

Schedule 1

Wetland Management Areas

1.1 Introduction

Wetlands have been identified as nationally threatened ecosystems that have been reduced significantly from their former extent. Wetlands are characterised as being permanently or intermittently wet areas of shallow water, with land/water margins that support a natural ecosystem of predominantly indigenous plants and animals that are adapted to wet conditions.

The wetlands listed in this schedule are identified in the Plan as Wetland Management Areas.

This schedule has been compiled from existing information on significant freshwater wetlands in the Auckland Region identified in publicly available documents and existing databases. These information sources include:

- Auckland Department of Conservation Management Strategy;
- Department of Conservation Sites of Special Wildlife Interest Database (sites of outstanding, high, moderate-high or moderate ranking);
- WERI (Wetlands of Ecological and Representative Importance) database
- Regional and District Plans, including Appendix B of the Auckland Regional Policy Statement;
- Protected Natural Area Programme survey reports;
- Local reports such as Waiheke Island Sites of Significance.

These reports contain maps of wetlands which should be used to determine the exact boundaries of those wetlands identified in Plan Map Series 1.

The schedule reflects the range of wetland types in the Auckland Region, including raupo, cabbage tree, flax, and rush and sedge swamps, kahikatea swamp forest, wetlands associated with lakes, streams and volcanic systems, and wetlands associated with freshwater-estuarine ecological sequences. The schedule contains a number of wetlands that are associated with natural lakes. The wetlands associated with these lakes have been identified separately for their ecological and wildlife values. The schedule also contains freshwater wetlands that are associated with significant estuarine ecosystems such as the Kaipara, Waitemata and Manukau Harbours.

Schedule of Wetland Management Areas

Number	Wetland Name	Ecological Values
<i>Kaipara Ecological Region</i>		
222	Okahukura Peninsula Wetland	Swamp vegetation, cabbage tree, manuka, rushes and sedges. Ecological sequence from marine to freshwater. Threatened species.
809	Tapora Coast	Rich variety of habitats including freshwater wetlands. Of national and international significance.
208	Tapora Golf Course Wetland	Freshwater wetland formed by sand dunes. Raupo, <i>Baumea</i> , threatened birds.
221	Gum Store Creek Freshwater Wetland	Mangroves, mudflats, sand banks, freshwater wetland, rich assemblage of habitats.

Number	Wetland Name	Ecological Values
211	Hiki Creek Scenic Reserve	Raupo and cabbage tree swamp on flood plain on lower slopes of area of broadleaved podocarp forest.
201	Hiki Stream Wetland	Raupo swamp with bordering manuka scrub. Threatened species.
241	Papakanui Wetlands	Wetlands in the area have rich botanical associations and are of national significance. Rich diversity of bird life and vegetation.
242	Waionui Inlet	An important estuarine habitat with succession of plant communities between tidal flats, freshwater wetlands and dune areas. Threatened wetland birds.
254	Lagoon Rd Wetland and Lake	Baumea, raupo, cabbage tree, manuka with buffer of kanuka. Habitat for threatened birds.
261	South Head Swamp	Raupo- <i>Schoenoplectus</i> reedland.
830	Kaukapakapa River	Scattered hill forest grading into alluvial areas of kaihikatea, cabbage tree, flax and native sedges and rushes, which grades into salt marsh and mangroves. Four main areas of wetland occur along river edges and associated tributaries.

Kaipara Dune Lakes

Extensive system of lakes that provide habitat for a number of threatened wildlife species. These lakes are dynamic and continually changing in size and extent. The schedule includes the following lakes.

318	Lake Kuwakatai	Lake with flax, raupo, <i>Schoenoplectus</i> sedgeland
470	Lake Okaihau	Lake with swamp areas dominated by raupo, with flax, <i>Juncus</i> spp. and <i>Cyperus ustulatus</i> . Swamp is contiguous with coastal forest. A valuable area for wildlife.
372	Lake Kereta	Lake with raupo reedland.
387	Lake Karaka South (1a)	Lake with swamp vegetation.
391	Lake Karaka South (2)	Lake with <i>Juncus-Cyperus ustulatus</i> rush-sedgeland.
802	Lake Karaka South (3)	Lake with <i>Juncus-Cyperus ustulatus</i> rush-sedgeland.
803	Lake Karaka Wetlands	Lake with <i>Juncus-Cyperus ustulatus</i> rush-sedgeland.
824	Lake Karaka south -unnamed lake 4b	Lake with <i>Juncus-Cyperus ustulatus</i> rush-sedgeland.
416	Lake Otakanini Topu South	Lake with swamp vegetation.
302	Lake Ototoa	Lake with <i>Schoenoplectus</i> reedland.
804	Hedley's Lake 1	Lake with swamp vegetation.
808	Lake Piripoua (South)	Lake with <i>Juncus</i> rushland.

Number	Wetland Name	Ecological Values
825	Lake Te Kanae	Lake with swamp reedland.
826	Lake Kowhai	Lake with reedland.
827	Lake Poutoa	Lake with <i>Cyperus ustulatus-Carex virgata-Juncus</i> sedgeland.
392	Loop Rd Closed Game Area	Threatened wetland birds.
404	Otakanini Topu Wetland	Diversity of wetland birds.
418	Fordyce Rd Swamp	Raupo- <i>Baumea-Schoenoplectus</i> reedland. Threatened species. High bird diversity.
373	Kaikore Creek Wetland	Raupo- <i>Schoenoplectus</i> reedland. Habitat for wetland.
427	Bradley Rd Swamp	Large swamp with diverse vegetation communities. Manuka, cabbage tree, flax, hangehange, Coprosma, Hebe, raupo, Carex, Juncus.
348	Waioneke Head Swamp	Vegetation sequence from swamp to scrub, threatened bird species.
359	Webber's Swamp (1)	Threatened bird species.
353	Webber's Swamp Remnants (2)	Three small remnants. Threatened species.
369	Wilson's Road Swamp	Threatened species habitat.
464	Okiritoto Wetland	Large swamp. Diverse habitats. Nesting area.
480	Taiapa Rd Bush and Wetland	Habitat for threatened bird species.
Rodney Ecological District		
41	Tomarata Lake and Wetland	Raupo, <i>Baumea</i> swamp, <i>Empodisma</i> peat swamp. Threatened birds.
34 & 28	Spectacle Lake & Slipper Lake	Dune impounded lakes with freshwater wetland margin. Part of series of dune lakes in Pakiri.
24	Little Shag Lake	Lake with sedgeland border. Regenerating forest on margins.
25	Te Arai Point Little Lake	Dune lake surrounded by shrubland. Wetland birds.
220	Christian Bay Wetland	Flax, raupo, rushes and sedges, threatened bird species.
177	Omaha Kahikatea Forest	Rare intact sequence from salt marsh to forest. Only example of coastal kahikatea forest on sand in region. Threatened birds.
96	Pakiri Valley Swamp Forest	Remnant kahikatea wetland. Intact ecotone.
159 & 164	Wayby Wetland	Raupo, kahikatea swamp. Threatened birds .
342	Strakas Dam	Artificial dam with wetland vegetation, threatened birds.

Number	Wetland Name	Ecological Values
389	Te Haruhi Bay Swamp	Raupo swamp in gully surrounded by regenerating forest. Threatened birds.
810	Araparera Freshwater Wetland	Raupo-rush-flax swamp. Threatened birds.
811	Ingelton Road wetland	Swamp bordered by bush.
409	Peak Road Swamp	Raupo, flax, manuka. Threatened birds.
<i>Waitakere Ecological District</i>		
492	Constable Road Swamp	Long strip of raupo. Threatened birds.
478	Goldies Bush Swamp	Small raupo swamp with kanuka margins. Threatened bird habitat.
563	Pararaha Swamp and Stream	Relatively large area of raupo, flax, rushes and sedges. Threatened species.
529	Piha Stream Swamp	Raupo swamp. Threatened bird habitat.
573	Taranaki Bay Swamp	Part of dune lake system at foot of coastal hills. Threatened bird species.
504 & 509	Te Henga Dunes and Lakes	Large area of sand dunes with several dune impounded lakes. Sequences from raupo reedland to cabbage tree to young kauri forest. Incl. Lakes Kawaupaka and Wainamu.
509	Lake Kawaupaka	One of few dune lakes in region surrounded by native forest. Threatened birds. Wetland is located on margins of lake, which is also identified as a Natural Lake Management Area.
504	Lake Wainamu	Deep dune lake in vegetated catchment. Threatened birds. Freshwater fish.
571	Ohaka Head lake	Dune lake. Threatened birds.
828	Te Henga Wetland	Largest freshwater swamp in mainland of region. High diversity of vegetation and wildlife species. Threatened species.
576	Whatipu Sands	Extensive area of vegetated sand flats, containing freshwater and saline wetlands, impounding a stretch of cliffs.
<i>Tamaki Ecological District</i>		
450	Lake Pupuke	Small areas of raupo and rushes. Wetland birds Wetland is located on margins of Lake, which is also identified as an Urban Lake Management Area. [E509/04/106 Watercare Services Ltd]
812	Soldiers Bay	Ecological sequence from mangroves- sand flats-shell bank-salt marsh-freshwater swamp.
813	Chelsea reservoir	Wetland vegetation on margins of reservoirs including <i>Eleocharis sphacelata</i> .

Number	Wetland Name	Ecological Values
814	Western Springs	Wetland vegetation associated with lake, including <i>Carex secta</i> swamp.
815	Tahuna-Torea	Complex of marine, intertidal, freshwater and terrestrial habitats.
816	Onehunga Springs	Groundwater springs with wetland features. Below One tree Hill lava flows.
817	Crater Hill Lake and wetland	Volcanic explosion crater with freshwater lake and wetland vegetation.
819	Puhinui Reserve	Coastal manuka, flax, cabbage tree, swamp coprosma in association with extensive shoreline saltmarsh.
<i>Waiheke Island - Inner Gulf Islands</i>		
481	Awaawaroa Bay	Vegetation sequence from mangrove-saltmarsh-freshwater wetland. Large number of wading birds.
452	Awaawaroa Stream Wetlands	One of best raupo wetlands in island. Threatened birds.
469	Putiki Bay	Ecological sequence from saline to freshwater wetlands. Threatened birds.
487	Rocky Bay Wetland	One of best saline and freshwater wetlands on island. Vegetation sequence. Threatened birds.
482	Te Matuku Bay	The most important wader habitat on island. Best vegetation sequence from saline-freshwater-terrestrial on island. Threatened birds.
820	Ponui Island	Freshwater wetlands in gully systems. Threatened birds.
<i>Great Barrier Island</i>		
108	Blackwells Creek	Tidal stream and wetlands. Threatened birds.
101	Claris South Swamp	Manuka, raupo, tall sedge. Threatened birds.
97	Grandstand Swamp	Freshwater swamp enclosed with manuka. Threatened birds.
74	Kaitoke Swamp	Most significant and largest freshwater wetland in region. Vegetation sequences. Threatened species. Internationally significant.
111	Sugarloaf Creek (Medlands Beach North Creek)	Freshwater and tidal stream and wetlands. Threatened birds.
120	Oruawharo Stream	Stream margins, rushes, sedges, manuka, threatened birds.
22	Mabeys Road Swamp	Raupo surrounded by manuka. Once more extensive. Threatened birds.
7	Mabey's Farm Stream	Tidal stream with wetland vegetation. Threatened birds.

Number	Wetland Name	Ecological Values
3	Motairehe Bay and Swamp	Tidal stream linking with freshwater swamp. Threatened birds.
10	Whangapoua Estuary	One of least modified estuaries in NZ. Sequence from saline-freshwater wetland-manuka scrub. High bird species richness. Internationally significant.
54	Awana Stream	Stream margins, kanuka, manuka, threatened birds
37	Harataonga Stream	Threatened birds.
150	Tryphena Stream	Tidal stream. Threatened birds.
<i>Awhitu Ecological District</i>		
591	Boiler Gully Swamp	Raupo, swamp maire, manuka. Intact forest-wetland sequences. Threatened bird habitat.
691	Lake Whatihua	Raupo, rushes and sedges. Threatened birds.
635 & 640 & 642	Pehiakura Lakes	Two lakes with raupo, <i>Baumea</i> . Wetland birds
612	Awhitu Regional Park Wetlands	Saline-freshwater wetland sequences. Threatened birds.
581	Big Bay Estuary & wetland	Manuka swamp in association with estuarine ecosystem. Threatened birds
650	Lake Pokorua	Largest dune lake on peninsula. Significant wetland vegetation. Threatened birds
<i>Manukau Ecological District</i>		
653	Patumahoe Road Swamp	Diverse habitat. Raupo, <i>Carex</i> .
616	Don Urquarts Swamp	Raupo swamp. Threatened bird habitat.
627	Whangapouri Pond	Raupo swamp. Wetland bird habitat.
821	Kidd Road Wetland	Raupo swamp. Threatened bird habitat.
829	Hunter Rd Wetland	Raupo, flax, <i>Carex secta</i> , kahikatea wetland. Threatened bird species.
<i>Hunua Ecological District</i>		
823	Hattaway Raupo	Dense raupo backing onto mangrove saltmarsh. Wildlife habitat.
597	Hunua Road Dam (Hay's Creek Reservoir)	Wetland bird habitat.
562	Harrison's Flax Swamp	Flax swamp. Wetland plant diversity. Threatened birds.
559	Sharpe's Raupo	Long thin raupo swamp. Wetland bird, habitat.
588	Oram's Road Wetland	Best lowland raupo, kiokio wetland in district. Threatened birds.
822	Whakatiwai Wetlands	Coastal cabbage tree-raupo-sedge wetland vegetation associated with gravel ridges.