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

**Location:** TAR RIV AT SR 1981 TAR RIVER CHURCH RD NR CLIFTONVILLE

**Station #:** O2140000 **Hydrologic Unit Code:** 03020101

**Latitude:** 35.84663 **Longitude:** -77.96394 **Stream class:** WS-IV NSW CA

**Agency:** TPBA **NC stream index:** 28-(35.5)

**Time period:** 03/13/2007 to 12/09/2009

| | # results | # ND | EL | Results not meeting EL # | % | %Conf | Min | Percentiles 10th | 25th | 50th | 75th | 90th | Max |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Field** | | | | | | | | | | | | | |
| D.O. (mg/L) | 48 | 0 | <4 | 1 | 2.1 | | 3.3 | 4.4 | 5.4 | 6.4 | 8.8 | 10.4 | 13.2 |
| | 48 | 0 | <5 | 6 | 12.5 | 80 | 3.3 | 4.4 | 5.4 | 6.4 | 8.8 | 10.4 | 13.2 |
| pH (SU) | 49 | 0 | <6 | 3 | 6.1 | | 5.5 | 6.3 | 6.8 | 7 | 7.1 | 7.2 | 7.4 |
| | 49 | 0 | >9 | 0 | 0 | | 5.5 | 6.3 | 6.8 | 7 | 7.1 | 7.2 | 7.4 |
| Spec. conductance (umhos/cm at 25°C) | 49 | 1 | N/A | | | | 50 | 67 | 84 | 100 | 120 | 130 | 145 |
| Water Temperature (°C) | 49 | 0 | >32 | 0 | 0 | | 3.6 | 8.9 | 13.1 | 22 | 26.4 | 27.7 | 29.9 |
| **Other** | | | | | | | | | | | | | |
| Turbidity (NTU) | 34 | 0 | >50 | 3 | 8.8 | | 7.4 | 8.2 | 12.8 | 16 | 24.8 | 52.5 | 190 |
| **Nutrients (mg/L)** | | | | | | | | | | | | | |
| NH3 as N | 34 | 7 | N/A | | | | 0.01 | 0.01 | 0.01 | 0.05 | 0.11 | 0.2 | 0.37 |
| NO2 + NO3 as N | 34 | 2 | >10 | 0 | 0 | | 0.01 | 0.02 | 0.06 | 0.16 | 0.23 | 0.28 | 0.48 |
| TKN as N | 34 | 3 | N/A | | | | 0.2 | 0.21 | 0.32 | 0.55 | 0.77 | 1.19 | 1.9 |
| Total Phosphorus | 34 | 1 | N/A | | | | 0.02 | 0.04 | 0.06 | 0.1 | 0.15 | 0.3 | 3.21 |
| **Metals (ug/L)** | | | | | | | | | | | | | |
| Aluminum, total (Al) | 27 | 0 | N/A | | | | 100 | 183 | 214 | 454 | 994 | 1933 | 7274 |
| Arsenic, total (As) | 27 | 27 | >10 | 0 | 0 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Cadmium, total (Cd) | 27 | 27 | >2 | 0 | 0 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Chromium, total (Cr) | 27 | 26 | >50 | 0 | 0 | | 5 | 5 | 5 | 5 | 5 | 5 | 8 |
| Copper, total (Cu) | 27 | 10 | >7 | 1 | 3.7 | | 2 | 2 | 2 | 2 | 2 | 3 | 10 |
| Iron, total (Fe) | 27 | 0 | >1000 | 24 | 88.9 | 100 | 640 | 911 | 1432 | 1609 | 2236 | 2823 | 3204 |
| Lead, total (Pb) | 27 | 26 | >25 | 0 | 0 | | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Manganese, total (Mn) | 27 | 0 | >200 | 11 | 40.7 | 100 | 50 | 71 | 109 | 141 | 238 | 432 | 817 |
| Mercury, total (Hg) | 27 | 27 | >0.012 | 0 | 0 | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Nickel, total (Ni) | 27 | 27 | >25 | 0 | 0 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Zinc, total (Zn) | 27 | 23 | >50 | 0 | 0 | | 10 | 10 | 10 | 10 | 10 | 16 | 25 |

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

| # results: | Geomean: | # > 400: | % > 400: | %Conf: |
|---|---|---|---|---|
| 34 | 98.1 | 7 | 20.6 | 63.3 |

**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