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

Location: YADKIN RIV AT SR 1003 NR SILOAM

Station #: Q1350000 **Hydrologic Unit Code:** 03040101
Latitude: 36.28238 **Longitude:** -80.56223 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-(53)

Time period: 01/24/2005 to 12/14/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		6.3	6.6	7.1	8.4	10.6	11.8	13
	84	0	<5	0	0		6.3	6.6	7.1	8.4	10.6	11.8	13
pH (SU)	84	0	<6	0	0		6.7	6.9	7	7.1	7.2	7.2	7.3
	84	0	>9	0	0		6.7	6.9	7	7.1	7.2	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				66	81	91	102	110	118	130
Water Temperature (°C)	84	0	>29	0	0		3.9	6.7	10.2	17.4	21.9	23.6	25.2
Other													
TSS (mg/L)	59	2	N/A				1	2.9	7.9	13	30	44	97
Turbidity (NTU)	59	0	>50	6	10.2	62.3	2.2	3.6	7.6	13	29	54	110
Nutrients (mg/L)													
NH3 as N	59	18	N/A				0.01	0.01	0.01	0.04	0.07	0.16	0.64
NO2 + NO3 as N	59	0	N/A				0.4	0.45	0.52	0.62	0.72	0.87	0.95
TKN as N	59	13	N/A				0.2	0.2	0.23	0.38	0.58	0.83	1.84
Total Phosphorus	59	0	N/A				0.03	0.06	0.09	0.13	0.16	0.24	0.49
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				122	128	203	411	720	1202	1538
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	2	4	5
Iron, total (Fe)	14	0	>1000	4	28.6	99.1	382	386	538	664	1078	1598	1886
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
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		10	10	10	10	10	10	10
Zinc, total (Zn)	14	10	>50	1	7.1		10	10	10	10	11	52	65

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
59	36.8	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