

Appendix G

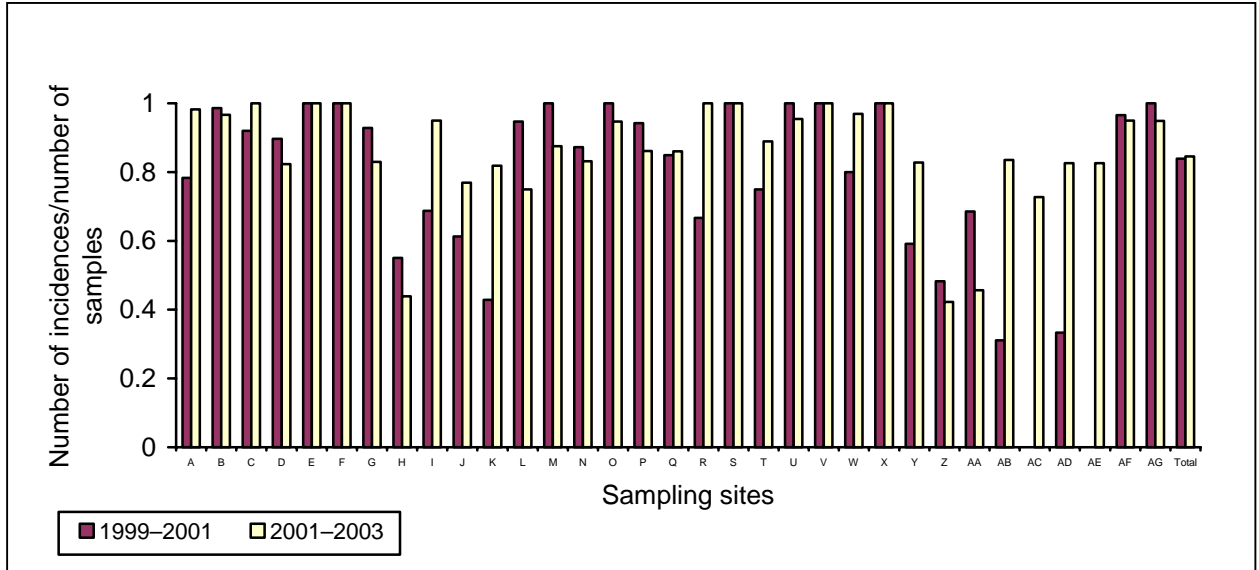


Figure 1 – The number of incidences of total cyanobacteria per number of samples

Table 1 – Percentage of total cyanobacteria and toxic cyanobacteria in the Sydney Drinking Water Catchment for the current audit period (1/7/01–30/6/03)

| Code | SCA Code | Station Name | Total Cyanobacteria | | | | Toxic Cyanobacteria | | | |
|------|----------|--|---------------------|--------|-----|----------|---------------------|--------|-----|----------|
| | | | High | Medium | Low | Very Low | High | Medium | Low | Very Low |
| A | DAV7 | Lake Avon at the Upper Avon Valve | 14 | 66 | 18 | 2 | 0 | 0 | 0 | 100 |
| B | DBP1 | Bendeela Pondage | 68 | 23 | 6 | 3 | 0 | 3 | 19 | 78 |
| C | DCA1 | Lake Cataract at Dam Wall | 25 | 75 | 0 | 0 | 0 | 0 | 0 | 100 |
| D | DCO1 | Lake Cordeaux at Dam Wall | 24 | 41 | 18 | 17 | 0 | 0 | 0 | 100 |
| E | DFF | Fitzroy Falls composite | 91 | 9 | 0 | 0 | 0.7 | 32 | 48 | 19.3 |
| F | DFF6 | Lake Fitzroy Falls at Midlake | 92 | 8 | 0 | 0 | 3 | 38 | 24 | 35 |
| G | DGC1 | Lake Greaves at Dam Wall | 1 | 41 | 40 | 18 | 0 | 0 | 0 | 100 |
| H | DLC1 | Lake Lower Cascade at 50m upstream | 0 | 10 | 34 | 56 | 0 | 0 | 0 | 100 |
| I | DNE2 | Lake Nepean at 300m upstream of Dam Wall | 10 | 70 | 15 | 5 | 0 | 0 | 0 | 100 |
| J | DPAE | Bendeela picnic area | 50 | 17 | 10 | 23 | 0 | 4 | 9 | 87 |
| K | DTA1 | Lake Yarrunga at 100m from Dam Wall | 45 | 9 | 27 | 19 | 0 | 0 | 14 | 86 |
| L | DTA3 | Lake Yarrunga at Kangaroo and Yarrunga Junction | 42 | 25 | 8 | 25 | 0 | 0 | 11 | 89 |
| M | DTA5 | Lake Yarrunga at Shoalhaven River | 13 | 25 | 50 | 12 | 0 | 0 | 25 | 75 |
| N | DTA8 | Lake Yarrunga at Kangaroo River, Bendeela PS | 54 | 15 | 14 | 17 | 0 | 1 | 13 | 86 |
| O | DTA10 | Lake Yarrunga at Kangaroo arm, Reed Island | 47 | 21 | 26 | 6 | 0 | 0 | 6 | 94 |
| P | DTC1 | Lake top Cascade at 100m upstream of Dam Wall | 7 | 57 | 21 | 15 | 0 | 0 | 0 | 100 |
| Q | DWA2 | Lake Burragorang at 500m upstream of Dam Wall | 36 | 32 | 18 | 14 | 0 | 3 | 3 | 94 |
| R | DWA9 | Lake Burragorang at 14km upstream of Dam Wall | 72 | 27 | 0 | 1 | 0 | 0 | 22 | 78 |
| S | DWA12 | Lake Burragorang at 9km upstream of Coxs River | 67 | 33 | 0 | 0 | 0 | 0 | 8 | 92 |
| T | DWA19 | Lake Burragorang at Kembula River arm | 70 | 15 | 4 | 11 | 0 | 0 | 4 | 96 |
| U | DWA21 | Lake Burragorang at Coxs arm 37 km upstream of Dam Wall | 86 | 9 | 0 | 5 | 0 | 6 | 11 | 83 |
| V | DWA27 | Lake Burragorang at Wollondilly arm 23 km upstream of Dam Wall | 77 | 23 | 0 | 0 | 0 | 8 | 0 | 92 |
| W | DWA39 | Lake Burragorang at Wollondilly arm 40 km upstream of Dam Wall | 30 | 42 | 24 | 4 | 0 | 0 | 0 | 100 |
| X | DWI1 | Wingecarribee Lake at outlet | 98 | 2 | 0 | 0 | 0 | 5 | 38 | 57 |
| Y | DWO1 | Lake Woronora at Dam Wall | 0 | 55 | 28 | 17 | 0 | 0 | 0 | 100 |

Table 1 – Percentage of total cyanobacteria and toxic cyanobacteria in the Sydney Drinking Water Catchment for the current audit period (1/7/01–30/6/03) (continued)

| | | | | | | | | | | |
|----|------|--|----|----|----|----|---|---|----|-----|
| Z | HBP | HBP1 and HBP2 taps | 0 | 13 | 30 | 57 | 0 | 0 | 11 | 89 |
| AA | HFF4 | NPWS picnic shelter tap at Fitzroy Falls | 0 | 21 | 25 | 54 | 0 | 9 | 24 | 67 |
| AB | HOP6 | Oberon pipeline, Leura | 14 | 40 | 30 | 16 | 0 | 0 | 0 | 100 |
| AC | HPR1 | Upper Canal at Prospect WFP | 0 | 41 | 32 | 27 | 0 | 0 | 0 | 100 |
| AD | HUC1 | Upper Canal at Broughtons Pass | 4 | 48 | 30 | 18 | 0 | 0 | 0 | 100 |
| AE | HUC3 | Upper Canal at Kenny Hill | 0 | 35 | 48 | 17 | 0 | 0 | 0 | 100 |
| AF | RPR1 | Lake Prospect at Midlake | 63 | 20 | 12 | 5 | 0 | 0 | 0 | 100 |
| AG | RPR3 | Lake Prospect near RWPS | 66 | 20 | 9 | 5 | 0 | 0 | 3 | 97 |

Table 2 – Volume (ML) of water licensed to be extracted for each river and creek in the Sydney Drinking Water Catchment and the use of the water extracted

| | Boro Creek | Bungonia Creek | Coxs River | Endrick River | Jerrabattgulla Creek | Kangaroo River | Little River | Mongarlowe River | Mulwatee River | Nattai River | Nerrimunga Creek | Ohares Creek | Reedy Creek | Shoalhaven River | Werriberri Creek | Wingecarribee River | Wollondilly River | Woronora River |
|---------------------------------|------------|----------------|------------|---------------|----------------------|----------------|--------------|------------------|----------------|--------------|------------------|--------------|-------------|------------------|------------------|---------------------|-------------------|----------------|
| Irrigation | 60 | 34 | 3540 | 15 | 102 | 5426 | 31 | 241 | 695 | 222 | 271 | 216 | 262 | 10380 | 708 | 912 | 7603 | 72 |
| Domestic | 0 | 1 | 10 | 0 | 1 | 12 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 27 | 2 | 3 | 28 | 0 |
| Farming | 0 | 0 | 10 | 0 | 0 | 25 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 10 | 0 |
| Industrial | 0 | 0 | 148 | 0 | 0 | 21 | 0 | 46 | 5 | 0 | 0 | 0 | 0 | 84 | 0 | 76 | 257 | 0 |
| Mining | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Pisciculture | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 18 | 18 | 0 |
| Railway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Recreation High security | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 0 | 0 | 0 |
| Recreation Low security | 0 | 4 | 0 | 0 | 0 | 8 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 88 | 0 |
| Stock | 0 | 0 | 43 | 0 | 5 | 72 | 0 | 9 | 0 | 10 | 0 | 6 | 0 | 139 | 12 | 10 | 99 | 0 |
| Town water supply | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 |
| Total | 60 | 39 | 3946 | 15 | 108 | 5563 | 31 | 301 | 791 | 232 | 271 | 222 | 262 | 10789 | 722 | 1019 | 8108 | 72 |

Table 3 – Percentage exceedence at lake and reservoir locations for current audit period

| Code | SCA Code | Station Name | Turbidity (<10NTU) | Conductivity (<30 µS/cm) | pH (6.5–8.5) | Total Al (<0.055 mg/L) | Total Fe (<0.3 mg/L) | Total P (<10 µg/L) | Filtered P (<5 µg/L) | Total N (<350 µg/L) | Oxidised N (<10 µg/L) | Ammonia (<10 µg/L) | Dissolved Oxygen (85–110%) | Chlorophyll-a (<5 µg/L) |
|------|----------|--|--------------------|--------------------------|--------------|------------------------|----------------------|--------------------|----------------------|---------------------|-----------------------|--------------------|----------------------------|-------------------------|
| A | DAV7 | Lake Avon at the Upper Avon Valve | 1 | 0 | 9.7 + | 4.1 | 16.4 | 1.8 | 0 | 1.8 | 50 | 51.8 | 39 - | 31.6 |
| C | DCA1 | Lake Cataract at Dam Wall | 2.8 | 0 | 46 + | 34.9 | 50.8 | 0 | 0 | 15.9 | 18.2 | 77.3 - | 58.6 | 20.7 + |
| D | DCO1 | Lake Cordeaux at Dam Wall | 6.4 | 0 | 14.1 + | 17.2 | 34.5 + | 2.6 | 0 | 21.1 | 42.1 | 94.7 - | 72 + | 39.1 + |
| F | DFF6 | Lake Fitzroy Falls at Midlake | 0.9 | 0 | 0 | 59.5 - | 7.1 | 100 - | 17.6 | 100 - | 85.3 - | 96.6 - | 11.3 | 100 - |
| G | DGC1 | Lake Greaves at Dam Wall | 3 | 0 | 27.9 + | 98 | 94.1 | 0 | 2.6 | 25.6 | 64.1 - | 66.7 - | 22.9 + | 26.7 - |
| H | DLC1 | Lake Lower Cascade at 50m upstream | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 7.3 | 100 | 68.3 - | 25.8 - | 3.4 |
| I | DNE2 | Lake Nepean at 300m upstream of Dam Wall | 0.3 | 0 | 9.9 | 12.5 + | 18.8 + | 2.1 | 0 | 16.7 | 97.9 | 58.3 - | 63.7 | 5.7 |
| K | DTA1 | Lake Yarrunga at 100m from Dam Wall | 30.2 | 0 | 10.9 | 81.9 | 84 | 69.1 | 32.1 | 69.1 | 74.5 + | 90.9 | 67.4 + | 26.7 - |
| L | DTA3 | Lake Yarrunga at Kangaroo River and Yarrunga Junction | 24.1 + | 0 | 12.1 | 76.3 | 84.6 | 82.8 - | 53.6 | 70.7 | 69 | 87.9 | 76.3 | 34.8 + |
| M | DTA5 | Lake Yarrunga at Shoalhaven River | 37.6 | 0 | 5.8 | 89.8 | 91.8 | 56.7 | 42.9 | 70 - | 80 | 96.7 | 58.3 | 16.4 |
| N | DTA8 | Lake Yarrunga at Kangaroo River, Bendeela PS | 16.4 | 0 | 4.5 | 82.8 | 92.9 | 93.3 | 80 | 50 | 73.3 + | 80 - | 36 | 70.3 + |
| O | DTA10 | Lake Yarrunga at Kangaroo arm, Reed Island | 20.7 | 0 | 10.1 | 94.9 | 97.4 | 100 | 66.7 | 76.2 - | 76.2 - | 81 - | 51.8 | 70 |
| P | DTC1 | Lake Top Cascade at 100m upstream of Dam Wall | 0.2 | 0 | 1.6 | 0 | 0 | 12.5 | 2.6 | 45 | 87.5 | 37.5 | 27.6 - | 21.9 + |
| Q | DWA2 | Lake Burragorang at 500m upstream of Dam Wall | 0.5 | 0 | 0 | 3.7 | 0 | 0.2 | 0.2 | 1.9 + | 65 + | 4.3 | 61.1 + | 2.6 |
| R | DWA9 | Lake Burragorang at 14km upstream of Dam Wall | 0.5 | 0 | 0 | 1.4 | 0 | 0 | 0 | 2.4 + | 59.7 + | 2.4 | 69.3 | 0.3 |
| S | DWA12 | Lake Burragorang at 9km upstream of Coxs River | 1.5 | 0 | 0.7 | 5.6 | 1.5 | 1.8 | 0 | 3.6 + | 58.5 | 7.8 | 72.6 + | 0.8 |
| T | DWA19 | Lake Burragorang at Kedumba River arm | 14.5 | 0 | 3.2 | 37.7 - | 37.7 - | 67.5 - | 22.9 + | 18.1 | 37.3 | 34.9 - | 25.3 | 51.4 |
| U | DWA21 | Lake Burragorang at Coxs Arm 37km upstream of Dam Wall | 7.6 | 0 | 0 | 16.7 | 28.8 - | 65.6 - | 16.7 + | 12.2 | 15.6 + | 27.8 - | 20.1 + | 31.6 |
| V | DWA27 | Lake Burragorang at Wollondilly Arm 23 km upstream of Dam Wall | 0.1 | 0 | 0 | 2.1 | 0.8 | 0.2 | 0.2 | 3.4 + | 62.8 | 12.2 | 67.6 + | 0 |
| W | DWA39 | Lake Burragorang at Wollondilly Arm 40 km from Dam Wall | 3.2 | 0 | 0 | 61.1 - | 0.9 | 35.6 - | 1.8 + | 4.9 + | 37.4 | 7.4 | 9.4 | 16.8 + |
| X | DWI1 | Wingecarribee Lake at outlet | 8.3 | 0 | 0 | 52.2 | 4.5 | 100 - | 18.9 | 96.2 - | 43.4 - | 68.8 - | 16 | 86 |
| Y | DWO1 | Lake Woronora at Dam Wall | 5.5 | 0 | 54.1 | 32.9 | 2.5 | 0 | 0 | 3.2 | 95.2 | 64.5 | 36.3 | 2.4 |
| AF | RPR1 | Lake Prospect at Midlake | 2.8 | 0 | 1.9 | 0 | 0 | 3.7 | 1.2 | 2.5 | 9.9 + | 17.3 | 24.5 | 4.7 |
| AG | RPR3 | Lake Prospect near RWPS | 1.4 | 0 | 0 | 16 + | 0 | 5.3 | 0 + | 0 | 0 | 0 | 13.3 | 13.3 |

Notes: pH and dissolved oxygen percentage indicates outside guideline range.

ANZECC and ARMCANZ 2000 guideline values in parentheses.

Red cells indicate 75–100%, orange 50–75% and yellow 25–50% exceedence of guidelines. - = increased percentage exceedence from previous audit period and + = decreased percentage exceedence from previous audit period.

Table 4 – Percentage of samples collected in exceedence at catchment locations for current audit period

| Code | SCA Code | Station Name | Turbidity (<15NTU) | Conductivity (<350 µS/cm) | pH (6.5-8.5) | Total Al (<0.055 mg/L) | Total Fe (<0.3 mg/L) | Total P (<20 µg/L) | Filtered P (<15 µg/L) | Total N (<250 µg/L) | Oxidised N (<15 µg/L) | Ammonia (<13 µg/L) | Dissolved Oxygen (85-110%) | Chlorophyll-a (<5 µg/L) |
|------|----------|---|--------------------|---------------------------|--------------|------------------------|----------------------|--------------------|-----------------------|---------------------|-----------------------|--------------------|----------------------------|-------------------------|
| CA | E083 | Coxs River at Kelpie Point | 0 | 0 | 0 | 7.7 + | 0 + | 0 | 0 | 6.9 + | 19.2 + | 3.8 | 11.1 | 0 |
| CB | E130 | Kowmung River at Cedar Ford | 0 | 0 | 11.5 | 8 + | 4.2 | 0 | 0 | 26.9 - | 24 + | 4 | 29.2 - | 0 |
| CC | E157 | Kedumba River at Maxwells Crossing | 7.1 + | 3.6 | 3.6 | 38.5 + | 24 + | 22.2 + | 3.8 | 81.5 | 96.2 | 42.3 - | 23.1 | 7.7 |
| CD | E203 | Gibbergunyah Creek at Mittagong STP | 4.8 | 76.2 | 0 | 95 | 45 | 100 | 85 | 100 | 100 | 100 | 78.9 | 15 |
| CE | E206 | Nattai River at The Crags | 0 | 71.4 - | 0 | 21.4 + | 7.1 + | 100 | 100 | 100 | 85.7 | 67.9 - | 29.6 - | 7.1 + |
| CF | E210 | Nattai River at Smallwoods Crossing | 14.3 | 4.8 | 0 | 73.7 - | 72.2 | 28.6 - | 5.3 | 76.2 - | 73.7 - | 47.6 - | 36.8 - | 16.7 |
| CG | E243 | Little River at Fireroad | 0 | 0 | 19.2 | 41.7 - | 52.2 - | 3.8 | 0 | 42.3 - | 58.3 - | 54.2 - | 8.3 | 13 |
| CH | E332 | Wingecarribee River at Berrima | 26.3 | 5.3 | 5.3 | 90.5 | 57.1 | 100 | 52.4 - | 100 | 90.5 | 81 - | 31.6 | 100 |
| CJ | E409 | Wollondilly River at Murrays Flat | 0 | 96.2 | 23.1 | 18.5 + | 18.5 + | 100 | 100 | 100 | 85.2 | 81.5 - | 76 - | 66.7 - |
| CK | E450 | Wollondilly River at Golden Valley | 0 | 82.4 | 5.9 | 29.4 | 11.8 + | 5.9 | 0 | 100 | 5.9 + | 11.8 | 5.9 | 0 |
| CL | E457 | Mulwarree River at Towers Weir | 0 | 100 | 33.3 - | 66.7 | 100 - | 100 | 100 | 100 | 66.7 + | 100 - | 100 - | 33.3 |
| CM | E488 | Wollondilly River at Jooriland (Fowlers Flat) | 8.7 | 60.9 | 13.6 | 60 | 21.1 + | 13 + | 5 | 78.3 | 35 | 25 | 19 | 15 |
| CN | E531 | Werriberri Creek at Werombi | 3.5 | 62.8 | 4.7 | 50 + | 100 | 8.3 | 0 | 54.2 | 85 | 75 - | 90.5 | 10.5 |
| CO | E601 | Nepean River at Inflow to Lake Nepean | 0 + | 0 | 0 | 62.5 | 100 | 12.5 + | 0 | 100 | 100 | 12.5 | 0 | 0 |
| CP | E602 | Burke River at inflow to Lake Nepean | 0 | 0 | 8 | 52 + | 92 | 0 | 0 | 4 + | 20 | 20 | 20 | 0 |
| CQ | E706 | Kangaroo River at Hampden Bridge | 3.1 + | 0 | 3.1 | 88.9 | 100 | 42.4 | 9.1 | 90.9 | 93.9 | 75 - | 14.8 | 6.7 |
| CR | E822 | Mongarlowe River at Mongarlowe | 3.8 | 0 | 0 | 73.1 + | 53.8 | 7.7 + | 3.8 | 15.4 + | 15.4 | 26.9 - | 15.4 + | 3.8 |
| CS | E847 | Shoalhaven River at Fossickers Flat | 4.2 + | 0 | 0 | 60 + | 36 - | 12 + | 4 | 32 + | 32 | 36 - | 8 | 0 |
| CT | E851 | Shoalhaven River at downstream Tallowa Dam | 28 - | 0 | 0 | 96.4 | 100 | 21.4 | 0 | 100 | 100 | 92.9 | 7.7 | 10.7 |
| CU | E860 | Shoalhaven River at Mount View | 8 + | 0 | 4 | 53.8 + | 53.8 | 15.4 + | 15.4 + | 38.5 | 11.5 | 26.9 - | 0 | 0 |
| CV | E861 | Shoalhaven River at Hillview | 11.5 + | 0 | 0 | 59.3 + | 40.7 + | 18.5 + | 0 | 33.3 + | 7.4 + | 29.6 - | 15.4 | 7.4 |
| CW | E891 | Gillamatong Creek at Braidwood | 19.2 + | 92.3 | 0 | 11.5 + | 65.4 | 46.2 | 26.9 | 84.6 - | 34.6 | 30.8 - | 92.3 | 7.7 |

Notes: pH and dissolved oxygen percentage indicates outside guideline range.

ANZECC and ARMCANZ 2000 guideline values in parentheses

Red cells indicate 75–100%, orange 50–75% and yellow 25–50% exceedence of guidelines. - = increased percentage exceedence from previous audit period and + = decreased percentage exceedence from previous audit period.

Table 5 – Recorded (✓) fish species within streams and rivers above water storages; Upper Shoalhaven River (USR), Mongarlowe River (MR), Kangaroo River (KR), Wingecarribee River (WR), Woronora River (WO), and Coxs River (CX); below water storages; Lower Shoalhaven River (LSR), Lower Nepean River (LNR), Woronora River (WO) and Lower Cataract River (LCR) and within water storages; Warragamba (WA), Nepean (NE), Avon (AV), Cordeaux (CO), Cataract (CA), Wingecarribee (WI), Fitzroy Falls (FF) and Prospect (PR) Reservoirs, Lake Yarrunga (LY) and Woronora Dam (WD). Areas above and below water storages have been colour coded to match the particular storage. MR, AV, PR and CO had no accompanying data supplied.

| Exotic Species | | Above Water Storage | | | | | | Below Water Storage | | | | Water Storage | | | | | | | | | |
|---------------------------------|-------------------------------------|---------------------|------|------|------|------|------|---------------------|------|------|------|---------------|------|------|------|------|------|----|------|------|------|
| | | USR | MR | KR | WR | WO | CX | LSR | LNR | WO | LCR | WA | NE | AV | CO | CA | WI | FF | PR | LY | WD |
| Common carp | <i>Cyprinus carpio</i> | ✓ | | ✓ | | | | ✓ | | | | ✓ | | | | ✓ | ✓ | | ✓ | ✓ | |
| Goldfish | <i>Carassius auratus</i> | ✓ | | ✓ | ✓ | | | ✓ | | | | ✓ | | | | ✓ | | | | | |
| Mosquito fish | <i>Gambusia holbrooki</i> | ✓ | ✓ | | ✓ | | | | | ✓ | ✓ | ✓ | | | ✓ | | | | | ✓ | |
| Redfin perch | <i>Perca fluviatilis</i> | | | | | | | | | | | ✓ | | | | | | | | | |
| Brook trout | <i>Salvelinus fontinalis</i> | | | | | | | | | | | ✓ | | | | | | | | | |
| Brown trout | <i>Salmo trutta</i> | ✓ | ✓ | | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Rainbow trout | <i>Oncorhynchus mykiss</i> | | | | ✓ | | | | | | | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | |
| Japanese weatherloach | <i>Misgurnus anguillicaudatus</i> | | | | ✓ | | | | | | | | | | | | | | | | |
| Native Species | | USR | MR | KR | WR | WO | CX | LSR | LNR | WO | LCR | WA | NE | AV | CO | CA | WI | FF | PR | LY | WD |
| Australian bass | <i>Macquaria novemaculeata</i> | ✓ | | ✓ | | | | ✓ | | ✓ | | | | | | | | | | ✓ | |
| Yellow finned bream | <i>Acanthopagrus australis</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Bullrout | <i>Notesthes robusta</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Freshwater catfish | <i>Tandanus tandanus</i> | | | | | | | ✓ | | | | | | | | ✓ | | | ✓ | ✓ | |
| Murray cod | <i>Maccullochella peelii</i> | | | | | | | | | | | | | | | ✓ | | | | | |
| Trout cod (endangered) | <i>Maccullochella macquariensis</i> | | | | | | | | | | | | | | | ✓ | | | | | |
| Long-finned eel* | <i>Anguilla reinhardtii</i> | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ | ✓ |
| Short-finned eel | <i>Anguilla australis</i> | ✓ | ✓ | | | | ✓ | ✓ | ✓ | | | | | | | | | | | ✓ | |
| Freshwater herring | <i>Potamalosa richmondia</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Climbing galaxias* | <i>Galaxias brevipinnis</i> | | ✓ | | | | | | | | ✓ | ✓ | | | | | | | | | |
| Mountain galaxias* | <i>Galaxias olidus</i> | ✓ | ✓ | | ✓ | | ✓ | | | | | ✓ | | | | ✓ | | | | | |
| Coxs gudgeon | <i>Gobiomorphus coxii</i> | ✓ | | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | |
| Dwarf Flat-headed gudgeon | <i>Philypnodon</i> sp1 | | | ✓ | | | | ✓ | | | ✓ | | | | | | | | | ✓ | |
| Flat-headed gudgeon | <i>Philypnodon grandiceps</i> | ✓ | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | | ✓ | ✓ | |
| Western carp gudgeon | <i>Hypseleotris</i> spp | | | | | | | | | | | | | | | | | | | ✓ | |
| Striped gudgeon | <i>Gobiomorphus australis</i> | | | | | | | ✓ | | ✓ | ✓ | | | | | | | | | | |
| Common jollytail | <i>Galaxias maculatus</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Short headed lamprey | <i>Mordacia mordax</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Freshwater mullet | <i>Myxus petardi</i> | | | | | | | ✓ | | | | | | | | | | | | | |
| Striped mullet | <i>Mugil cephalus</i> | | ✓ | | | | | ✓ | | | | | | | | | | | | | |
| Golden perch | <i>Macquaria ambigua</i> | | | | | | | | | | | | | | | ✓ | | | | | |
| Macquarie perch* (vulnerable) | <i>Macquaria australasica</i> | | ✓ | | | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | |
| Silver perch (vulnerable) | <i>Bidyanus bidyanus</i> | | | | | | | | | | | | | ✓ | | | | | | | |
| Australian smelt* | <i>Retropinna semoni</i> | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | ✓ | ✓ |
| Observed / Expected | | 0.32 | 0.27 | 0.27 | 0.23 | 0.05 | 0.14 | 0.64 | 0.27 | 0.27 | 0.32 | 0.27 | 0.14 | 0.05 | 0.14 | 0.14 | 0.05 | 0 | 0.09 | 0.32 | 0.05 |
| Exotic Species / Native Species | | 0.57 | 0.33 | 0.33 | 0.8 | - | 1.0 | 0.19 | - | 0.17 | 0.14 | 1.16 | 0.37 | 0.5 | 0.37 | 1.67 | 0.5 | - | 0.5 | 0.29 | - |
| Exotic Species as % of total | | 36 | 25 | 25 | 44 | 0 | 50 | 16 | 0 | 14 | 13 | 54 | 40 | 25 | 40 | 38 | 33 | - | 25 | 18 | 0 |

Notes: Observed / Expected – number of taxa observed / number of taxa expected, Exotic Species / Native Species – number of exotic fish species / number of native fish species, *Migratory native species

Table 6 – Code, station name and year sampled of macro invertebrate sampling sites used in the report

| SCA Station | | | |
|-------------|-------|--------------|--|
| Code | Name | Year Sampled | Station Name |
| MA | A5 | 2001 & 2002 | Mulwaree River at Lake Bathurst |
| MB | A6 | 2001 & 2002 | Tarlo River at Tarlo |
| MC | E086 | 2001 & 2002 | Coxs River at Kelpie Point |
| MD | E130 | 2002 only | Kowmung River at Cedar Ford |
| ME | E157 | 2001 & 2002 | Kedumba River at Kedumba crossing |
| MF | E206 | 2001 & 2002 | Nattai River at The Crags |
| MG | E210 | 2002 only | Nattai River at the causeway |
| MH | E409 | 2002 only | Wollondilly River at Murrays Flat |
| MI | E457 | 2001 & 2002 | Mulwaree River at The Towers |
| MJ | E488 | 2002 only | Wollondilly River at Jooriland |
| MK | E6133 | 2002 only | Goondarin Creek at top of Cordeaux Dam |
| ML | E706 | 2002 only | Kangaroo River at Hampton Bridge |
| MM | E822 | 2002 only | Mongarlow River at Mongarlowe |
| MN | E8311 | 2002 only | Corang River at Meangora |
| MO | E8361 | 2001 & 2002 | Nerrimunga Creek at Minshall Trig |
| MP | E847 | 2001 & 2002 | Shoalhaven River at Fossikers Flat |
| MQ | E861 | 2001 & 2002 | Shoalhaven River at Hillview |
| MR | E890 | 2001 & 2002 | Boro Creek at Marlowe |
| MS | E891 | 2001 & 2002 | Gillamatong Creek at Braidwood |
| MT | GO515 | 2001 & 2002 | Woronora River at the Needles |
| MU | MMP02 | 2002 only | Tonalli River upstream of Basin Creek |
| MV | MMP03 | 2002 only | Werriberri Creek at Serenity Park |
| MW | MMP04 | 2002 only | Blue Gum Creek along fire trail W41 |
| MX | MMP05 | 2002 only | Little River at fire trail W41 |
| MY | MMP06 | 2001 & 2002 | Shoalhaven River at Yarra Glen |
| MZ | MMP07 | 2002 only | Jinden Creek at Jinden Ridge Rd |
| NA | MMP08 | 2002 only | Boggy Creek upstream of Shoalhaven River |
| NB | MMP09 | 2001 & 2002 | Jerrabattgulla Creek at Warragandra |
| NC | MMP10 | 2002 only | Shoalhaven River at Berlang |
| ND | MMP12 | 2002 only | Endrick River at Nerriga |
| NE | MMP14 | 2002 only | Kowmung River at Kowmung fire trail |
| NF | MMP16 | 2001 & 2002 | Witts Creek at Krawaree Rd crossing |
| NG | MMP17 | 2001 & 2002 | Shoalhaven River at Farrington crossing |
| NH | MMP18 | 2002 only | Back Creek at Wallace Gap Rd |
| NI | MMP19 | 2002 only | Bombay Creek at Bombay fire trail |
| NJ | MMP20 | 2002 only | Nepean River at Maguires crossing |
| NK | MMP27 | 2001 & 2002 | Wollondilly River at Goonagulla |
| NL | MMP30 | 2002 only | Black Bobs Creek at Bunny Galore |
| NM | MMP32 | 2002 | Durrans Durra Creek at Euradux |
| NN | MMP34 | 2002 only | Boro Creek at Lower Boro |

Table 6 – Code, station name and year sampled of macro invertebrate sampling sites used in the report (continued)

| | | | |
|----|--------|-------------|--|
| NO | MMP36 | 2002 only | Cedar Creek at Hayes crossing |
| NP | MMP37 | 2001 & 2002 | Coxs River at McKanes Bridge |
| NQ | MMP38 | 2002 only | Farmers Creek at Great Western Highway |
| NR | MMP39 | 2001 & 2002 | Woodford Creek at Woodford Dam |
| NS | MMP40 | 2001 & 2002 | Yosemite Creek upstream of Minnihaha Falls |
| NT | MMP41 | 2001 & 2002 | Kedumba River at Scenic Railway |
| NU | MMP42 | 2002 only | Brogers Creek at Priddles Lane crossing |
| NV | MMP43 | 2001 & 2002 | Kangaroo River at Upper Kangaroo |
| NW | MMP45 | 2002 only | Werriberri Creek at top of Warragamba |
| NX | MMP48 | 2002 only | Jerrara Creek at Jerrara Rd |
| NY | MMP50 | 2002 only | Wollondilly River at Gundowringa |
| NZ | MMP51 | 2001 & 2002 | Jacqua Creek at Lumley Rd |
| OA | MMP52 | 2002 only | Nadgigomar Creek at Oallen Ford |
| OB | MMP53 | 2002 only | Woronora River at Eckersley Ford |
| OC | MMP55 | 2001 & 2002 | Little River at Six Foot Track |
| OD | MMP56 | 2002 only | Jenolan River at Camping Area |
| OE | MMP57 | 2001 & 2002 | Werriberri Creek at The Oaks |
| OF | MMP58 | 2002 only | Little River at Buxton |
| OG | Mong1 | 2001 & 2002 | Mongarlowe River at Charleyong |
| OH | N92 | 2001 & 2002 | Cardeaux River at Pheasents Nest |
| OI | R13 | 2001 & 2002 | Mongarlowe River at Monga |
| OJ | R21 | 2001 & 2002 | Waratah Rivulet at Flat Rock crossing |
| OK | R7 | 2001 & 2002 | Mulloon Creek at Tawarri |
| OL | R8 | 2001 & 2002 | Currembene Creek at Krawaree Rd crossing |
| OM | Reed1 | 2001 & 2002 | Reddy Creek at Mayfield Rd |
| ON | U10 | 2001 & 2002 | Wingecarribee River at Berrima |
| OO | Uwol1 | 2001 & 2002 | Wollondilly River at Baw Baw Bridge |
| OP | Winge2 | 2001 & 2002 | Wingecarribee River at Greenstead |
| OQ | E860 | 2002 only | Shoalhaven River at Mount View |

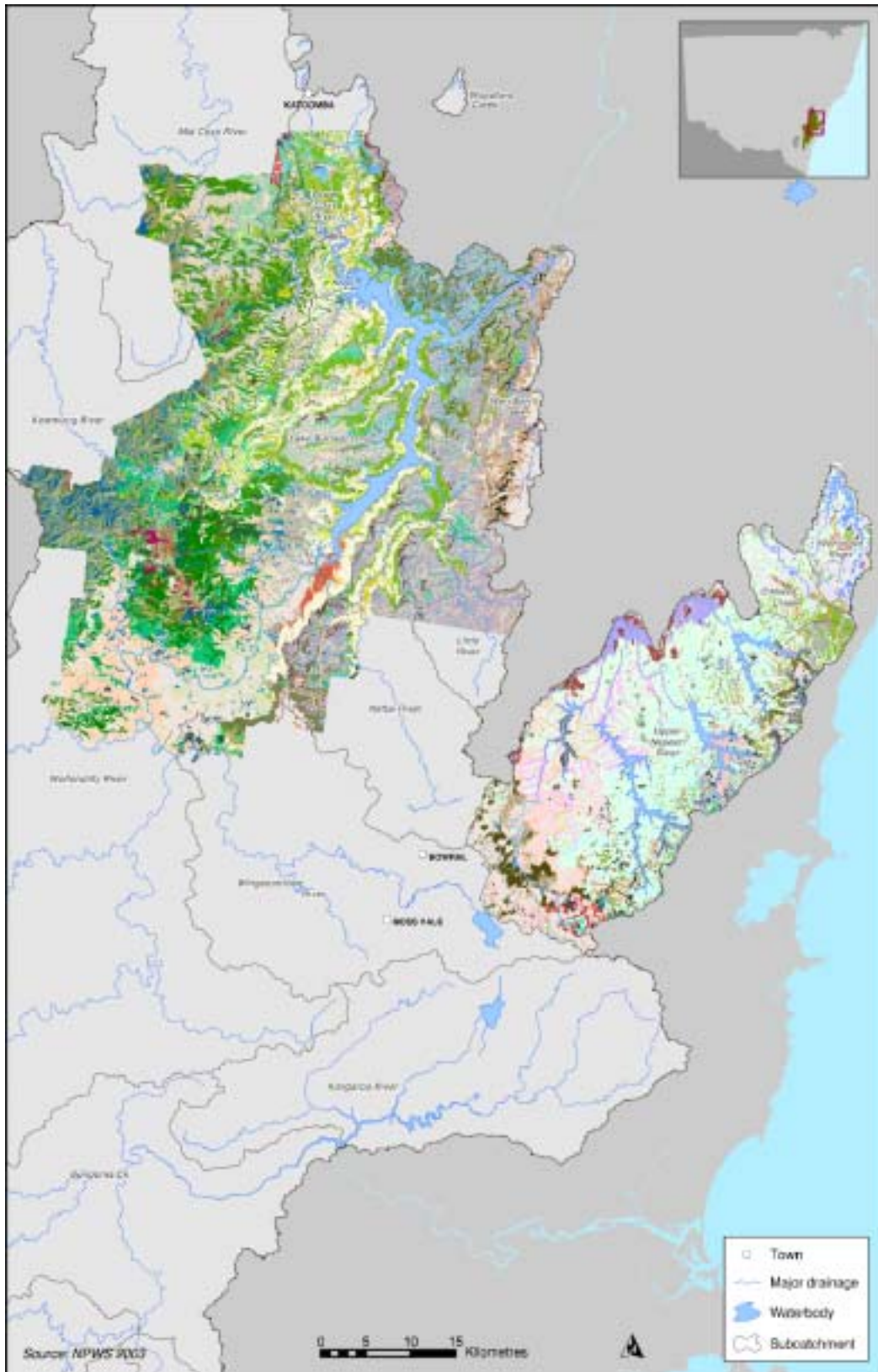


Figure 2 – Map showing the extent of available detailed native vegetation classification within the Warragamba and Woronora Special Areas

Note: The map is an extract from two reports assessing the vegetation of the Warragamba, Woronora and Metropolitan Special Areas of the Sydney Drinking Water Catchment. These reports have described and mapped all the native vegetation communities across the Special Areas including comprehensive information on disturbance and condition. An electronic data layer is available in ArcView, ArcInfo and MapInfo formats. Copies of the report and digital data can be obtained from Katrina Nunn, Conservation Programs and Planning Division, Department of Environment and Conservation phone (02) 9585 6678.

