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

Location: CAPE FEAR RIV AT NC 11 NR EAST ARCADIA

Station #: B8360000 **Hydrologic Unit Code:** 03030005

Latitude: 34.39687 **Longitude:** -78.26752 **Stream class:** WS-IV Sw

Agency: LCFRP **NC stream index:** 18-(59)

Time period: 01/12/2005 to 12/10/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	136	0	N/A				4.5	6.2	6.5	7.4	8.8	10.5	12.7
pH (SU)	136	0	<4.3	0	0		6	6.4	6.6	6.8	6.9	7.1	8
	136	0	>9	0	0		6	6.4	6.6	6.8	6.9	7.1	8
Spec. conductance (umhos/cm at 25°C)	136	7	N/A				55	100	110	125	142	175	235
Water Temperature (°C)	136	0	>32	0	0		6.2	10.9	20.7	26.2	28.9	30.1	31.6
Other													
TSS (mg/L)	60	0	N/A				3	5.1	7	9	14.8	28.8	96
Turbidity (NTU)	59	0	>50	2	3.4		4.9	5.9	8.6	11.8	19	36	76.8
Nutrients (mg/L)													
NH3 as N	60	5	N/A				0.01	0.02	0.02	0.04	0.07	0.1	0.13
NO2 + NO3 as N	60	0	>10	0	0		0.2	0.35	0.46	0.64	0.79	0.91	1.84
TKN as N	60	0	N/A				0.2	0.4	0.58	0.7	1	1.25	3.11
Total Phosphorus	60	0	N/A				0.08	0.1	0.12	0.15	0.17	0.21	0.61
Metals (ug/L)													
Aluminum, total (Al)	14	1	N/A				50	67	142	360	502	2440	3320
Arsenic, total (As)	14	13	>10	0	0		1	2	10	10	10	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		5	5	25	25	25	25	25
Copper, total (Cu)	14	10	>7	1	7.1		2	2	2	2	2	6	8
Iron, total (Fe)	14	0	>1000	3	21.4	95.6	416	422	640	759	894	1905	2620
Lead, total (Pb)	14	14	>25	0	0		3	3	10	10	10	10	10
Mercury, total (Hg)	14	13	>0.012	1	7.1		0.2	0.2	0.2	0.2	0.2	0.25	0.3
Nickel, total (Ni)	14	14	>25	0	0		5	5	10	10	10	10	10
Zinc, total (Zn)	14	12	>50	0	0		5	6	10	10	10	12	15

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	22.7	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