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

Location: YADKIN RIV AT US 64 AT YADKIN COLLEGE

Station #: Q2810000 **Hydrologic Unit Code:** 03040101
Latitude: 35.85700 **Longitude:** -80.38628 **Stream class:** WS-IV CA
Agency: YPDRBA **NC stream index:** 12-(97.5)

Time period: 01/25/2005 to 12/15/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		6.4	6.8	7.1	7.8	10.1	11.3	13
	85	0	<5	0	0		6.4	6.8	7.1	7.8	10.1	11.3	13
pH (SU)	85	0	<6	0	0		6.7	6.9	7	7.1	7.2	7.2	7.4
	85	0	>9	0	0		6.7	6.9	7	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				77	91	96	110	120	140	185
Water Temperature (°C)	85	0	>32	0	0		3.3	6.4	10.2	18.5	22.7	24	25.3
Other													
TSS (mg/L)	60	0	N/A				1.9	4.3	9.3	14.5	22.5	43.7	420
Turbidity (NTU)	60	0	>50	8	13.3	85.8	4.2	9.3	13	19.5	33	64	170
Nutrients (mg/L)													
NH3 as N	60	9	N/A				0.01	0.01	0.03	0.06	0.11	0.23	0.58
NO2 + NO3 as N	60	0	>10	0	0		0.29	0.53	0.71	1.08	1.57	1.92	3.29
TKN as N	60	5	N/A				0.2	0.24	0.36	0.55	0.79	1.17	4.65
Total Phosphorus	60	0	N/A				0.06	0.09	0.13	0.24	0.5	0.68	8.28
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				133	160	254	561	979	1366	1697
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	14	14	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	14	13	>50	0	0		5	5	5	5	5	6	7
Copper, total (Cu)	14	4	>7	0	0		2	2	2	3	3	4	5
Iron, total (Fe)	14	0	>1000	10	71.4	100	654	683	947	1236	1915	2371	2549
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	14	0	>200	2	14.3	84.2	80	80	92	134	172	226	245
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	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	8	>50	0	0		10	10	10	10	16	22	22

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	37.3	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