

Mark Taylor

Reports:

General

Taylor, M. J. 2001g: Styx River Research matrix: spreadsheet compiled for Christchurch City Council. Christchurch.

Taylor, M. J. 2002h. Regents Park Drive Waterway; a consideration of its ecology and habitat access. Applied Ecology Limited, Christchurch. AEL Report No. 7. 13 p.

Taylor, M. J. 2003d. Fishing feasibility trials in the vicinity of the Intake for the Waimakariri-Ashley Irrigation Scheme. Aquatic Ecology Limited, Christchurch. AEL Report No. 21. 13 p.

Taylor, M. J. 2005a. Aspects of the fish ecology in the Heathcote River; Colombo Street to Opawa Road. Aquatic Ecology Limited, Christchurch. AEL Report No. 27. 23 p.

Taylor, M. J. 2006a. Bed excavation survey of the upper Kaputone Stream. Aquatic Ecology Limited, Christchurch. AEL Report No. 36. 19 p.

Taylor, M. J. 2007c. Baseline fish survey of the constructed Heathcote ponds. Aquatic Ecology Limited, Christchurch. AEL Report No. 43. 17 p.

Taylor, M. J. 2011. Scoping assessment for an ecological survey on the impact of SH73 realignment on aquatic values. Aquatic Ecology Limited, No. 88. 8 p.

Taylor, M. J.; Chapman, E. 2007d. Impacts of road widening activities of fish values in the Tram Road area. Aquatic Ecology Report, Christchurch. AEL Report No. 48. 17 p.

Taylor, M. J.; McMurtrie, S. 2006. Stormwater Management Study for Christchurch Airport and Johns Road industrial area; Stage 1: information gathering on potential surface receiving waters. Christchurch. AEL Report No. 38. 35 p.

Taylor, M. J.; Suren, A. M.; Sorrell, B. K. 2000b. A consideration of aspects of the Styx River ecology and its implications for whole-river management. National Institute of Water and Atmospheric Research, Christchurch. NIWA Client Report No. CHC00/34. 31 p.

Monitoring and Assessment

Taylor, M. J. 2001b. Assessment of ecological damage in the upper reaches of the Ealing Springs catchment. Applied Ecology Limited, Christchurch. AEL Report No. 6. 8 p.

Taylor, M. J. 2003b. Environmental Assessment of Flood Protection Works on the Tengawai River, South Canterbury. Aquatic Ecology Limited, Christchurch. AEL Report No. 16. 32 p.

Taylor, M. J. 2006c. Feasibility study and monitoring of fish populations in Akaroa's three streams; reporting round #1. Aquatic Ecology Limited, Christchurch. AEL Report No. 35. 27 p.

Taylor, M. J. 2007a. Aquatic ecology of Dunbars Drain; assessment of impacts from the Douglas-Clifford Detention Basin. Aquatic Ecology Limited, Christchurch. No. 54. 10 p.

Taylor, M. J. 2008a. Ecological monitoring of Fairhall - Co-op Drain: 1st round. Aquatic Ecology Limited, Christchurch AEL Report No. 61. 17 p.

Taylor, M. J. 2008c. Environmental monitoring of Akaroa's three streams; reporting round No. 3. Aquatic Ecology Limited, Christchurch. AEL Report No. 60. 24 p.

Taylor, M. J. 2008d. Environmental monitoring of the Fairhall-Co-op Drain: Round two. Aquatic Ecology Limited, Christchurch. AEL Report No. 64. 17 p.

Taylor, M. J. 2009b. Environmental monitoring of Akaroa's three streams; reporting round No. 4. Aquatic Ecology Limited, Christchurch. AEL Report No. 71. 30 p.

Taylor, M. J. 2010a. Environmental monitoring of the Fairhall-Co-op Drain: Round three. Aquatic Ecology Limited, Christchurch. AEL Report No. 78. 19 p.

Taylor, M. J.; Blair, W. 2011c. Halswell and Heathcote Aquatic Ecology; selected aspects; monitoring round # 4 (in prep). Aquatic Ecology Limited, AEL Report No. 90.p.

Taylor, M. J.; Chapman, E. 2007b. Ecological Assessment of LII Headwaters (Liffey Springs). Aquatic Ecology Limited, Christchurch. AEL Report No. 51. 19 p.

Taylor, M. J.; Chapman, E. 2007c. Environmental monitoring of Akaroa's Three Streams; reporting round #2. Aquatic Ecology Limited, Christchurch. AEL Report No. 45. 30 p.

Taylor, M. J.; Chapman, E. 2007e. The Leithfield Stormwater Outfall; assessment of environmental effects. Aquatic Ecology Limited, Christchurch. AEL Report No. No. 50. 16 p.

Taylor, M. J.; Chapman, E. 2007g. Monitoring of fish values; inanga and trout spawning. Aquatic Ecology Limited, Christchurch. AEL Report No. 58. 22 p.

Taylor, M. J.; Main, M. R. 2010. Ecological monitoring of Christchurch City waterways: Styx River: round 3. Aquatic Ecology Limited, Christchurch. No. 83. 32 p.

Water Abstractions:

Taylor, M. J. 2001a. Aquatic values and impact of the proposed water abstraction on Little River, a tributary of the Rakaia River. Applied Ecology Limited, Christchurch. AEL Report No. 4. 6 p.

Taylor, M. J. 2001c. Ecological Impacts of proposed water abstraction on Little River, a tributary of the Rakaia River. Applied Ecology Limited, Christchurch. Aquatic Ecology Report No. 4. 4 p.

Taylor, M. J. 2001f. Instream impacts of the proposed water abstraction on Redcliffe Stream, a tributary of the Rakaia River. Applied Ecology Limited, Christchurch. AEL Report No. 2. 8 p.

Taylor, M. J. 2002c. Ecological impact of surface water abstraction from a tributary of the Pahau River, Hurunui catchment. Applied Ecology Limited, Christchurch. AEL Report No. 13. 13 p.

Taylor, M. J. 2002d. The impact of the proposed Mt Torlesse Station water abstraction on instream values of the Little Kowai River catchment. Applied Ecology Limited, Christchurch. AEL Report No. 8. 13 p.

Taylor, M. J. 2009c. Fish and macroinvertebrates of the Pareora River; implications of the Fernwood Dairies Water Harvesting Regime. Aquatic Ecology Limited, Christchurch. Aquatic Ecology Report No. 72. 15 p.

Flow Depletions and Augmentations:

Taylor, M. J. 2002b. Dewatering of the upper reaches of the Kaputone Stream. Applied Ecology Limited, Christchurch. AEL Report No. 10. 8 p.

Taylor, M. J. 2006d. Flow depletion effects of a groundwater well on instream ecological values in Fairhall Co-op Drain. Aquatic Ecology Limited, Christchurch. No. 37. 13 p.

Taylor, M. J. 2007b. Assessment of Environmental Effects: reduction of minimum flow for Oakdale Stream. Aquatic Ecology Limited, Christchurch. AEL Report No. 53. 29 p.

Taylor, M. J. 2007d. Flow augmentation for ecological values in the upper Kaputone Stream Aquatic Ecology Limited, Christchurch. AEL Report No. 41. 21 p.

Taylor, M. J. 2009a. Diversion of South Brook Stream, and the effect of stormwater discharge on the aquatic ecology. Aquatic Ecology Limited, Christchurch. No. 75.p.

Taylor, M. J. 2010b. Flow loss and gains along the Akaroa Waterways; Aylmers, Balguerie, and Grehan Streams; interim report. Aquatic Ecology Limited, Christchurch. AEL Report No. 13 p.

Taylor, M. J.; Chapman, E. 2007f. Minimum summer flow for Oakdale Stream. Aquatic Ecology Limited, Christchurch. AEL Report No. 49. 18 p.

Taylor, M. J.; McMurtrie, S. A. 2004a. The aquatic ecology of the upper Kaputone Stream, and the effects of reduced flows. Aquatic Ecology Limited, Christchurch. AEL Report No. 23. 21 p.

Taylor, M. J.; McMurtrie, S. A. 2004c. Stream depletion effects on the aquatic ecology of the Mangateretere Stream and the Karamu River. Aquatic Ecology Limited, Christchurch. AEL Report No. 24. 35 p.

Inanga Spawning

Richardson, J.; Taylor, M. J. 2002. A guide to restoring inanga habitat. National Institute of Water and Atmospheric Research, Wellington. NIWA Science and Technology No. 50. 29 p.

Taylor, M. J. 2002e. Inanga spawning habitats in the Wairarapa Region. Aquatic Ecology Limited, Christchurch. AEL Report No. 11. 32 p.

Taylor, M. J. 2002f. The National Inanga Spawning Database: trends and implications for spawning site management. Department of Conservation, Science for Conservation No. 188. 37 p.

Taylor, M. J. 2002g. Project Aqua: Environmental Study, Aquatic Ecosystems: native fish Interim Report, Inanga Spawning habitat. Applied Ecology Limited, Christchurch. AEL Report No. 9. 7 p.

Taylor, M. J. 2004b. Inanga spawning grounds on the Avon and Heathcote Rivers. Aquatic Ecology Limited, Christchurch. AEL Report No. 22. 34 p.

Taylor, M. J. 2008e. Re-development of Corsers Stream for inanga spawning and rearing. Aquatic Ecology Limited, Christchurch. No. 65. 22 p.

Taylor, M. J.; Blair, W. 2011b. Effects of Seismic Activity on Inanga spawning grounds on City Rivers. Aquatic Ecology Limited, Christchurch. No. 91. 29 p.

Taylor, M. J.; Bradshaw, D. 2005. Inanga spawning on the lower Styx River. Aquatic Ecology Limited, Christchurch. AEL Report No. 28. 14 p.

Taylor, M. J.; Burdon, F. 2010. Brown trout redd hydraulics in three lowland streams; prepared for Fish and Game New Zealand. Aquatic Ecology Limited, Christchurch. No. 79. 46 p.

Taylor, M. J.; Burrell, G., P. 2002. Brown trout redd distribution in the Avon River, and a comparison with the 1991 trout redd survey. Aquatic Ecology Limited, Christchurch. AEL Report No. 14. 24 p.

Taylor, M. J.; Kelly, G. R. 2001. Inanga spawning habitats in the Wellington Region, and their potential for restoration. National Institute of Water and Atmospheric Research, Christchurch. NIWA Client Report No. CHC01/67. 61 p.

Taylor, M. J.; Burdon, F.; Blair, W. 2012. An update on trout spawning in the Avon River, and notes on the effects of seismic activity on physical habitat. Aquatic Ecology Limited, No. 94. 45 p.

Native Fish

Taylor, M. J. 2004a. Feasibility of Canterbury mudfish habitat Creation at Brooklands. Aquatic Ecology Limited, Christchurch. AEL Report No. 25. 6 p.

Taylor, M. J. 2004c. Preliminary survey of fish condition from the Hinepango Wetland, Marlborough, October 2004. Aquatic Ecology Limited, Christchurch. AEL Report No. 26. 11 p.

Taylor, M. J. 2005c. Eel condition in the Hinepango Wetland Reserve. Aquatic Ecology Limited, Christchurch. AEL Report No. 29. 8 p.

Trout

Taylor, M. J. 2003e. Trout spawning and suspended sediment sources in the upper Heathcote River. Aquatic Ecology Limited, Christchurch. AEL Report No. 20. 20 p.

Taylor, M. J. 2005b. (Draft) Brown trout spawning in the Lake Ellesmere (Te Waihora) tributaries, and some surrounding catchments Aquatic Ecology Limited, Christchurch. AEL Report No. 31. 116 p.

Taylor, M. J. 2005d. Trout spawning the Styx River Aquatic Ecology Limited, Christchurch. AEL Report No. 32. 26 p.

Taylor, M. J. 2005e. An update of trout spawning in the Cam River. Aquatic Ecology Limited, Christchurch. AEL Report No. 33. 36 p.

Taylor, M. J. 2006b. Brown trout spawning in the Waikuku and Taranaki Streams Aquatic Ecology Report, Christchurch. AEL Report No. 38. 34 p.

Taylor, M. J. 2007e. Salmonid spawning and fish habitat suitability in the middle reaches of the Waitohi River. Environment Canterbury, Christchurch. Environment Canterbury Technical Report No. U07/21. 30 p.

Taylor, M. J.; Bray, J. 2008a. Brown trout spawning in the Avon River, and comparisons with previous surveys. Aquatic Ecology Limited, Christchurch. AEL Report No. 61. 21 p.

Taylor, M. J.; Good, M. 2006. Brown trout spawning in the Lake Ellesmere (Te Waihora) tributaries, and some surrounding catchments Aquatic Ecology Limited, Christchurch. AEL Report No. 31. 116 p.

Ecological and Fish Values

Taylor, M. J. 2001d. Ecological values in the Taylor River. Applied Ecology Limited, Christchurch. AEL Report No. 5. 11 p.

Taylor, M. J. 2001e. Fish values in Hermitage Drain, a minor tributary of the Waiiau River. Applied Ecology Limited, Christchurch. AEL Report No. 3. 7 p.

Taylor, M. J. 2002a. Assessment of the actual and potential ecological values of Jardens Drain, Heathcote River. Applied Ecology Limited, Christchurch. AEL Report No. 12. 13 p.

Taylor, M. J. 2003c. Fish values in the Rarangi Wetlands. Aquatic Ecology Limited, Christchurch. AEL Report No. 19. 11 p.

Taylor, M. J. 2008b. Ecological values in Waikuku Stream; vicinity of Gressons Road. Aquatic Ecology Limited, Christchurch. No. 56. 23 p.

Taylor, M. J.; Bray, J. 2008b. Instream values in the lower Styx River; Marshland Road reach. Aquatic Ecology Limited, Christchurch. AEL Report No. 63.p.

Taylor, M. J.; McMurtrie, S. A. 2003b. Aquatic values in the proposed Clearwater Open Space 3D Zone Variation, and the possible effects of proposed activities. Aquatic Ecology Limited and EOS Ecology, Christchurch. No. 37 p.

Taylor, M. J.; McMurtrie, S. A. 2003c. Ecological values of Smacks Creek, and assessment of enhancement options. Aquatic Ecology Limited, Christchurch. AEL Report No. 18. 20 p.

Taylor, M. J.; Blair, W. 2011a. Aquatic Ecology of the Prestons Development Area and Receiving Waters. Aquatic Ecology Limited, Christchurch. No. 95. 44 p.

Taylor, M. J.; Chapman, E. 2007a. Aquatic ecology of an unnamed tributary of Omihi Stream. Aquatic Ecology Limited, Christchurch. AEL Report No. 49. 15 p.

Taylor, M. J.; McMurtrie, S. A. 2002. Existing and potential aquatic values of waterways in the Clare Park wetland area. Aquatic Ecology Limited, Christchurch. AEL Report No. 15. 23 p.

Taylor, M. J.; McMurtrie, S. A. 2003a. Aquatic Ecology of the Horseshoe Lake Catchment. Aquatic Ecology Limited, Christchurch. AEL Report No. 17. 29 p.

Taylor, M. J.; McMurtrie, S. A. 2004b. Aquatic values in the proposed Zones Open Space 3D (Clearwater), Open Space 3D (Isaac Conservation Park), and the possible effects of proposed activities. Aquatic Ecology Limited and EOS Ecology, Christchurch. No. 39 p.

Taylor, M. J.; Taylor, M. J. 2001. Instream ecological values of Foxs Creek, Saltwater Creek Catchment. Applied Ecology Limited, Christchurch. AEL Report No. 1. 7 p.

Papers:

Graynoth, E.; Taylor, M. J. 2000: Influence of different rations and water temperatures on the growth rates of shortfinned eels and longfinned eels. *Journal of Fish Biology* 57: 681-699.

Graynoth, E.; Taylor, M. J. 2004: Growth of juvenile eels (*Anguilla* spp.) in lowland streams in New Zealand. *Fisheries Research* 66: 95-106.

McDowall, R. M.; Taylor, M. J. 2000: Environmental indicators of habitat quality in a migratory freshwater fish fauna. *Environmental Management* 25 (4): 357-374.

Rowe, D. K.; Graynoth, E.; James, G. D.; Taylor, M. J.; Hawke, L. 2003: Influence of turbidity and fluctuating water levels on the abundance and depth distribution of small, benthic fish in New Zealand alpine lakes. *Ecology of Freshwater Fish* 12: 216-227.

Taylor, M. J.; Graynoth, E.; James, G. D. 2000a: Abundance and daytime vertical distribution of planktonic fish larvae in an oligotrophic South Island lake. *Hydrologia* 421: 41-46.