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 12/14/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Percentiles Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	48	0	<4	1	2.1		3.5	5.7	6.4	7.3	9.4	11.6	13
	48	0	<5	1	2.1		3.5	5.7	6.4	7.3	9.4	11.6	13
pH (SU)	48	0	<6	1	2.1		5.4	6.4	6.6	6.9	7.1	7.2	7.4
	48	0	>9	0	0		5.4	6.4	6.6	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	48	0	N/A				61	71	84	99	114	138	175
Water Temperature (°C)	48	0	>32	0	0		2.9	7.2	12.3	20.7	24.3	25.3	26.3
Other													
TSS (mg/L)	33	0	N/A				3	3.3	5.3	7.9	13.5	59.8	128
Turbidity (NTU)	33	0	>50	5	15.2	89.4	6.3	7	8.8	14	26.5	85	230
Nutrients (mg/L)													
NH3 as N	33	13	N/A				0.01	0.01	0.01	0.03	0.08	0.12	0.35
NO2 + NO3 as N	33	2	>10	0	0		0.01	0.02	0.06	0.1	0.17	0.2	0.32
TKN as N	33	2	N/A				0.2	0.21	0.34	0.52	0.76	1.03	1.54
Total Phosphorus	33	0	N/A				0.02	0.04	0.06	0.07	0.12	0.19	0.29
Metals (ug/L)													
Aluminum, total (Al)	28	0	N/A				96	126	235	314	512	2220	12025
Arsenic, total (As)	28	28	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	28	28	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	28	27	>50	0	0		5	5	5	5	5	5	9
Copper, total (Cu)	28	16	>7	1	3.6		2	2	2	2	3	3	13
Iron, total (Fe)	28	0	>1000	27	96.4	100	453	1126	1333	1580	2003	4439	9260
Lead, total (Pb)	28	27	>25	0	0		5	5	5	5	5	5	6
Manganese, total (Mn)	28	0	>200	11	39.3	100	37	61	88	174	385	574	624
Mercury, total (Hg)	28	28	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	28	28	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	28	23	>50	0	0		10	10	10	10	10	13	22

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
33	123.7	8	24.2	80

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