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

Location: BURGAW CRK AT US 117 AT BURGAW

Station #: B9520000 **Hydrologic Unit Code:** 03030007

Latitude: 34.56375 **Longitude:** -77.92202 **Stream class:** C Sw

Agency: LCFRP **NC stream index:** 18-74-39

Time period: 01/13/2005 to 12/10/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Percentiles Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				3.3	4.7	5.6	7	9.5	11.3	17.2
pH (SU)	60	0	<4.3	0	0		6.3	6.8	7.2	7.4	7.6	7.9	8.1
	60	0	>9	0	0		6.3	6.8	7.2	7.4	7.6	7.9	8.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				126	213	313	510	832	1126	1258
Water Temperature (°C)	60	0	>32	0	0		5.8	11	13.8	17.8	22.6	26.2	29
Other													
Chlorophyll a (ug/L)	24	1	>40	0	0		1	1	1	2	5	10	13
TSS (mg/L)	60	0	N/A				3	4.1	5.2	7	11.8	17.8	110
Turbidity (NTU)	60	0	>50	1	1.7		4.6	5.5	6.7	8.9	11.9	16.2	119
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.03	0.04	0.07	0.12	0.18	6.51
NO2 + NO3 as N	60	0	N/A				0.04	0.33	1.21	4.8	9.9	16.92	76.61
TKN as N	60	2	N/A				0.1	0.21	0.6	0.97	1.31	1.79	11.29
Total Phosphorus	60	0	N/A				0.15	0.21	0.42	0.81	1.94	3.5	4.28
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				76	139	214	288	444	724	787
Arsenic, total (As)	14	14	>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	13	>50	0	0		5	8	25	25	25	25	25
Copper, total (Cu)	14	11	>7	0	0		2	2	2	2	2	5	6
Iron, total (Fe)	14	0	>1000	3	21.4	95.6	398	436	601	742	973	1525	1890
Lead, total (Pb)	14	14	>25	0	0		3	3	10	10	10	10	10
Mercury, total (Hg)	14	14	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>88	0	0		5	5	10	10	10	10	10
Zinc, total (Zn)	14	5	>50	0	0		7	8	10	11	29	36	38

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	429	33	55	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