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

Location: YADKIN RIV AT SR 1002 AT HIGH ROCK

Station #: Q6120000 **Hydrologic Unit Code:** 03040103

Latitude: 35.59680 **Longitude:** -80.23128 **Stream class:** WS-IV B CA

Agency: YPDRBA **NC stream index:** 12-(124.5)

Time period: 01/27/2005 to 12/17/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	5.9	6.3	7.2	9.5	10.4	12.5
	85	0	<5	1	1.2		3.8	5.9	6.3	7.2	9.5	10.4	12.5
pH (SU)	85	0	<6	0	0		6.6	6.8	6.9	7	7.1	7.2	7.3
	85	0	>9	0	0		6.6	6.8	6.9	7	7.1	7.2	7.3
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				90	107	117	134	163	190	248
Water Temperature (°C)	85	0	>32	0	0		4	7.8	12.2	20.7	24.4	25.4	27.5
Other													
Chlorophyll a (ug/L)	12	0	>40	4	33.3	99.6	10	10	20	32	44	83	94
TSS (mg/L)	60	0	N/A				2.6	4.4	6	7.5	9.6	13.9	63
Turbidity (NTU)	60	0	>50	1	1.7		3.5	5.2	7	10	14.8	33.4	70
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.01	0.02	0.04	0.09	0.11	0.49
NO2 + NO3 as N	60	5	>10	0	0		0.01	0.01	0.18	0.36	0.61	0.74	0.81
TKN as N	60	1	N/A				0.2	0.35	0.44	0.62	0.88	1.11	4.96
Total Phosphorus	60	1	N/A				0.02	0.04	0.05	0.09	0.13	0.21	1.5
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				79	120	242	361	758	1871	2449
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	8	10
Copper, total (Cu)	14	3	>7	0	0		2	2	2	2	3	4	5
Iron, total (Fe)	14	0	>1000	5	35.7	99.9	188	260	448	720	1179	1820	2072
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	14	0	>200	0	0		36	38	42	56	76	135	192
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	10	>50	0	0		10	10	10	10	11	17	21

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	66.5	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