

# Appendix 4C

## Ambient Monitoring Station Data Summary Sheets

### Pamlico River Subbasin HUC 03020104

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The full report is available on the DWQ Environmental Sciences Section website:

<http://portal.ncdenr.org/web/wq/ess/reports>.



**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT US 17 AT WASHINGTON

**Station #:** O7650000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.54321

**Longitude:** -77.06152

**Stream class:** SC NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(1)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	4	3.4		3.2	5.7	6.6	8.2	9.9	11.6	15.8
pH (SU)	118	0	<6.8	20	16.9	99.3	5.9	6.6	6.9	7.3	7.6	7.8	8.2
	118	0	>8.5	0	0		5.9	6.6	6.9	7.3	7.6	7.8	8.2
Salinity (ppt)	119	0	N/A				0.01	0.02	0.03	0.08	0.89	4.5	11.04
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				51	74	91	159	1669	8054	18690
Water Temperature (°C)	119	0	>32	0	0		2.7	7.7	10.7	18.4	26.6	28.9	31.9
<b>Other</b>													
Chlorophyll a (ug/L)	110	5	>40	15	13.6	91.9	1	1	2	6	28	62	160
TSS (mg/L)	20	1	N/A				2.5	3.3	6.4	9.9	13	24	29
Turbidity (NTU)	119	0	>25	2	1.7		3	5.6	6.8	8.5	12	17	62
<b>Nutrients (mg/L)</b>													
NH3 as N	119	52	N/A				0.02	0.02	0.02	0.03	0.05	0.08	0.26
NO2 + NO3 as N	119	21	N/A				0.02	0.02	0.13	0.28	0.41	0.5	0.71
TKN as N	119	0	N/A				0.26	0.44	0.52	0.65	0.77	0.9	1.8
Total Phosphorus	119	0	N/A				0.05	0.06	0.08	0.11	0.13	0.16	0.25
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				180	188	265	320	560	848	920
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	19	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>3	0	0		2	2	2	2	2	7	10
Iron, total (Fe)	13	0	N/A				600	616	820	1200	1400	1580	1700
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	12	>86	0	0		10	10	10	10	10	10	10
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	39	3	3										

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT CM 16 NR WHICHARD BEACH

**Station #:** O7680000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.50791

**Longitude:** -77.02034

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	4	3.4		3.5	6	7.5	8.7	10.1	11.6	14.6
pH (SU)	118	0	<6.8	13	11	70.9	6.2	6.7	7.1	7.5	7.8	8	8.8
	118	0	>8.5	1	0.8		6.2	6.7	7.1	7.5	7.8	8	8.8
Salinity (ppt)	119	0	N/A				0.01	0.03	0.09	1.11	3.64	8.65	14.18
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				51	83	184	2063	6561	14900	23515
Water Temperature (°C)	119	0	>32	0	0		2.6	7.7	10.8	19	26.3	29.2	31.1
<b>Other</b>													
Chlorophyll a (ug/L)	110	1	>40	23	20.9	100	1	2	4	20	37	50	230
TSS (mg/L)	20	0	N/A				4	6	6.4	8.7	13.5	16.9	28
Turbidity (NTU)	119	0	>25	3	2.5		1.8	5	6.7	8.7	12	14	35
<b>Nutrients (mg/L)</b>													
NH3 as N	119	65	N/A				0.02	0.02	0.02	0.02	0.04	0.07	0.43
NO2 + NO3 as N	119	37	N/A				0.02	0.02	0.02	0.16	0.35	0.43	0.66
TKN as N	119	0	N/A				0.34	0.47	0.58	0.67	0.84	0.94	1.4
Total Phosphorus	119	1	N/A				0.02	0.06	0.08	0.1	0.13	0.16	0.61
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	14	0	N/A				140	140	165	215	462	680	690
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>5	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>3	4	28.6	99.1	2	2	2	2	3	5	5
Iron, total (Fe)	14	0	N/A				480	520	642	925	1350	1650	1800
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	13	13	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	11	>86	0	0		10	10	10	10	10	27	40

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400: %Conf:
119	25	3	3

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** CHOCOWINITY BAY ABOVE SILAS CRK NR WHICHARD BEACH

**Station #:** O7710000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.50310

**Longitude:** -77.04231

**Stream class:** SC NSW

**Agency:** NCAMBNT

**NC stream index:** 29-6-(1)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	2	1.7		4.3	6.7	7.7	9.3	11.3	12.7	16.3
pH (SU)	118	0	<6.8	5	4.2		6.4	6.9	7.3	7.6	8	8.4	9.3
	118	0	>8.5	5	4.2		6.4	6.9	7.3	7.6	8	8.4	9.3
Salinity (ppt)	119	0	N/A				0.05	0.14	0.6	2.24	5.49	9.86	15.11
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				124	298	1225	4086	9715	16834	24936
Water Temperature (°C)	119	0	>32	0	0		1.9	7.4	11.2	19	26.6	29.7	31.5
<b>Other</b>													
Chlorophyll a (ug/L)	109	0	>40	28	25.7	100	2	12	20	31	42	55	120
TSS (mg/L)	20	1	N/A				4	6.4	9.2	12	15.5	20.5	33
Turbidity (NTU)	119	0	>25	2	1.7		2.5	5.3	7.2	9.4	12	15	53
<b>Nutrients (mg/L)</b>													
NH3 as N	119	103	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.21
NO2 + NO3 as N	119	72	N/A				0.02	0.02	0.02	0.02	0.1	0.19	0.47
TKN as N	119	0	N/A				0.44	0.59	0.66	0.78	0.97	1.1	1.6
Total Phosphorus	119	0	N/A				0.05	0.06	0.08	0.11	0.15	0.2	0.46
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				100	116	155	200	415	772	960
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	6.8	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	8	>3	3	23.1	96.6	2	2	2	2	3	8	9
Iron, total (Fe)	13	0	N/A				220	252	440	570	815	1412	1700
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	9	>86	0	0		10	10	10	10	10	12	12
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	13	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON MID CHANNEL  
**Station #:** O787000C **Hydrologic Unit Code:** 03020104  
**Latitude:** 35.46183 **Longitude:** -76.95956 **Stream class:** SB NSW  
**Agency:** NCAMBNT **NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	1	0.9		4.8	7.2	7.8	9.4	11.1	12.2	15.1
pH (SU)	119	0	<6.8	8	6.7		6.2	6.9	7.2	7.7	8	8.2	8.9
	119	0	>8.5	5	4.2		6.2	6.9	7.2	7.7	8	8.2	8.9
Salinity (ppt)	120	0	N/A				0.02	0.24	1.33	3.58	7	13.27	16.76
Spec. conductance (umhos/cm at 25°C)	120	0	N/A				74	481	2461	6488	12208	22110	27370
Water Temperature (°C)	120	0	>32	0	0		2.4	6.7	10.6	18.2	25.8	28.5	30.2
<b>Other</b>													
Chlorophyll a (ug/L)	110	0	>40	21	19.1	99.9	1	7	14	23	33	54	78
TSS (mg/L)	20	0	N/A				4.8	6	6.6	8.5	12.8	18.6	35
Turbidity (NTU)	119	0	>25	2	1.7		1.3	4.3	5.5	6.8	9.6	15	33
<b>Nutrients (mg/L)</b>													
NH3 as N	119	92	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.2
NO2 + NO3 as N	119	64	N/A				0.02	0.02	0.02	0.02	0.14	0.27	0.48
TKN as N	119	0	N/A				0.4	0.53	0.61	0.7	0.82	0.9	1.1
Total Phosphorus	119	0	N/A				0.04	0.06	0.06	0.08	0.12	0.16	0.28
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	14	0	N/A				62	63	82	190	438	780	950
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>5	0	0		1	1	2	2	2	11	20
Chromium, total (Cr)	14	14	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	3	>3	7	50	100	2	2	2	3	4	6	7
Iron, total (Fe)	14	0	N/A				220	260	405	720	1075	1600	1700
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	13	13	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	11	>86	0	0		10	10	10	10	11	28	40
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	7	1	1										

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON N SHORE  
**Station #:** O787000N **Hydrologic Unit Code:** 03020104  
**Latitude:** 35.48094 **Longitude:** -76.95642 **Stream class:** SB NSW  
**Agency:** NCAMBNT **NC stream index:** 29-10-(3)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	1	0.9		3.4	6.7	7.6	9.2	10.6	12.1	16.9
pH (SU)	118	0	<6.8	9	7.6		5.8	6.8	7.1	7.6	7.9	8.1	8.9
	118	0	>8.5	6	5.1		5.8	6.8	7.1	7.6	7.9	8.1	8.9
Salinity (ppt)	119	0	N/A				0.03	0.43	1.88	3.66	7.6	13.54	16.96
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				84	838	3469	6846	13044	22514	27659
Water Temperature (°C)	119	0	>32	0	0		2.7	7.2	11.2	18.3	26.1	28.7	30.2
<b>Other</b>													
Chlorophyll a (ug/L)	2	0	>40	2	100		61	61	61	68	76	76	76
TSS (mg/L)	20	1	N/A				2.5	5.3	9	10.5	16.8	21.8	32
Turbidity (NTU)	119	0	>25	3	2.5		1.6	4.3	5.8	8	11	14	29
<b>Nutrients (mg/L)</b>													
NH3 as N	119	89	N/A				0.02	0.02	0.02	0.02	0.02	0.07	0.29
NO2 + NO3 as N	119	64	N/A				0.02	0.02	0.02	0.02	0.12	0.24	0.44
TKN as N	119	0	N/A				0.36	0.56	0.65	0.73	0.86	0.95	1.3
Total Phosphorus	119	0	N/A				0.04	0.06	0.07	0.09	0.12	0.17	0.28
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				130	134	205	260	420	680	820
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	19	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	8	>3	4	30.8	99.4	2	2	2	2	7	9	10
Iron, total (Fe)	13	0	N/A				240	276	415	660	1040	1160	1200
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	9	>86	0	0		10	10	10	10	13	28	36

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400: %Conf:
119	13	2	2

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON S SHORE  
**Station #:** O787000S **Hydrologic Unit Code:** 03020104  
**Latitude:** 35.44533 **Longitude:** -76.96217 **Stream class:** SB NSW  
**Agency:** NCAMBNT **NC stream index:** 29-9

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	115	0	<5	1	0.9		3.8	6.5	7.7	9.4	11	12.5	18.3
pH (SU)	118	0	<6.8	3	2.5		6.6	7	7.3	7.7	8	8.4	9
	118	0	>8.5	7	5.9		6.6	7	7.3	7.7	8	8.4	9
Salinity (ppt)	119	0	N/A				0.03	0.43	1.56	3.57	7.41	13.28	16.67
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				78	852	2880	6454	12898	22147	27225
Water Temperature (°C)	119	0	>32	0	0		3.2	7.8	11	18.7	26	28.8	30.7
<b>Other</b>													
Chlorophyll a (ug/L)	4	0	>40	1	25		5	5	6	12	176	230	230
TSS (mg/L)	19	1	N/A				6	6.2	7.5	9.8	12	14	18
Turbidity (NTU)	119	0	>25	3	2.5		1.3	4.2	5.5	7	10	14	41
<b>Nutrients (mg/L)</b>													
NH3 as N	119	94	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.7
NO2 + NO3 as N	119	60	N/A				0.02	0.02	0.02	0.02	0.12	0.25	0.47
TKN as N	119	0	N/A				0.39	0.54	0.61	0.72	0.8	0.9	1.8
Total Phosphorus	119	0	N/A				0.04	0.05	0.06	0.08	0.13	0.16	0.37
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				62	64	108	180	315	404	460
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	10	10
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	6	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	9	>3	4	30.8	99.4	2	2	2	2	5	9	10
Iron, total (Fe)	13	0	N/A				120	148	305	490	700	1040	1100
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	11	>86	0	0		10	10	10	10	10	18	23
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	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



**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** BATH CRK AT NC 92 NR BATH

**Station #:** O8495000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.47745

**Longitude:** -76.81692

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-19-(5.5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	119	0	<5	0	0		5.1	7.2	7.9	9.2	10.6	12.6	14.4
pH (SU)	119	0	<6.8	1	0.8		6.7	7.3	7.6	7.8	8.1	8.3	8.7
	119	0	>8.5	6	5		6.7	7.3	7.6	7.8	8.1	8.3	8.7
Salinity (ppt)	119	0	N/A				1.55	2.67	4.19	6.7	10.5	15.32	19.27
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				2880	4871	7507	11716	17865	25215	31022
Water Temperature (°C)	119	0	>32	2	1.7		3.4	7.2	12	19.4	28.2	30.5	33.1
<b>Other</b>													
Chlorophyll a (ug/L)	110	0	>40	14	12.7	86.6	3	7	15	22	33	45	72
TSS (mg/L)	19	0	N/A				7.2	7.2	9.8	14	18	21	22
Turbidity (NTU)	119	0	>25	1	0.8		1	3.3	4.9	7.5	11	14	92
<b>Nutrients (mg/L)</b>													
NH3 as N	119	108	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.31
NO2 + NO3 as N	119	91	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.96
TKN as N	119	0	N/A				0.38	0.56	0.65	0.76	0.88	1	1.3
Total Phosphorus	119	0	N/A				0.03	0.04	0.06	0.07	0.11	0.17	0.35
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	14	0	N/A				77	88	125	210	332	370	390
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	10	18	25
Cadmium, total (Cd)	14	14	>5	0	0		1	1	2	2	4	10	10
Chromium, total (Cr)	14	14	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>3	5	35.7	99.9	2	2	2	2	9	12	14
Iron, total (Fe)	14	0	N/A				60	67	170	325	362	495	570
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	13	13	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	9	>86	0	0		10	10	10	10	14	23	31
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	12	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT CM 5 NR CORE POINT

**Station #:** O8498000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.43048

**Longitude:** -76.84144

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	119	0	<5	0	0		5.5	7.3	8.2	9.4	10.9	12.6	14.3
pH (SU)	119	0	<6.8	0	0		6.8	7.1	7.5	7.8	8.2	8.3	8.9
	119	0	>8.5	6	5		6.8	7.1	7.5	7.8	8.2	8.3	8.9
Salinity (ppt)	119	0	N/A				0.57	1.7	3.53	6.12	10.33	15.67	19.04
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				1073	3150	6375	10772	17583	25737	30724
Water Temperature (°C)	119	0	>32	0	0		3.4	8	10.9	18.7	26.6	29.4	31.9
<b>Other</b>													
Chlorophyll a (ug/L)	109	0	>40	16	14.7	95.7	3	9	13	19	33	46	120
TSS (mg/L)	19	2	N/A				2.5	4	6.2	9.2	15	32	49
Turbidity (NTU)	118	0	>25	2	1.7		1.5	2.9	3.8	4.9	7.1	11.1	66
<b>Nutrients (mg/L)</b>													
NH3 as N	119	108	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	119	87	N/A				0.02	0.02	0.02	0.02	0.02	0.11	0.21
TKN as N	119	1	N/A				0.2	0.51	0.58	0.66	0.8	0.88	1.3
Total Phosphorus	119	0	N/A				0.03	0.04	0.05	0.06	0.09	0.12	0.28
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				78	86	120	170	355	394	410
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	19	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	6.8	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	7	>3	4	30.8	99.4	2	2	2	3	4	9	10
Iron, total (Fe)	13	0	N/A				150	150	185	340	655	730	770
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	9	>86	0	0		10	10	10	10	11	27	32
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	2	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT CM 4 NR GUM POINT MID CHANNEL

**Station #:** O865000C

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.40471

**Longitude:** -76.76707

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	119	0	<5	0	0		6.2	7.2	8.1	9.3	10.7	12.5	14.7
pH (SU)	119	0	<6.8	2	1.7		6.7	7.3	7.7	7.9	8.1	8.3	8.7
	119	0	>8.5	2	1.7		6.7	7.3	7.7	7.9	8.1	8.3	8.7
Salinity (ppt)	119	0	N/A				0.82	3.41	5.05	7.61	11.1	16.9	20.51
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				1541	6156	8974	13234	18734	27566	32830
Water Temperature (°C)	119	0	>32	1	0.8		3.9	8	11	18.6	26.2	29.3	32.3
<b>Other</b>													
Chlorophyll a (ug/L)	110	0	>40	13	11.8	79.1	2	7	11	16	30	44	76
TSS (mg/L)	20	1	N/A				2.5	3.2	6.2	7.9	18.2	24.7	25
Turbidity (NTU)	119	0	>25	0	0		1	2.2	2.8	4.1	5.6	8.2	15
<b>Nutrients (mg/L)</b>													
NH3 as N	119	105	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.15
NO2 + NO3 as N	119	94	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.13
TKN as N	119	0	N/A				0.27	0.47	0.55	0.63	0.73	0.87	1
Total Phosphorus	119	0	N/A				0.02	0.03	0.04	0.05	0.08	0.1	0.17
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	1	N/A				50	51	125	160	265	402	410
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	19	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	10	>3	2	15.4	86.6	2	2	2	2	3	9	10
Iron, total (Fe)	13	1	N/A				50	70	105	210	325	614	650
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	10	>86	0	0		10	10	10	10	12	17	17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	2	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT CM 4 NR GUM POINT N SHORE

**Station #:** O865000N

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.41285

**Longitude:** -76.76343

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	119	0	<5	0	0		6.1	7.4	8	9.2	10.8	12.3	16.1
pH (SU)	119	0	<6.8	1	0.8		6.7	7.3	7.6	7.9	8.2	8.3	8.7
	119	0	>8.5	2	1.7		6.7	7.3	7.6	7.9	8.2	8.3	8.7
Salinity (ppt)	119	0	N/A				1.24	3.26	5.05	8.22	11.44	16.93	20.05
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				2303	5875	8882	14249	19212	27604	32162
Water Temperature (°C)	119	0	>32	0	0		4	8	10.9	18.6	26.4	29.2	31.6
<b>Other</b>													
TSS (mg/L)	20	3	N/A				5.8	6	6.2	10.8	15.5	19	21
Turbidity (NTU)	119	1	>25	0	0		1	2.2	3.2	4.2	6.1	8.7	14
<b>Nutrients (mg/L)</b>													
NH3 as N	117	106	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	117	93	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.2
TKN as N	117	0	N/A				0.36	0.46	0.54	0.62	0.74	0.86	1.2
Total Phosphorus	117	0	N/A				0.02	0.04	0.04	0.06	0.08	0.11	0.19
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				53	54	73	100	175	186	190
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	40	50
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	10	10	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>3	2	15.4	86.6	2	2	2	2	8	10	10
Iron, total (Fe)	13	1	N/A				50	52	64	90	190	334	350
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	34	50
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	9	>86	0	0		10	10	10	10	10	14	15
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	2	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT CM 4 NR GUM POINT S SHORE

**Station #:** O865000S

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.38992

**Longitude:** -76.77234

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(5)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	117	0	<5	1	0.9		4	6.7	7.5	9	10.7	12.2	14.5
pH (SU)	117	0	<6.8	2	1.7		6.5	7.3	7.5	7.8	8	8.3	8.6
	117	0	>8.5	2	1.7		6.5	7.3	7.5	7.8	8	8.3	8.6
Salinity (ppt)	117	0	N/A				1.2	3.5	4.91	7.25	10.49	15.84	19.4
Spec. conductance (umhos/cm at 25°C)	117	0	N/A				2231	6310	8748	12596	17965	25934	31223
Water Temperature (°C)	117	0	>32	1	0.9		3.6	8.2	11	18.8	26.1	28.8	32.1
<b>Other</b>													
Chlorophyll a (ug/L)	3	0	>40	3	100		42	42	42	55	100	100	100
TSS (mg/L)	20	0	N/A				2.5	5.2	7.6	11	14.2	21.7	26
Turbidity (NTU)	119	0	>25	0	0		1.5	2.9	4.1	5.4	7	9.6	17
<b>Nutrients (mg/L)</b>													
NH3 as N	118	93	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.17
NO2 + NO3 as N	118	80	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.19
TKN as N	118	0	N/A				0.36	0.51	0.56	0.66	0.77	0.88	1.2
Total Phosphorus	118	0	N/A				0.03	0.04	0.06	0.07	0.09	0.13	0.2
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	14	1	N/A				50	50	103	165	275	430	530
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	10	38	50
Cadmium, total (Cd)	14	14	>5	0	0		1	1	2	2	10	10	10
Chromium, total (Cr)	14	14	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>3	4	28.6	99.1	2	2	2	2	10	14	15
Iron, total (Fe)	14	0	N/A				63	73	159	250	362	590	590
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	13	13	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	13	>86	0	0		10	10	10	10	10	12	13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
119	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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV AT HICKORY PT NR SOUTH CRK

**Station #:** O9059000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.38542

**Longitude:** -76.68372

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(27)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	119	0	<5	0	0		6	7.3	8	9	10.9	12.4	14
pH (SU)	119	0	<6.8	2	1.7		6.7	7.3	7.6	7.9	8.1	8.2	8.6
	119	0	>8.5	2	1.7		6.7	7.3	7.6	7.9	8.1	8.2	8.6
Salinity (ppt)	119	0	N/A				2.8	5.04	6.69	9.6	12.91	18.04	21.03
Spec. conductance (umhos/cm at 25°C)	119	0	N/A				4975	8949	11708	16374	21582	29163	33568
Water Temperature (°C)	119	0	>32	1	0.8		3.1	7.6	10.8	18	26.2	29.1	32.6
<b>Other</b>													
Chlorophyll a (ug/L)	110	0	>40	3	2.7		2	5	8	12	20	29	110
TSS (mg/L)	20	3	N/A				4	6	6.5	9.4	14	21.7	24
Turbidity (NTU)	119	1	>25	0	0		1	1.8	2.5	3.5	4.9	7	16
<b>Nutrients (mg/L)</b>													
NH3 as N	118	109	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.11
NO2 + NO3 as N	118	98	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.09
TKN as N	118	0	N/A				0.31	0.42	0.49	0.58	0.67	0.73	1.3
Total Phosphorus	118	0	N/A				0.03	0.03	0.04	0.05	0.07	0.09	0.13
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	1	N/A				50	55	71	110	160	294	350
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	40	50
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	10	10	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>3	0	0		2	2	2	2	6	10	10
Iron, total (Fe)	13	6	N/A				50	50	50	60	185	250	270
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	34	50
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	8	>86	0	0		10	10	10	10	11	13	13
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>		<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>				
119	1	0	0			1	2	2					

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO CRK AT NC 92 AT SIDNEY CROSSROADS

**Station #:** O9750500

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.49938

**Longitude:** -76.67239

**Stream class:** SC NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-35

**Time period:** 01/14/2004 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	56	0	<5	0	0		5.6	6.8	8.1	9.4	10.8	12.6	15
pH (SU)	60	0	<6.8	4	6.7		5.9	6.8	7.2	7.7	8	8.3	8.8
	60	0	>8.5	2	3.3		5.9	6.8	7.2	7.7	8	8.3	8.8
Salinity (ppt)	60	0	N/A				0.48	3.33	4.72	7.9	12.08	16.59	19.98
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				920	6141	8707	13692	20306	27100	32059
Water Temperature (°C)	60	0	>32	2	3.3		4	9.2	13.1	20.5	26.7	30.1	34.2
<b>Other</b>													
Chlorophyll a (ug/L)	55	0	>40	18	32.7	100	1	5	13	26	48	68	2900
TSS (mg/L)	20	0	N/A				8.8	9.3	11	13.5	25.8	35.4	45
Turbidity (NTU)	59	0	>25	2	3.4		1.1	3.1	5.4	7.2	10	15	40
<b>Nutrients (mg/L)</b>													
NH3 as N	60	47	N/A				0.02	0.02	0.02	0.02	0.02	0.07	0.32
NO2 + NO3 as N	60	34	N/A				0.02	0.02	0.02	0.02	0.13	0.42	0.87
TKN as N	60	0	N/A				0.37	0.64	0.83	0.98	1.2	1.39	8.2
Total Phosphorus	60	0	N/A				0.03	0.04	0.05	0.08	0.11	0.16	1
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				120	128	190	350	540	830	830
Arsenic, total (As)	13	11	>10	1	7.7		5	5	5	5	11	25	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	10	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	10	>3	1	7.7		2	2	2	2	10	12	13
Iron, total (Fe)	13	0	N/A				81	93	180	280	345	506	550
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	3	>86	0	0		10	10	11	14	18	33	38

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400: %Conf:
59	19	3	5

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PANTEGO CRK AT NC 92 AT BELHAVEN

**Station #:** O9751000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.54248

**Longitude:** -76.63630

**Stream class:** SC NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-34-(2)

**Time period:** 01/14/2004 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<5	3	5.5		4.1	6.2	7.5	9.6	10.9	12.1	14.1
pH (SU)	59	0	<6.8	5	8.5		5.9	6.9	7.2	7.6	8	8.4	8.9
	59	0	>8.5	3	5.1		5.9	6.9	7.2	7.6	8	8.4	8.9
Salinity (ppt)	59	0	N/A				0.3	3.01	4.4	7.66	11.85	17.47	19.93
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				589	5555	7888	13335	19920	28399	31986
Water Temperature (°C)	59	0	>32	2	3.4		2	9.8	13.2	20.4	26.5	30.5	32.7
<b>Other</b>													
Chlorophyll a (ug/L)	54	0	>40	11	20.4	99.4	1	6	10	20	37	67	180
TSS (mg/L)	20	0	N/A				5	8	12	15	29.8	34.6	40
Turbidity (NTU)	58	0	>25	3	5.2		3.2	4.3	6.2	8.4	13	18.1	96
<b>Nutrients (mg/L)</b>													
NH3 as N	59	33	N/A				0.02	0.02	0.02	0.02	0.05	0.12	0.36
NO2 + NO3 as N	59	22	N/A				0.02	0.02	0.02	0.07	0.8	1.4	5
TKN as N	59	0	N/A				0.53	0.68	0.84	1	1.3	1.5	2.4
Total Phosphorus	59	0	N/A				0.03	0.05	0.06	0.07	0.1	0.15	0.21
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	14	0	N/A				150	170	260	570	788	1600	2100
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	6	10	10
Cadmium, total (Cd)	14	14	>5	0	0		1	1	2	2	2	10	10
Chromium, total (Cr)	14	14	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	14	9	>3	4	28.6	99.1	2	2	2	2	6	12	15
Iron, total (Fe)	14	0	N/A				250	275	325	630	912	1100	1100
Lead, total (Pb)	14	14	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	14	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	14	2	>86	0	0		10	10	12	14	19	22	23

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400: %Conf:
58	13	3	5

**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



**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** VAN SWAMP AT NC 32 NR HOKE

**Station #:** O9755000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.73038

**Longitude:** -76.74653

**Stream class:** C Sw NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-34-(1)

**Time period:** 01/14/2004 to 12/04/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	57	0	N/A				0.9	1.5	4.2	6.6	7.8	9.2	11.7
pH (SU)	60	0	<4.3	37	61.7	100	3	3.4	3.6	4	4.5	5.3	6.6
	60	0	>9	0	0		3	3.4	3.6	4	4.5	5.3	6.6
Salinity (ppt)	59	0	N/A				0.01	0.02	0.03	0.04	0.05	0.07	0.13
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				58	73	91	110	125	151	268
Water Temperature (°C)	60	0	>32	0	0		3.9	8.5	10.5	14.9	20.3	23	26.5
<b>Other</b>													
TSS (mg/L)	20	9	N/A				2.5	2.5	2.5	6	10.8	21.5	25
Turbidity (NTU)	60	0	>50	4	6.7		1.4	2.1	2.8	5.4	14.5	49	210
<b>Nutrients (mg/L)</b>													
NH3 as N	60	10	N/A				0.02	0.02	0.03	0.08	0.38	1.69	3.6
NO2 + NO3 as N	60	27	N/A				0.02	0.02	0.02	0.08	0.26	0.45	3.3
TKN as N	60	0	N/A				0.74	0.8	0.92	1.2	1.8	4.05	5.9
Total Phosphorus	60	8	N/A				0.02	0.02	0.02	0.03	0.08	0.19	0.52
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				1500	1580	1800	1900	2000	2060	2100
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	5	10	10
Cadmium, total (Cd)	13	13	>2	0	0		1	1.4	2	2	2	2	2
Chromium, total (Cr)	13	13	>50	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	13	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	13	0	>1000	6	46.2	100	530	546	675	930	2250	3960	4200
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	6	>50	0	0		10	10	10	10	14	17	19
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>									
60	18	4	7										

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT US 264 NR PONZER

**Station #:** O9758500

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.57135

**Longitude:** -76.50152

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/14/2004 to 12/15/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	55	0	<5	8	14.5	90.6	3.3	4.5	5.8	7.5	8.8	10.1	14.3
pH (SU)	59	0	<6.8	32	54.2	100	4.7	5.9	6.3	6.6	7.2	7.3	7.8
	59	0	>8.5	0	0		4.7	5.9	6.3	6.6	7.2	7.3	7.8
Salinity (ppt)	59	0	N/A				0.07	0.31	1.89	4.61	7.9	15.06	17.1
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				153	646	3477	8242	13561	24855	27819
Water Temperature (°C)	59	0	>32	2	3.4		4.6	9.6	12.6	19.3	26.8	29.9	34.6
<b>Other</b>													
Chlorophyll a (ug/L)	53	0	>40	2	3.8		1	2	2	6	14	26	130
TSS (mg/L)	20	3	N/A				2.5	3.8	6.2	10.5	16.2	21.8	22
Turbidity (NTU)	58	0	>25	1	1.7		2.4	3.7	5.2	7.8	11.2	16	40
<b>Nutrients (mg/L)</b>													
NH3 as N	59	6	N/A				0.02	0.02	0.05	0.13	0.18	0.37	1.3
NO2 + NO3 as N	59	9	N/A				0.02	0.02	0.04	0.3	0.68	1.1	2.4
TKN as N	59	0	N/A				0.52	0.74	1	1.3	1.6	1.8	3.4
Total Phosphorus	59	0	N/A				0.03	0.05	0.06	0.08	0.1	0.12	0.16
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				53	148	370	830	1045	1500	1500
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	25	25
Cadmium, total (Cd)	13	13	>5	0	0		1	1.4	2	2	2	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	7	>3	4	30.8	99.4	2	2	2	2	5	9	10
Iron, total (Fe)	13	0	N/A				420	472	625	810	1205	7380	7900
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	5	>86	0	0		10	10	10	13	18	32	36

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400: %Conf:
58	31	1	2

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 24 NR ICW

**Station #:** O9760000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.55093

**Longitude:** -76.46954

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	19	0	<5	2	10.5	70.5	2.2	4.6	6.3	8.7	9.7	12	13.1
pH (SU)	19	0	<6.8	3	15.8	88.5	6.4	6.5	6.9	7.1	7.2	7.5	7.6
	19	0	>8.5	0	0		6.4	6.5	6.9	7.1	7.2	7.5	7.6
Salinity (ppt)	19	0	N/A				0.72	1.23	2.76	4.41	7.42	8.7	9.14
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				1367	2299	5024	7884	12886	14978	15689
Water Temperature (°C)	19	0	>32	0	0		3	4.9	11	16.1	27.4	30.6	32

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 19 NR SCRANTON CRK

**Station #:** O9761000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.51711

**Longitude:** -76.49538

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	19	0	<5	0	0		5.9	6.6	7.8	9	10.3	12.7	13.9
pH (SU)	19	0	<6.8	1	5.3		6.7	6.9	7	7.2	7.5	7.8	8.3
	19	0	>8.5	0	0		6.7	6.9	7	7.2	7.5	7.8	8.3
Salinity (ppt)	19	0	N/A				1.82	2.71	3.55	4.78	8.07	9.61	10.15
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				3360	4935	6550	8513	14020	16429	17289
Water Temperature (°C)	19	0	>32	0	0		3	4.6	10.6	16.3	27.3	31	31.7

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 14 NR HAYSTACK POINT

**Station #:** O9762000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.52159

**Longitude:** -76.55722

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	19	0	<5	0	0		6.3	6.7	7.8	8.6	10.2	12.7	13
pH (SU)	19	0	<6.8	0	0		6.8	7	7.2	7.3	7.8	8	8.3
	19	0	>8.5	0	0		6.8	7	7.2	7.3	7.8	8	8.3
Salinity (ppt)	19	0	N/A				2.69	3.88	4.21	4.99	9.1	9.91	10.17
Spec. conductance (umhos/cm at 25°C)	19	0	N/A				4902	6975	7547	8871	15662	16904	17318
Water Temperature (°C)	19	0	>32	1	5.3		3	5.1	11.2	16.6	27.1	29.9	32.4

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 1BC BETWEEN DURANTS POINT AND PANTEGO CRK  
**Station #:** O976300C **Hydrologic Unit Code:** 03020104  
**Latitude:** 35.52000 **Longitude:** -76.59000 **Stream class:** SB NSW  
**Agency:** NCAMBNT **NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.3	6.6	7	9	11.2	12.3	13.7
pH (SU)	20	0	<6.8	1	5		6.7	6.9	7	7.3	7.6	8	8.1
	20	0	>8.5	0	0		6.7	6.9	7	7.3	7.6	8	8.1
Salinity (ppt)	20	0	N/A				3.31	4.65	5.26	5.94	9.75	10.11	10.25
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				5983	8291	9334	10474	16649	17232	17436
Water Temperature (°C)	20	0	>32	0	0		2	5.1	11.7	18.1	26.6	29.4	30.8

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV OFF DURANTS POINT

**Station #:** O976300E

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.51000      **Longitude:** -76.58000

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.2	6.3	7.2	9	11	12.3	13
pH (SU)	20	0	<6.8	0	0		6.8	6.8	7	7.2	7.4	7.9	8.5
	20	0	>8.5	0	0		6.8	6.8	7	7.2	7.4	7.9	8.5
Salinity (ppt)	20	0	N/A				3.77	4.61	4.98	6.22	9.94	10.36	10.46
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				6795	8228	8913	10932	16963	17621	17811
Water Temperature (°C)	20	0	>32	0	0		2	5.2	11.4	18	26.6	29.8	31

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV NR CM 6 AT MOUTH OF PANTEGO CRK

**Station #:** O976300W

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.53075

**Longitude:** -76.59832

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.1	6.4	6.8	8.8	10.7	12.2	12.8
pH (SU)	20	0	<6.8	1	5		6	6.8	7.1	7.2	7.8	8.1	8.3
	20	0	>8.5	0	0		6	6.8	7.1	7.2	7.8	8.1	8.3
Salinity (ppt)	20	0	N/A				3.83	4.23	4.6	5.03	9.51	10.04	10.11
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				6901	7581	8210	8966	16264	17118	17226
Water Temperature (°C)	20	0	>32	0	0		2	5.4	11.6	18.2	26.8	30	30.9

**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



**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 7 NR WOODSTOCK POINT

**Station #:** O9764000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.48363

**Longitude:** -76.58672

**Stream class:** SB NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(12)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.5	6.8	7.8	9	11.4	12.5	12.7
pH (SU)	20	0	<6.8	0	0		6.8	7	7.2	7.4	7.8	8	8.4
	20	0	>8.5	0	0		6.8	7	7.2	7.4	7.8	8	8.4
Salinity (ppt)	20	0	N/A				4.24	4.77	5.87	6.8	10.18	11.03	11.2
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				7604	8496	10403	11896	17330	18667	18930
Water Temperature (°C)	20	0	>32	0	0		3	5.4	11.9	18.4	26.8	29.5	31.6

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT CM 4 NR SANDY POINT

**Station #:** O9765000

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.44625

**Longitude:** -76.58116

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(38)

**Time period:** 01/29/2004 to 08/15/2005

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	20	0	<5	0	0		6.9	7.2	7.9	9.3	10.9	12.1	13.2
pH (SU)	20	0	<6.8	0	0		6.9	7	7.2	7.4	7.9	8.2	8.6
	20	0	>8.5	1	5		6.9	7	7.2	7.4	7.9	8.2	8.6
Salinity (ppt)	20	0	N/A				4.92	5.92	6.61	7.62	11	11.25	11.62
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				8754	10427	11586	13234	18640	19011	19584
Water Temperature (°C)	20	0	>32	0	0		3	5.2	11.4	18.4	26.8	29.6	31
<b>Nutrients (mg/L)</b>													
NH3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
NO2 + NO3 as N	1	1	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.02
TKN as N	1	0	N/A				1.4	1.4	1.4	1.4	1.4	1.4	1.4
Total Phosphorus	1	0	N/A				0.13	0.13	0.13	0.13	0.13	0.13	0.13

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV BETWEEN FORTESCUE CRK AND WRIGHT CRK MID CHANNEL

**Station #:** O976600C

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.42402

**Longitude:** -76.56078

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(38)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.4	6.7	7.7	9	10.7	12.1	13.2
pH (SU)	20	0	<6.8	0	0		6.9	7	7.1	7.4	7.9	8	8
	20	0	>8.5	0	0		6.9	7	7.1	7.4	7.9	8	8
Salinity (ppt)	20	0	N/A				5.8	6.6	7.52	8.07	11.22	11.89	11.93
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				10244	11568	13067	13986	18964	19994	20070
Water Temperature (°C)	20	0	>32	0	0		3	5.3	11.5	18.3	26.8	30.4	30.8

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT MOUTH OF FORTESCUE CRK

**Station #:** O976600E

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.42906

**Longitude:** -76.53981

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(38)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6.3	6.8	7.2	8.8	11.2	11.9	12.8
pH (SU)	20	0	<6.8	0	0		7	7.1	7.2	7.4	7.8	8.2	8.2
	20	0	>8.5	0	0		7	7.1	7.2	7.4	7.8	8.2	8.2
Salinity (ppt)	20	0	N/A				6.25	6.51	7.5	8.93	11.39	11.54	12.19
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				10986	11365	13035	15346	19220	19458	20460
Water Temperature (°C)	20	0	>32	0	0		3	5.5	11.4	18.4	26.6	30	30.8

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PUNGO RIV AT MARKER 2WC AT MOUTH OF WRIGHT CRK

**Station #:** O976600W

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.41738

**Longitude:** -76.58401

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-34-(38)

**Time period:** 01/29/2004 to 08/15/2005

Field	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	20	0	<5	0	0		6	6.4	7	9	10.6	12.2	12.9
pH (SU)	20	0	<6.8	0	0		6.8	7	7.1	7.4	7.8	8	8
	20	0	>8.5	0	0		6.8	7	7.1	7.4	7.8	8	8
Salinity (ppt)	20	0	N/A				6.13	6.2	6.81	8.52	11.03	11.49	12.15
Spec. conductance (umhos/cm at 25°C)	20	0	N/A				10781	10891	11906	14708	18666	19382	20399
Water Temperature (°C)	20	0	>32	0	0		3	5.4	11.3	18	26.5	30.2	30.6

**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)

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**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK MID CHANNEL

**Station #:** O982500C

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.36185

**Longitude:** -76.58059

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(27)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	0	0		6.2	7.3	7.9	8.7	10.6	11.7	13.5
pH (SU)	116	0	<6.8	0	0		6.8	7.4	7.6	7.9	8	8.2	8.6
	116	0	>8.5	1	0.9		6.8	7.4	7.6	7.9	8	8.2	8.6
Salinity (ppt)	116	0	N/A				5.13	7.26	8.15	10.84	15.44	19.55	22.36
Spec. conductance (umhos/cm at 25°C)	116	0	N/A				9116	12661	14122	18362	25392	31395	35474
Water Temperature (°C)	116	0	>32	1	0.9		3.4	7.8	10.9	18.9	26.5	28.7	33.5
<b>Other</b>													
Chlorophyll a (ug/L)	107	0	>40	1	0.9		2	5	7	10	15	30	62
TSS (mg/L)	19	1	N/A				5.8	6.2	7	10	14	22	23
Turbidity (NTU)	117	0	>25	1	0.9		1	1.7	2.4	3	5	8.3	26
<b>Nutrients (mg/L)</b>													
NH3 as N	117	109	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.06
NO2 + NO3 as N	117	98	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.07
TKN as N	117	1	N/A				0.2	0.4	0.47	0.55	0.64	0.68	0.81
Total Phosphorus	117	0	N/A				0.02	0.03	0.04	0.04	0.05	0.07	0.11
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	2	N/A				50	50	88	120	195	254	270
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	8	40	50
Cadmium, total (Cd)	13	13	>5	0	0		1	1	2	2	10	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	10	25	25	25	25	25
Copper, total (Cu)	13	7	>3	3	23.1	96.6	2	2	2	2	10	19	22
Iron, total (Fe)	13	3	N/A				50	50	50	100	130	158	170
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	8	>86	0	0		10	10	10	10	12	17	18

**Fecal Coliform Screening(#/100mL)**

# results:	Geomean	# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf
117	1	0	0		1	1	1	

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK N SHORE

**Station #:** O982500N

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.37737

**Longitude:** -76.55960

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(27)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	116	0	<5	0	0		5.8	7.1	7.7	8.9	10.4	11.7	13.6
pH (SU)	116	0	<6.8	0	0		6.8	7.3	7.6	7.8	8	8.2	8.5
	116	0	>8.5	0	0		6.8	7.3	7.6	7.8	8	8.2	8.5
Salinity (ppt)	116	0	N/A				5.11	7.41	8.82	11.36	15.5	19.91	22.89
Spec. conductance (umhos/cm at 25°C)	116	0	N/A				3542	12856	15156	19184	25458	31923	36236
Water Temperature (°C)	116	0	>32	0	0		3.1	7.6	11	19.1	26.5	29	31.7
<b>Other</b>													
TSS (mg/L)	19	3	N/A				2.5	5	8.5	15	26	53	54
Turbidity (NTU)	117	3	>25	1	0.9		1	1.6	2.6	3.5	5.4	8.5	27
<b>Nutrients (mg/L)</b>													
NH3 as N	117	108	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.06
NO2 + NO3 as N	117	96	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.09
TKN as N	117	0	N/A				0.3	0.4	0.48	0.54	0.66	0.74	1
Total Phosphorus	117	0	N/A				0.02	0.03	0.04	0.04	0.05	0.07	0.1
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	12	0	N/A				67	76	162	200	258	550	670
Arsenic, total (As)	12	12	>10	0	0		5	5	5	5	21	25	25
Cadmium, total (Cd)	12	12	>5	0	0		1	1.3	2	10	10	10	10
Chromium, total (Cr)	12	12	>20	0	0		10	14	25	25	25	25	25
Copper, total (Cu)	12	10	>3	2	16.7	88.9	2	2	2	2	9	10	10
Iron, total (Fe)	12	1	N/A				50	55	84	115	150	386	470
Lead, total (Pb)	12	12	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	11	11	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	12	12	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	12	8	>86	0	0		10	10	10	10	11	16	17
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>			<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>			
117	1	0	0				1	1	1				

**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

**Ambient Monitoring System Station Summaries**

NCDENR, Division of Water Quality

Basinwide Assessment Report

**Location:** PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK S SHORE

**Station #:** O982500S

**Hydrologic Unit Code:** 03020104

**Latitude:** 35.34017

**Longitude:** -76.59578

**Stream class:** SA HQW NSW

**Agency:** NCAMBNT

**NC stream index:** 29-(27)

**Time period:** 01/08/2004 to 12/29/2008

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
<b>Field</b>													
D.O. (mg/L)	117	0	<5	0	0		5.7	7	7.8	8.8	10.6	12.3	13.8
pH (SU)	117	0	<6.8	0	0		6.9	7.3	7.6	7.9	8	8.3	8.6
	117	0	>8.5	2	1.7		6.9	7.3	7.6	7.9	8	8.3	8.6
Salinity (ppt)	117	0	N/A				1.84	6.83	7.94	10.31	15.2	19.45	21.8
Spec. conductance (umhos/cm at 25°C)	117	0	N/A				3395	11934	13781	17499	25027	31291	34678
Water Temperature (°C)	117	0	>32	1	0.9		3.1	7.6	10.8	18.5	26.2	29	32.8
<b>Other</b>													
TSS (mg/L)	20	2	N/A				3.2	4.2	6.4	16.5	22	24	26
Turbidity (NTU)	118	2	>25	1	0.8		1	1.7	3	3.8	5.6	8.6	40
<b>Nutrients (mg/L)</b>													
NH3 as N	117	112	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.1
NO2 + NO3 as N	117	99	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.07
TKN as N	117	0	N/A				0.22	0.4	0.5	0.57	0.66	0.76	1.3
Total Phosphorus	117	0	N/A				0.02	0.03	0.04	0.05	0.06	0.08	0.13
<b>Metals (ug/L)</b>													
Aluminum, total (Al)	13	0	N/A				60	64	102	180	205	310	370
Arsenic, total (As)	13	13	>10	0	0		5	5	5	5	10	40	50
Cadmium, total (Cd)	13	13	>5	0	0		2	2	2	10	10	10	10
Chromium, total (Cr)	13	13	>20	0	0		10	16	25	25	25	25	25
Copper, total (Cu)	13	11	>3	0	0		2	2	2	2	10	10	10
Iron, total (Fe)	13	5	N/A				50	50	50	87	135	218	230
Lead, total (Pb)	13	13	>25	0	0		10	10	10	10	10	10	10
Mercury, total (Hg)	12	12	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	13	13	>8.3	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	13	8	>86	0	0		10	10	10	10	13	22	26
<b>Fecal Coliform Screening(#/100mL)</b>													
<b># results:</b>	<b>Geomean</b>	<b># &gt; 400:</b>	<b>% &gt; 400:</b>	<b>%Conf:</b>	<b>Median</b>	<b># &gt; 43</b>	<b>% &gt; 43</b>	<b>%Conf</b>					
118	2	0	0		1	2	2						

**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