.9	7.2	8.1
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				53	91	107	127	145	175	232
Water Temperature (°C)	255	0	>32	0	0		3.4	8.9	14.4	22.4	27.3	28.9	31.1
Other													
TSS (mg/L)	60	2	N/A				1	3.1	5.2	8	12	27.9	43
Turbidity (NTU)	60	0	>50	0	0		2.7	4.9	6.8	9	12.2	22.5	34.3
Nutrients (mg/L)													
NH3 as N	60	18	N/A				0.02	0.02	0.02	0.05	0.09	0.13	0.29
NO2 + NO3 as N	60	0	N/A				0.26	0.5	0.58	0.74	0.92	1.19	1.83
TKN as N	60	3	N/A				0.2	0.31	0.41	0.59	0.69	0.85	1
Total Phosphorus	51	1	N/A				0.02	0.08	0.1	0.14	0.18	0.24	0.51

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	32.1	4	6.7	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT SR 1316 AT TAR HEEL

Station #: B8305000

Hydrologic Unit Code: 03030005

Latitude: 34.74477

Longitude: -78.78563

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26)

Time period: 01/04/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		5.1	5.9	6.4	7.3	9	10.6	12.7
	255	0	<5	0	0		5.1	5.9	6.4	7.3	9	10.6	12.7
pH (SU)	255	0	<6	8	3.1		5.5	6.1	6.4	6.6	6.8	7.1	8.5
	255	0	>9	0	0		5.5	6.1	6.4	6.6	6.8	7.1	8.5
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				62	99	110	136	150	189	231
Water Temperature (°C)	255	0	>32	0	0		3.4	8.8	14.5	22.5	27.4	29.2	31.2
Other													
Chlorophyll a (ug/L)	46	2	>40	1	2.2		1	1	2	5	11	19	44
TSS (mg/L)	60	1	N/A				1	4	6.2	9	13.8	26.7	45
Turbidity (NTU)	60	0	>50	0	0		2.7	6	6.7	9.5	12.5	30.8	39.9
Nutrients (mg/L)													
NH3 as N	60	17	N/A				0.02	0.02	0.02	0.04	0.08	0.11	0.27
NO2 + NO3 as N	60	0	N/A				0.36	0.54	0.71	1.06	1.28	1.68	2.56
TKN as N	60	5	N/A				0.2	0.24	0.41	0.53	0.69	0.83	1.17
Total Phosphorus	51	1	N/A				0.02	0.1	0.12	0.18	0.26	0.35	0.4

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	28.9	2	3.3	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT RM 80 NR RUSKIN
Station #: B8306000
Latitude: 34.68308 **Longitude:** -78.68465
Agency: MCFRBA

Hydrologic Unit Code: 03030005
Stream class: C
NC stream index: 18-(26)

Time period: 01/04/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		4.8	5.7	6.5	7	8.9	10.2	12
	255	0	<5	6	2.4		4.8	5.7	6.5	7	8.9	10.2	12
pH (SU)	255	0	<6	18	7.1		5.6	6.1	6.3	6.7	6.9	7.1	8.9
	255	0	>9	0	0		5.6	6.1	6.3	6.7	6.9	7.1	8.9
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				64	96	108	134	151	187	234
Water Temperature (°C)	255	0	>32	0	0		3.6	8.8	14.2	22.8	27.8	29	31
Other													
TSS (mg/L)	60	1	N/A				1	4.1	7	8.5	13	19.8	53
Turbidity (NTU)	60	0	>50	0	0		3.1	5.5	7.4	9.1	13.4	30.4	47
Nutrients (mg/L)													
NH3 as N	60	19	N/A				0.02	0.02	0.02	0.04	0.08	0.11	0.14
NO2 + NO3 as N	60	0	N/A				0.38	0.53	0.64	0.96	1.28	1.58	2.28
TKN as N	60	3	N/A				0.2	0.32	0.43	0.6	0.72	0.83	1.01
Total Phosphorus	51	0	N/A				0.09	0.1	0.13	0.19	0.26	0.34	0.45

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	26.3	1	1.7	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: HARRISON CRK AT SR 1320 AT BURNEY
Station #: B8315000
Latitude: 34.73155 **Longitude:** -78.71616
Agency: MCFRBA

Hydrologic Unit Code: 03030005
Stream class: C
NC stream index: 18-(42)

Time period: 02/14/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	0	0		4.1	5.4	6	7.1	8.4	10.8	12
	59	0	<5	2	3.4		4.1	5.4	6	7.1	8.4	10.8	12
pH (SU)	59	0	<6	57	96.6	> 99.9	2.8	3.5	3.9	4.2	4.9	5.8	6.3
	59	0	>9	0	0		2.8	3.5	3.9	4.2	4.9	5.8	6.3
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				53	58	63	68	78	85	102
Water Temperature (°C)	59	0	>32	0	0		2.5	5.8	10.6	16.8	21.3	24.2	25.4
Other													
TSS (mg/L)	59	8	N/A				1	1	2	3	5	7	19
Turbidity (NTU)	59	0	>50	0	0		1.4	1.8	2.3	3.1	4	4.8	10.1
Nutrients (mg/L)													
NH3 as N	59	22	N/A				0.02	0.02	0.02	0.03	0.06	0.11	0.24
NO2 + NO3 as N	59	0	N/A				0.03	0.06	0.11	0.21	0.55	1.39	1.63
TKN as N	59	2	N/A				0.2	0.45	0.6	0.84	1.03	1.55	2.5
Total Phosphorus	50	2	N/A				0.02	0.02	0.06	0.08	0.12	0.15	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
59	99.2	6	10.2

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT US 701 AT ELIZABETHTOWN

Station #: B8320000

Hydrologic Unit Code: 03030005

Latitude: 34.63239

Longitude: -78.60286

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26)

Time period: 01/04/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		4.3	5.4	6.1	6.9	8.8	10.4	11.9
	255	0	<5	11	4.3		4.3	5.4	6.1	6.9	8.8	10.4	11.9
pH (SU)	255	0	<6	18	7.1		5.6	6.1	6.3	6.7	6.9	7.1	9
	255	0	>9	0	0		5.6	6.1	6.3	6.7	6.9	7.1	9
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				61	97	109	134	150	182	232
Water Temperature (°C)	255	0	>32	0	0		3.5	8.7	14.2	22.8	27.6	29	31.5
Other													
TSS (mg/L)	60	0	N/A				2	4	6	8.5	12	24.9	53
Turbidity (NTU)	60	0	>50	1	1.7		2.7	5.4	7.4	9.4	14.2	30.7	53.4
Nutrients (mg/L)													
NH3 as N	60	22	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.26
NO2 + NO3 as N	60	0	N/A				0.36	0.51	0.63	0.95	1.21	1.45	2.1
TKN as N	60	3	N/A				0.2	0.26	0.42	0.6	0.73	0.84	1.03
Total Phosphorus	51	0	N/A				0.09	0.1	0.13	0.2	0.24	0.29	0.41

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	26	1	1.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV ABOVE LOCK AND DAM 2

Station #: B8339000

Hydrologic Unit Code: 03030005

Latitude: 34.62762

Longitude: -78.57965

Stream class: C

Agency: MCFRBA

NC stream index: 18-(26)

Time period: 01/04/2006 to 12/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		4.2	5.3	6.1	7	8.7	10.6	12
	255	0	<5	14	5.5		4.2	5.3	6.1	7	8.7	10.6	12
pH (SU)	255	0	<6	13	5.1		5.6	6.1	6.3	6.7	6.9	7.1	8.6
	255	0	>9	0	0		5.6	6.1	6.3	6.7	6.9	7.1	8.6
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				61	96	109	131	150	177	234
Water Temperature (°C)	255	0	>32	0	0		3.5	8.7	14.2	22.8	27.8	28.9	31.4
Other													
Chlorophyll a (ug/L)	46	2	>40	0	0		1	2	3	7	11	16	30
TSS (mg/L)	60	1	N/A				1	5.1	7	9	15	28.5	54
Turbidity (NTU)	60	0	>50	0	0		4.3	5.4	7.8	10.3	16.6	28.3	50
Nutrients (mg/L)													
NH3 as N	60	23	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.24
NO2 + NO3 as N	60	0	N/A				0.37	0.51	0.64	0.92	1.22	1.48	2.49
TKN as N	60	3	N/A				0.2	0.34	0.45	0.62	0.73	0.87	1.04
Total Phosphorus	51	0	N/A				0.09	0.1	0.12	0.19	0.24	0.3	0.43

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	27.6	1	1.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: TURNBULL CRK AT US 701 NC 53 AND NC 41 NR ELIZABETHTOWN
Station #: B8340100 **Hydrologic Unit Code:** 03030005
Latitude: 34.64720 **Longitude:** -78.55650 **Stream class:** C
Agency: MCFRBA **NC stream index:** 18-46

Time period: 01/03/2006 to 12/13/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	0	0		4	5	6	7	8.1	10.2	11.5
	60	0	<5	5	8.3		4	5	6	7	8.1	10.2	11.5
pH (SU)	60	0	<6	56	93.3	> 99.9	3	3.4	3.7	4	4.5	5.6	6.8
	60	0	>9	0	0		3	3.4	3.7	4	4.5	5.6	6.8
Spec. conductance (umhos/cm at 25°C)	60	8	N/A				47	47	51	59	65	87	146
Water Temperature (°C)	60	0	>32	0	0		3.4	7.1	11.4	17.5	22	25	26.7
Other													
TSS (mg/L)	60	8	N/A				1	1	1	2	4	6	12
Turbidity (NTU)	60	0	>50	0	0		1	1.3	1.5	2	3	3.9	7.1
Nutrients (mg/L)													
NH3 as N	60	30	N/A				0.02	0.02	0.02	0.02	0.05	0.09	0.14
NO2 + NO3 as N	60	4	N/A				0.02	0.02	0.04	0.06	0.12	0.15	0.93
TKN as N	60	3	N/A				0.2	0.24	0.44	0.62	0.8	1.2	2.01
Total Phosphorus	51	10	N/A				0.02	0.02	0.02	0.04	0.06	0.09	0.12

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	33.8	0	0	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT RM 70 NR ELIZABETHTOWN

Station #: B8340130

Hydrologic Unit Code: 03030005

Latitude: 34.62458

Longitude: -78.55048

Stream class: C

Agency: MCFRBA

NC stream index: 18-(28)

Time period: 01/03/2006 to 12/13/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		4.6	5.9	6.5	7.4	9.2	10.5	12.7
	255	0	<5	3	1.2		4.6	5.9	6.5	7.4	9.2	10.5	12.7
pH (SU)	255	0	<6	33	12.9	94.8	5.2	5.9	6.2	6.6	6.9	7	7.4
	255	0	>9	0	0		5.2	5.9	6.2	6.6	6.9	7	7.4
Spec. conductance (umhos/cm at 25°C)	253	0	N/A				62	90	101	130	145	178	235
Water Temperature (°C)	255	0	>32	0	0		3.4	9	14.4	22.7	28.2	28.9	30.8
Other													
TSS (mg/L)	60	1	N/A				1	6	8	10	17.8	34	128
Turbidity (NTU)	60	0	>50	3	5		3.8	5.7	8.2	9.9	17	34.2	93.9
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.23
NO2 + NO3 as N	60	0	N/A				0.31	0.5	0.68	0.88	1.12	1.29	2.1
TKN as N	60	3	N/A				0.2	0.31	0.44	0.62	0.72	0.9	1.52
Total Phosphorus	51	0	N/A				0.07	0.11	0.14	0.17	0.22	0.34	0.41

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	26.3	1	1.7	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT RM 55 NR BLADEN SPRINGS

Station #: B8340650

Hydrologic Unit Code: 03030005

Latitude: 34.53518

Longitude: -78.43975

Stream class: WS-V

Agency: MCFRBA

NC stream index: 18-(49)

Time period: 01/03/2006 to 12/13/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	2	0.8		3.8	5.2	5.9	7	8.5	10.1	12.2
	255	0	<5	13	5.1		3.8	5.2	5.9	7	8.5	10.1	12.2
pH (SU)	255	0	<6	32	12.5	92.4	5.2	5.9	6.2	6.6	6.8	7	9.9
	255	0	>9	1	0.4		5.2	5.9	6.2	6.6	6.8	7	9.9
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				55	90	103	125	141	169	230
Water Temperature (°C)	255	0	>32	1	0.4		3.3	8.9	14.2	23	28.1	29.6	32.5
Other													
TSS (mg/L)	60	0	N/A				2	3.1	6	8	13.5	26.7	81
Turbidity (NTU)	60	0	>50	2	3.3		3.6	4.8	7.2	9.3	14.8	33.1	61.6
Nutrients (mg/L)													
NH3 as N	60	20	N/A				0.02	0.02	0.02	0.04	0.07	0.12	0.18
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.5	0.63	0.78	0.99	1.28	1.62
TKN as N	60	2	N/A				0.2	0.35	0.47	0.57	0.79	0.93	1.21
Total Phosphorus	51	1	N/A				0.02	0.1	0.12	0.16	0.18	0.26	0.34

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	29.5	3	5	

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV AT SR 1730 ELWELL FERRY RD NR CARVERS
Station #: B8348000 **Hydrologic Unit Code:** 03030005
Latitude: 34.47400 **Longitude:** -78.36900 **Stream class:** WS-IV
Agency: MCFRBA **NC stream index:** 18-(53.5)

Time period: 01/03/2006 to 12/13/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	0	0		4.4	5.3	6	7	8.7	10.4	12.5
	255	0	<5	15	5.9		4.4	5.3	6	7	8.7	10.4	12.5
pH (SU)	255	0	<6	28	11	74	5.2	6	6.3	6.6	6.8	7	8.7
	255	0	>9	0	0		5.2	6	6.3	6.6	6.8	7	8.7
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				54	90	106	123	143	168	224
Water Temperature (°C)	255	0	>32	1	0.4		3.4	8.9	14.4	23.1	28.2	29.6	32.5
Other													
TSS (mg/L)	60	1	N/A				1	4	6	8.5	12	24.7	140
Turbidity (NTU)	60	0	>50	1	1.7		4.2	5.1	7.2	9.1	14.1	28.3	102
Nutrients (mg/L)													
NH3 as N	60	26	N/A				0.02	0.02	0.02	0.03	0.06	0.09	0.2
NO2 + NO3 as N	60	1	>10	0	0		0.02	0.48	0.59	0.78	0.97	1.17	1.83
TKN as N	60	4	N/A				0.2	0.31	0.44	0.6	0.76	0.95	1.2
Total Phosphorus	51	0	N/A				0.03	0.1	0.12	0.15	0.18	0.24	0.37

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
60	23	1	1.7	

Key:

result: number of observations
 # ND: number of observations reported to be below detection level (non-detect)
 EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
 Results not meeting EL: number and percentages of observations not meeting evaluation level
 %Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
 Stations with less than 10 results for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station
 NCDENR, Division of Water Quality
 Basinwide Assessment

Location: CAPE FEAR RIV ABOVE LOCK AND DAM 1 NR EAST ARCADIA

Station #: B8349000

Hydrologic Unit Code: 03030005

Latitude: 34.40693

Longitude: -78.29508

Stream class: WS-IV CA

Agency: MCFRBA

NC stream index: 18-(58.5)

Time period: 01/03/2006 to 12/13/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	255	0	<4	1	0.4		3.8	5.1	5.9	6.9	8.6	10.5	12.8
	255	0	<5	19	7.5		3.8	5.1	5.9	6.9	8.6	10.5	12.8
pH (SU)	255	0	<6	28	11	74	5	6	6.3	6.6	6.9	7.1	9.1
	255	0	>9	1	0.4		5	6	6.3	6.6	6.9	7.1	9.1
Spec. conductance (umhos/cm at 25°C)	255	0	N/A				54	88	106	125	144	169	237
Water Temperature (°C)	255	0	>32	1	0.4		3.6	9	14.8	22.8	28.5	29.6	32.1
Other													
Chlorophyll a (ug/L)	46	1	>40	2	4.3		1	2	3	6	13	31	44
TSS (mg/L)	60	1	N/A				1	5	7	8	11.8	26.9	137
Turbidity (NTU)	60	0	>50	2	3.3		3.8	6	6.9	9.2	14.5	29	60.6
Nutrients (mg/L)													
NH3 as N	60	26	N/A				0.02	0.02	0.02	0.03	0.06	0.11	0.14
NO2 + NO3 as N	60	2	>10	0	0		0.02	0.43	0.6	0.71	0.95	1.09	2.5
TKN as N	60	2	N/A				0.2	0.22	0.45	0.57	0.83	1.09	3.27
Total Phosphorus	51	0	N/A				0.04	0.08	0.1	0.14	0.18	0.2	0.41
Metals (ug/L)													
Aluminum, total (Al)	9	0	N/A				161	161	214	341	532	1440	1440
Arsenic, total (As)	9	9	>10	0	0		10	10	10	10	10	10	10
Cadmium, total (Cd)	9	9	>2	0	0		0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium, total (Cr)	9	9	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	9	6	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	9	0	>1000	2	22.2		412	412	576	652	1036	1330	1330
Lead, total (Pb)	9	0	>25	0	0		1	1	1	1	1	1	1
Manganese, total (Mn)	9	0	>200	0	0		8	8	24	49	72	113	113
Mercury, total (Hg)	9	0	>0.012	0	0		0.002	0.002	0.002	0.003	0.005	0.007	0.007
Nickel, total (Ni)	9	0	>25	0	0		1	1	1	1	1	1	1
Zinc, total (Zn)	9	7	>50	0	0		10	10	10	10	10	13	13

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
60	19.4	2	3.3

Key:

result: number of observations

ND: number of observations reported to be below detection level (non-detect)

EL: Evaluation Level; applicable numeric or narrative water quality standard or action level

Results not meeting EL: number and percentages of observations not meeting evaluation level

%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)

Stations with less than 10 results for a given parameter were not evaluated for statistical confidence