

Appendix 1C

Ambient Monitoring Station Data Summary Sheets

Tar River Headwaters Subbasin HUC 03020101

The full report is available on the DWQ Environmental Sciences Section website:

<http://portal.ncdenr.org/web/wq/ess/reports>.

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT US 158 NR BEREA

Station #: O0057000

Latitude: 36.33412

Agency: TPBA

Longitude: -78.76803

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-(1)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	26	0	<4	3	11.5	74.1	3	3.6	4.9	7.2	9.8	12.3	13.8
	26	0	<5	7	26.9	99.7	3	3.6	4.9	7.2	9.8	12.3	13.8
pH (SU)	26	0	<6	1	3.8		5.2	6	6.1	6.6	6.8	6.9	7.1
	26	0	>9	0	0		5.2	6	6.1	6.6	6.8	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	26	1	N/A				50	54	63	80	90	107	153
Water Temperature (°C)	26	0	>32	0	0		3.2	8.3	12.5	19.8	23.3	24	24.2
Other													
TSS (mg/L)	18	0	N/A				1.5	1.7	2.8	3.8	8.2	41.4	108
Turbidity (NTU)	18	0	>50	1	5.6		3	4.2	5.2	7.8	13.2	39.1	130
Nutrients (mg/L)													
NH3 as N	18	8	N/A				0.01	0.01	0.01	0.02	0.05	0.14	0.18
NO2 + NO3 as N	18	3	>10	0	0		0.01	0.01	0.02	0.04	0.12	0.18	0.22
TKN as N	18	1	N/A				0.2	0.24	0.31	0.37	0.65	1.34	1.39
Total Phosphorus	18	0	N/A				0.03	0.04	0.05	0.06	0.08	0.11	0.15
Metals (ug/L)													
Aluminum, total (Al)	18	0	N/A				66	82	116	209	354	1266	4337
Arsenic, total (As)	18	18	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	18	18	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	18	17	>50	0	0		5	5	5	5	5	5	9
Copper, total (Cu)	18	14	>7	0	0		2	2	2	2	2	3	6
Iron, total (Fe)	18	0	>1000	12	66.7	100	614	718	877	1126	1521	2683	5990
Lead, total (Pb)	18	18	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	18	0	>200	5	27.8	99.4	25	26	33	40	268	750	2701
Mercury, total (Hg)	18	18	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	18	18	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	18	11	>50	0	0		10	10	10	10	12	18	23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
18	50	2	11										

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT NC 96 NR TAR RIVER

Station #: O0100000

Hydrologic Unit Code: 03020101

Latitude: 36.19472

Longitude: -78.58292

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 28-(5.7)

Time period: 01/06/2004 to 12/02/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<4	1	2		3.8	4.8	5.7	6.8	10.1	12.2	17.6
	50	0	<5	8	16	94.2	3.8	4.8	5.7	6.8	10.1	12.2	17.6
pH (SU)	52	0	<6	0	0		6	6.2	6.4	6.7	7	7.2	7.4
	52	0	>9	0	0		6	6.2	6.4	6.7	7	7.2	7.4
Salinity (ppt)	19	0	N/A				0	0	0	0	0	0.1	0.1
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				46	63	75	87	96	104	108
Water Temperature (°C)	52	0	>32	0	0		2.6	6	9.3	15.7	23.3	25.1	28
Other													
TSS (mg/L)	19	5	N/A				2.5	2.8	4	6.2	30	49	118
Turbidity (NTU)	52	0	>50	2	3.8		1.7	3.9	7	9.2	17.8	41.4	65
Nutrients (mg/L)													
NH3 as N	52	19	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.3
NO2 + NO3 as N	52	13	>10	0	0		0.02	0.02	0.02	0.06	0.11	0.17	0.31
TKN as N	52	0	N/A				0.23	0.29	0.34	0.46	0.62	0.78	1
Total Phosphorus	52	0	N/A				0.02	0.03	0.04	0.05	0.08	0.14	0.32
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				64	64	165	390	1340	2780	3100
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	8	>7	0	0		2	2	2	2	3	4	5
Iron, total (Fe)	13	0	>1000	11	84.6	100	210	230	1350	2000	2250	3060	3100
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	13	0	>200	5	38.5	99.9	25	43	86	170	255	378	430
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	12	8	>50	0	0		10	10	10	10	12	15	15

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
52	85	6	12

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: FISHING CRK AT SR 1649 NEW COMMERCE DR AT OXFORD

Station #: O0310000

Hydrologic Unit Code: 03020101

Latitude: 36.29210

Longitude: -78.58294

Stream class: C NSW

Agency: TPBA

NC stream index: 28-11

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	28	0	<4	3	10.7	69.5	3.1	3.6	5.3	7.5	9.5	12.5	14.6
	28	0	<5	6	21.4	98.2	3.1	3.6	5.3	7.5	9.5	12.5	14.6
pH (SU)	28	0	<6	0	0		6.3	6.6	6.7	6.9	7.1	7.1	7.3
	28	0	>9	0	0		6.3	6.6	6.7	6.9	7.1	7.1	7.3
Spec. conductance (umhos/cm at 25°C)	28	0	N/A				80	81	154	224	254	292	363
Water Temperature (°C)	28	0	>32	0	0		3.9	8.2	12.3	19.1	21.1	22.8	23.2
Other													
Turbidity (NTU)	19	0	>50	2	10.5	70.5	3.1	4.7	6.1	14	37	80	110
Nutrients (mg/L)													
NH3 as N	19	6	N/A				0.01	0.01	0.01	0.04	0.06	0.12	0.16
NO2 + NO3 as N	19	0	N/A				0.15	0.16	0.26	0.35	0.47	0.51	0.56
TKN as N	19	0	N/A				0.23	0.33	0.44	0.53	0.84	1.17	1.49
Total Phosphorus	19	1	N/A				0.02	0.05	0.08	0.1	0.16	0.18	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
19	199	8	42	99.3

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: FISHING CRK AT SR 1643 NR CLAY

Station #: O0600000

Hydrologic Unit Code: 03020101

Latitude: 36.22317

Longitude: -78.57568

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-11

Time period: 01/06/2004 to 12/02/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<4	0	0		5.5	6.2	6.9	8	11.6	12.8	17.3
	50	0	<5	0	0		5.5	6.2	6.9	8	11.6	12.8	17.3
pH (SU)	52	0	<6	0	0		6.3	6.4	6.6	7	7.2	7.5	8.4
	52	0	>9	0	0		6.3	6.4	6.6	7	7.2	7.5	8.4
Salinity (ppt)	20	0	N/A				0.1	0.1	0.1	0.1	0.1	0.1	0.1
Spec. conductance (umhos/cm at 25°C)	51	0	N/A				79	113	146	182	251	436	547
Water Temperature (°C)	52	0	>32	0	0		1.9	5	9.5	15	21.6	23.5	25.1
Other													
TSS (mg/L)	19	7	N/A				2.5	2.5	4.8	6.2	16	39	150
Turbidity (NTU)	52	1	>50	4	7.7		1	2.9	4.3	8.1	15.8	42.3	85
Nutrients (mg/L)													
NH3 as N	52	28	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.2
NO2 + NO3 as N	52	1	N/A				0.02	0.12	0.19	0.33	0.56	0.83	1.3
TKN as N	52	0	N/A				0.28	0.36	0.41	0.5	0.64	0.76	1.9
Total Phosphorus	52	0	N/A				0.02	0.04	0.06	0.08	0.11	0.21	0.48
Metals (ug/L)													
Aluminum, total (Al)	13	1	N/A				50	64	140	570	2100	2960	3000
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	3	>7	2	15.4	86.6	2	2	2	2	5	8	9
Iron, total (Fe)	13	0	>1000	8	61.5	100	170	314	740	1100	2850	4080	4800
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	0	>50	2	15.4	86.6	12	15	23	29	40	105	140

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
52	131	10	19

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1003 SIMS BRIDGE RD NR LOUISBURG

Station #: O1025000

Hydrologic Unit Code: 03020101

Latitude: 36.14222

Longitude: -78.37218

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(15.5)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	1	3.1		3.5	5.5	6	7.2	9	11.8	13
	32	0	<5	1	3.1		3.5	5.5	6	7.2	9	11.8	13
pH (SU)	32	0	<6	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.3
	32	0	>9	0	0		6.4	6.6	6.7	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				66	79	91	105	116	138	155
Water Temperature (°C)	32	0	>32	0	0		2.9	7.6	12.7	20.7	24.4	25.6	26
Other													
TSS (mg/L)	22	0	N/A				3	3.2	5.1	8	13.2	57.1	128
Turbidity (NTU)	22	0	>50	2	9.1		6.3	6.9	8	11.5	18	75.6	230
Nutrients (mg/L)													
NH3 as N	22	10	N/A				0.01	0.01	0.01	0.02	0.04	0.08	0.11
NO2 + NO3 as N	22	1	>10	0	0		0.01	0.04	0.06	0.1	0.15	0.24	0.32
TKN as N	22	1	N/A				0.2	0.21	0.31	0.48	0.71	0.96	1.54
Total Phosphorus	22	0	N/A				0.04	0.05	0.06	0.07	0.11	0.19	0.29
Metals (ug/L)													
Aluminum, total (Al)	22	0	N/A				96	107	190	308	496	2260	12025
Arsenic, total (As)	22	22	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	22	22	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	22	21	>50	0	0		5	5	5	5	5	5	9
Copper, total (Cu)	22	13	>7	1	4.5		2	2	2	2	2	4	13
Iron, total (Fe)	22	0	>1000	21	95.5	100	453	1151	1297	1580	2063	4305	9260
Lead, total (Pb)	22	21	>25	0	0		5	5	5	5	5	5	6
Manganese, total (Mn)	22	0	>200	10	45.5	100	37	63	101	188	407	587	624
Mercury, total (Hg)	22	22	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	22	22	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	22	18	>50	0	0		10	10	10	10	10	14	22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
22	111	5	23	73.3									

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TABBS CRK AT SR 1100 EGYPT MOUNTAIN RD NR KITTRELL

Station #: O1030000

Hydrologic Unit Code: 03020101

Latitude: 36.18229

Longitude: -78.45562

Stream class: C NSW

Agency: TPBA

NC stream index: 28-17-(0.5)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	2	6.5		2.6	4.1	5.2	6.5	8.6	12.1	12.7
	31	0	<5	7	22.6	99	2.6	4.1	5.2	6.5	8.6	12.1	12.7
pH (SU)	31	0	<6	0	0		6	6.4	6.7	6.8	7	7.1	7.2
	31	0	>9	0	0		6	6.4	6.7	6.8	7	7.1	7.2
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				53	85	100	105	118	125	142
Water Temperature (°C)	31	0	>32	0	0		2	6.5	12.8	20	23.3	24.3	25
Other													
TSS (mg/L)	21	0	N/A				2.3	3.4	5.4	7.8	20	68.8	84
Turbidity (NTU)	21	0	>50	1	4.8		5	6.1	9	13	22.5	44	190
Nutrients (mg/L)													
NH3 as N	21	8	N/A				0.01	0.01	0.01	0.02	0.08	0.12	0.53
NO2 + NO3 as N	21	1	N/A				0.01	0.02	0.03	0.1	0.16	0.2	0.35
TKN as N	21	1	N/A				0.2	0.22	0.32	0.51	0.75	1.81	2.87
Total Phosphorus	21	0	N/A				0.03	0.05	0.07	0.08	0.12	0.16	0.19

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
21	112	5	24	76.9

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT US 401 AT LOUISBURG

Station #: O1100000

Latitude: 36.09438

Agency: NCAMBNT

Longitude: -78.29766

Hydrologic Unit Code: 03020101

Stream class: WS-V NSW

NC stream index: 28-(24.7)

Time period: 01/07/2004 to 12/10/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	0	0		5	5.4	6.1	7.7	10.3	11.4	13.4
	51	0	<5	0	0		5	5.4	6.1	7.7	10.3	11.4	13.4
pH (SU)	52	0	<6	1	1.9		5.4	6.2	6.5	6.8	7.1	7.2	7.7
	52	0	>9	0	0		5.4	6.2	6.5	6.8	7.1	7.2	7.7
Salinity (ppt)	20	0	N/A				0	0	0	0	0.1	0.1	0.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				53	77	84	90	106	116	155
Water Temperature (°C)	52	0	>32	0	0		3	6.7	8.7	18.2	24.1	27.1	29.8
Other													
TSS (mg/L)	19	3	N/A				2.8	5	6.2	9.8	25	44	100
Turbidity (NTU)	52	0	>50	2	3.8		4.9	7.6	9	12.5	19.5	36.6	120
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				100	112	270	580	1550	7640	11000
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	8	>7	1	7.7		2	2	2	2	3	14	20
Iron, total (Fe)	13	0	>1000	13	100	100	1300	1380	1600	1800	2900	15200	22000
Lead, total (Pb)	13	12	>25	0	0		10	10	10	10	10	17	21
Manganese, total (Mn)	13	0	>200	8	61.5	100	58	68	117	240	475	1352	1900
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	12	>25	0	0		10	10	10	10	10	11	11
Zinc, total (Zn)	13	10	>50	1	7.7		10	10	10	10	10	41	59

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
52	96	5	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: CEDAR CRK AT SR 1116 CEDAR CREEK RD NR FRANKLINTON

Station #: O1600000

Hydrologic Unit Code: 03020101

Latitude: 36.06615

Longitude: -78.43130

Stream class: C NSW

Agency: TPBA

NC stream index: 28-29-(2)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		6.3	6.5	7	7.8	10.4	12	13.1
	32	0	<5	0	0		6.3	6.5	7	7.8	10.4	12	13.1
pH (SU)	32	0	<6	0	0		6.3	6.5	6.7	7	7.2	7.2	7.3
	32	0	>9	0	0		6.3	6.5	6.7	7	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				61	67	72	76	85	92	95
Water Temperature (°C)	32	0	>32	0	0		4.9	9.5	13.3	21.1	24.8	25.3	26
Other													
Turbidity (NTU)	22	0	>50	1	4.5		6.9	7.2	8.8	12	19	22.1	60
Nutrients (mg/L)													
NH3 as N	22	7	N/A				0.01	0.01	0.01	0.03	0.05	0.08	0.37
NO2 + NO3 as N	22	0	N/A				0.02	0.03	0.06	0.11	0.17	0.22	0.31
TKN as N	22	2	N/A				0.2	0.22	0.27	0.45	0.56	1.12	1.54
Total Phosphorus	22	1	N/A				0.02	0.04	0.06	0.06	0.08	0.11	0.12

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	81	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: CEDAR CRK AT SR 1109 TIMBERLAKE RD NR LOUISBURG

Station #: O1920000

Hydrologic Unit Code: 03020101

Latitude: 36.06024

Longitude: -78.35373

Stream class: C NSW

Agency: TPBA

NC stream index: 28-29-(2)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		6.4	6.5	7	7.7	10	11.7	13.1
	31	0	<5	0	0		6.4	6.5	7	7.7	10	11.7	13.1
pH (SU)	31	0	<6	0	0		6.6	6.7	6.9	7	7.2	7.3	7.4
	31	0	>9	0	0		6.6	6.7	6.9	7	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				93	133	167	220	342	473	589
Water Temperature (°C)	31	0	>32	0	0		4.1	8.7	14	20.5	24.3	25.5	26.1
Other													
Turbidity (NTU)	21	0	>50	4	19	94.8	9.5	11	13	17	39.5	98.4	110
Nutrients (mg/L)													
NH3 as N	21	4	N/A				0.01	0.01	0.02	0.05	0.1	0.17	0.2
NO2 + NO3 as N	21	0	N/A				0.33	0.37	0.55	0.7	0.95	1.07	1.19
TKN as N	21	0	N/A				0.28	0.3	0.53	0.66	0.88	1.29	1.36
Total Phosphorus	21	1	N/A				0.02	0.05	0.06	0.09	0.12	0.16	0.51

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
21	168	5	24	76.9

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1001 NR BUNN

Station #: O2000000

Hydrologic Unit Code: 03020101

Latitude: 36.00228

Longitude: -78.24334

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 28-(24.7)

Time period: 01/07/2004 to 12/10/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	0	0		4.3	4.8	5.6	7.1	10.3	11.4	13.2
	51	0	<5	6	11.8	75.5	4.3	4.8	5.6	7.1	10.3	11.4	13.2
pH (SU)	52	0	<6	1	1.9		5.9	6.3	6.5	6.8	7	7.2	8.1
	52	0	>9	0	0		5.9	6.3	6.5	6.8	7	7.2	8.1
Salinity (ppt)	20	0	N/A				0	0	0	0	0.1	0.1	0.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				61	81	90	98	111	129	148
Water Temperature (°C)	52	0	>32	0	0		3	6.9	8.9	18.3	24	27.3	28.7
Other													
TSS (mg/L)	19	3	N/A				4.5	6.2	8	12	33	54	58
Turbidity (NTU)	52	0	>50	1	1.9		5.2	9	10.2	14	19	35.4	70
Metals (ug/L)													
Aluminum, total (Al)	12	0	N/A				210	213	248	535	1550	2150	2300
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	9	>7	0	0		2	2	2	2	3	4	4
Iron, total (Fe)	13	0	>1000	13	100	100	1200	1240	1500	1700	2500	3760	4400
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	13	0	>200	8	61.5	100	68	74	99	250	260	418	470
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>50	0	0		10	10	10	10	10	13	14

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	82	3	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1001 NR BUNN

Station #: O2000000

Latitude: 36.00228

Agency: TPBA

Longitude: -78.24334

Hydrologic Unit Code: 03020101

Stream class: WS-V NSW

NC stream index: 28-(24.7)

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	31	0	<4	0	0		4.2	4.7	5.3	6.6	9	11.8	12.9
	31	0	<5	4	12.9	80.7	4.2	4.7	5.3	6.6	9	11.8	12.9
pH (SU)	31	0	<6	0	0		6.4	6.6	6.8	6.9	7.1	7.2	7.4
	31	0	>9	0	0		6.4	6.6	6.8	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	31	0	N/A				69	74	93	110	121	141	161
Water Temperature (°C)	31	0	>32	0	0		3.5	8.3	13.3	20.9	25.7	27.3	28.4
Other													
Turbidity (NTU)	21	0	>50	0	0		8.8	9.2	11	13	18	42.4	50
Nutrients (mg/L)													
NH3 as N	21	7	N/A				0.01	0.01	0.01	0.03	0.06	0.09	0.11
NO2 + NO3 as N	21	0	>10	0	0		0.07	0.1	0.11	0.16	0.18	0.25	0.27
TKN as N	21	2	N/A				0.2	0.2	0.33	0.54	0.61	0.82	0.95
Total Phosphorus	21	0	N/A				0.04	0.04	0.06	0.07	0.1	0.12	0.47

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
21	104	3	14	

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: CROOKED CRK AT SR 1719 BUNN ELEMENTARY SCHOOL RD NR BUNN
Station #: O2015000 **Hydrologic Unit Code:** 03020101
Latitude: 35.94504 **Longitude:** -78.26054 **Stream class:** C NSW
Agency: TPBA **NC stream index:** 28-30

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	19	59.4	100	0.1	0.3	1.1	3.1	7.4	9.5	10.9
	32	0	<5	23	71.9	100	0.1	0.3	1.1	3.1	7.4	9.5	10.9
pH (SU)	32	0	<6	0	0		6.2	6.3	6.4	6.5	6.7	6.8	7.2
	32	0	>9	0	0		6.2	6.3	6.4	6.5	6.7	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				53	58	65	90	118	126	170
Water Temperature (°C)	32	0	>32	0	0		4.3	9.3	15.7	22.1	25.1	26.8	27.5
Other													
Turbidity (NTU)	22	0	>50	1	4.5		3.3	3.5	4.7	7.6	22.5	35.4	52
Nutrients (mg/L)													
NH3 as N	22	9	N/A				0.01	0.01	0.01	0.02	0.06	0.14	0.23
NO2 + NO3 as N	22	20	N/A				0.01	0.01	0.01	0.01	0.01	0.01	0.02
TKN as N	22	0	N/A				0.28	0.34	0.42	0.55	0.77	1.2	1.5
Total Phosphorus	22	0	N/A				0.05	0.05	0.07	0.11	0.18	0.31	0.35

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	89	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: CROOKED CRK AT NC 98 NR BUNN

Station #: O2020000

Hydrologic Unit Code: 03020101

Latitude: 35.93863

Longitude: -78.20892

Stream class: C NSW

Agency: TPBA

NC stream index: 28-30

Time period: 03/07/2007 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	15	46.9	100	1.2	1.5	2.4	4.3	7.5	10.9	11.8
	32	0	<5	19	59.4	100	1.2	1.5	2.4	4.3	7.5	10.9	11.8
pH (SU)	32	0	<6	0	0		6.2	6.4	6.6	6.8	6.9	7	7.1
	32	0	>9	0	0		6.2	6.4	6.6	6.8	6.9	7	7.1
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				55	62	71	93	129	164	190
Water Temperature (°C)	32	0	>32	0	0		4.2	9.7	15.4	22.8	26.1	27.4	28.7
Other													
Turbidity (NTU)	22	0	>50	0	0		4.1	5.6	7.1	9.5	17.5	28.4	50
Nutrients (mg/L)													
NH3 as N	22	5	N/A				0.01	0.01	0.01	0.04	0.07	0.11	0.19
NO2 + NO3 as N	22	13	N/A				0.01	0.01	0.01	0.01	0.02	0.04	0.1
TKN as N	22	0	N/A				0.27	0.42	0.56	0.71	0.97	1.24	1.28
Total Phosphorus	22	0	N/A				0.06	0.06	0.07	0.1	0.13	0.22	0.24

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	58	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1145 OLD SPRING HOPE RD NR SPRING HOPE

Station #: O2101000

Hydrologic Unit Code: 03020101

Latitude: 35.90506

Longitude: -78.11319

Stream class: WS-V NSW

Agency: TPBA

NC stream index: 28-(24.7)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	2	6.2		3.5	4.3	5.2	6.8	9.6	11.5	14.3
	32	0	<5	6	18.8	96.4	3.5	4.3	5.2	6.8	9.6	11.5	14.3
pH (SU)	32	0	<6	1	3.1		5.6	6.2	6.4	6.6	6.8	7	7.3
	32	0	>9	0	0		5.6	6.2	6.4	6.6	6.8	7	7.3
Spec. conductance (umhos/cm at 25°C)	32	1	N/A				50	77	84	103	123	138	145
Water Temperature (°C)	32	0	>32	0	0		2.9	7.8	12.2	20.8	25.4	27.1	28.1
Other													
Turbidity (NTU)	22	0	>50	1	4.5		3.8	5.4	6.8	11	23	27.5	140
Nutrients (mg/L)													
NH3 as N	22	6	N/A				0.01	0.01	0.01	0.05	0.13	0.19	0.51
NO2 + NO3 as N	22	0	>10	0	0		0.01	0.03	0.06	0.11	0.16	0.18	0.28
TKN as N	22	1	N/A				0.2	0.21	0.27	0.39	0.51	0.9	1.02
Total Phosphorus	22	1	N/A				0.02	0.02	0.06	0.09	0.12	0.14	0.21

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	37	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT NC 581 NR STANHOPE

Station #: O2102000

Latitude: 35.88205

Agency: TPBA

Longitude: -78.08932

Hydrologic Unit Code: 03020101

Stream class: WS-V NSW

NC stream index: 28-(24.7)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		4	4.3	5.2	6.9	9.5	11.7	13.8
	32	0	<5	6	18.8	96.4	4	4.3	5.2	6.9	9.5	11.7	13.8
pH (SU)	32	0	<6	0	0		6.4	6.5	6.6	6.8	7	7.2	7.3
	32	0	>9	0	0		6.4	6.5	6.6	6.8	7	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	32	1	N/A				50	74	82	106	126	141	153
Water Temperature (°C)	32	0	>32	0	0		3.2	7.5	12.3	20.8	25.4	27.1	28.1
Other													
Turbidity (NTU)	22	0	>50	1	4.5		3.1	3.9	5.5	11.5	19.2	24.7	84
Nutrients (mg/L)													
NH3 as N	22	6	N/A				0.01	0.01	0.01	0.04	0.08	0.13	0.15
NO2 + NO3 as N	22	0	>10	0	0		0.02	0.07	0.1	0.12	0.18	0.2	0.27
TKN as N	22	0	N/A				0.21	0.28	0.35	0.4	0.54	1.1	5.91
Total Phosphorus	22	1	N/A				0.02	0.04	0.07	0.09	0.1	0.19	1.46

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	32	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1981 TAR RIVER CHURCH RD NR CLIFTONVILLE

Station #: O2140000

Hydrologic Unit Code: 03020101

Latitude: 35.84663

Longitude: -77.96394

Stream class: WS-IV NSW CA

Agency: TPBA

NC stream index: 28-(35.5)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	1	3.1		3.3	4.3	5.4	6.4	8.8	10.7	13.2
	32	0	<5	4	12.5	78.9	3.3	4.3	5.4	6.4	8.8	10.7	13.2
pH (SU)	32	0	<6	1	3.1		5.8	6.4	6.7	6.9	7.1	7.2	7.3
	32	0	>9	0	0		5.8	6.4	6.7	6.9	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	32	1	N/A				50	68	83	100	122	128	145
Water Temperature (°C)	32	0	>32	0	0		3.6	9.1	12.8	22	26.4	28.6	29.9
Other													
Turbidity (NTU)	22	0	>50	1	4.5		7.4	8.2	13	17.5	24.8	45	190
Nutrients (mg/L)													
NH3 as N	22	5	N/A				0.01	0.01	0.01	0.04	0.1	0.12	0.22
NO2 + NO3 as N	22	2	>10	0	0		0.01	0.01	0.05	0.16	0.23	0.26	0.28
TKN as N	22	2	N/A				0.2	0.21	0.3	0.37	0.67	0.97	1.16
Total Phosphorus	22	0	N/A				0.02	0.04	0.07	0.1	0.12	0.28	3.21
Metals (ug/L)													
Aluminum, total (Al)	22	0	N/A				100	172	255	459	1066	2045	7274
Arsenic, total (As)	22	22	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	22	22	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	22	21	>50	0	0		5	5	5	5	5	5	8
Copper, total (Cu)	22	8	>7	1	4.5		2	2	2	2	2	4	10
Iron, total (Fe)	22	0	>1000	19	86.4	100	640	892	1276	1589	2050	2587	2816
Lead, total (Pb)	22	21	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	22	0	>200	10	45.5	100	50	69	106	158	280	559	817
Mercury, total (Hg)	22	22	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	22	22	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	22	19	>50	0	0		10	10	10	10	10	15	18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
22	73	3	14										

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: SAPONY CRK AT SR 1704 BATCHELOR DR NR NASHVILLE

Station #: O2320000

Hydrologic Unit Code: 03020101

Latitude: 35.93201

Longitude: -77.93478

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-55-(5.5)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	17	53.1	100	1	1.3	2	3.5	6.7	8	10.2
	32	0	<5	21	65.6	100	1	1.3	2	3.5	6.7	8	10.2
pH (SU)	32	0	<6	2	6.2		5.6	6.1	6.5	6.8	6.9	7.1	7.1
	32	0	>9	0	0		5.6	6.1	6.5	6.8	6.9	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				63	81	94	110	124	153	257
Water Temperature (°C)	32	0	>32	0	0		3.6	6.1	12.2	19.8	23.8	26	26.9
Other													
Turbidity (NTU)	22	0	>50	0	0		3.7	4.3	6	10.2	16.2	27.7	36
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
22	100	2	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT US 301 BYP AT ROCKY MOUNT

Station #: O2360000

Hydrologic Unit Code: 03020101

Latitude: 35.92572

Longitude: -77.83067

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(64.5)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	6	18.8	96.4	2	3.2	4.3	6	9.5	11.3	12.8
	32	0	<5	11	34.4	100	2	3.2	4.3	6	9.5	11.3	12.8
pH (SU)	32	0	<6	0	0		6.4	6.5	6.7	6.9	7	7.1	8.1
	32	0	>9	0	0		6.4	6.5	6.7	6.9	7	7.1	8.1
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				58	71	78	96	115	137	153
Water Temperature (°C)	32	0	>32	0	0		6.9	10	13.7	22.4	27	28.7	29.4
Other													
TSS (mg/L)	22	2	N/A				1	1.1	1.7	3.4	6.1	11.7	13
Turbidity (NTU)	22	0	>50	1	4.5		1.8	2.4	2.8	7.7	15.5	29.3	55
Nutrients (mg/L)													
NH3 as N	22	4	N/A				0.01	0.01	0.02	0.05	0.09	0.15	0.26
NO2 + NO3 as N	22	1	>10	0	0		0.01	0.04	0.1	0.13	0.26	0.43	0.69
TKN as N	22	0	N/A				0.24	0.28	0.46	0.62	0.79	1.19	3.2
Total Phosphorus	22	1	N/A				0.02	0.04	0.06	0.07	0.1	0.14	0.39

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
22	37	1	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: STONY CRK AT WINSTEAD AVE NR LITTLE EASONBURG

Station #: O3140000

Hydrologic Unit Code: 03020101

Latitude: 35.96880

Longitude: -77.84967

Stream class: C NSW

Agency: TPBA

NC stream index: 28-68

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	7	21.9	98.8	2.5	3.1	4.2	5.6	8.1	9.7	13.1
	32	0	<5	9	28.1	99.9	2.5	3.1	4.2	5.6	8.1	9.7	13.1
pH (SU)	32	0	<6	1	3.1		5.6	6.4	6.6	6.8	7	7.2	9.1
	32	0	>9	1	3.1		5.6	6.4	6.6	6.8	7	7.2	9.1
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				51	77	82	98	110	118	121
Water Temperature (°C)	32	0	>32	0	0		4.1	7.6	12.3	20.4	24	26	27.6
Other													
TSS (mg/L)	22	0	N/A				1.3	1.5	2.2	3.4	7.3	15.8	43
Turbidity (NTU)	22	0	>50	1	4.5		2.9	3.2	5.4	8.6	19	23	60
Nutrients (mg/L)													
NH3 as N	22	8	N/A				0.01	0.01	0.01	0.02	0.06	0.22	0.29
NO2 + NO3 as N	22	2	N/A				0.01	0.03	0.14	0.21	0.28	0.34	0.51
TKN as N	22	2	N/A				0.2	0.28	0.56	0.69	0.74	0.92	1.27
Total Phosphorus	22	0	N/A				0.04	0.06	0.07	0.09	0.12	0.18	0.19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
22	145	5	23	73.3									

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT NC 97 AT ROCKY MOUNT

Station #: O3180000

Hydrologic Unit Code: 03020101

Latitude: 35.95438

Longitude: -77.78740

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-(69)

Time period: 01/29/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<4	1	2.1		3.8	5.2	6.2	7.8	11	12.8	14.6
	47	0	<5	4	8.5		3.8	5.2	6.2	7.8	11	12.8	14.6
pH (SU)	51	0	<6	1	2		5.9	6.2	6.4	6.8	7	7.2	7.4
	51	0	>9	0	0		5.9	6.2	6.4	6.8	7	7.2	7.4
Salinity (ppt)	21	0	N/A				0	0	0	0	0	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				66	76	81	89	100	110	168
Water Temperature (°C)	52	0	>32	1	1.9		2.8	5.9	10.2	19	26.6	29.2	32.2
Other													
TSS (mg/L)	19	8	N/A				2.5	2.5	2.5	6.2	7	16	30
Turbidity (NTU)	52	0	>50	0	0		1.5	2.5	3.9	8.2	12	18.4	32
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				64	73	115	370	545	752	780
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	12	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	10	76.9	100	320	356	970	1400	1700	2340	2500
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	12	>50	0	0		10	10	10	10	10	11	11

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	65	5	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 Summaries
 NCDENR, Division of Water Quality
 Basinwide Assessment Report

Location: TAR RIV AT SR 1250 SPRINGFIELD RD AT ROCKY MOUNT

Station #: O3189000

Hydrologic Unit Code: 03020101

Latitude: 35.97789

Longitude: -77.75769

Stream class: C NSW

Agency: TPBA

NC stream index: 28-(69)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	1	3.1		3.7	4.9	5.3	6.5	9.6	11.2	13.2
	32	0	<5	3	9.4		3.7	4.9	5.3	6.5	9.6	11.2	13.2
pH (SU)	32	0	<6	0	0		6.4	6.5	6.7	7	7.1	7.3	7.3
	32	0	>9	0	0		6.4	6.5	6.7	7	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				64	75	82	98	127	173	454
Water Temperature (°C)	32	0	>32	0	0		6.1	9.5	13.6	22.6	26.6	28.3	30.2
Other													
TSS (mg/L)	22	2	N/A				1	1.1	1.9	6	11	39.5	43
Turbidity (NTU)	22	0	>50	0	0		1.7	2.5	3.4	10.4	16.2	29	50
Nutrients (mg/L)													
NH3 as N	22	2	N/A				0.01	0.01	0.03	0.05	0.1	0.15	0.17
NO2 + NO3 as N	22	0	N/A				0.06	0.06	0.13	0.2	0.26	0.39	0.45
TKN as N	22	2	N/A				0.2	0.24	0.45	0.59	0.65	0.71	1.08
Total Phosphorus	22	1	N/A				0.02	0.05	0.06	0.09	0.11	0.15	0.15
Metals (ug/L)													
Aluminum, total (Al)	22	3	N/A				50	50	85	254	690	1322	1465
Arsenic, total (As)	22	22	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	22	22	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	22	22	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	22	8	>7	0	0		2	2	2	3	3	4	5
Iron, total (Fe)	22	0	>1000	14	63.6	100	209	327	661	1188	1840	2756	8710
Lead, total (Pb)	22	22	>25	0	0		5	5	5	5	5	5	5
Mercury, total (Hg)	22	22	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	22	22	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	22	16	>50	0	0		10	10	10	10	10	22	34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean	# > 400:	% > 400:	%Conf:									
22	73	3	14										

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1252 NR HARTSEASE

Station #: O3600000

Latitude: 35.94090

Agency: NCAMBNT

Longitude: -77.65511

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-(74)

Time period: 01/29/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<4	0	0		4.8	5.5	6.3	8	10.9	12.5	16.8
	47	0	<5	1	2.1		4.8	5.5	6.3	8	10.9	12.5	16.8
pH (SU)	51	0	<6	1	2		5.8	6.2	6.4	6.8	7.1	7.3	8.2
	51	0	>9	0	0		5.8	6.2	6.4	6.8	7.1	7.3	8.2
Salinity (ppt)	21	0	N/A				0	0	0	0.1	0.1	0.1	0.1
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				69	84	94	108	126	168	397
Water Temperature (°C)	52	0	>32	0	0		3	6	10.5	19	26	28.5	31.6
Other													
TSS (mg/L)	19	4	N/A				2.5	2.8	2.8	6.2	9.2	22	52
Turbidity (NTU)	52	1	>50	0	0		1	2.3	4	7.6	14	18.4	40
Nutrients (mg/L)													
NH3 as N	52	12	N/A				0.02	0.02	0.02	0.03	0.05	0.07	1.6
NO2 + NO3 as N	52	1	>10	0	0		0.02	0.22	0.32	0.43	0.55	0.74	2.4
TKN as N	52	0	N/A				0.29	0.37	0.43	0.5	0.6	0.64	2.2
Total Phosphorus	52	0	N/A				0.04	0.06	0.08	0.1	0.13	0.19	0.37
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				68	93	145	330	685	1060	1100
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	7	>7	0	0		2	2	2	2	2	4	4
Iron, total (Fe)	13	0	>1000	9	69.2	100	330	370	810	1300	1550	2660	2900
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	13	0	>200	2	15.4	86.6	44	44	57	91	125	300	360
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	12	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	8	>50	0	0		10	10	10	10	12	18	22

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
52	58	3	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT SR 1252 NR HARTSEASE

Station #: O3600000

Latitude: 35.94090

Agency: TPBA

Longitude: -77.65511

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-(74)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.3	5.6	6	7.1	9.4	11.3	14.1
	32	0	<5	0	0		5.3	5.6	6	7.1	9.4	11.3	14.1
pH (SU)	32	0	<6	0	0		6.4	6.7	6.8	7	7.3	7.4	7.4
	32	0	>9	0	0		6.4	6.7	6.8	7	7.3	7.4	7.4
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				67	84	96	120	169	288	309
Water Temperature (°C)	32	0	>32	0	0		6.8	9.7	13.8	22.8	26.6	28.2	29.2
Other													
TSS (mg/L)	22	1	N/A				1	1.3	1.9	7.2	13	20.4	23
Turbidity (NTU)	22	0	>50	0	0		2.3	2.6	3.4	11.5	21	30.6	40
Nutrients (mg/L)													
NH3 as N	22	3	N/A				0.01	0.01	0.03	0.04	0.09	0.14	0.16
NO2 + NO3 as N	22	0	>10	0	0		0.12	0.19	0.34	0.47	0.71	1.55	1.74
TKN as N	22	0	N/A				0.33	0.4	0.5	0.57	0.73	0.99	1.74
Total Phosphorus	22	1	N/A				0.02	0.06	0.08	0.1	0.18	0.21	0.39
Metals (ug/L)													
Aluminum, total (Al)	22	1	N/A				50	74	108	369	626	1362	1600
Arsenic, total (As)	22	22	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	22	22	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	22	22	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	22	5	>7	0	0		2	2	2	3	3	5	6
Iron, total (Fe)	22	0	>1000	12	54.5	100	272	307	626	1122	1754	2264	2758
Lead, total (Pb)	22	22	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	22	0	>200	5	22.7	98.2	48	54	88	112	204	260	286
Mercury, total (Hg)	22	22	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	22	22	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	22	12	>50	0	0		10	10	10	10	16	28	32

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
22	69	3	14

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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: SANDY CRK AT SR 1432 NR GUPTON

Station #: O3830000

Hydrologic Unit Code: 03020101

Latitude: 36.17785

Longitude: -78.19089

Stream class: B NSW +

Agency: NCAMBNT

NC stream index: 28-78-1-(8)

Time period: 01/07/2004 to 12/10/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	51	0	<4	0	0		4.8	5.7	6.8	8	10.6	12.1	12.9
	51	0	<5	1	2		4.8	5.7	6.8	8	10.6	12.1	12.9
pH (SU)	52	0	<6	1	1.9		5.6	6.3	6.6	6.8	7.1	7.3	7.8
	52	0	>9	0	0		5.6	6.3	6.6	6.8	7.1	7.3	7.8
Salinity (ppt)	20	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				45	66	70	74	84	91	115
Water Temperature (°C)	52	0	>32	0	0		3	6.1	9.8	19	23.8	26.6	27.7
Other													
TSS (mg/L)	19	9	N/A				2.5	2.5	3	6	6.2	7	8
Turbidity (NTU)	52	0	>50	0	0		2.8	3	3.5	4.9	6.6	9.5	20
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				58	58	72	120	285	568	660
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	11	84.6	100	830	878	1150	1800	1900	2200	2200
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	12	>50	0	0		10	10	10	10	10	16	20

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	34	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1310 AT HILLIARDSTON

Station #: O3870000

Hydrologic Unit Code: 03020101

Latitude: 36.11175

Longitude: -77.92122

Stream class: C ORW NSW

Agency: NCAMBNT

NC stream index: 28-78-(0.5)

Time period: 01/29/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	47	0	<4	0	0		4	5.4	6	7.7	10.5	12.8	17.5
	47	0	<5	2	4.3		4	5.4	6	7.7	10.5	12.8	17.5
pH (SU)	51	0	<6	0	0		6.1	6.2	6.3	6.7	7	7.2	7.7
	51	0	>9	0	0		6.1	6.2	6.3	6.7	7	7.2	7.7
Salinity (ppt)	21	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	52	0	N/A				45	64	68	72	81	86	100
Water Temperature (°C)	52	0	>32	0	0		0	3.6	8.7	15.2	22.9	25.1	26.8
Other													
TSS (mg/L)	19	6	N/A				3.5	3.5	5	6.2	9	16	91
Turbidity (NTU)	52	0	>50	0	0		3	3.8	5.4	7.5	11	15.7	50
Metals (ug/L)													
Aluminum, total (Al)	13	0	N/A				90	106	155	210	335	1116	1500
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	13	0	>1000	12	92.3	100	880	968	1100	1800	2050	3000	3400
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>50	0	0		10	10	10	10	10	12	13

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
52	103	5	10	

Key:

result: number of observations

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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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1253 NR LEGGETT

Station #: O4000000

Latitude: 35.96679

Agency: NCAMBNT

Longitude: -77.58535

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-78-(6.5)

Time period: 03/24/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	44	0	<4	0	0		4.3	5.4	5.9	7.2	9.3	11.6	14.6
	44	0	<5	2	4.5		4.3	5.4	5.9	7.2	9.3	11.6	14.6
pH (SU)	48	0	<6	1	2.1		5.5	6.1	6.3	6.6	7	7.2	7.5
	48	0	>9	0	0		5.5	6.1	6.3	6.6	7	7.2	7.5
Salinity (ppt)	18	0	N/A				0	0	0	0	0	0	0
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				51	70	79	88	98	114	173
Water Temperature (°C)	49	0	>32	0	0		0.8	5.3	10.8	17.5	24.6	26.4	28.3
Other													
TSS (mg/L)	17	7	N/A				2.5	2.5	3.1	4.5	6.2	14.4	20
Turbidity (NTU)	49	0	>50	0	0		2.5	3.1	4.1	5.2	7.4	11	40
Metals (ug/L)													
Aluminum, total (Al)	11	0	N/A				80	83	100	130	200	418	430
Arsenic, total (As)	11	11	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	11	11	>2	0	0		1	1.2	2	2	2	2	2
Chromium, total (Cr)	11	11	>50	0	0		10	13	25	25	25	25	25
Copper, total (Cu)	11	10	>7	0	0		2	2	2	2	2	4	5
Iron, total (Fe)	11	0	>1000	8	72.7	100	750	766	930	1500	2000	2900	3100
Lead, total (Pb)	11	11	>25	0	0		10	10	10	10	10	10	10
Manganese, total (Mn)	10	0	>200	1	10	73.6	26	28	54	88	170	269	280
Mercury, total (Hg)	10	10	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	11	11	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	11	11	>50	0	0		10	10	10	10	10	10	10

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400: %Conf:
49	75	5	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 Summaries

NCDENR, Division of Water Quality

Basinwide Assessment Report

Location: TAR RIV AT NC 33 NR TARBORO

Station #: O4100000

Latitude: 35.92844

Agency: TPBA

Longitude: -77.54984

Hydrologic Unit Code: 03020101

Stream class: WS-IV NSW

NC stream index: 28-(74)

Time period: 03/13/2007 to 12/18/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	32	0	<4	0	0		5.5	5.6	5.8	7.1	9.3	11.9	13.1
	32	0	<5	0	0		5.5	5.6	5.8	7.1	9.3	11.9	13.1
pH (SU)	32	0	<6	0	0		6.3	6.5	6.7	7	7.3	7.4	7.5
	32	0	>9	0	0		6.3	6.5	6.7	7	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	32	0	N/A				67	84	95	115	164	250	360
Water Temperature (°C)	32	0	>32	0	0		5.9	9.1	13.3	22.5	26.4	28.3	29.9
Other													
Turbidity (NTU)	22	0	>50	0	0		2.1	3.2	4.2	15	28.5	39.1	49
Nutrients (mg/L)													
NH3 as N	22	5	N/A				0.01	0.01	0.02	0.04	0.08	0.13	0.15
NO2 + NO3 as N	22	0	>10	0	0		0.13	0.13	0.26	0.38	0.53	1	1.34
TKN as N	22	1	N/A				0.2	0.27	0.46	0.54	0.67	0.94	1.3
Total Phosphorus	22	1	N/A				0.02	0.06	0.09	0.12	0.19	0.37	0.54

Fecal Coliform Screening(#/100mL)

# results:	Geomean	# > 400:	% > 400:	%Conf:
22	73	2	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