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

Location: YADKIN RIV AT SR 2303 AT RONDA

Station #: Q0720000 **Hydrologic Unit Code:** 03040101

Latitude: 36.21548 **Longitude:** -80.93678 **Stream class:** WS-IV

Agency: YPDRBA **NC stream index:** 12-(47.5)

Time period: 01/23/2005 to 12/13/2009

	# 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		5.6	6.4	6.7	7.5	9.1	10.6	12.5
	85	0	<5	0	0		5.6	6.4	6.7	7.5	9.1	10.6	12.5
pH (SU)	85	0	<6	0	0		6.7	6.8	6.9	7.1	7.2	7.2	7.4
	85	0	>9	0	0		6.7	6.8	6.9	7.1	7.2	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	7	N/A				50	51	59	67	74	83	107
Water Temperature (°C)	85	0	>29	0	0		4.5	7.3	12.8	19.5	22.3	24.8	27.2
Other													
Turbidity (NTU)	60	0	>50	2	3.3		1.7	3.8	5.6	10.3	15	25.9	55
Nutrients (mg/L)													
NH3 as N	60	14	N/A				0.01	0.01	0.01	0.04	0.07	0.12	0.3
NO2 + NO3 as N	60	0	>10	0	0		0.15	0.34	0.44	0.58	0.69	0.87	1.1
TKN as N	60	11	N/A				0.18	0.2	0.2	0.32	0.49	0.63	1.33
Total Phosphorus	60	1	N/A				0.02	0.05	0.07	0.11	0.15	0.23	0.64
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				133	152	336	400	942	1521	1997
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	14	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	14	9	>7	0	0		2	2	2	2	4	4	4
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	378	430	520	650	1387	2862	4085
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	14	0	>200	0	0		26	30	36	47	65	94	116
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	12	>25	0	0		10	10	10	10	10	11	12
Zinc, total (Zn)	14	10	>50	1	7.1		10	10	10	10	13	37	56

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	40.5	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