Appendix 7.11: Summary Data from Electric Fishing and Seine Netting Surveys Undertaken on the Hampstead and Highgate Pond Chains in 2013

| Pond name | Fish survey method | No. of species recorded | Species composition* and comments*** |
|----------------------|---|-------------------------|--|
| Hampstead Pond Chain | | 1 | |
| Vale of Health Pond | Electric fishing – two runs from boat plus 11 point sample surveys Seine netting – three net deployments | 6 | Total number of fish captured = 1,287 Perch = 1,266 (98.4%) Roach = 4 (0.3%) Rudd = 2 (0.2%) Tench = 7 (0.5%) Pike = 5 (0.4%) Common carp = 3 (0.2%) Highest species richness recorded of all the ponds sampled. All species exhibit either a m disturbance. Perch formed the majority of the catch (98.4% by number) with smaller representations of Length frequency analysis carried out for perch identified the predominance of young of the 1 year old (and potentially in excess of 2 years old, but not older than 3 years) (1++) fish Ten mature common carp of between 300mm and 600mm were also observed, but evaded |
| Viaduct Pond | Electric fishing – two runs from boat plus 10 point sample surveys Seine netting – three net deployments | 1 | Total number of fish captured = 7 Tench = 7 (100%) Impoverished assemblage with a low abundance of tench recorded at survey. Thought to deterioration and high levels of sedimentation. Tench exhibit a high tolerance to environmental disturbance. All tench recorded were less than 2 years old. |
| Mixed Bathing Pond | Electric fishing – two runs from boat plus 13 point sample surveys Seine netting – four net deployments | 3 | Total number of fish captured = 184 Perch = 149 (81%) Roach = 32 (17%) Pike = 3 (2%) Only three species recorded at survey. All species exhibit either a medium or high toleran relatively low number. Perch formed the majority of the catch (81% by number) with smaller representations of Length frequency analysis carried out for perch and for roach identified the presence of 0 |
| Hampstead No.2 Pond | Electric fishing – three runs from boat plus 17 point sample surveys Seine netting – four net deployments | 2 | Total number of fish captured = 965 Perch = 959 (99%) Roach = 6 (1%) Only perch and roach recorded at survey. Both species have a high tolerance to environm Perch formed the majority of the catch (99% by number), the population being dominated |
| Hampstead No.1 Pond | Electric fishing – one run from boat plus 13 point sample surveys Seine netting – six net deployments | 1 | Total number of fish captured = 1,334 Perch = 1,334 (100%) Only perch recorded at survey, although at relatively high abundance. Length frequency analysis carried out for perch indicated all were in the 0+ year class. |

nedium or high tolerance to environmental

of rudd, roach, pike, tench and carp. the year (0+) fish as well as a fish that were at least h. ed capture.

be a result of historical fish kills due to water quality

nce to environmental disturbance and recorded in

roach and pike.)+ and 1++ fish.

mental disturbance. In by young of the year fish.

| Pond name | Fish survey method | No. of species recorded | Species composition* and comments*** |
|---------------------------------|---|-------------------------|--|
| Highgate Pond chain | 1 | • | |
| Stock Pond | Electric fishing – three runs from boat plus 10 point sample surveys Seine netting – three net deployments | 3 | Total number of fish captured = 257 Roach = 242 (94.2%) Rudd = 14 (5.4%) Pike = 1 (0.4%) Three species recorded at survey of which roach were the most abundant. A total of 257 individual fish were captured with roach forming the majority of the catch (9 rudd and pike (5.4% and 0.4% of total catch by numbers respectively). Rudd and pike both have a medium tolerance to environmental disturbance; roach have a Length frequency analysis carried out for roach indicate d the presence 0+ and 1++ fish i |
| Kenwood Ladies' Bathing Pond | Electric fishing – four runs from boat plus six point sample surveys Seine netting – three net deployments | 3 | Pike (5 No.) observed spawning in margins of pond on 13th March 2014. Total number of fish captured = 22 Perch = 2 (9%) Roach = 7(32%) Rudd = 13 (59%) Impoverished assemblage with only low numbers (No. 22) representing three species reco Rudd and pike both have a medium tolerance to environmental disturbance; roach have a Both 0+ and 1+ rudd, perch and roach were represented within the limited assemblage. |
| Bird Sanctuary Pond | Electric fishing – three runs from boat plus 10 point sample surveys Seine netting – four net deployments | 5 | Total number of fish captured = 1,154 Perch = 1,110 (96.2%) Roach = 8 (0.7%) Rudd = 28 (2.4%) Tench = 5 (0.4%) Pike = 3 (0.3%) Low species richness although the second highest recorded of all the ponds sampled. All environmental disturbance. A total of 1,154 individual fish, comprising five different species, were recorded at survey. number) with smaller representations of tench, rudd and roach and pike (0.4%, 2.4%, 0.7 respectively). Length frequency analysis carried out for perch and rudd indentified the population as contact. |
| Model Boating Pond | Electric fishing – three runs from boat plus eight point sample surveys Seine netting – two net deployments | 5 | Total number of fish captured = 1,656 Perch = 572 (35%) Roach = 154 (9%) Rudd = 910 (55%) Gudgeon = 20 (1%) Plus common carp observed. Five species recorded at survey of which rudd were the most abundant. A total of 1,656 individual fish, comprising four different species, were recorded at survey. (55% and 35% by number respectively) with smaller representations of roach and gudged |

| 94.2% by number) with smaller representations of | |
|---|--|
| high tolerance to environmental disturbance. n approximately equal number. | |
| | |
| | |
| orded at survey. high tolerance to environmental disturbance. | |
| | |
| | |
| | |
| species with medium to high tolerance to | |
| Perch formed the majority of the catch (96.2% by 7% and 0.3% of total catch by numbers | |

mprising 0++ fish.

7. Rudd and perch formed the majority of the catch con (9% and 1% of total catch by numbers

| Pond name | Fish survey method | No. of species recorded | Species composition* and comments*** |
|--------------------------------|--|-------------------------|--|
| | | | respectively). Rudd and gudgeon both have a medium tolerance to environmental disturbance; roach ar disturbance. Length frequency analysis carried out for gudgeon, perch, roach and rudd identified the spectrum of the spectrum o |
| Highgate Men's Bathing Pond | Electric fishing – two runs from boat plus eight point sample surveys Seine netting – four net deployments | 3 | Total number of fish captured = 1,213 Perch = 1,082 (89%) Roach = 6 (1%) Rudd = 125 (10%) Three species recorded at survey of which perch were the most abundant. A total of 1,213 individual fish were captured with perch forming the majority of the catch rudd and roach (10% and 1% of total catch by numbers respectively). All species exhibit either a medium or high tolerance to environmental disturbance. Length frequency analysis carried out for roach indicate d the presence of 0+ and1++ fish |
| Highgate No.1 Pond | Electric fishing – four runs from boat plus 11 point sample surveys Seine netting – three net deployments | 5 | Total number of fish captured = 1,280 Perch = 1,243 (97.1%) Roach = 3 (0.2%) Rudd = 6 (0.5%) Tench = 28 (2.2%) Plus common carp observed. Second highest recorded of all the ponds sampled. Majority of species exhibit a high toler Perch formed the majority of the catch (97.1% by number) with smaller representations of A total of 1,213 individual fish were recorded at survey. Perch formed the vast majority of representations of tench, rudd and roach (2.2%, 0.5% and 0.2% of total catch by number) Length frequency analysis carried out for perch and tench identified 0+ perch and tench, at a mature carp of approximately 400mm was observed, but evaded capture (include in No |

*Combined total number of individual fish and individual fish species (plus percent contribution to total) captured across all survey methods.

** Fish age comments: 0+ (a fish born within the survey breeding season – i.e. 2002); 0++ (a fish likely to have been born within the survey breeding season (and potentially in excess of 1 year old); 1+ (a fish over 1 year old); 1++ (a fish that is at least 1 year old (and potentially in excess of 2 years old)); 2+ (a fish over 2 years old); 2++ (a fish that is at least 2 years old (and potentially in excess of 3 years old)); 3+ (a fish over 3 years old, but not more than 4years old).

nd perch have a high tolerance to environmental

pecies populations as comprising of 0+ to 1++ fish.

(89% by number) with smaller representations of

in approximately equal number.

rance to environmental disturbance. of

the catch (97.1% by number) with smaller ers respectively).

along with 1++ perch.

of fish species recorded).