

Appendix 1

River Mouths

River mouths have been set in accordance with section 2 of the Resource Management Act 1991. The locations of river mouths and coastal marine area boundaries are shown in the figures attached to this Appendix. Grid references are given for NZMS 260 maps.

River	River Mouth (NZMS 260 Grid References)	Coastal Marine Area Boundary
Orongorongo River <i>Figures 1.1</i>	R28 689 747	The seaward side of the Coast Road Bridge at NZMS 260 R28 690 748
Wainuiomata River <i>Figure 1.2</i>	R28 671 756	A line extending off the Coast Road as it runs approximately parallel to the coast at NZMS 260 R28 676 755
Hutt River <i>Figure 1.3</i>	R27 691 944	The seaward edge of the Waione Street (Estuary) Bridge at NZMS 260 R27 693 953
Makara Stream <i>Figure 1.4</i>	R27 537 972	A line off the edge of Estuary Street (previously known as Cook St) across the stream at NZMS 260 R27 538 971
Pauatahanui Stream <i>Figure 1.5</i>	R27 708 0+6	The landward edge of Pauatahanui Inlet Wildlife Management Reserve at NZMS 260 R27 708 095
Horokiri Stream <i>Figure 1.6</i>	R26 702 107	The seaward side of Pauatahanui Road Bridge at NZMS 260 R26 702 107
Kakaho Stream <i>Figure 1.7</i>	R26 691 114	The seaward side of Pauatahanui Road Bridge at NZMS 260 R26 691 115



River	River Mouth (NZMS 260 Grid References)	Coastal Marine Area Boundary
Porirua Stream <i>Figure 1.8</i>	R27 647 068	The seaward edge of the new (not marked on the map) Porirua Ramp Bridge at NZMS 260 R27 647 067
Pahaoa River <i>Figure 1.9</i>	T28 375 755	A right angle from the point at which the road begins to follow the river upstream at NZMS 260 T28 377 759
Kaiwhata River <i>Figure 1.10</i>	T27 603 972	The peak of the first major bend where an unnamed stream (not marked on the map) enters the river at NZMS 260 T27 603 972
Motuwaireka Stream <i>Figure 1.11</i>	T27 681 091	The seaward edge of the Orui Bridge at NZMS 260 T27 680 092
Whareama River <i>Figure 1.12</i>	U26 711 169	Continuation of the fence line which approaches the river at NZMS 260 U26 706 172
Mataikona River <i>Figure 1.13</i>	U25 854 425	The seaward edge of the Owhanga swing bridge at NZMS 260 U25 854 427
Okau Stream <i>Figure 1.14</i>	U26 833 352	The seaward edge of the Mataikona Road Bridge at NZMS 260 U26 833 353
Whakataki River <i>Figure 1.15</i>	U26 816 326	The seaward edge of the Masterton Castlepoint Road Bridge at NZMS 260 U26 816 326
Ngakauau Stream <i>Figure 1.16</i>	U26 784 263	Where the road crosses the stream at NZMS 260 U26 784 263

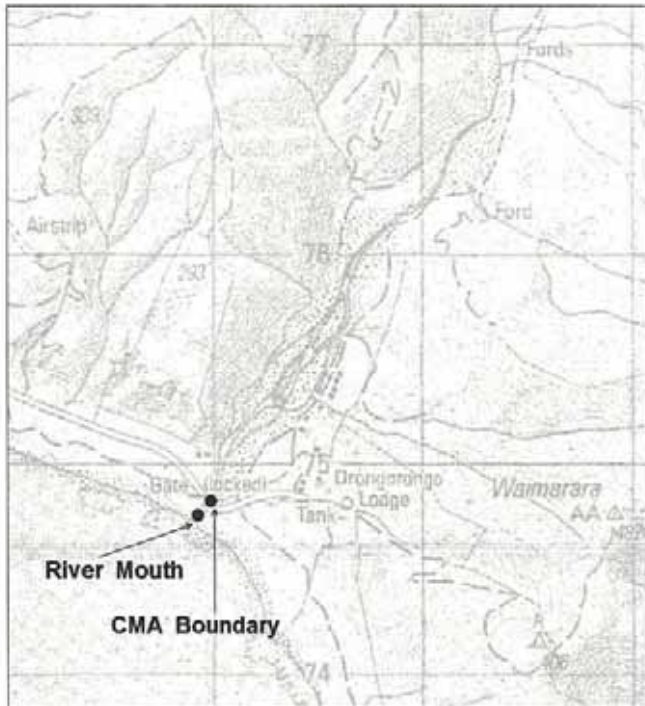


River	River Mouth (NZMS 260 Grid References)	Coastal Marine Area Boundary
Oterei River <i>Figure 1.17</i>	S28 252 662	The seaward edge of the Te Awaiti Road Bridge at NZMS 260 S28 252 664
Opouawe River <i>Figure 1.18</i>	S28 122 577	An extension from White Rock Road where it runs roughly parallel with the coast at NZMS 260 S28 122 577
Awhea River <i>Figure 1.19</i>	S28 200 639	An extension from Te Awaiti Road where it runs roughly perpendicular to the river at NZMS 260 S28 198 641
Taupo Stream <i>Figure 1.20</i>	R26 668 117	The seaward side of the Steyne Avenue Bridge at NZMS 260 R26 668 117
Waitohu Stream <i>Figure 1.21</i>	R25 893 505	A line running at 90 degrees from the end of Moana Street across the stream at NZMS 260 R25 893 505
Otaki River <i>Figure 1.22</i>	R25 875 476	A line extending south from the road on the true right bank at NZMS 260 R25 880 475
Waimeha Stream <i>Figure 1.23</i>	R26 811 366	The seaward edge of the Field Way Road Bridge at NZMS 260 R26 811 366
Waikanae River <i>Figure 1.24</i>	R26 791 352	A line extending from the eastern side of the road east of the dune lakes at NZMS 262 R26 794 349
Lake Onoke/Ruamahanga River <i>Figure 1.25</i>	R28 880 786	The point at which the Ruamahanga River enters Lake Onoke at NZMS 260 R28 890 796



For the remaining rivers in the Region, the mouth is deemed to be a straight line representing the continuation of the line of Mean High Water Springs on each side of the river at the river outlet.

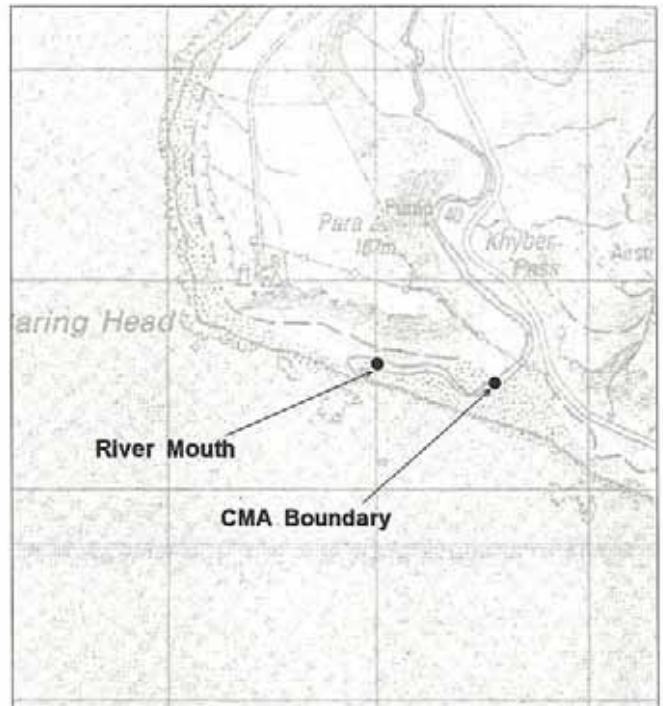




River Mouth and Coastal Marine Area Boundary
 Figure : 1.1
Orongorongo River



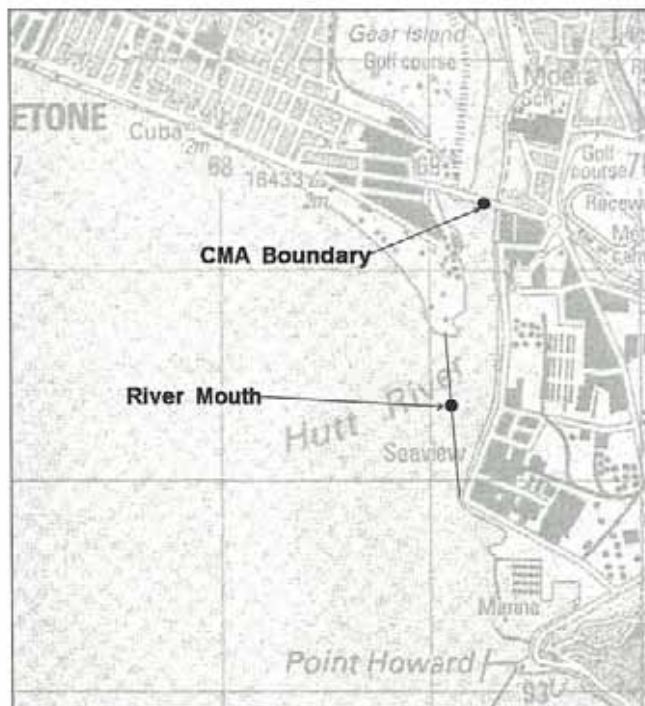
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.2
Wainuiomata River



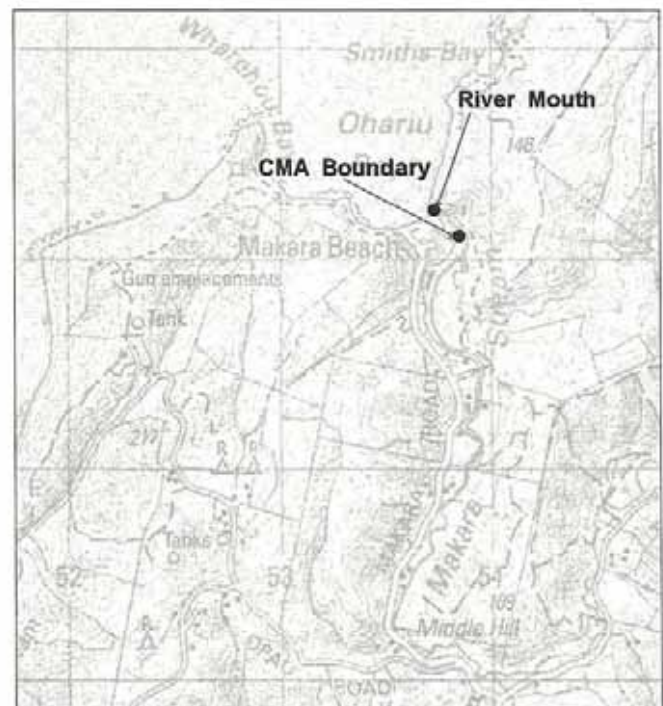
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.3
Hutt River



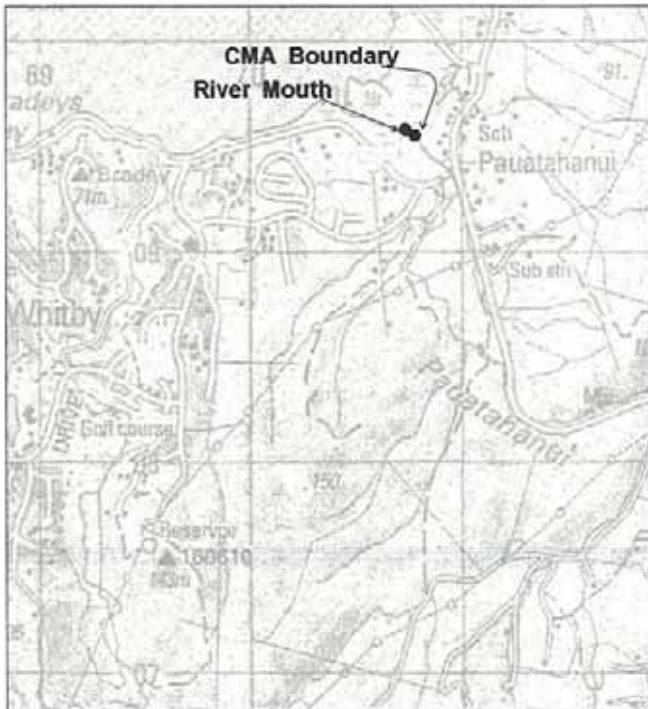
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.4
Makara Stream

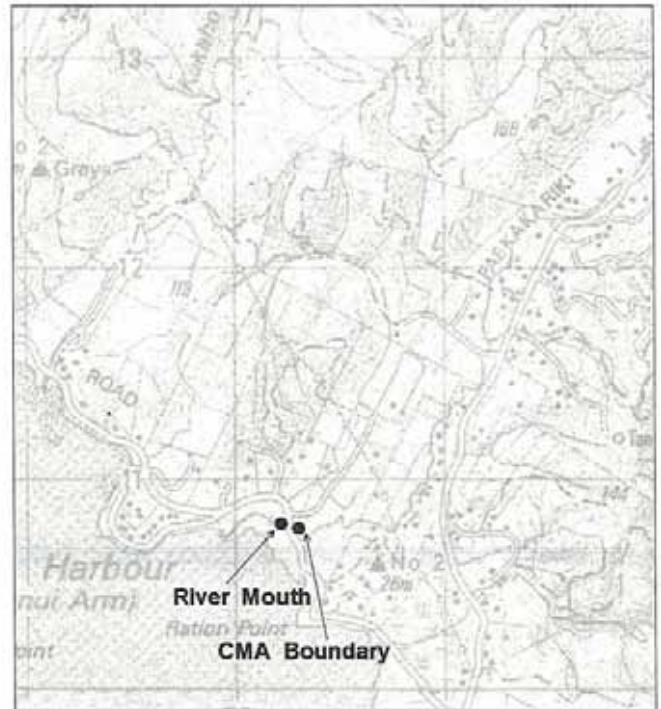


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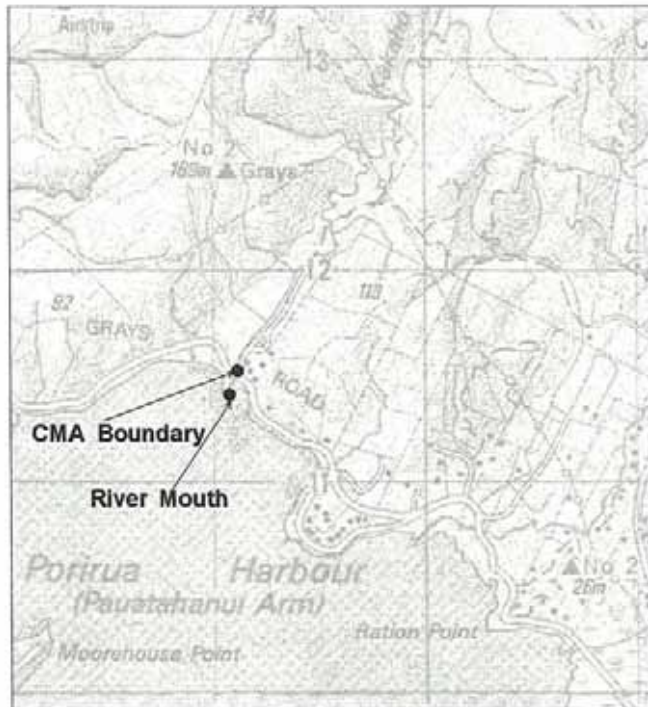
River Mouth and Coastal Marine Area Boundary
 Figure : 1.5
Pauatahanui Stream

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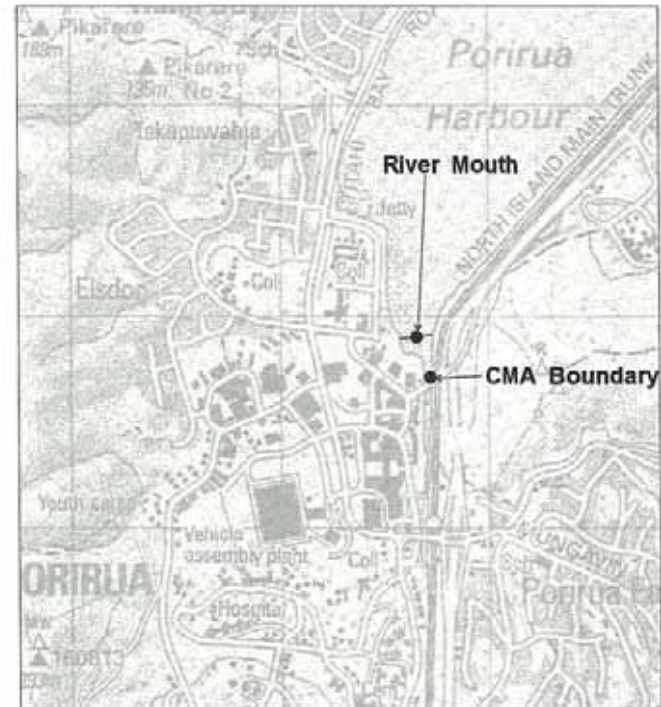
River Mouth and Coastal Marine Area Boundary
 Figure : 1.6
Horokiri Stream

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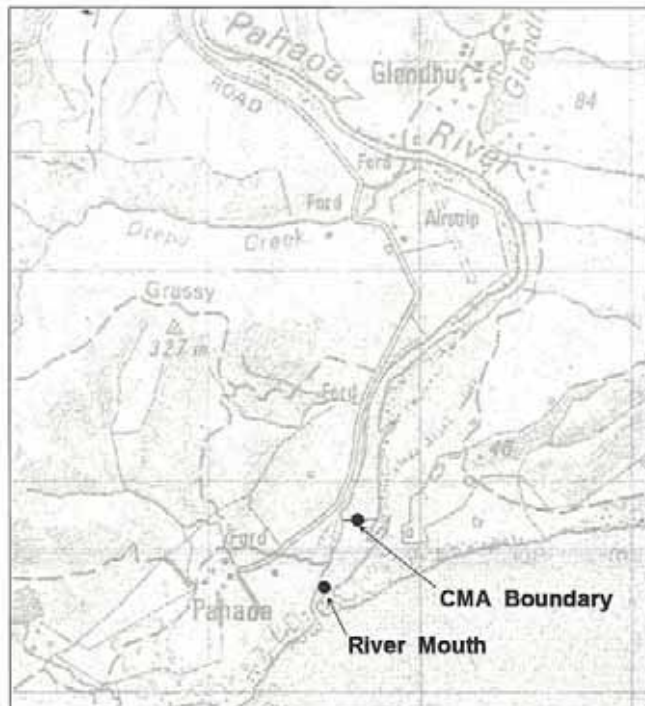
River Mouth and Coastal Marine Area Boundary
 Figure : 1.7
Kakaho Stream

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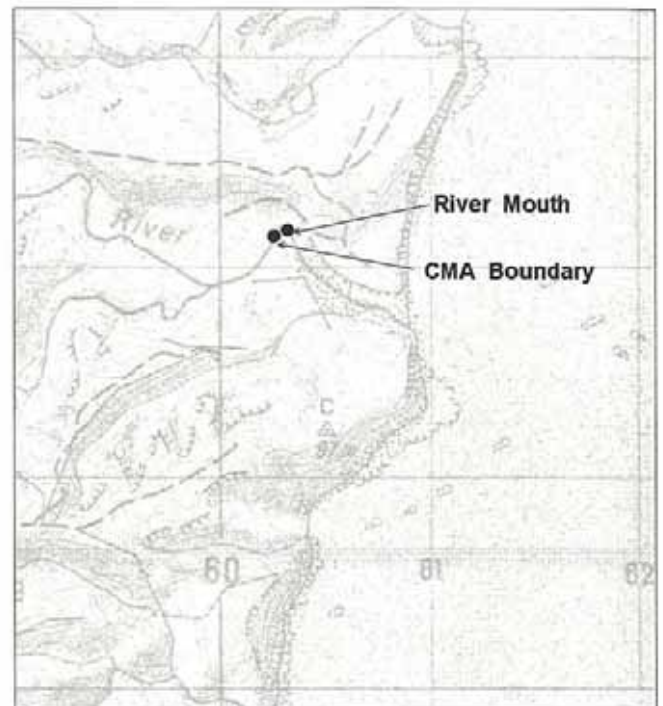
River Mouth and Coastal Marine Area Boundary
 Figure : 1.8
Porirua Stream

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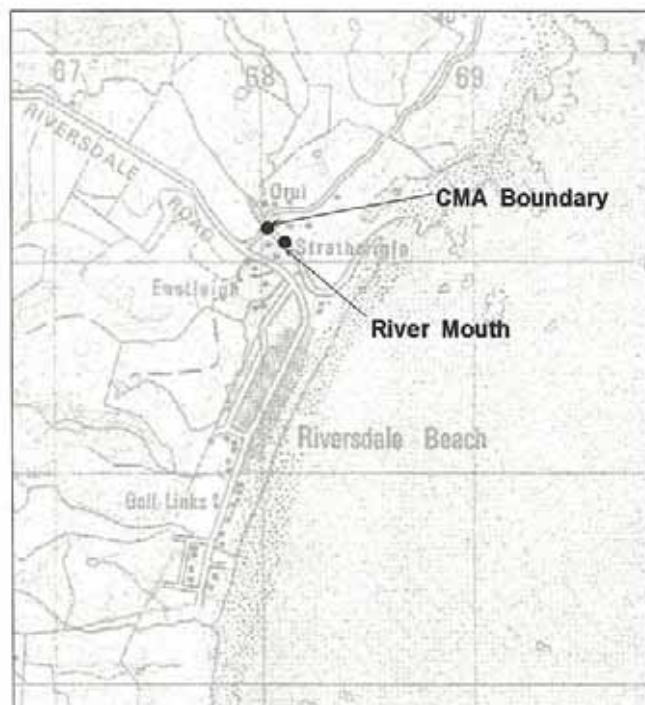
River Mouth and Coastal Marine Area Boundary
 Figure : 1.9
Pahaoa River

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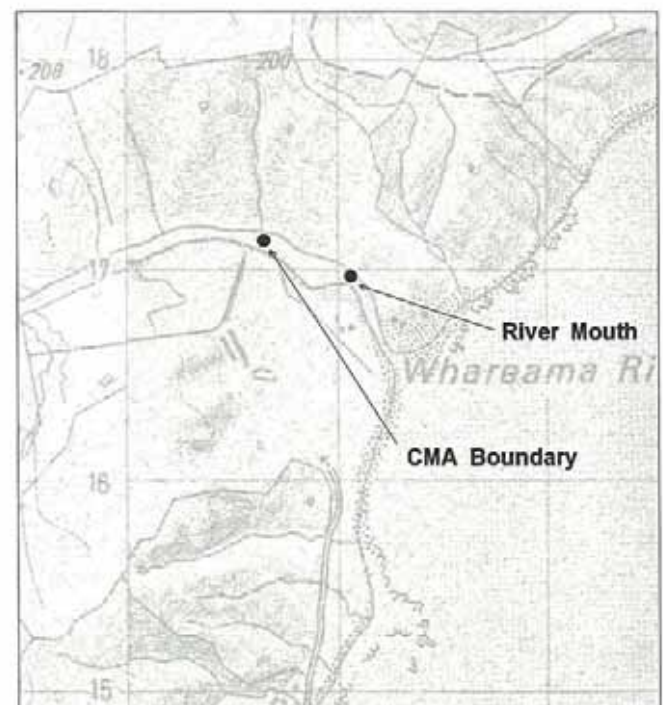
River Mouth and Coastal Marine Area Boundary
 Figure : 1.10
Kaiwhata River

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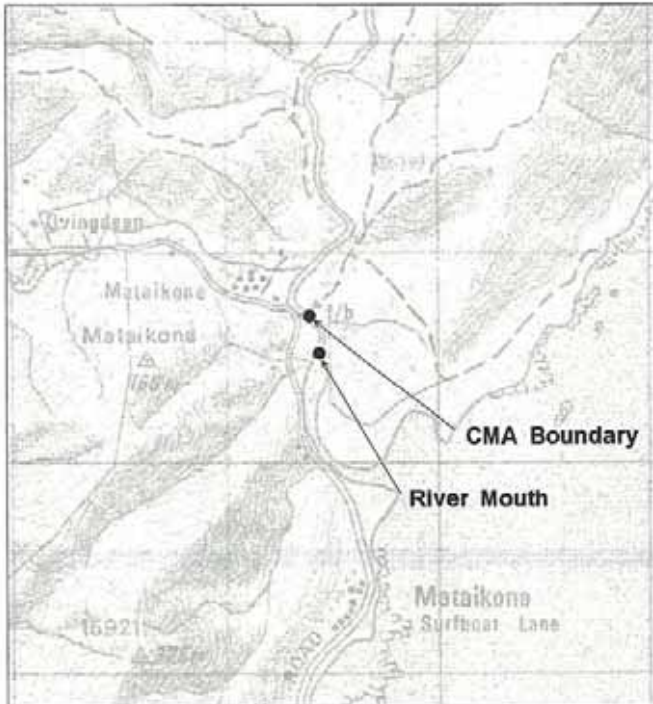
River Mouth and Coastal Marine Area Boundary
 Figure : 1.11
Motuwaireka Stream

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River Mouth and Coastal Marine Area Boundary
 Figure : 1.12
Whareama River

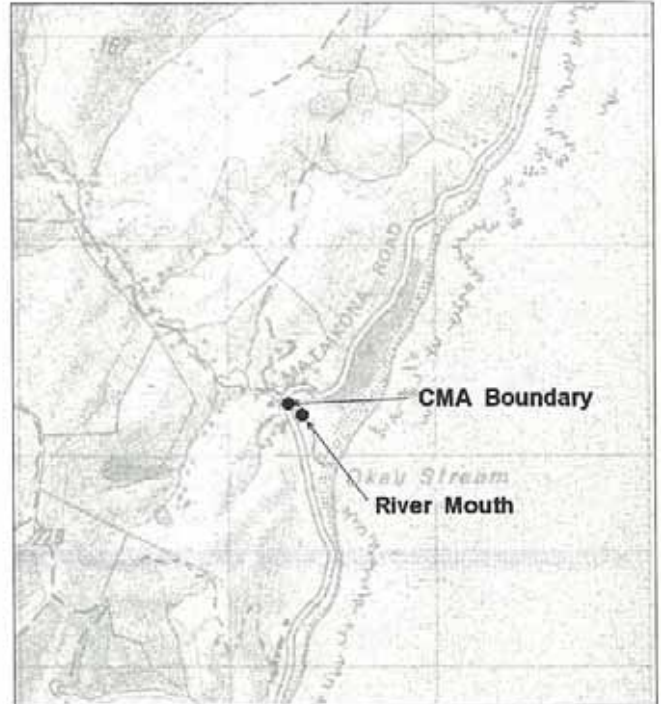
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.13
Mataikona River



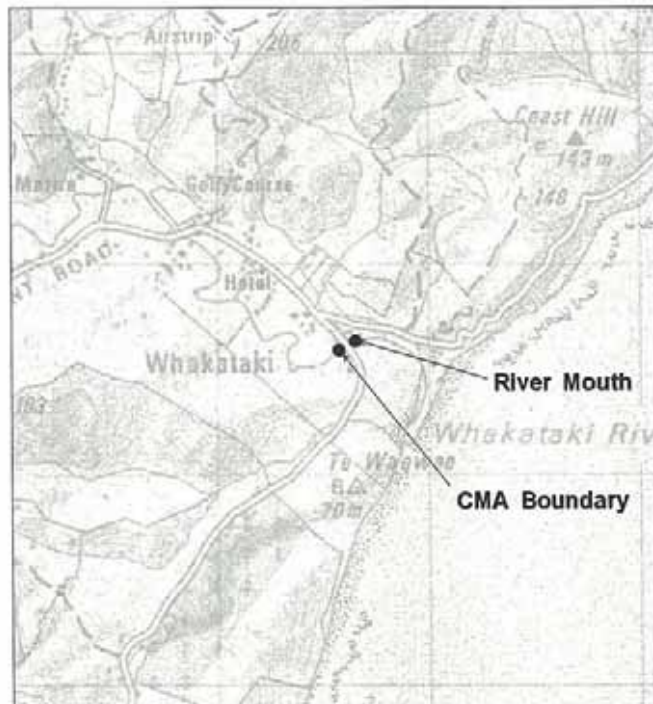
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.14
Okau Stream



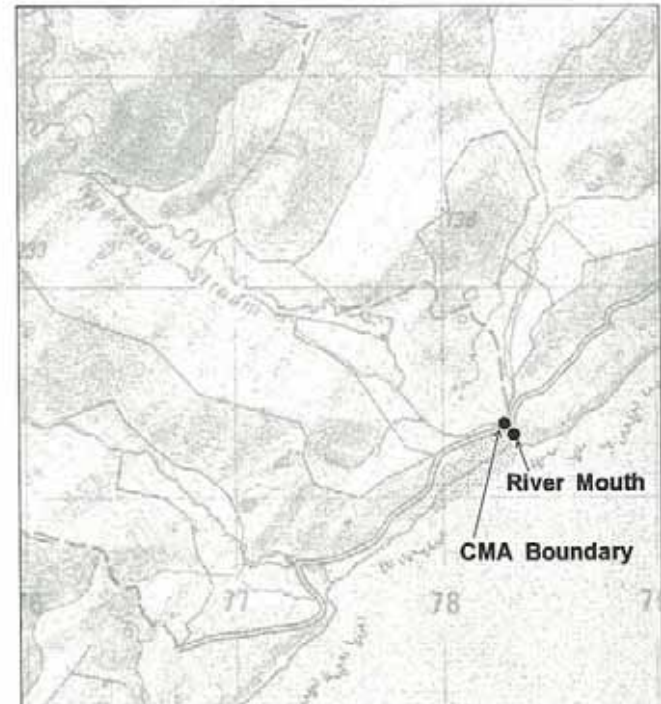
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.15
Whakataki River



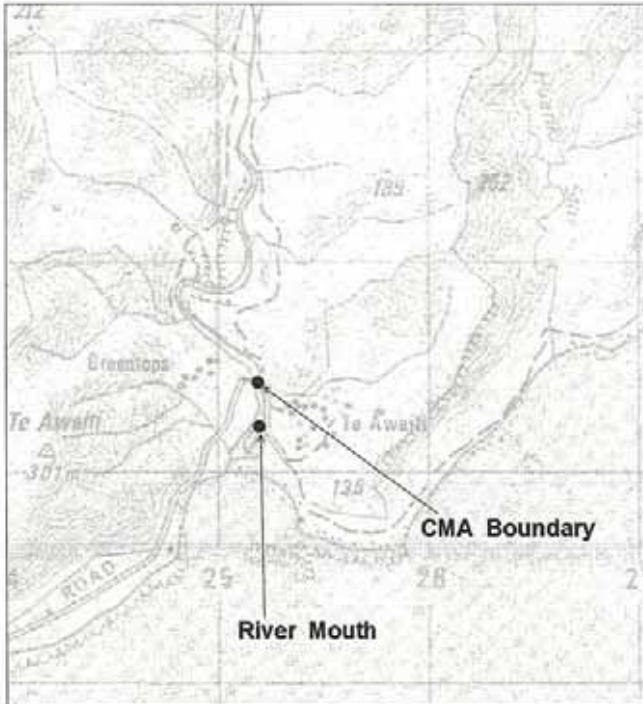
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River Mouth and Coastal Marine Area Boundary
 Figure : 1.16
Ngakauau Stream

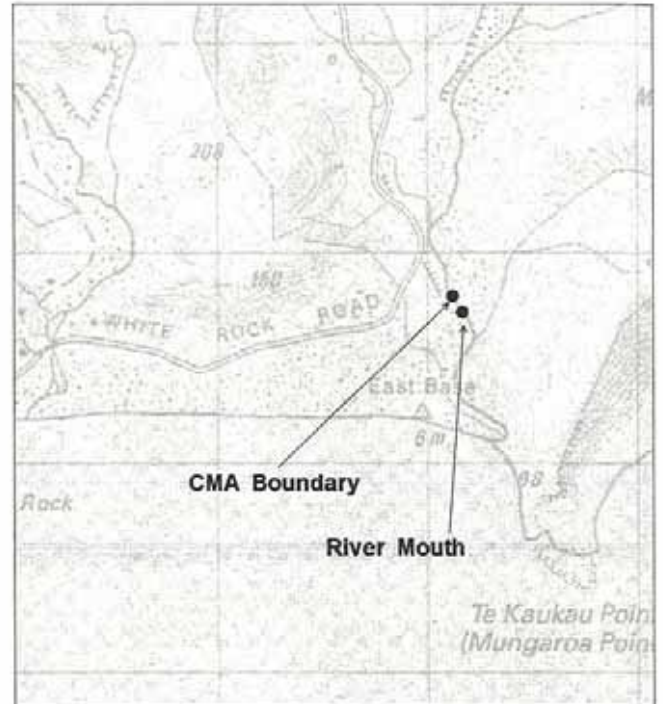


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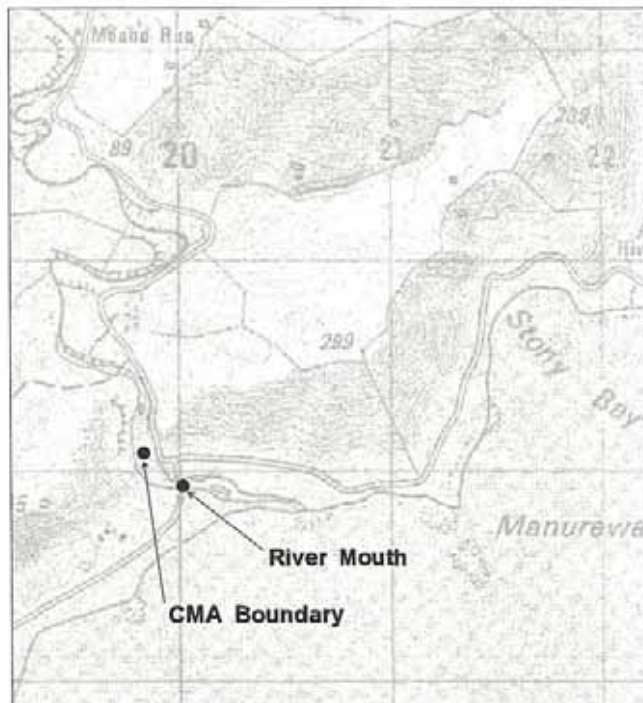
River Mouth and Coastal Marine Area Boundary
 Figure : 1.17
Oterei River

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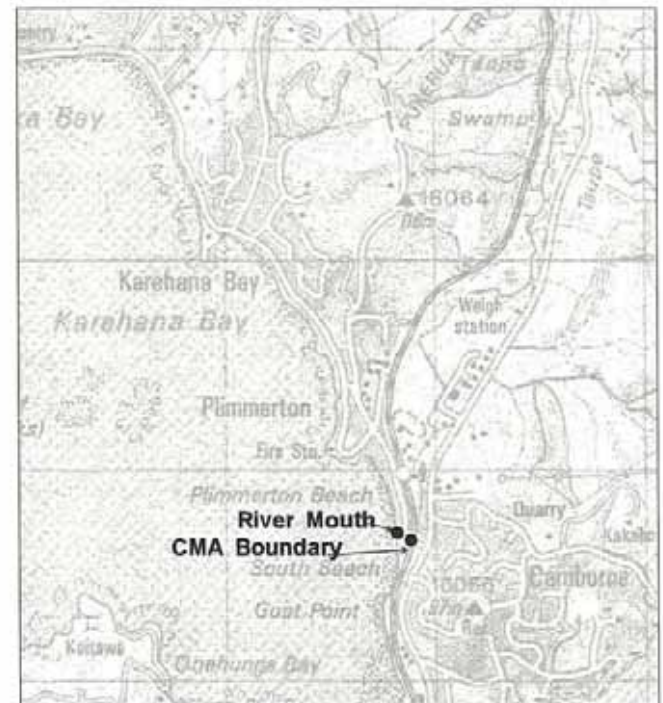
River Mouth and Coastal Marine Area Boundary
 Figure : 1.18
Opouawe River

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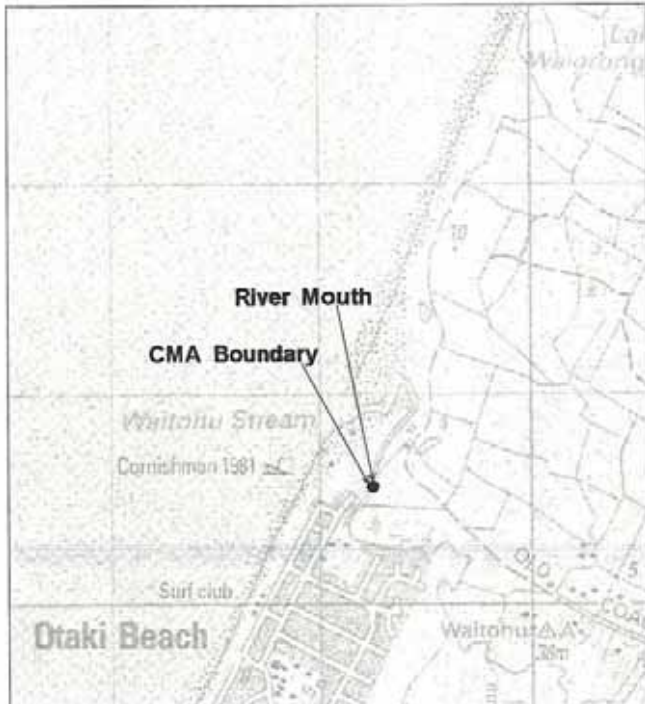
River Mouth and Coastal Marine Area Boundary
 Figure : 1.19
Awhwa River

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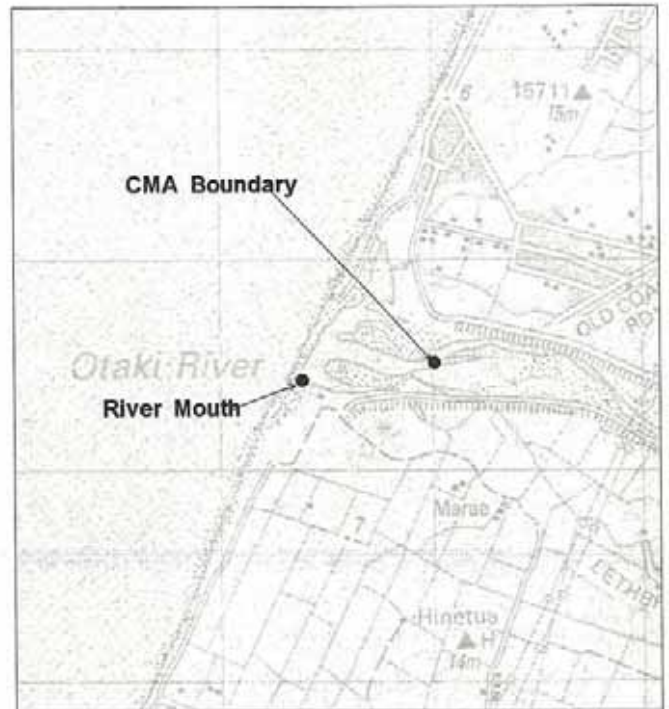
River Mouth and Coastal Marine Area Boundary
 Figure : 1.20
Taupo Stream

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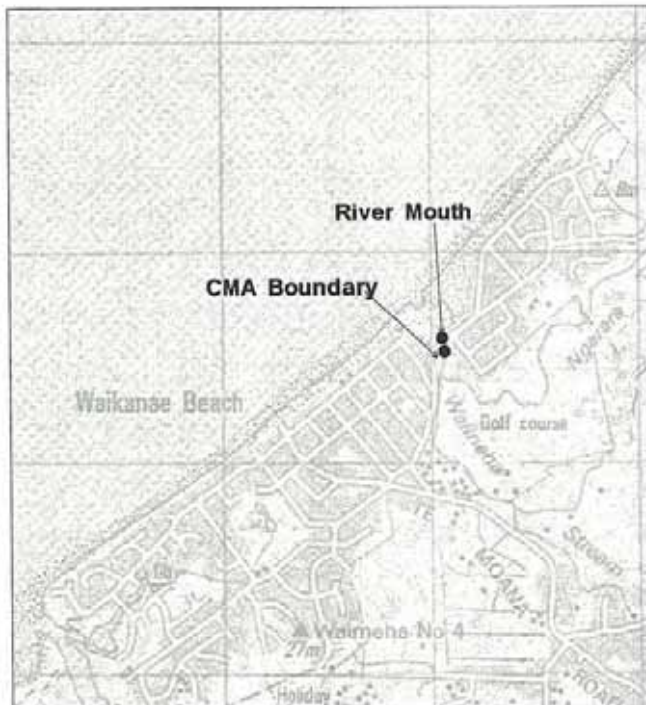
River Mouth and Coastal Marine Area Boundary
 Figure : 1.21
Waitohu Stream

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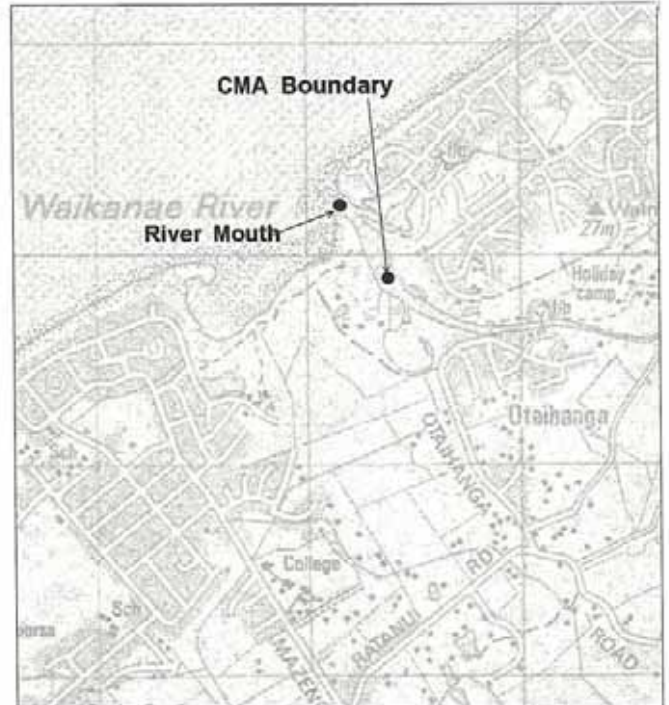
River Mouth and Coastal Marine Area Boundary
 Figure : 1.22
Otaki River

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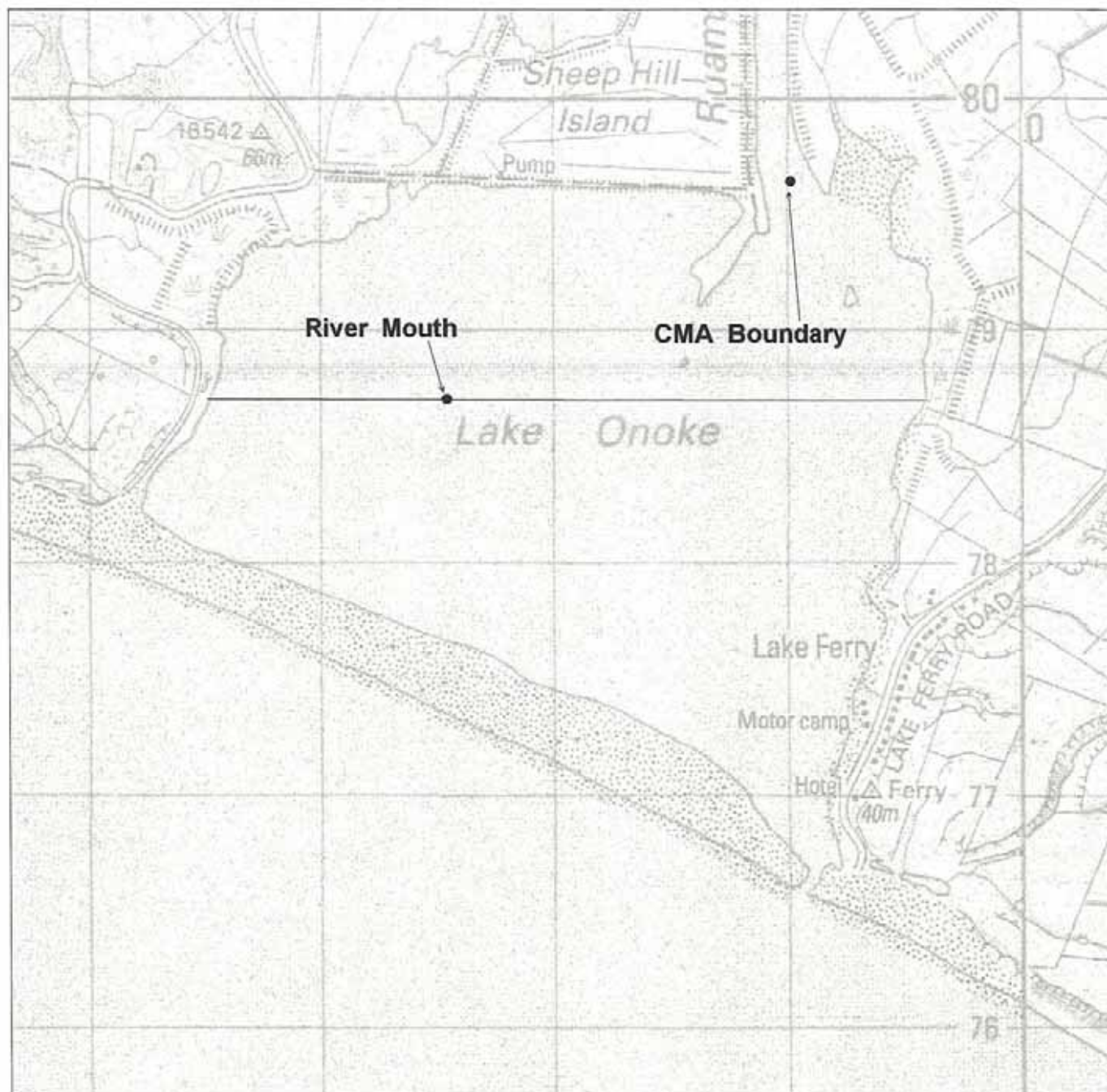
River Mouth and Coastal Marine Area Boundary
 Figure : 1.23
Waimeha Stream

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River Mouth and Coastal Marine Area Boundary
 Figure : 1.24
Waikanae River

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River Mouth and Coastal Marine Area Boundary

Figure : 1.25

Lake Onoke/Ruamahanga River



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Appendix 2

Wetlands, Lakes and Rivers and their Margins, with a High Degree of Natural Character

Policy 4.2.10 provides direction for the management of the natural character of the water bodies and their margins listed in this Appendix.

The locations of catchments with rivers and lakes that have a high degree of natural character are shown in the maps attached to this Appendix as figures (wetlands are not included in the figures). The purpose of the following maps is to assist users of the Plan by generally locating the catchments within which water bodies occurs. The maps are not intended for land use purposes. They are for the management of water bodies within particular catchments. The boundaries of the maps are indicative only and are not legally binding. Grid references are given for NZMS 260 maps.

Part A: Surface Water to be Managed in its Natural State

Policy 5.2.1 provides direction on water quality for the management purposes of the water bodies listed in this Appendix.

Rivers

All water bodies and river beds within the catchment of the Waiohine River upstream from the cableway at S26 117 185, as generally shown in figure 2.1.

All water bodies and river beds within the catchment of the Otaki River upstream of the Suspension Bridge at S26 958 402, as generally shown in figure 2.2.

All water bodies and river beds within the catchment of the Wainuiomata River upstream of the former Morton Dam site at R27 771 918, as generally shown in figure 2.3.

All water bodies and river beds within the catchment of the Orongorongo River upstream of the Truss Bridge at R28 689 747, as generally shown in figure 2.4.

All river and lake beds and water bodies upstream of Park Boundaries marked on NZMS 260 series maps that have their sources in, and flow in:

- the Haurangi State Forest Park, as generally shown in figure 2.5;
- the Rimutaka Forest, as generally shown in figure 2.6; and
- the Tararua Forest Park; as generally shown in figure 2.7.

Wetlands

Muapoko Swamp Forest at and around R26 807 323

Part B: Surface Water to be Managed for Aquatic Ecosystem Purposes

Policy 5.2.6 provides guidance on water quality for all water bodies not listed in Appendix 7. This includes water bodies that are being managed for other purposes in accordance with Policies 5.2.2 to 5.2.5.

Rivers and Lakes

Lake Wairarapa, as generally shown in figure 2.8.

All water bodies and river beds within the catchment of the Hutt River above the Wellington water supply intake weir at S26 941 150, as generally shown in figure 2.9.

Lake Kohangatera and the Gollans Swamp at around R27 661 802, and all waterbodies within the catchment above the junction of Gollans Stream and Butterfly Creek, and Lake Kohangapiripiri and its swamp at around R27 654 810, as generally shown in figure 2.10.

All water bodies and river beds within the catchment of the Hurupi Stream upstream of the road bridge at S28 955 717, as generally shown in figure 2.11.

All water bodies and river beds within the catchment of the Putangirua Stream upstream of the road bridge at S28 956 706, as generally shown in figure 2.12.

All water bodies and river beds within the catchment of the Kakaho stream upstream of the coastal marine area boundary at R26 691 115, as generally shown in figure 2.13.

All water bodies and river beds within the catchment of the Horokiri Stream and the Ration Stream upstream of the respective coastal marine boundaries at R26 702 107 and R26 707 103, as generally shown in Figure 2.14.

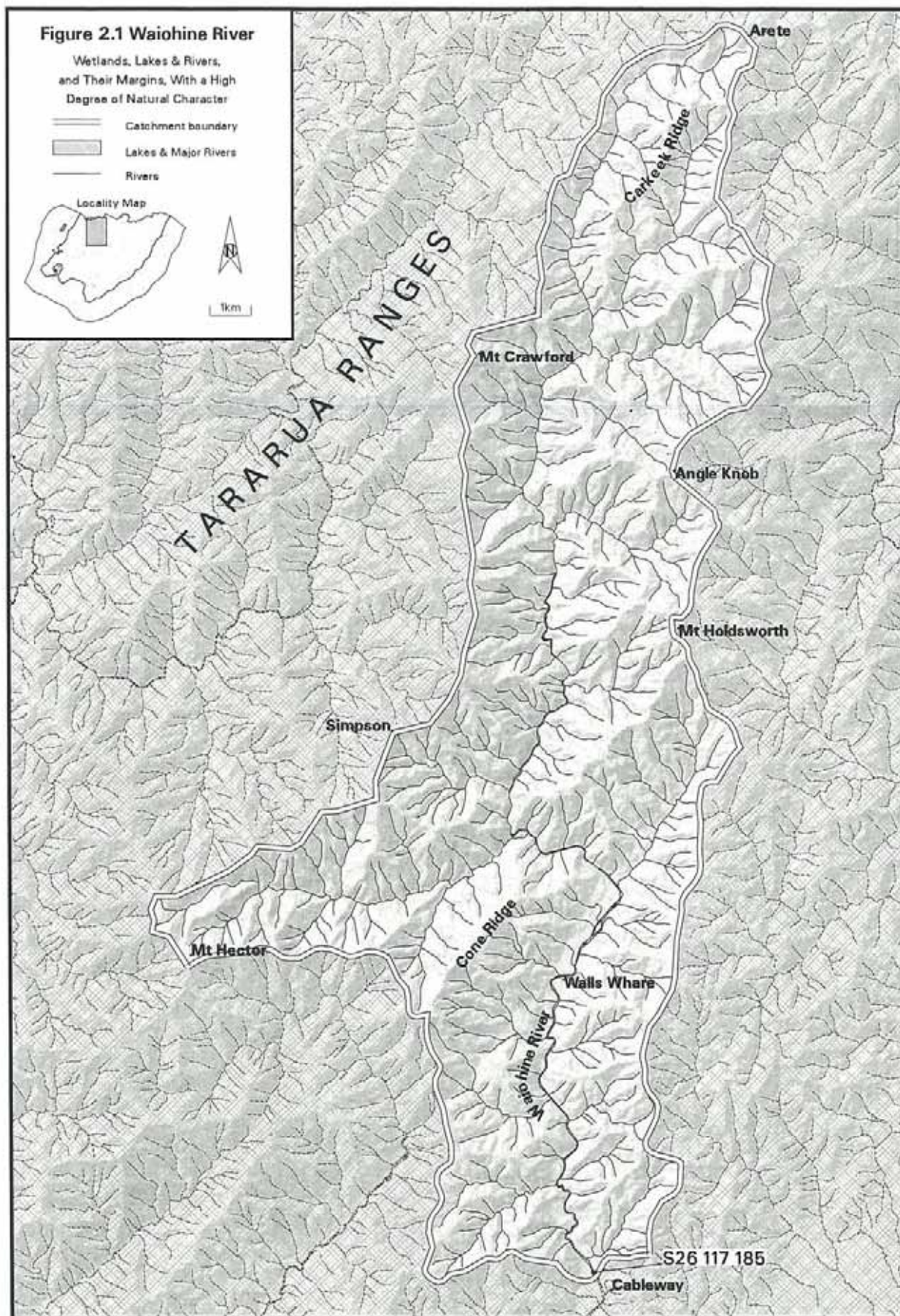
All water bodies and river beds within the catchment of the Pauatahanui Stream upstream of the coastal marine area boundary at NZMS R27 708 095, as generally shown in figure 2.15.

All water bodies and river beds within the catchment of the Catchpool Stream upstream from the confluence with the Wainuiomata River at R27 714 826, as generally shown in figure 2.16.

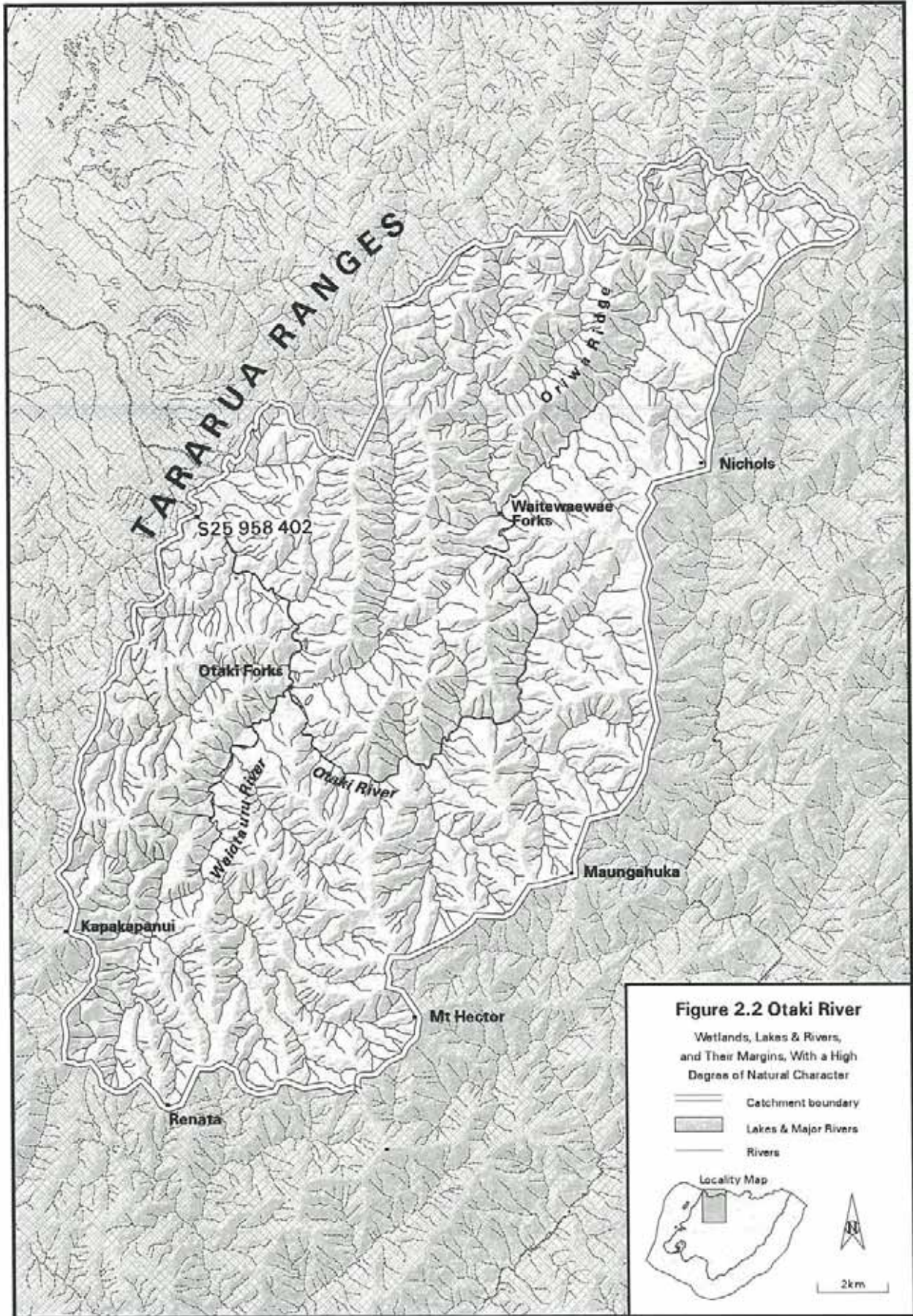
All water bodies and river beds within the catchment of the Waipapa Stream, upstream of the coastal marine area boundary at NZMS R27 541 818, as generally shown in figure 2.17.

Wetlands

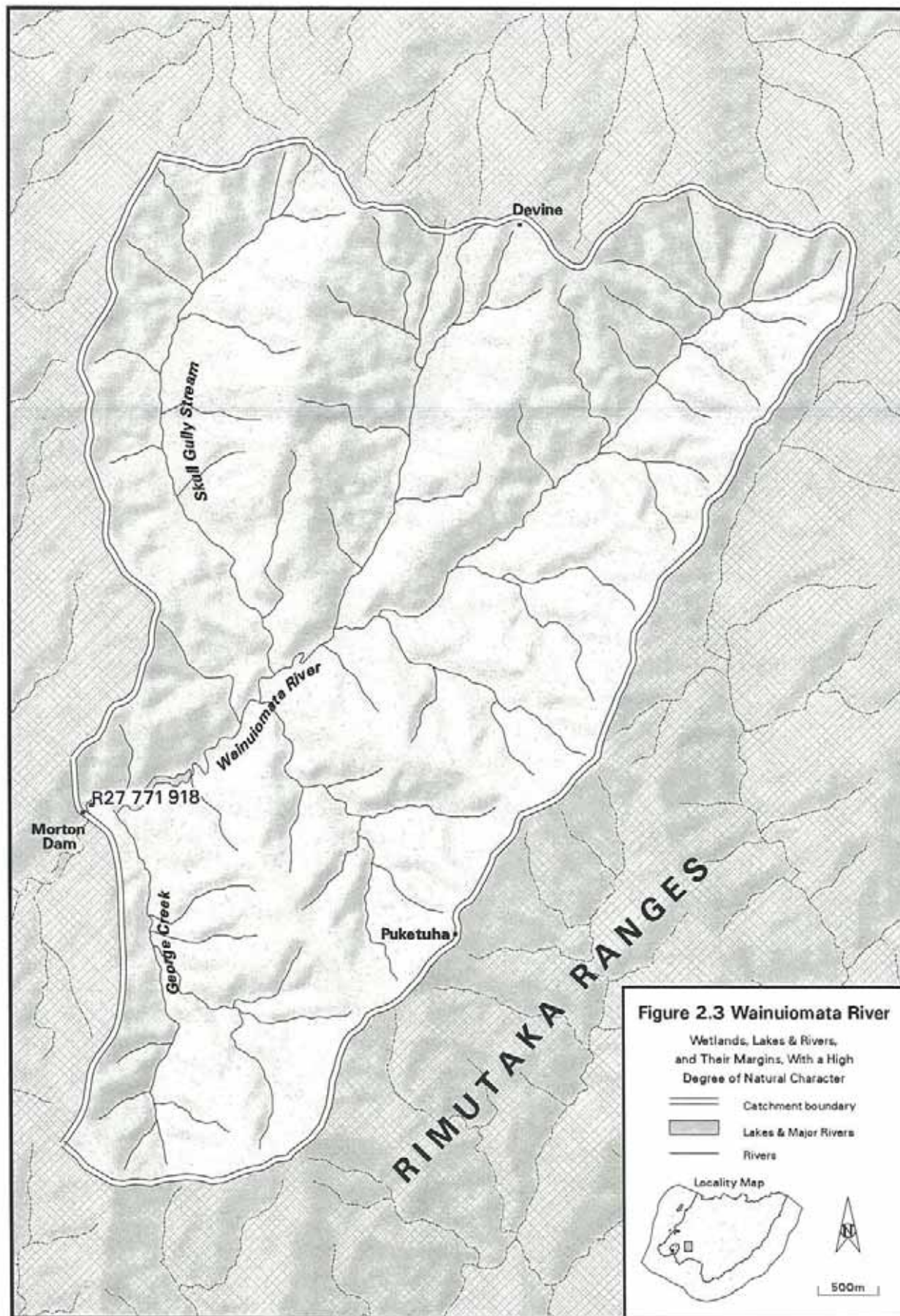
- Bartons Lagoon at and around S27 042 018
- Tauherenikau Delta at and around S27 050 007
- Donalds/Haywoods Wetland at and around S27 978 038
- Ruamahanga Floodway Wetland at and around S27 010 935
- Mathews Lagoon at and around S27 995 915
- Boggy Pond at and around S27 995 915
- Carter's Bush, Waikoukou Stream at and around S26 285 125
- Pukio Oxbow at and around S27 055 992
- Omega Bogs and Tarms at and around S26 040 218
- Maungahuka Tarm at and around S26 065 301
- Orui Wetland at and around T27 685 093
- Kourarau Dam at and around T27 370 093
- Te Harakeke Swamp at and around R26 827 377
- Railway Lakes at and around R26 762 243
- MacKays Crossing Swamp at and around R26 767 241
- Taupo Swamp Complex at and around R26 675 135



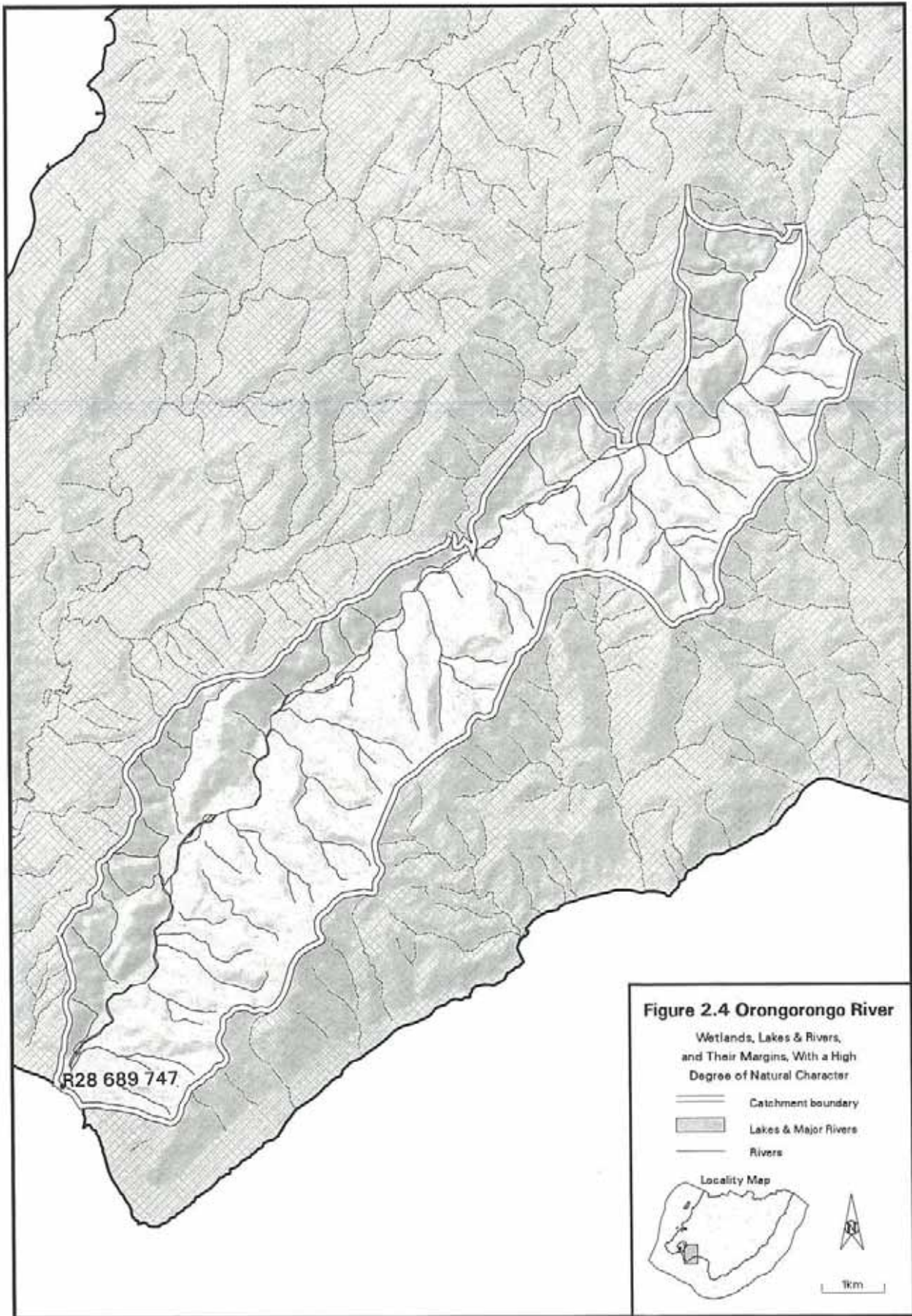
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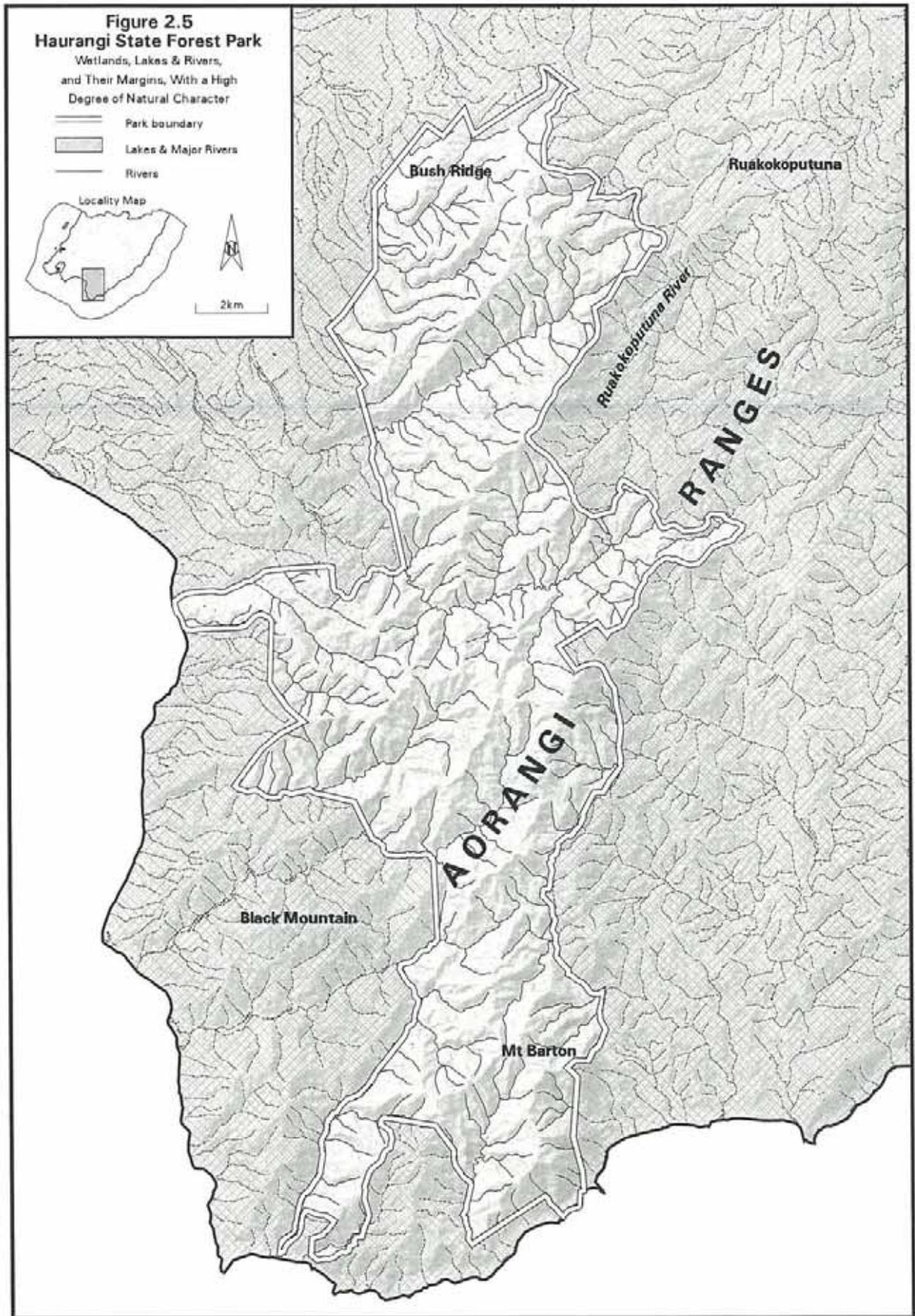
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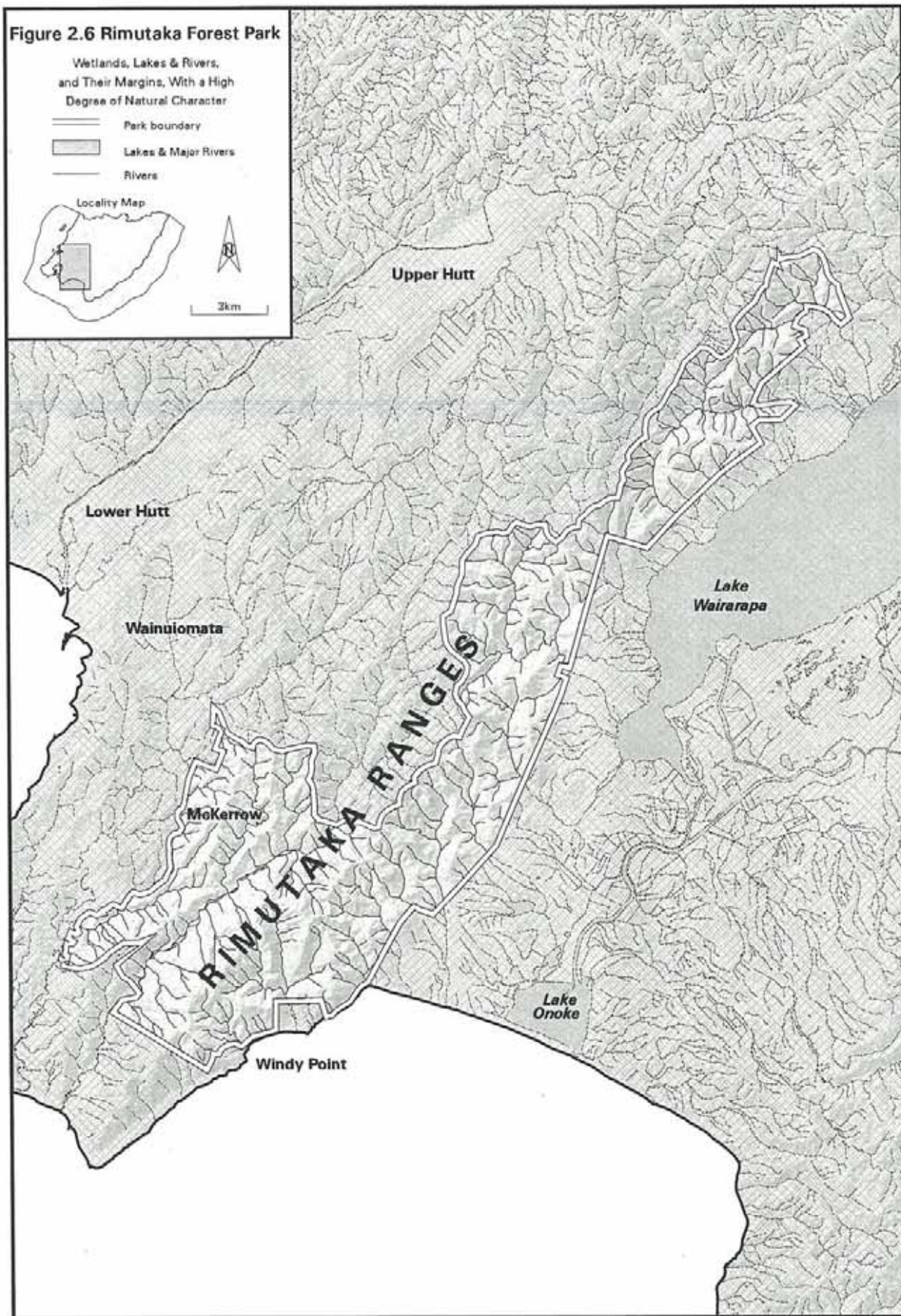
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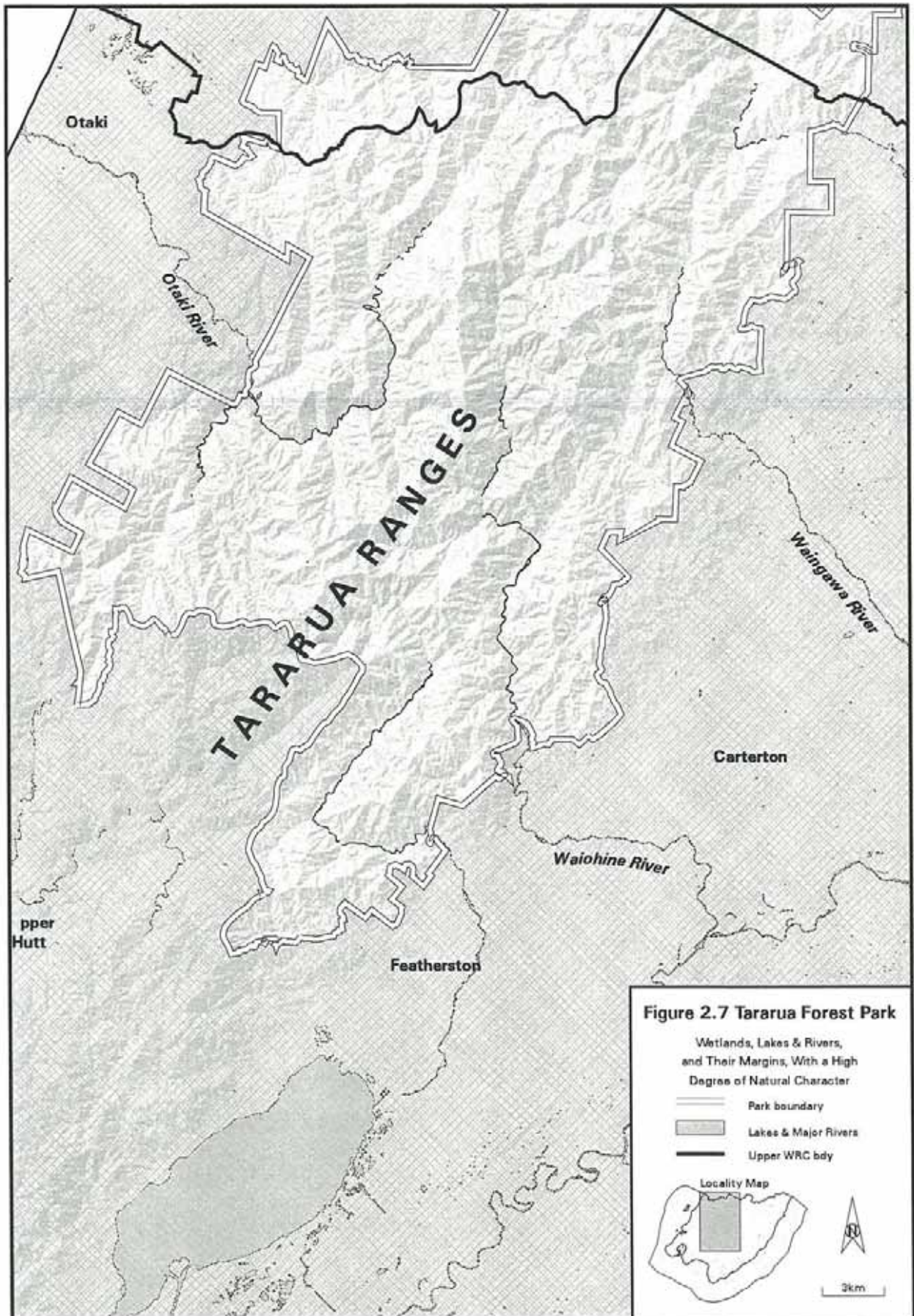
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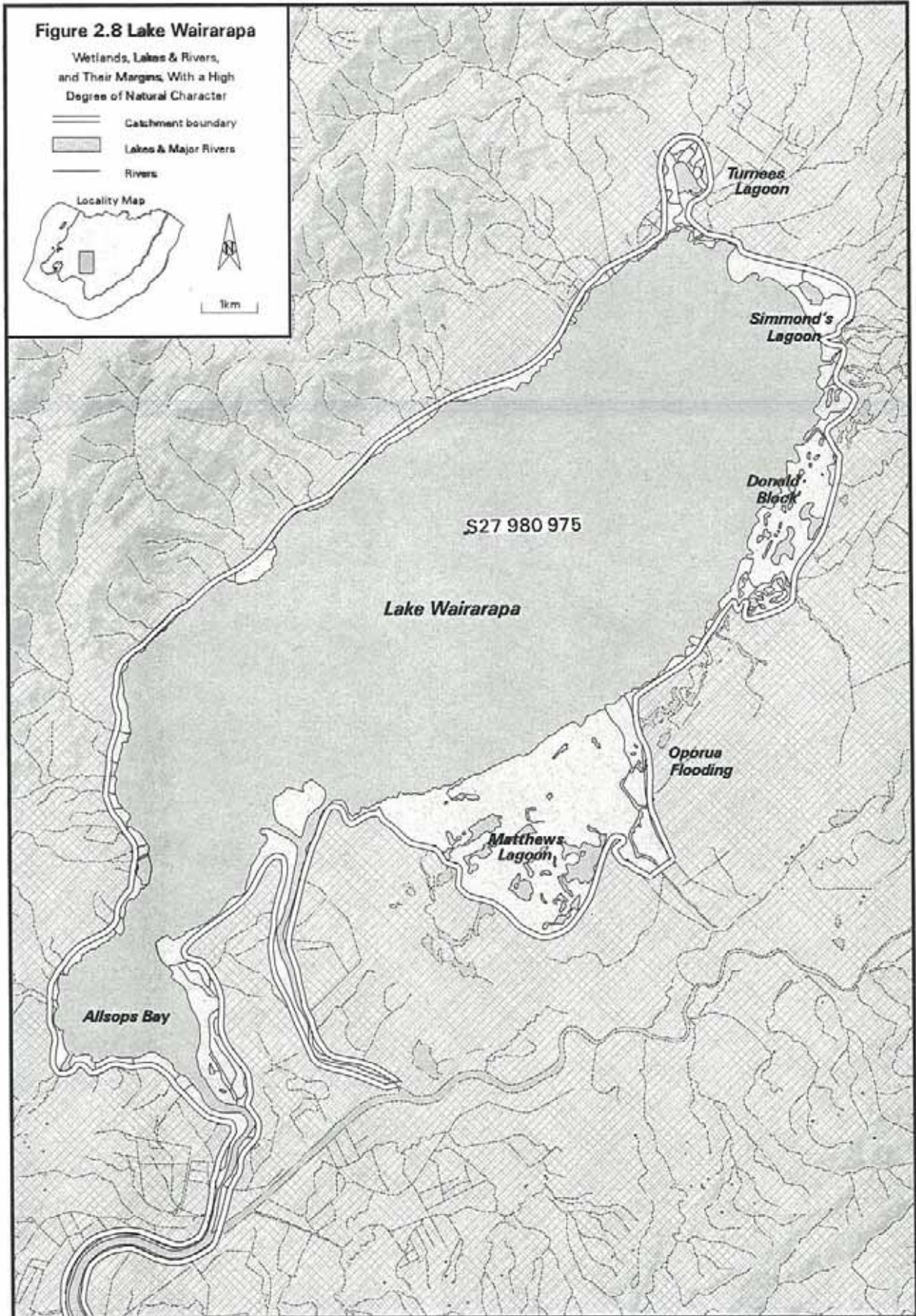
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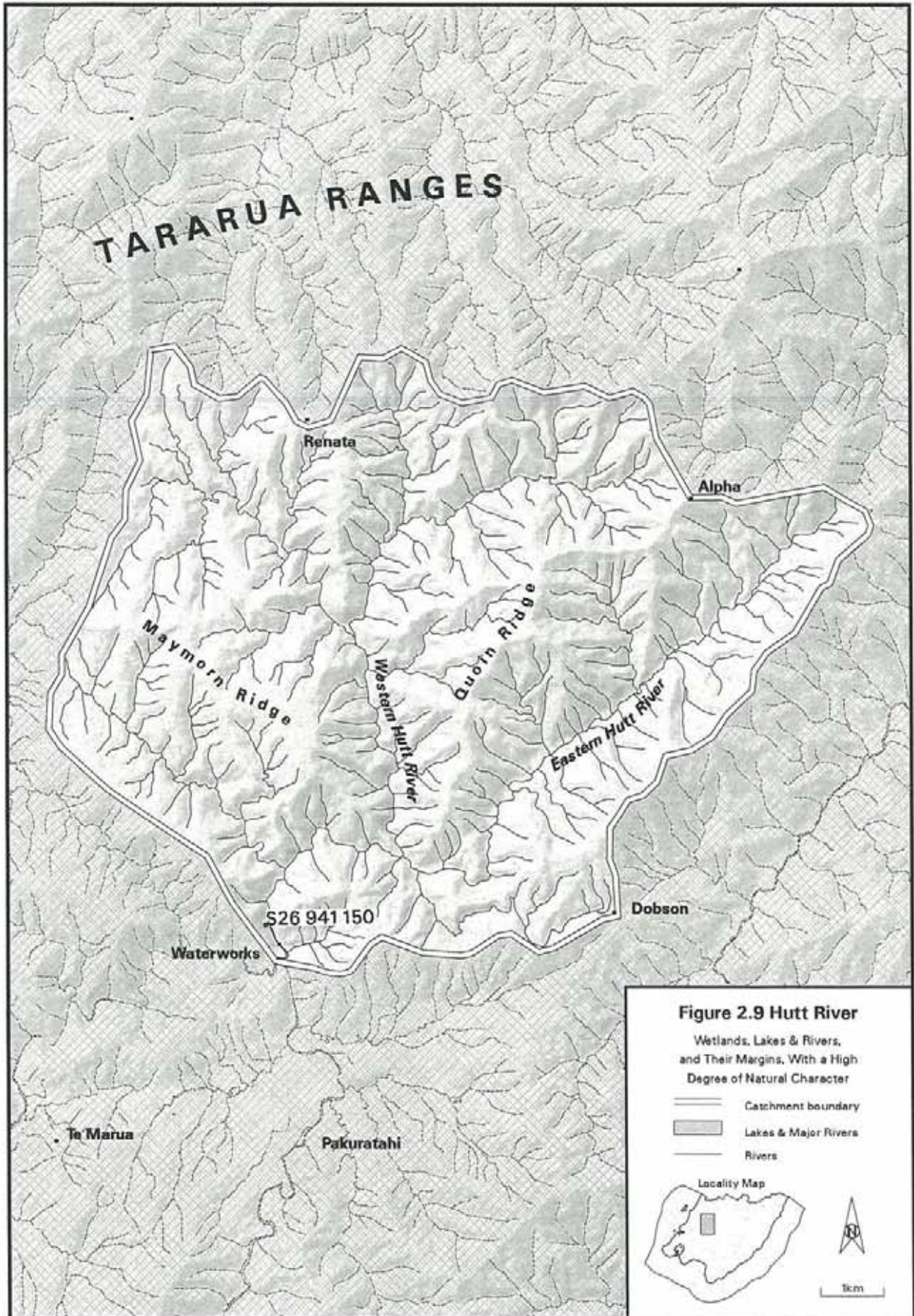
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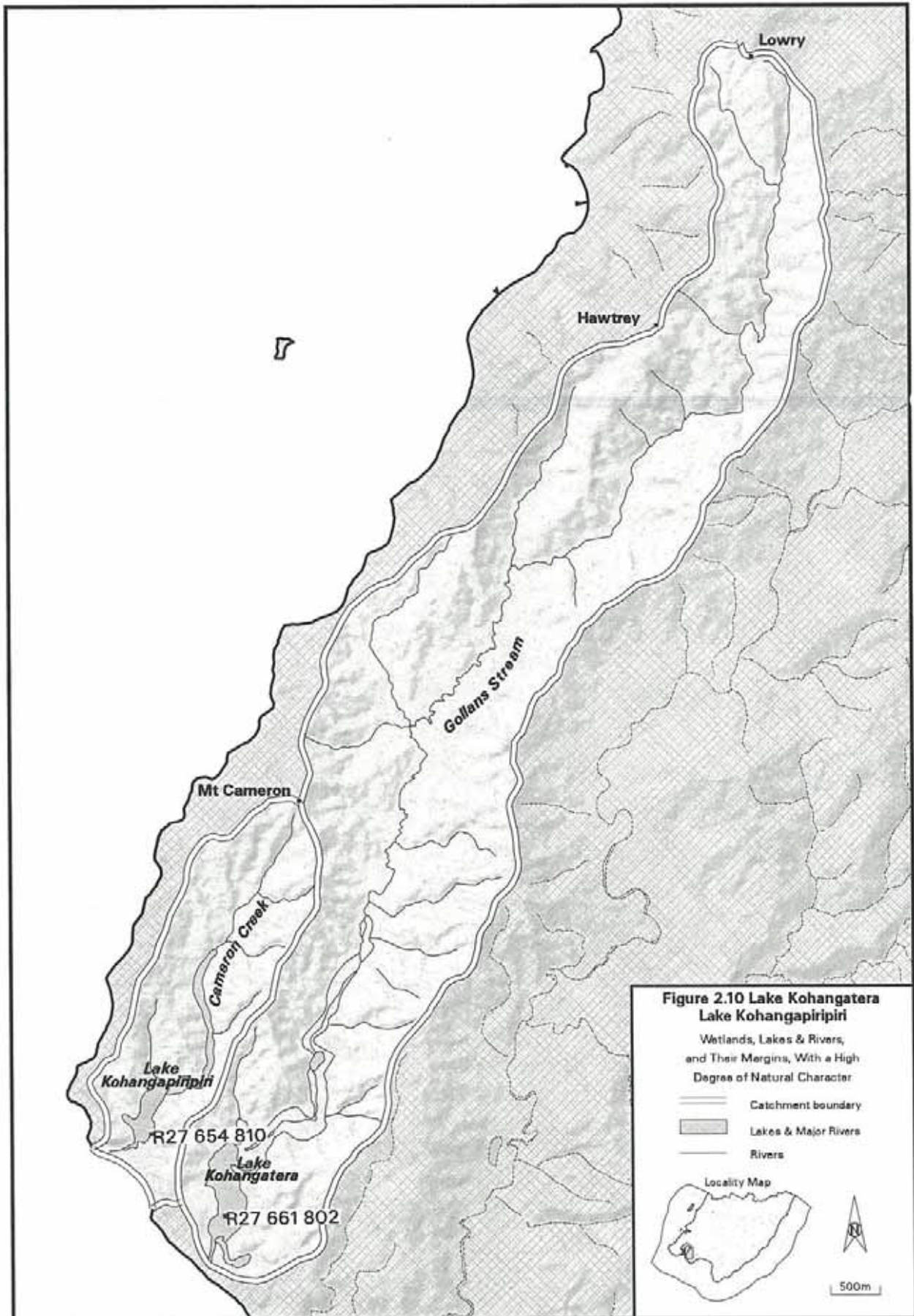
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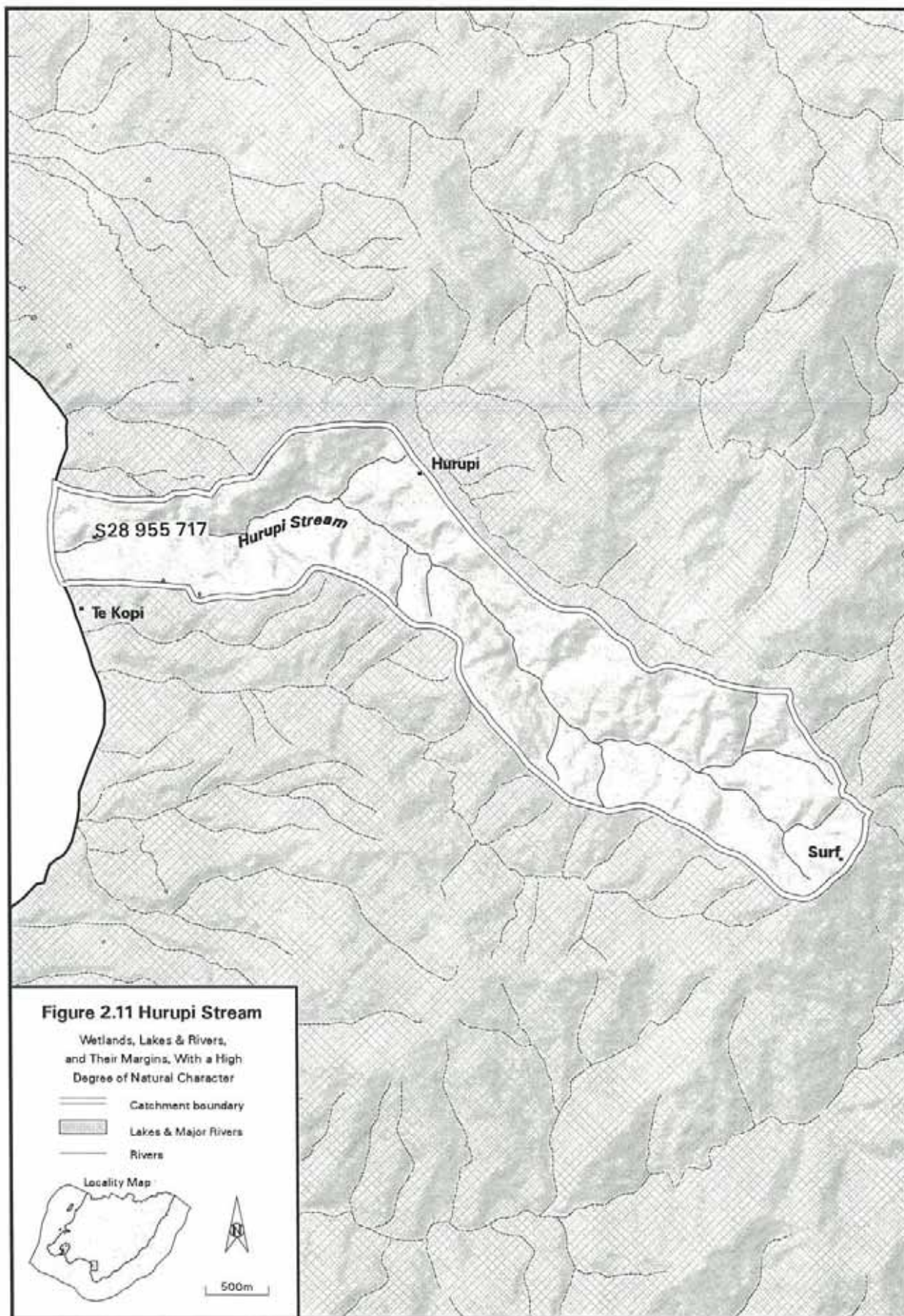
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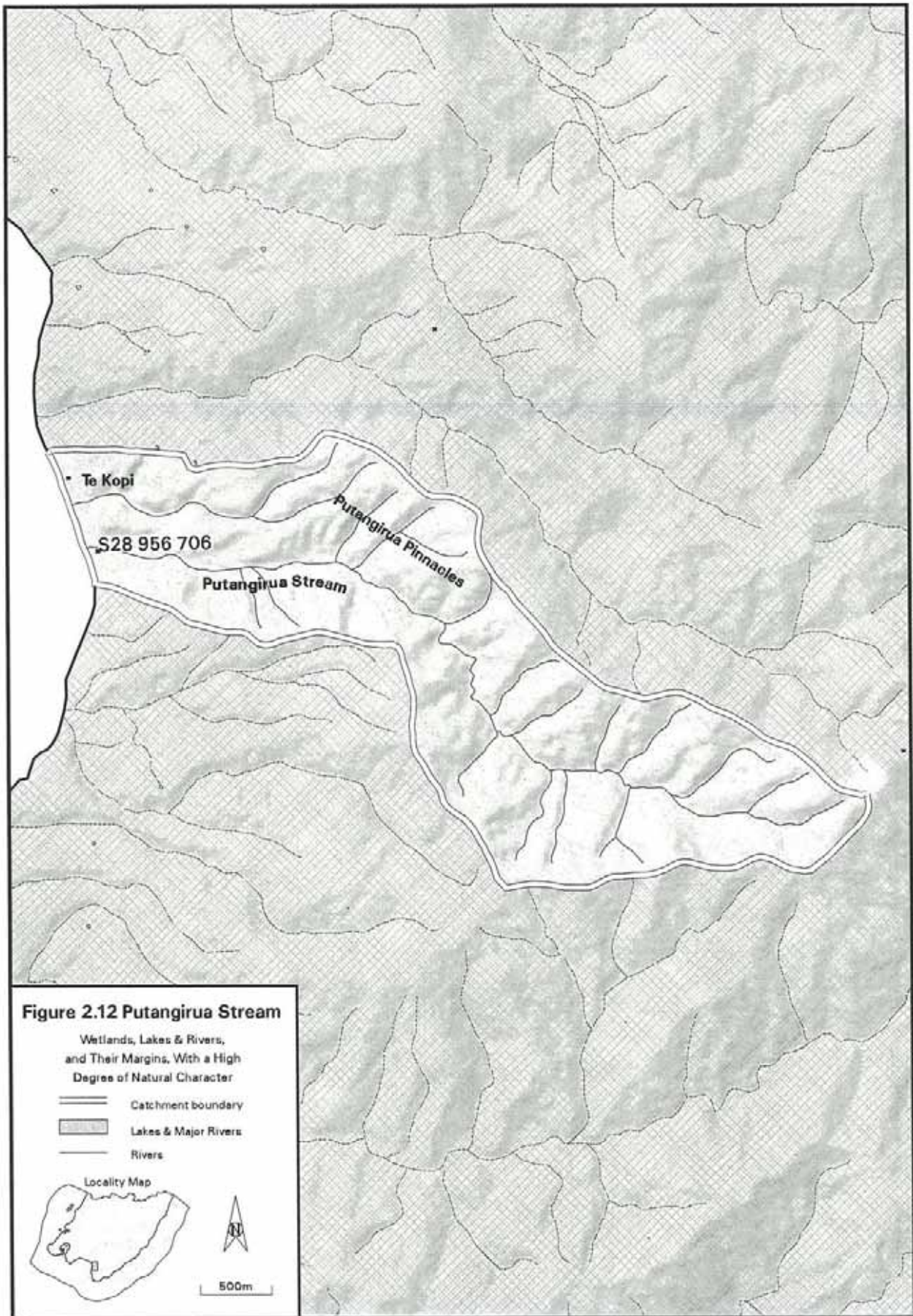
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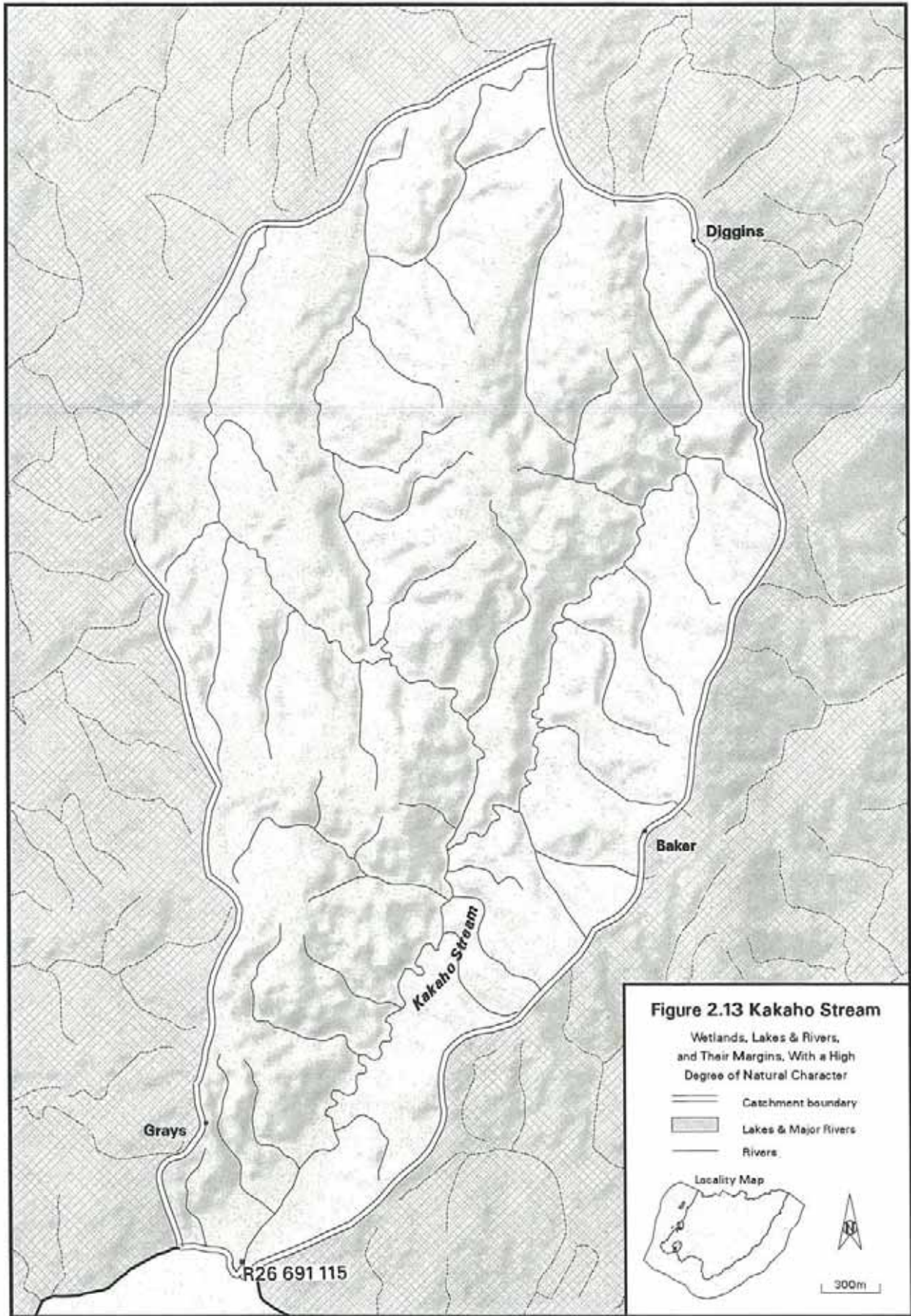
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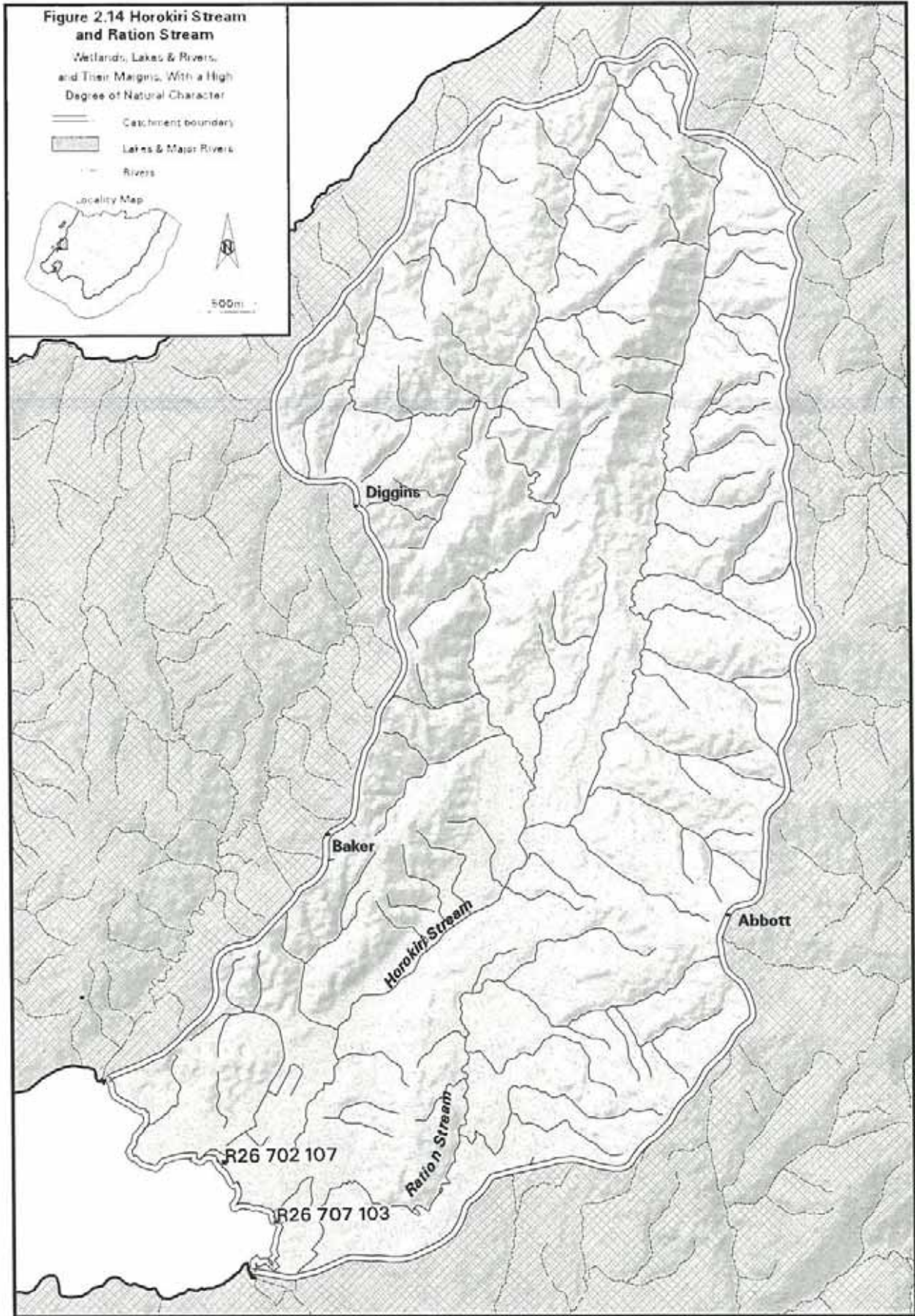
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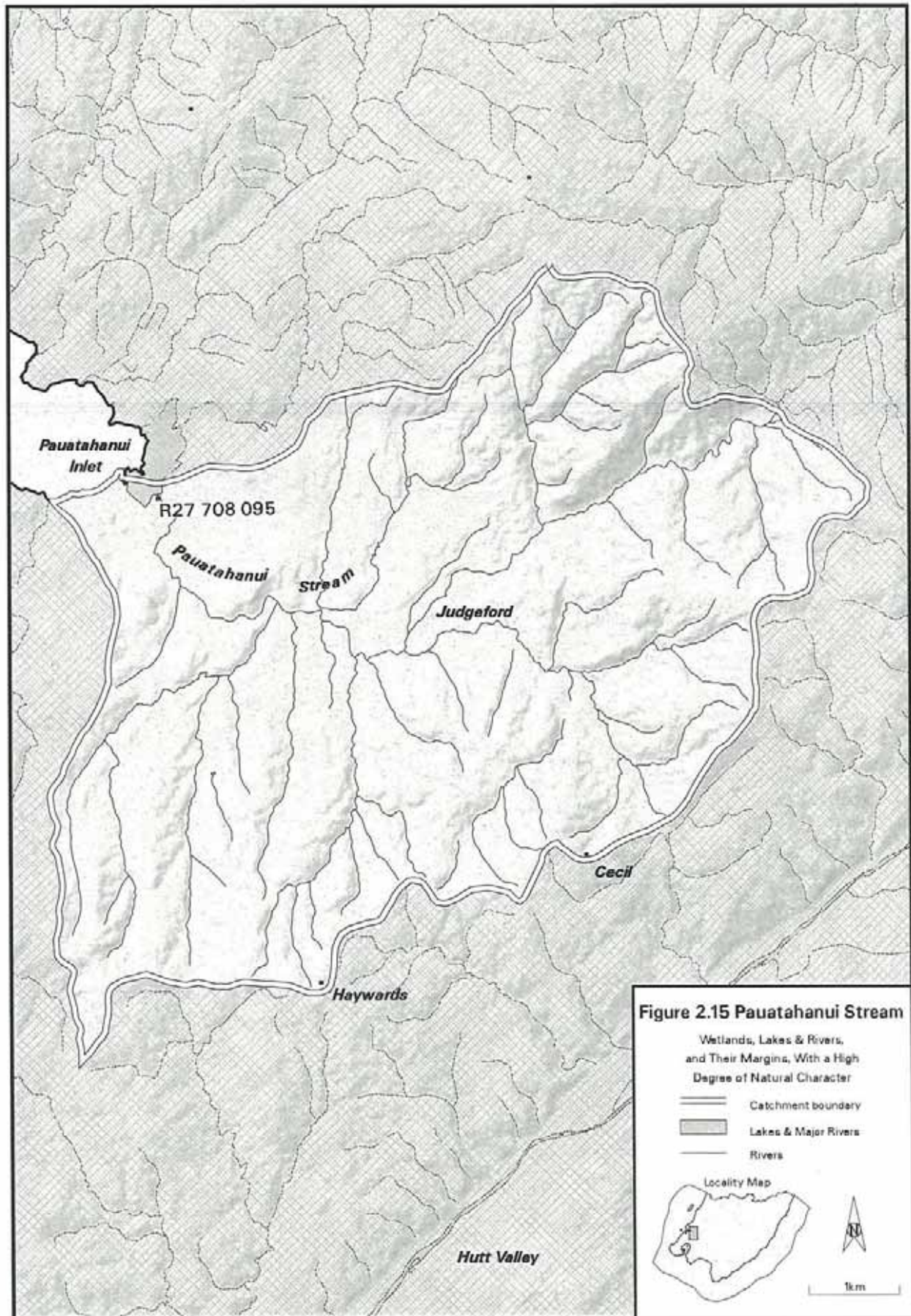
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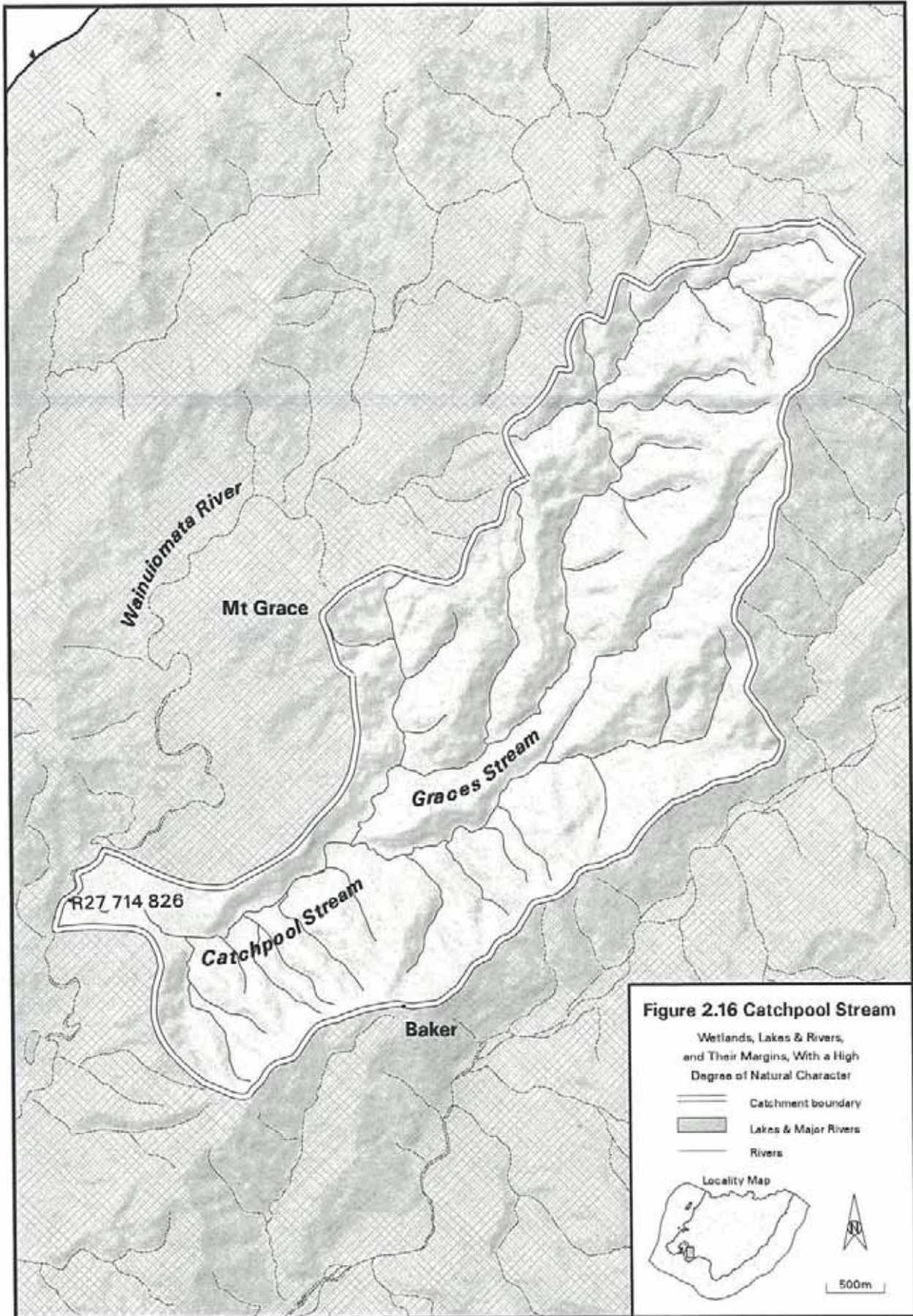


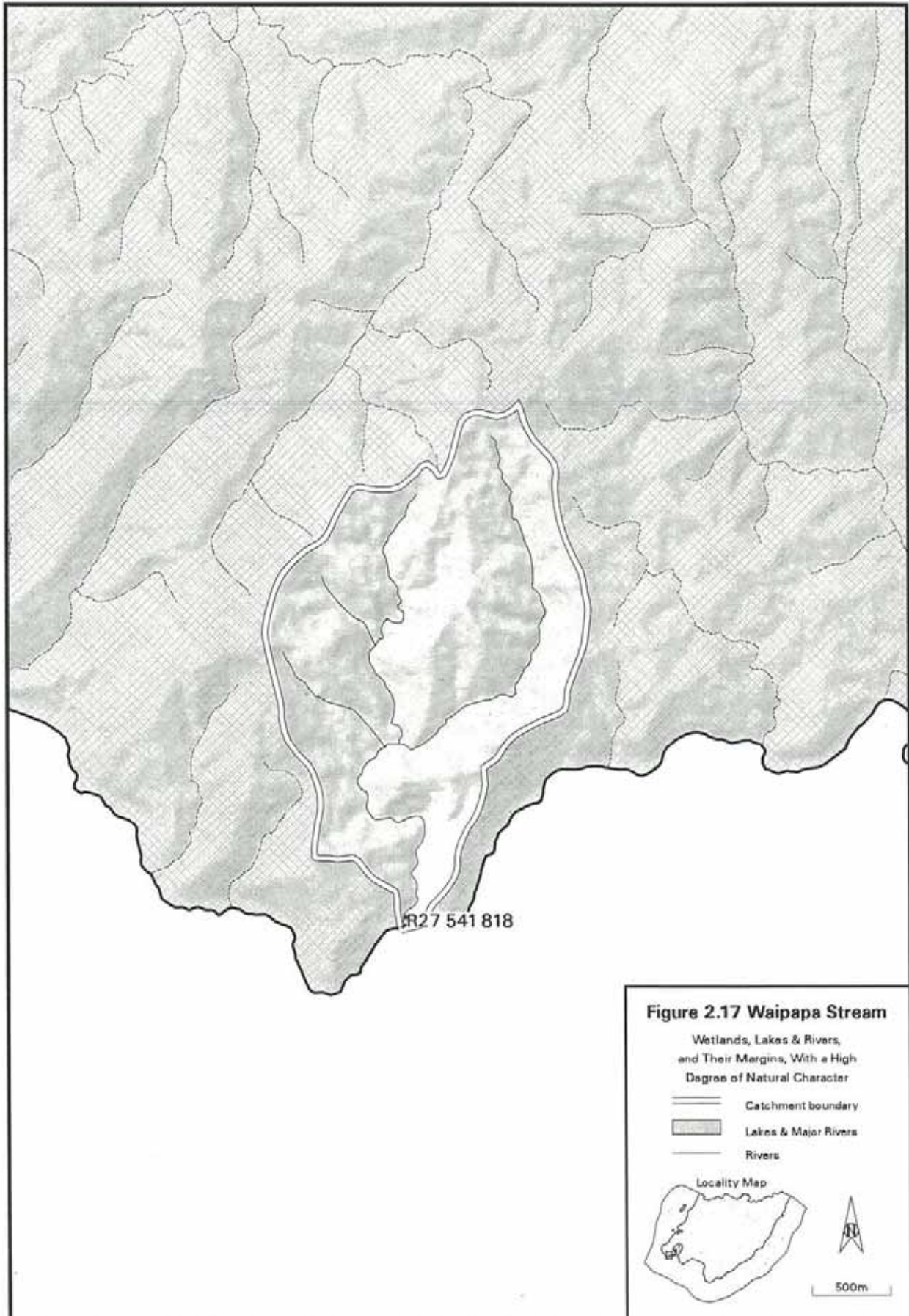
Figure 2.16 Catchpool Stream

Wetlands, Lakes & Rivers,
and Their Margins, With a High
Degree of Natural Character

- Catchment boundary
- Lakes & Major Rivers
- Rivers



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Appendix 3

Water Bodies with Nationally Threatened Indigenous Fish Recorded in the Catchment and Nationally Threatened Indigenous Aquatic Plants

Refer to Policy 4.2.13

The locations of catchments with rivers, lakes and wetlands where nationally threatened fish species are recorded are shown in the maps attached to this Appendix as figures. The purpose of the following maps is to assist users of the Plan by **generally** locating the water bodies and their catchments. The maps are not intended for land use purposes. They are for the management of water bodies within particular catchments. The boundaries of the maps are indicative only and are not legally binding.

Grid references are given for NZMS 260 maps.

The records of fish species for this Appendix are taken from *The National Freshwater Fisheries Database* managed by the National Institute of Water and Atmospheric Research.

Part A: Water Bodies with Nationally Threatened Indigenous Fish Recorded in the catchment

The Waikanae River, above the coastal marine area boundary at R26 794 349, and the following rivers in the Waikanae River catchment above their confluences with the Waikanae River, as generally shown in Figure 3.1:

- the Muapoko Stream;
- the Mangakotukutuku Stream;
- the Ngatiawa River;
- the Reikorangi Stream;
- the unnamed tributary at R26 898 344;
- the unnamed tributary at R26 896 336; and
- the unnamed tributary at R26 896 345.

(Species recorded are: Shortjawed Kokopu and Koaro)

The Otaki River, above the coastal marine area boundary at R25 880 475, and the following rivers in the Otaki River catchment above their confluences with the Otaki River, as generally shown in figure 3.2:

- the Pukehinau Stream;
- the Waioatauru River; and
- the Waimanu Stream;

(Species recorded are: Shortjawed Kokopu, Giant Kokopu, Banded Kokopu, and Koaro)

The Korokoro Stream and its tributaries upstream of the coastal marine area boundary at R27 658 963, as generally shown in figure 3.3. (Species recorded are: Giant Kokopu)

The Horokiri Stream and the Ration Stream and their tributaries upstream of the respective coastal marine boundaries at R26 702 107 and R26 707 103, as generally shown in Figure 3.4. (Species recorded are: Shortjawed Kokopu, Giant Kokopu, and Banded Kokopu)

The Pauatahanui Stream and its tributaries upstream of the coastal marine area boundary at R27 708 095, as generally shown in figure 3.5. (Species recorded are: Giant Kokopu and Banded Kokopu)

The Kakaho Stream and its tributaries upstream of the coastal marine area boundary at R26 691 115, as generally shown in figure 3.6. (Species recorded are: Banded Kokopu)

Duck Creek and its tributaries upstream of the coastal marine area boundary at R26 095 696, as generally shown in figure 3.7. (Species recorded are: Shortjawed Kokopu, Giant Kokopu, and Banded Kokopu)

The Taupo Stream and its tributaries upstream of the coastal marine area boundary at R26 668 117, as generally shown in figure 3.8. (Species recorded are: Giant Kokopu and Banded Kokopu)

The Wairaka Stream and its tributaries upstream of the coastal marine area boundary at R26 181 689, as generally shown in figure 3.9. (Species recorded are: Shortjawed Kokopu and Banded Kokopu)

The Waitohu Stream and its tributaries upstream of the coastal marine area boundary at R25 893 505, as generally shown in figure 3.10. (Species recorded are: Brown Mudfish)

The Whareroa Stream and its tributaries upstream of the coastal marine area boundary at R26 757 260, as generally shown in figure 3.11. (Species recorded are: Koaro, Giant Kokopu, and Banded Kokopu)

The Wainui Stream and its tributaries upstream of the coastal marine area boundary at R26 750 241, as generally shown in figure 3.12. (Species recorded are: Giant Kokopu)

The Wharemauku and its tributaries upstream of the coastal marine area boundary at R26 757 259, as generally shown in figure 3.13. (Species recorded are: Banded Kokopu)



The Mangaone Stream and its tributaries upstream of the coastal marine area boundary at R25/S25 858 443, as generally shown in figure 3.14. (Species recorded are: Shortjawed Kokopu, Koaro, and Banded Kokopu)

Lake Wairarapa, at and around R28 980 975 and the following tributaries in its catchment, as generally shown in figure 3.15:

- the Tauherenikau River;
- Cross Creek;
- Brockettes Stream;
- Burlings Stream;
- the Wairongomai River; and
- the Manganui River.

(Species recorded are: Koaro, Shortjawed Kokopu, Giant Kokopu, Brown Mudfish and Banded Kokopu)

Lake Pounui at and around R27 875 798 and its tributaries, as generally shown in figure 3.16. (Species recorded are: Brown Mudfish, Giant Kokopu and Banded Kokopu)

The Mukamukaiti Stream and its tributaries upstream of the coastal marine area boundary at R28 760 771, as generally shown in figure 3.17. (Species recorded are: Shortjawed Kokopu, Koaro and Banded Kokopu)

The Hurupi Stream and its tributaries upstream of the coastal marine area boundary at S28 952 716, as generally shown in figure 3.18. (Species recorded are: Shortjawed Kokopu)

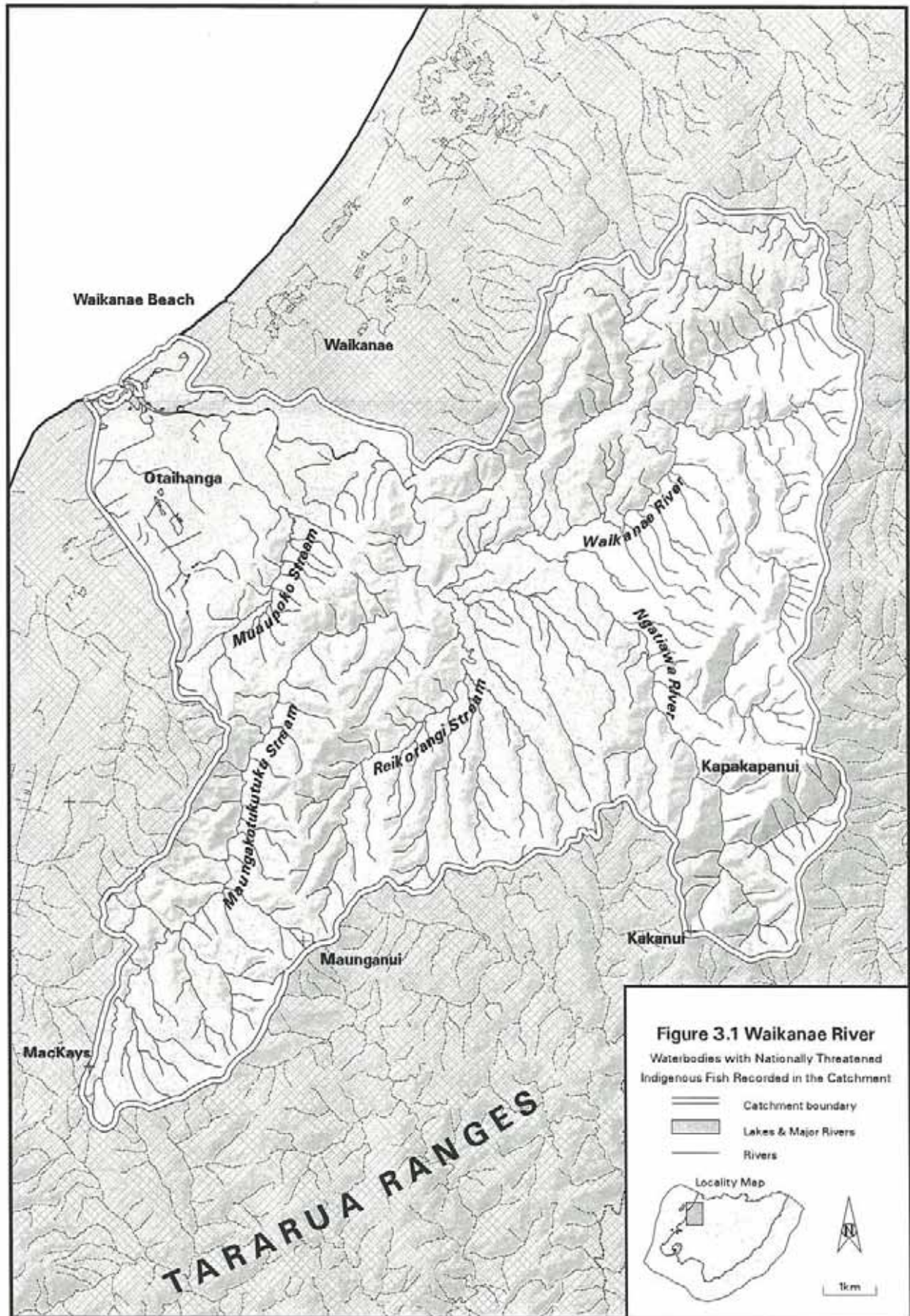
The Putangirua Stream and its tributaries upstream of the coastal marine area boundary at S28 955 706, as generally shown in figure 3.19. (Species recorded are: Koaro)

The Waingawa River and its tributaries upstream of the confluence with the Ruamahanga River at T26 342 188, as generally shown in figure 3.20. (Species recorded are: Brown Mudfish.)

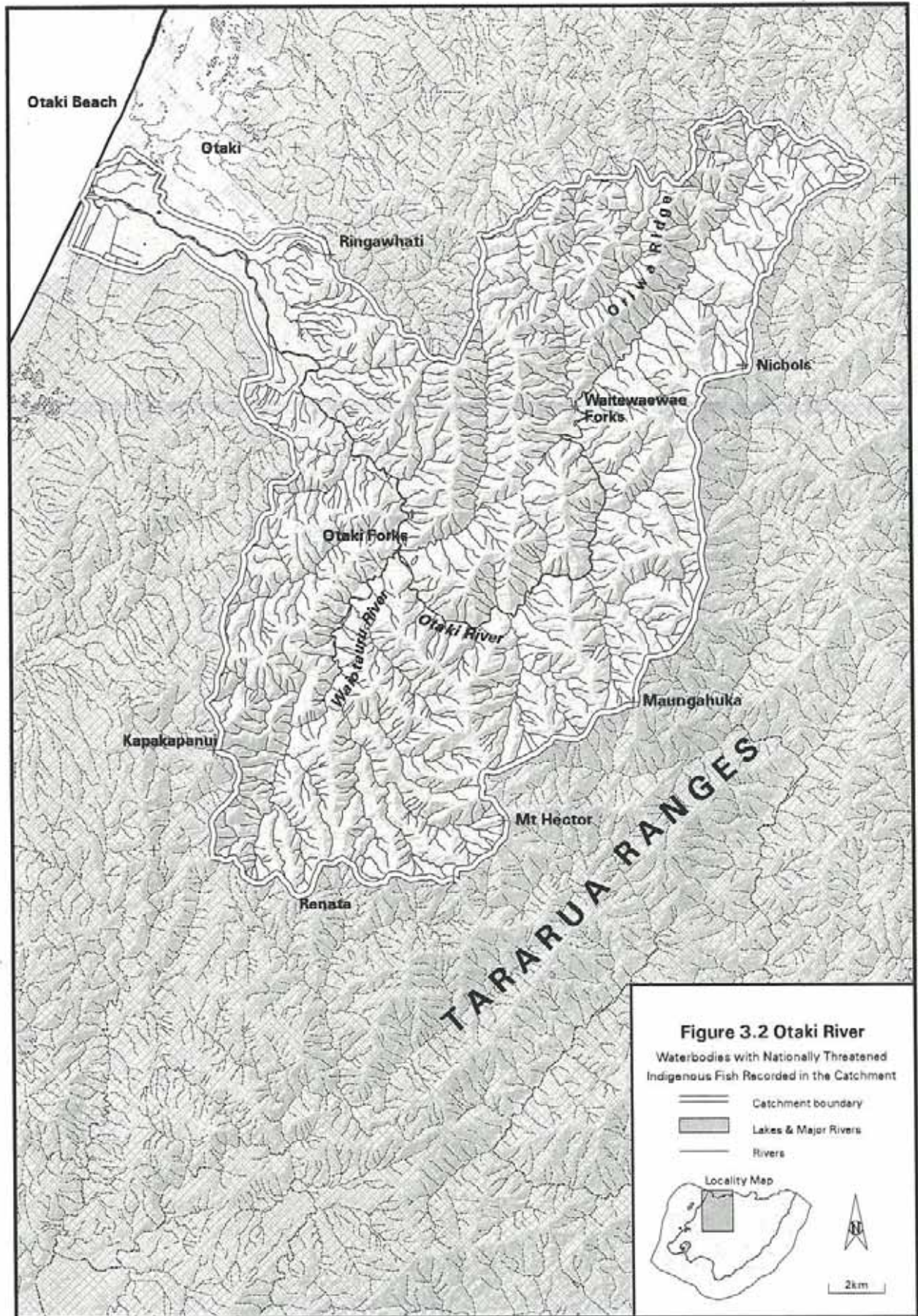
The Gollans Stream and its tributaries upstream of, and including, the Kohangatera Lagoon at R27 661 802 as generally shown in figure 3.21. (Species recorded are: Giant Kokopu and Banded Kokopu.)

Camerons Creek and its tributaries upstream of, and including, Lake Kohangapiripiri at R27 654 810 as generally shown in figure 3.21. (Species recorded are: Giant Kokopu.)

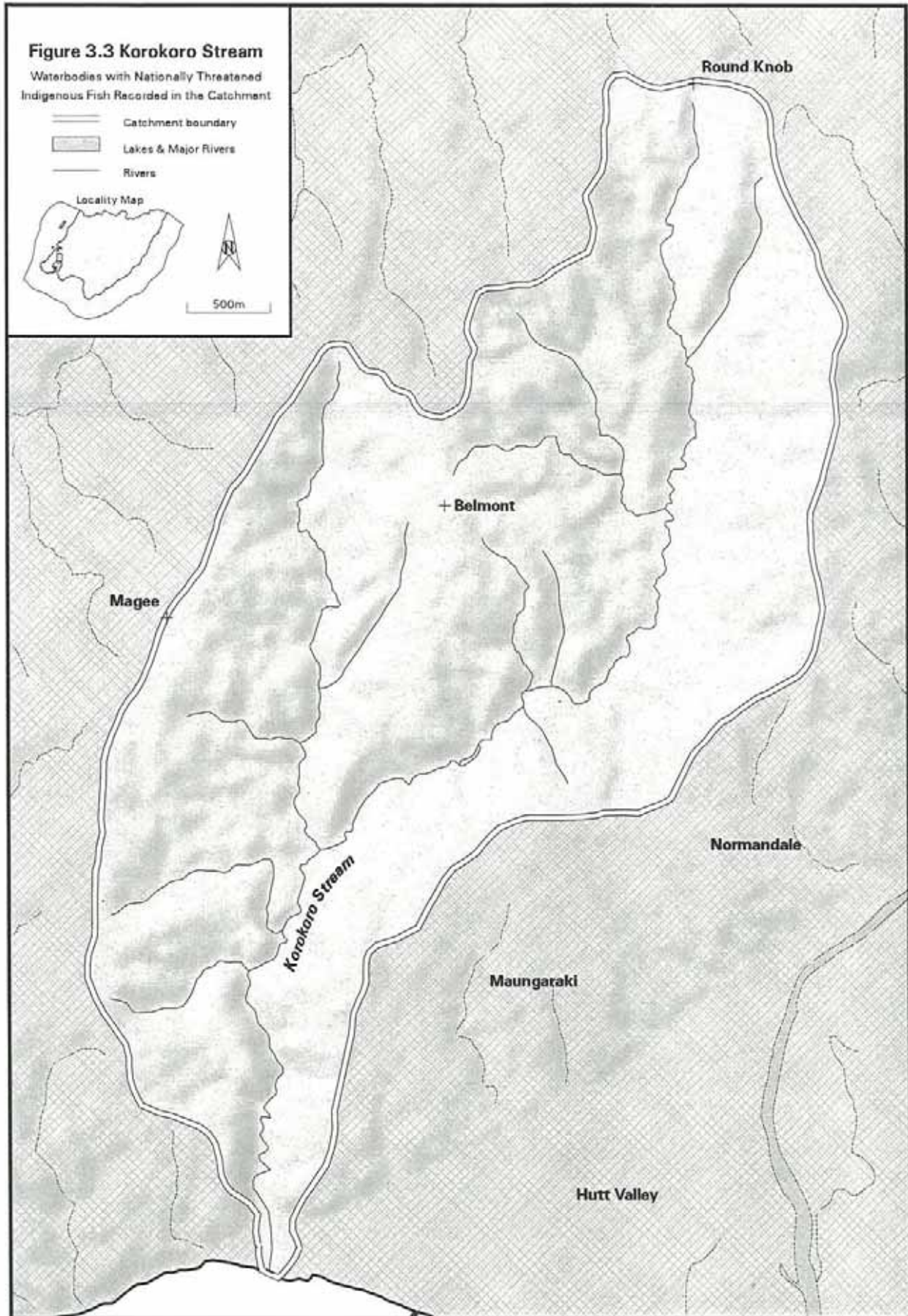
Part B: Nationally Threatened Aquatic or Semi-Aquatic Indigenous Plant Species**Dicotyledons***Coprosma violacea**Coprosma wallii**Crassula hunua**Crassula peduncularis**Crassula ruamahanga**Ileostylus micranthus**Korthalsella salicornioides**Leptinella dioica* spp *monoica**Mazus novaezeelandiae**Muehlenbecia astonii**Myosurus minimus**Muriophyllum robustum**Olearia hectori**Pittosporum obcordatum**Teucrium parvifolia**Urtica linearifolia**Utricularia australis***Ferns and fern allies***Anogramma leptophylla**Ophioglossum petiolatum***Mosses, liverworts and lichens***Fissidens berteroi***Monocotyledons***Amphibromus fluitans**Calochilus paludosus**Isolepis basilaris**Juncus holoschoenus**Pterostylis micromega*



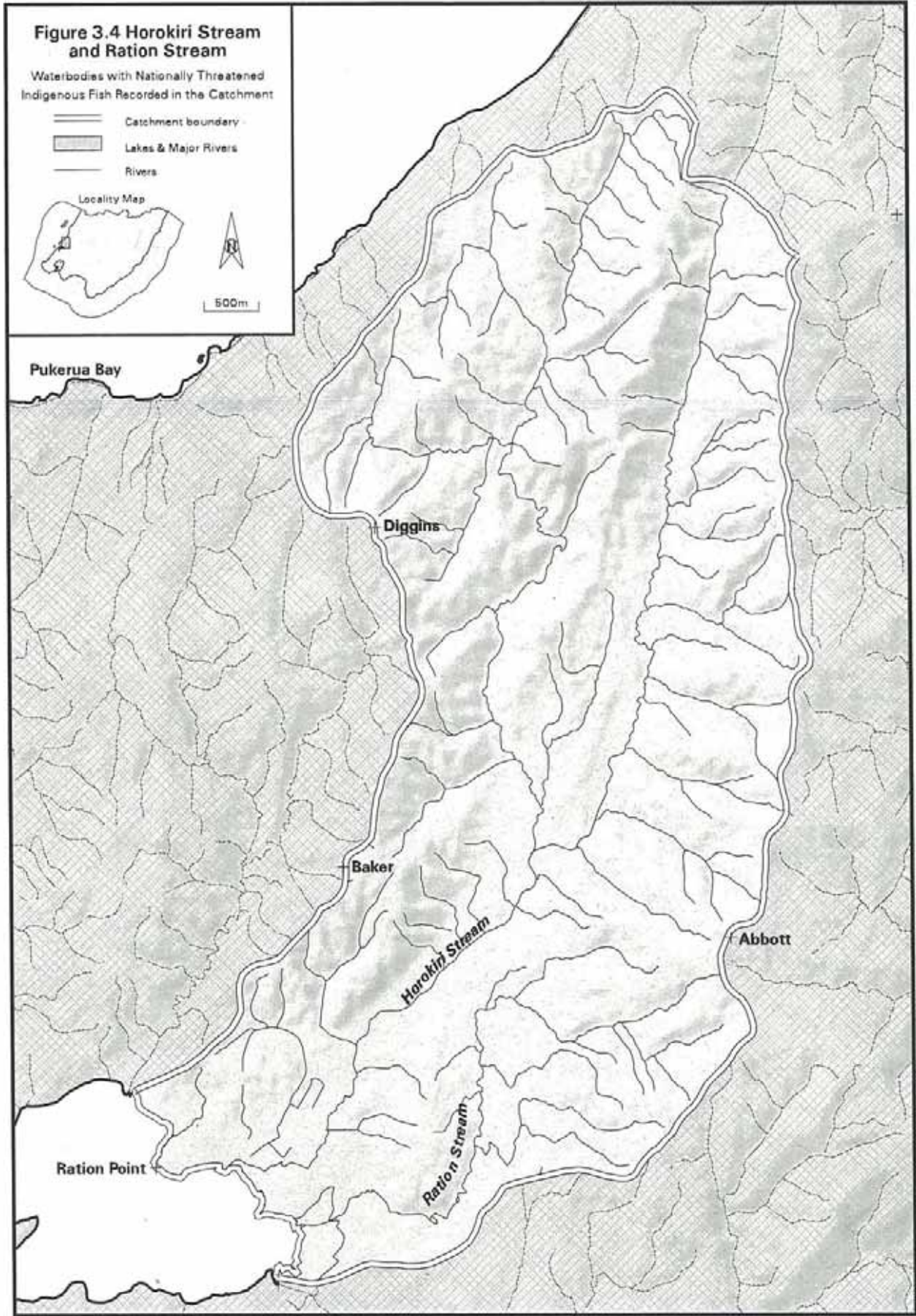
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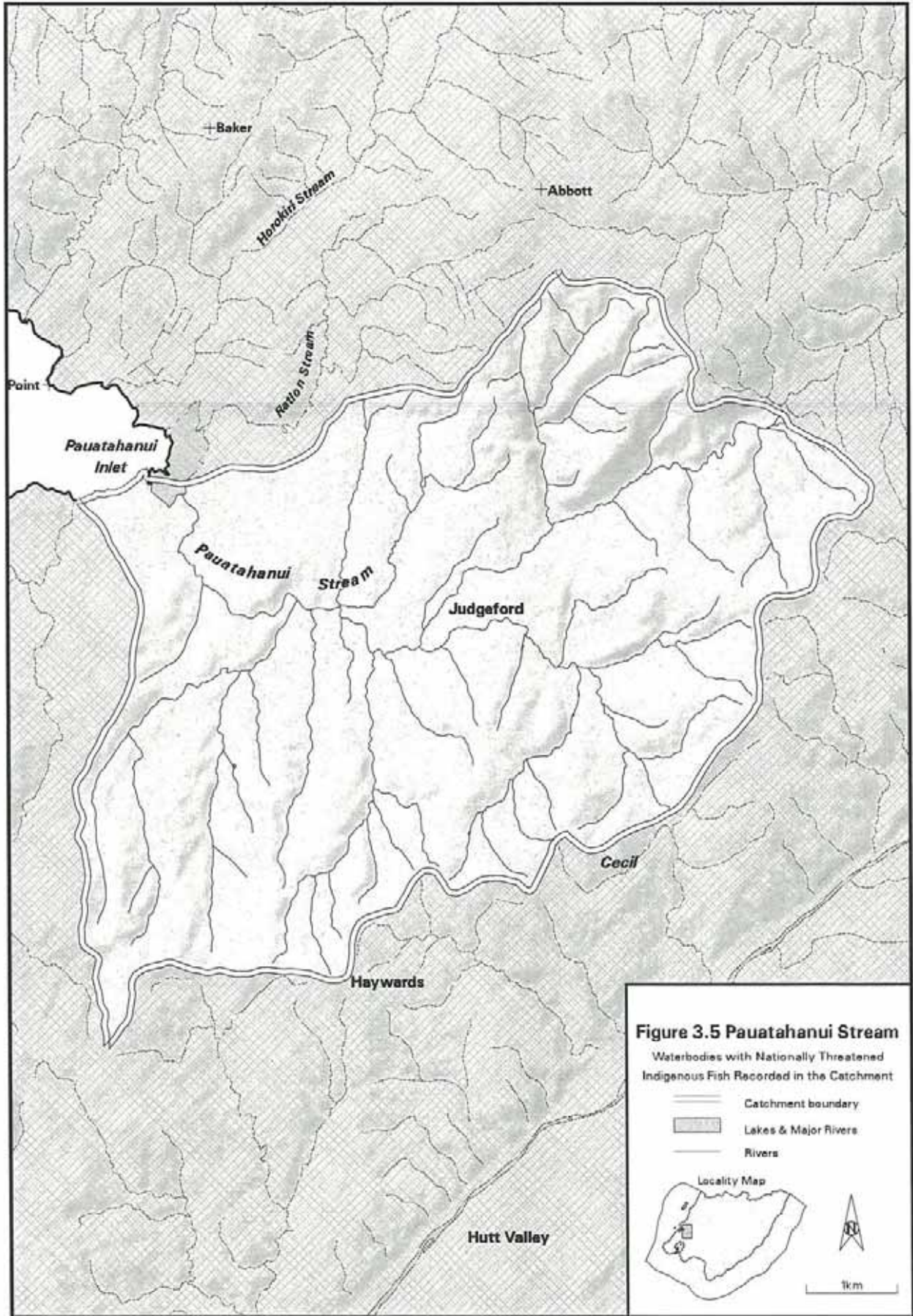
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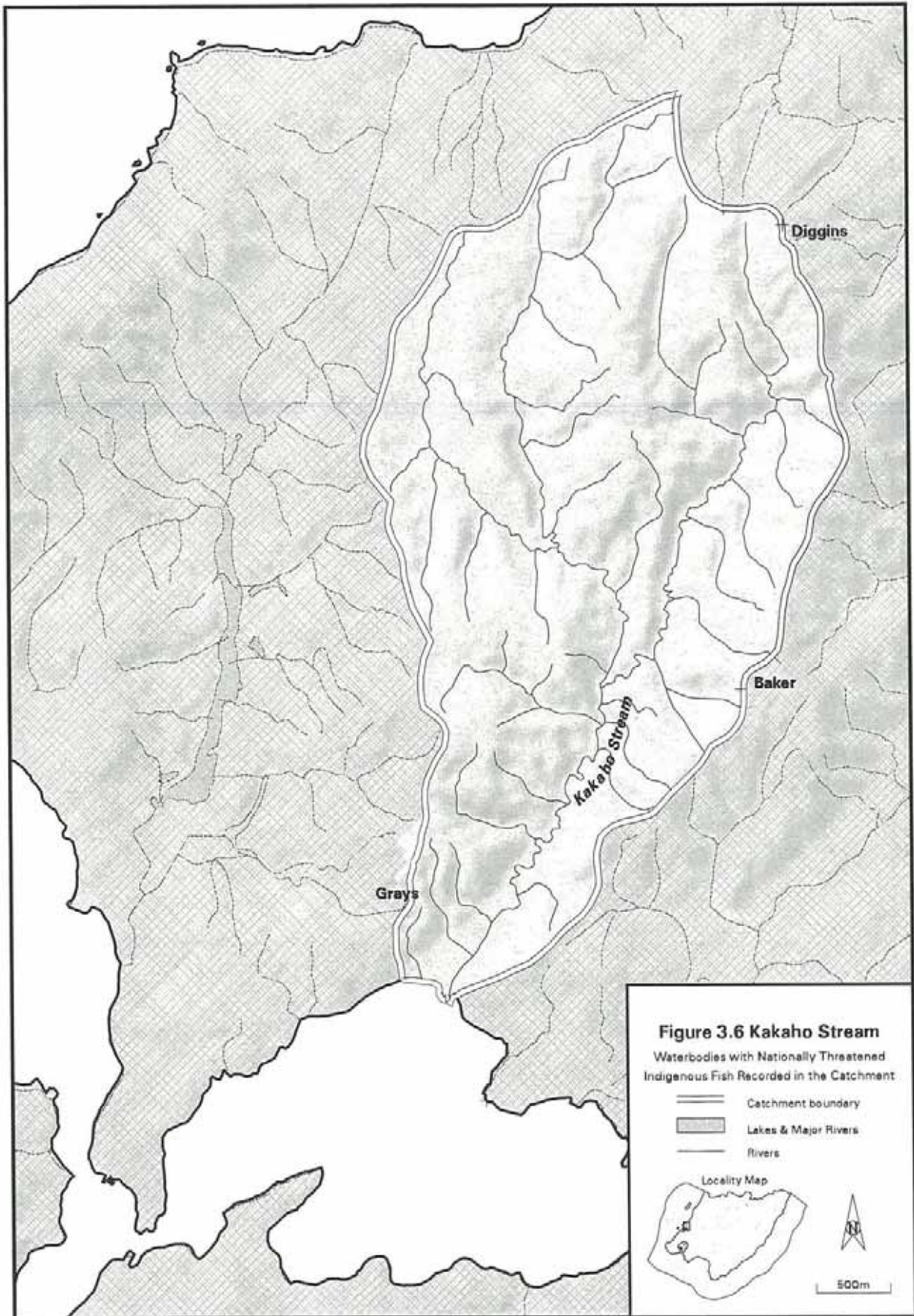
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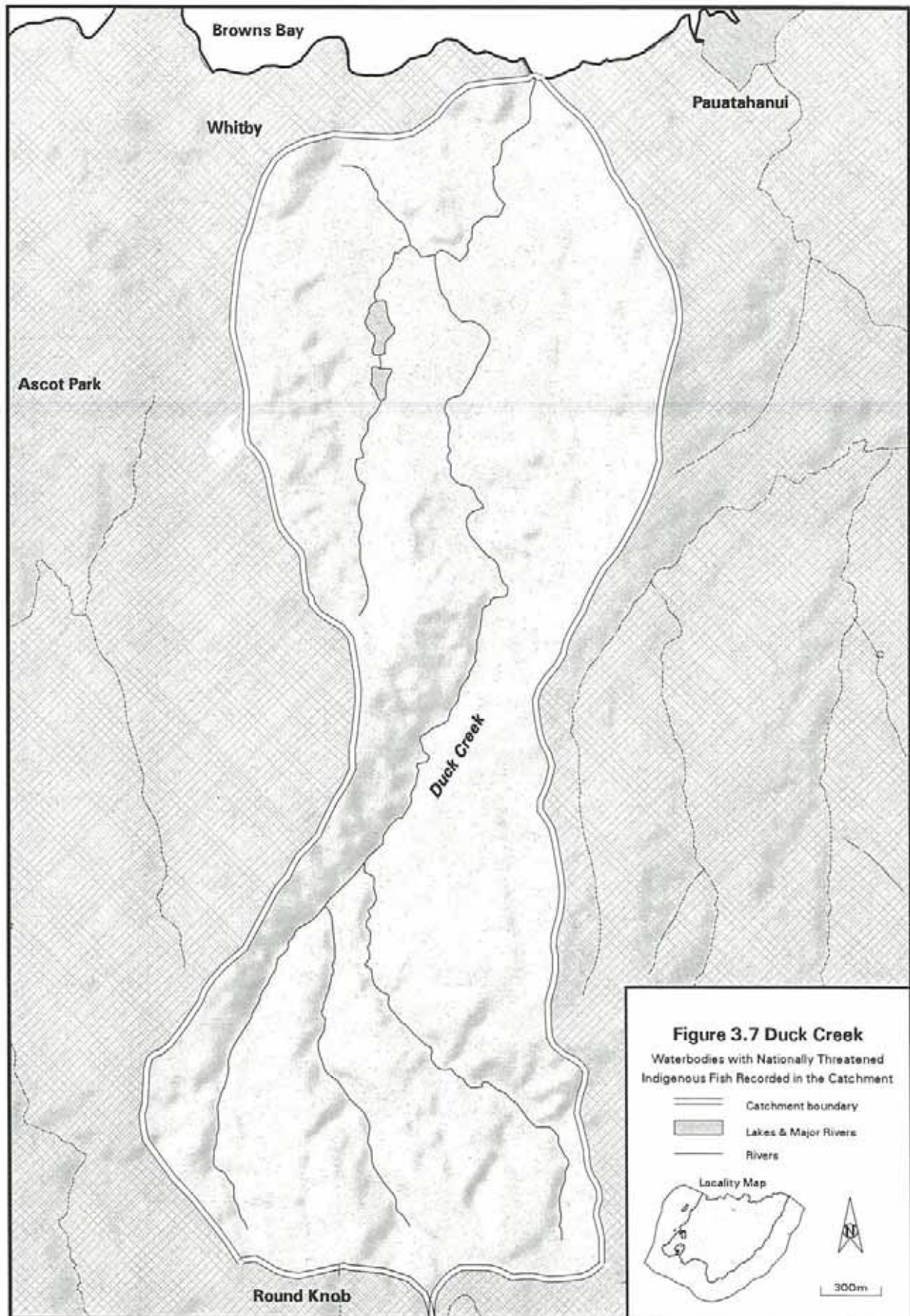
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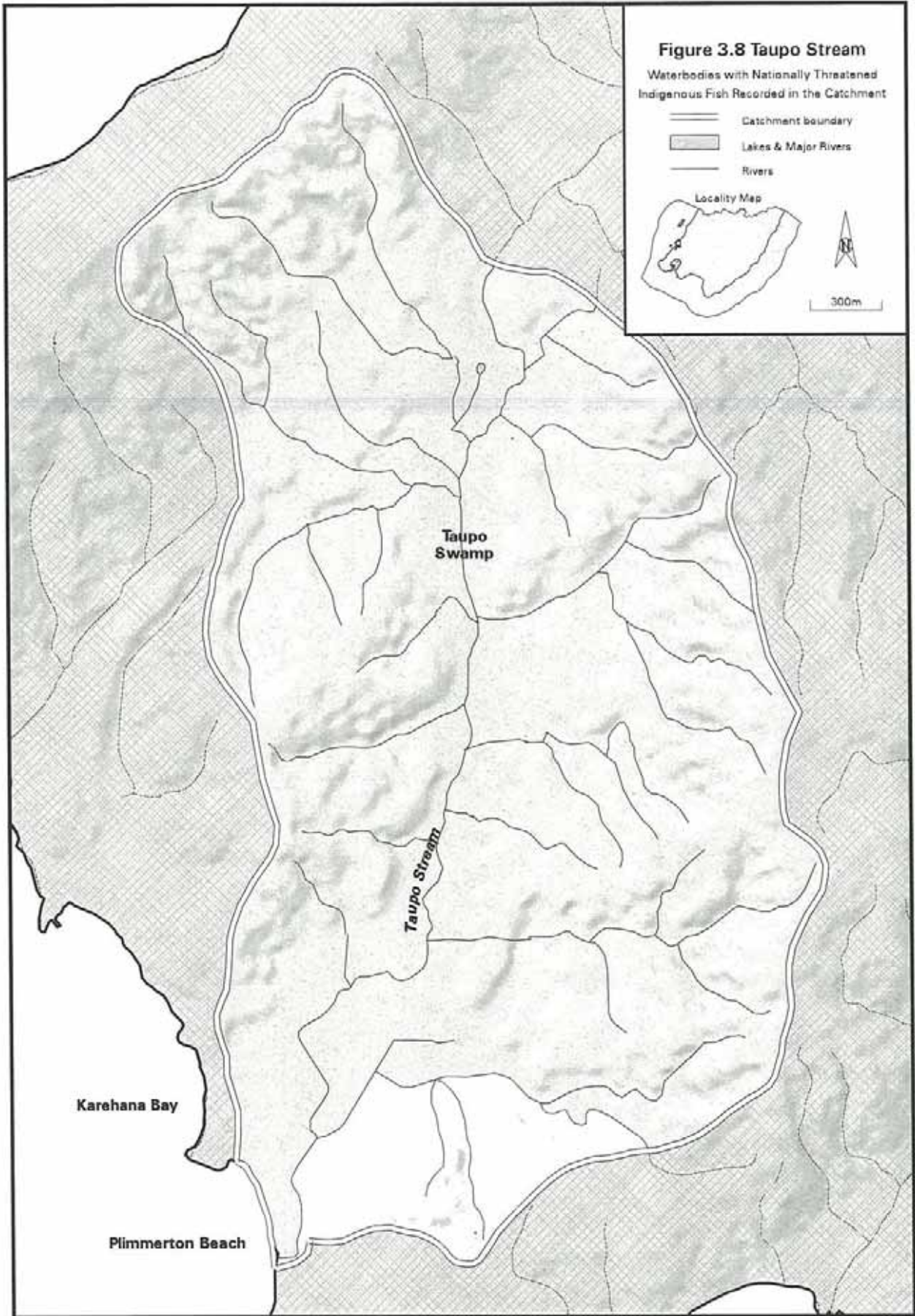
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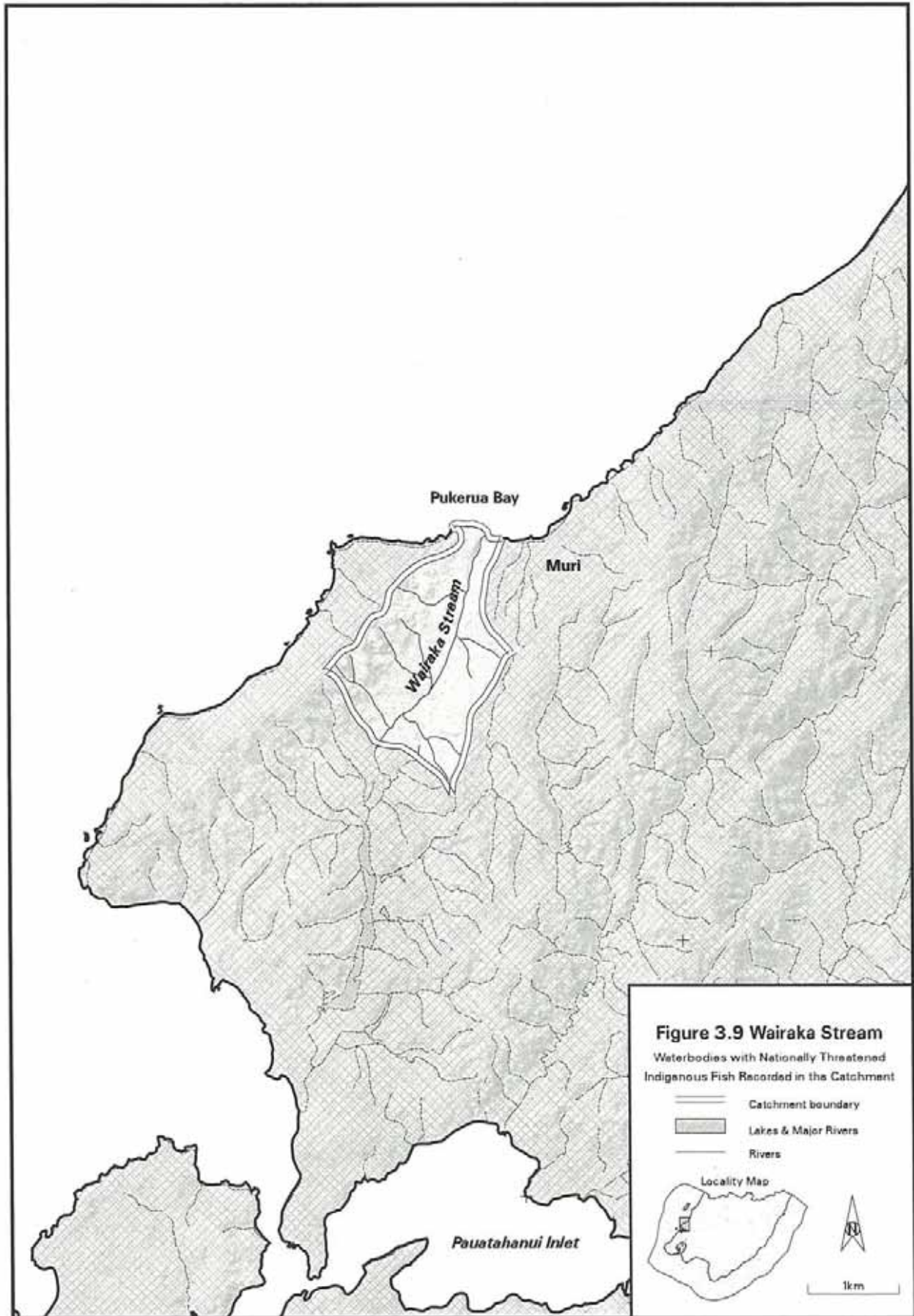
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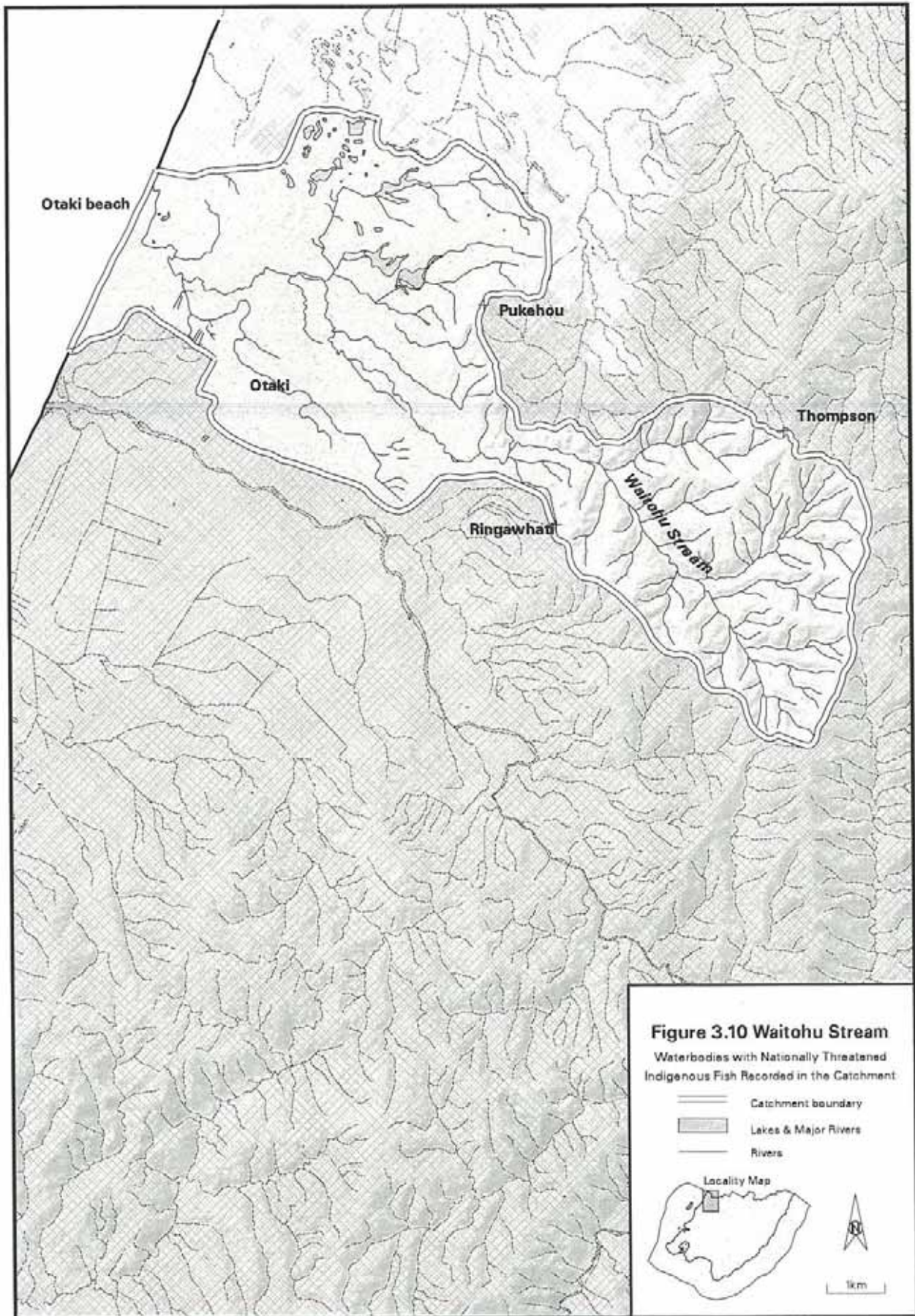
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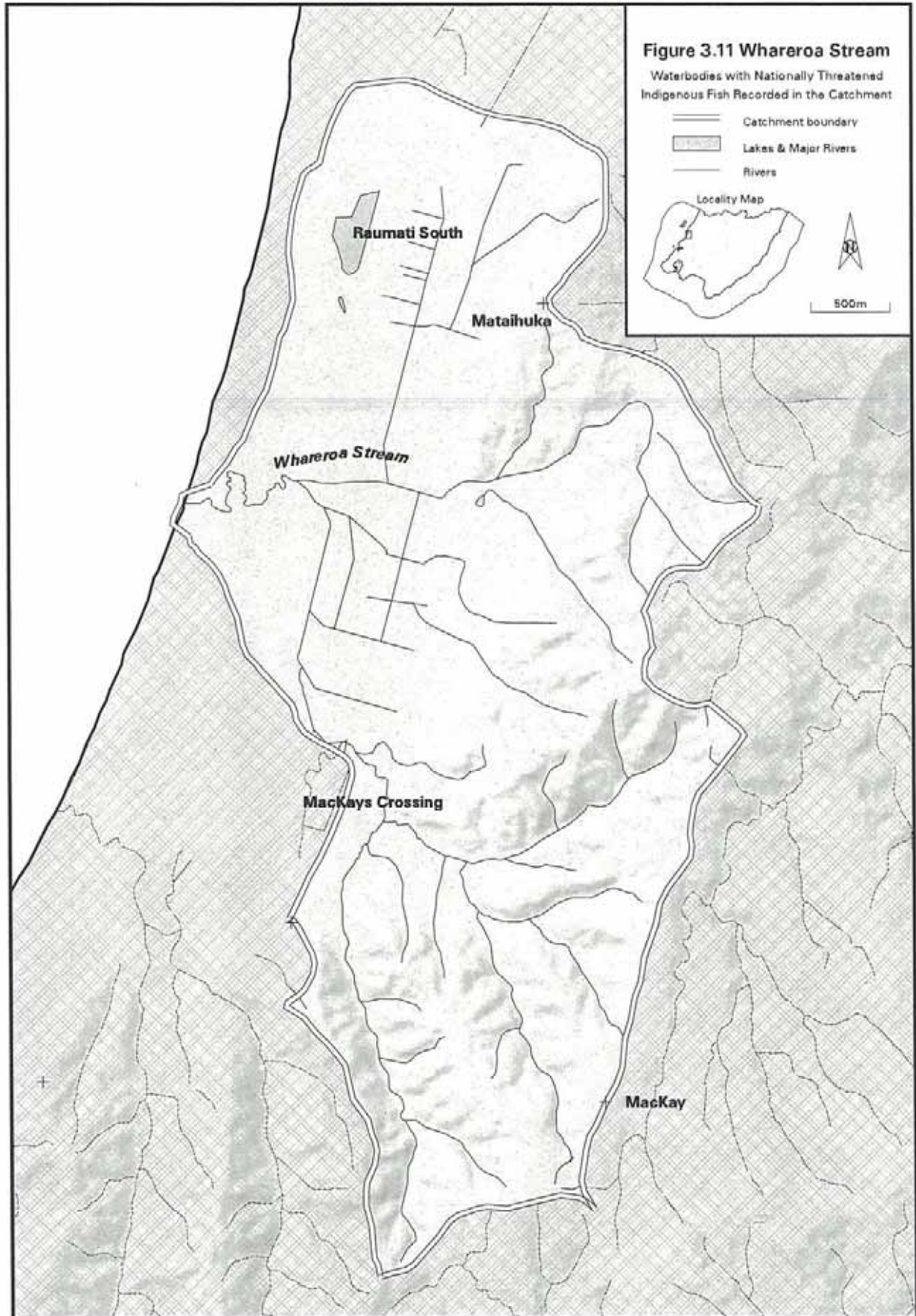
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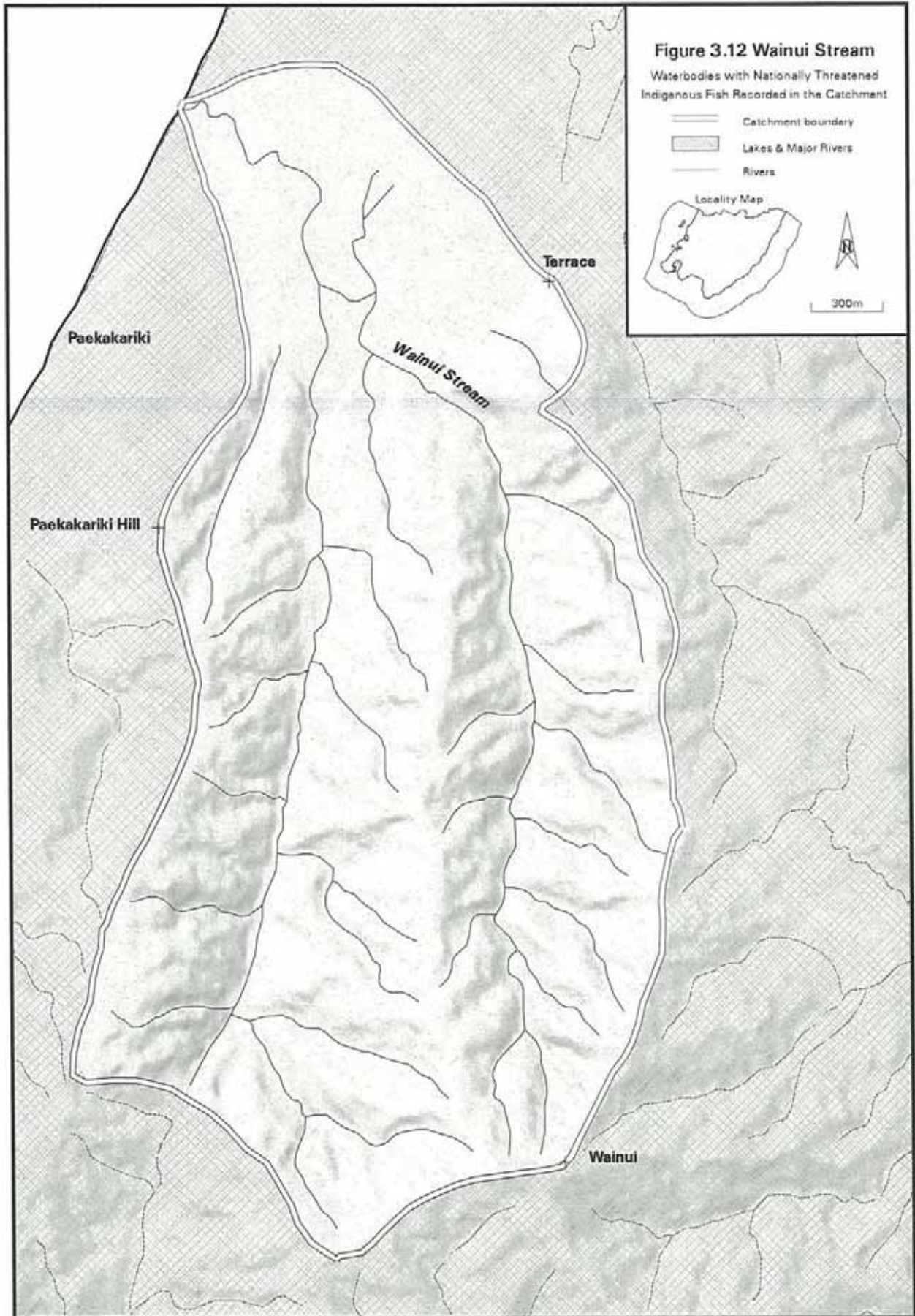
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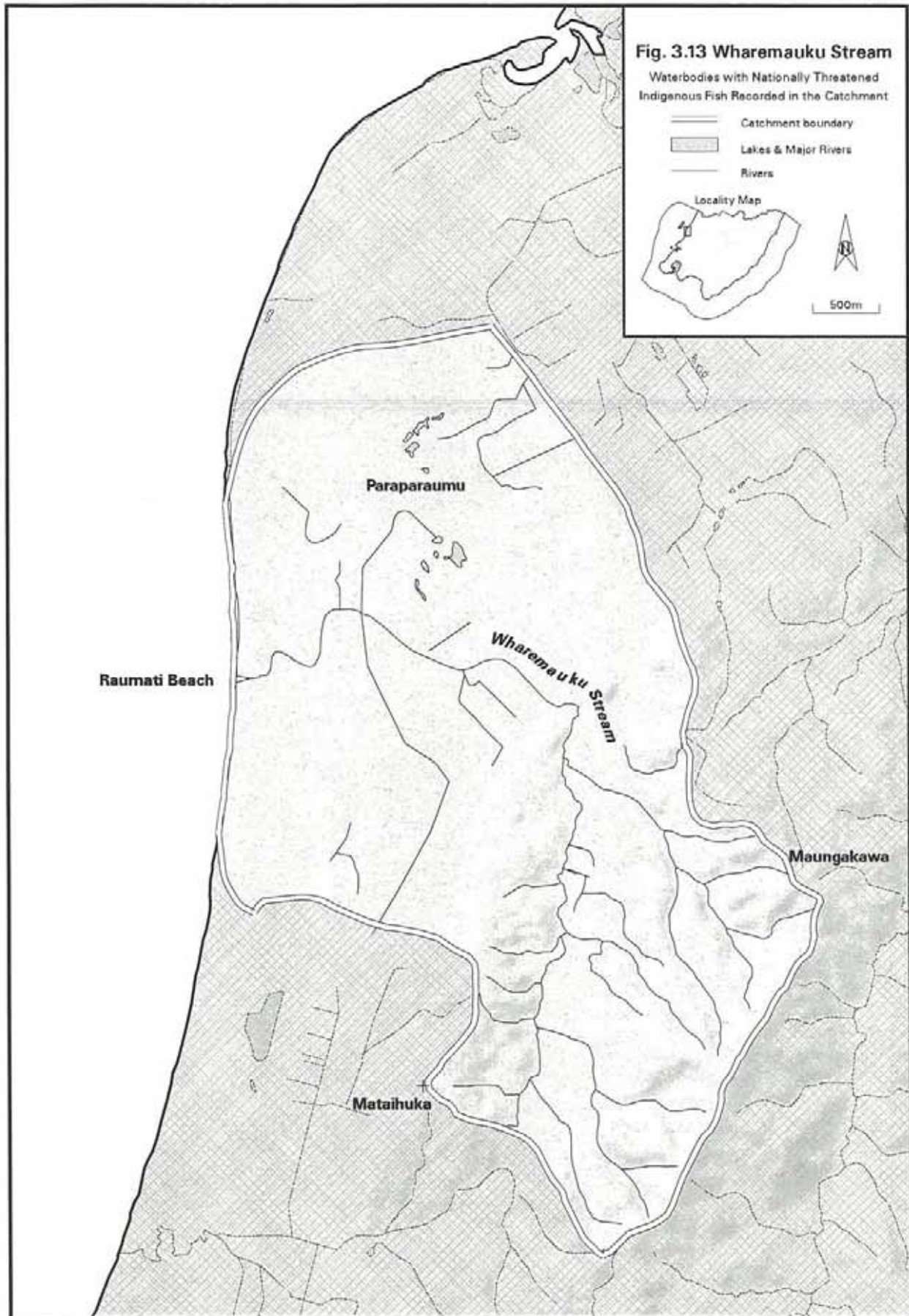
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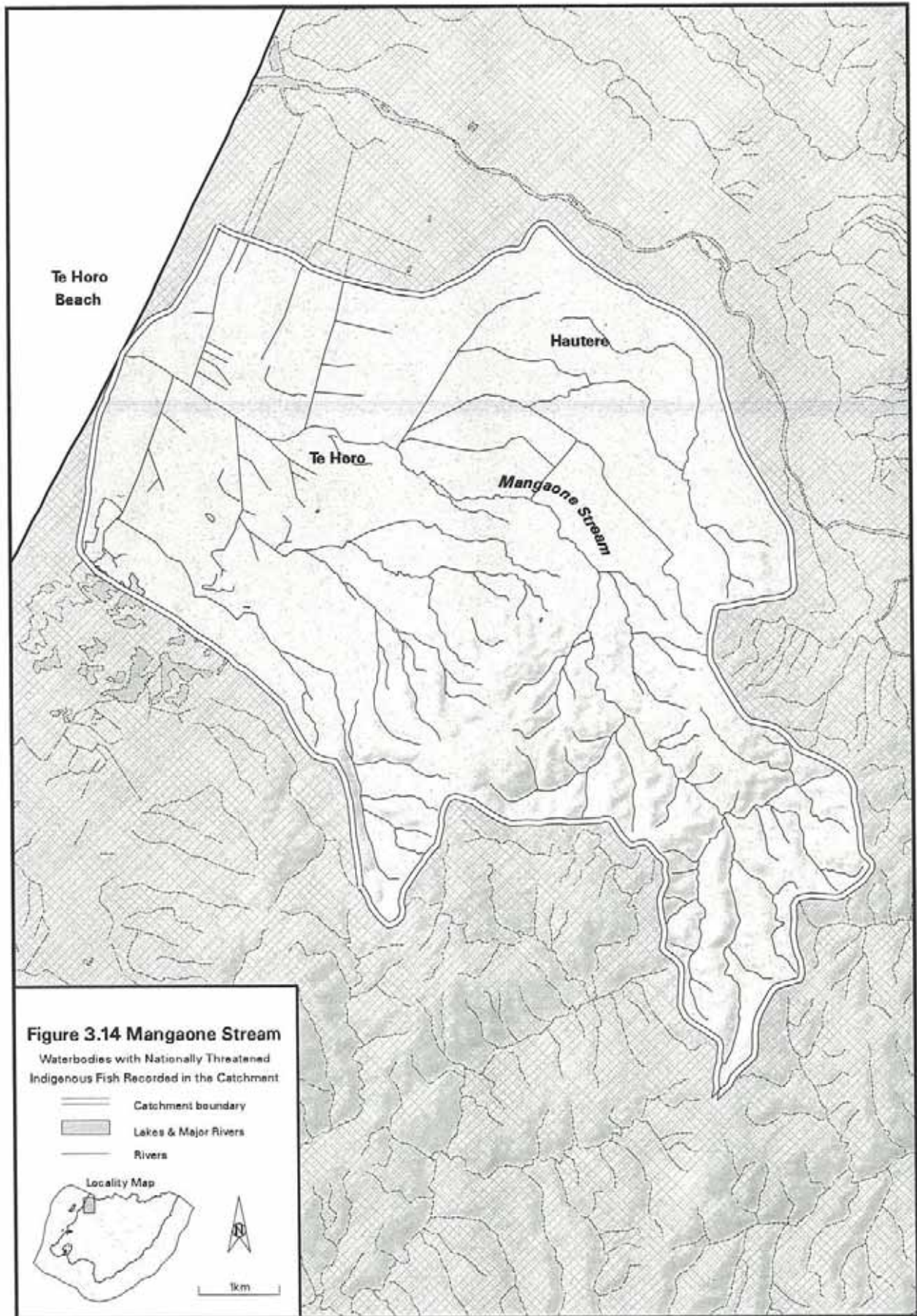
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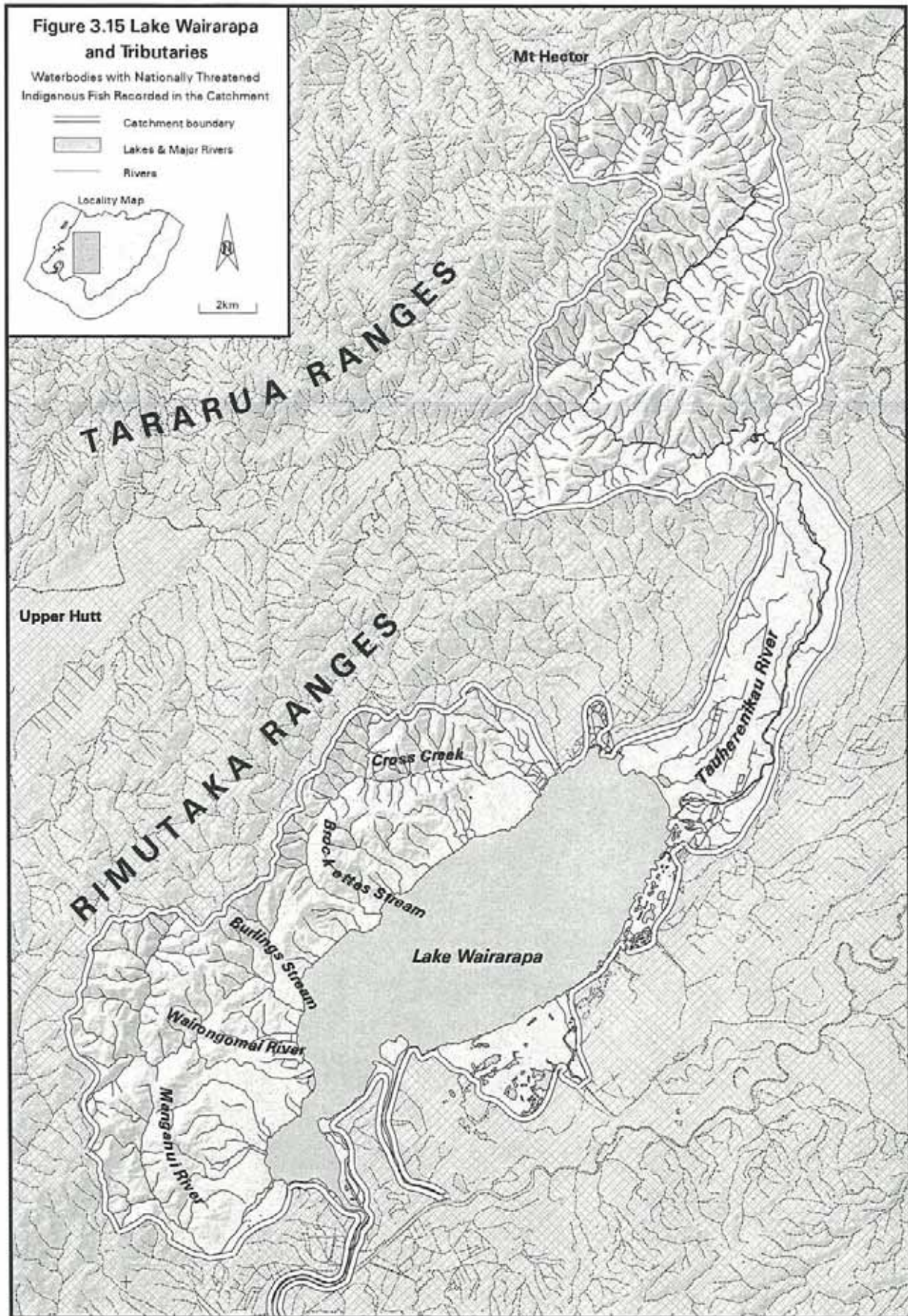
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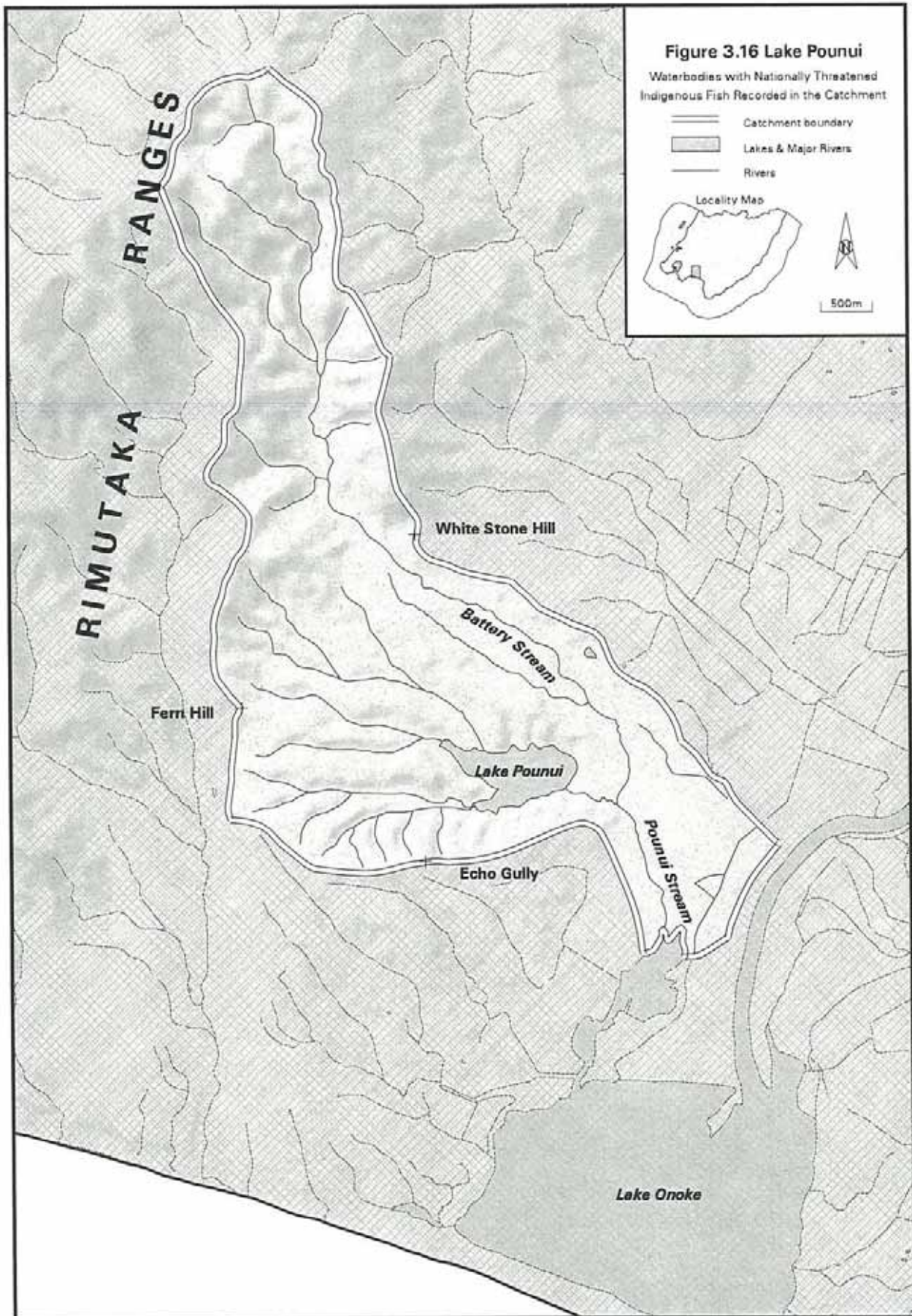
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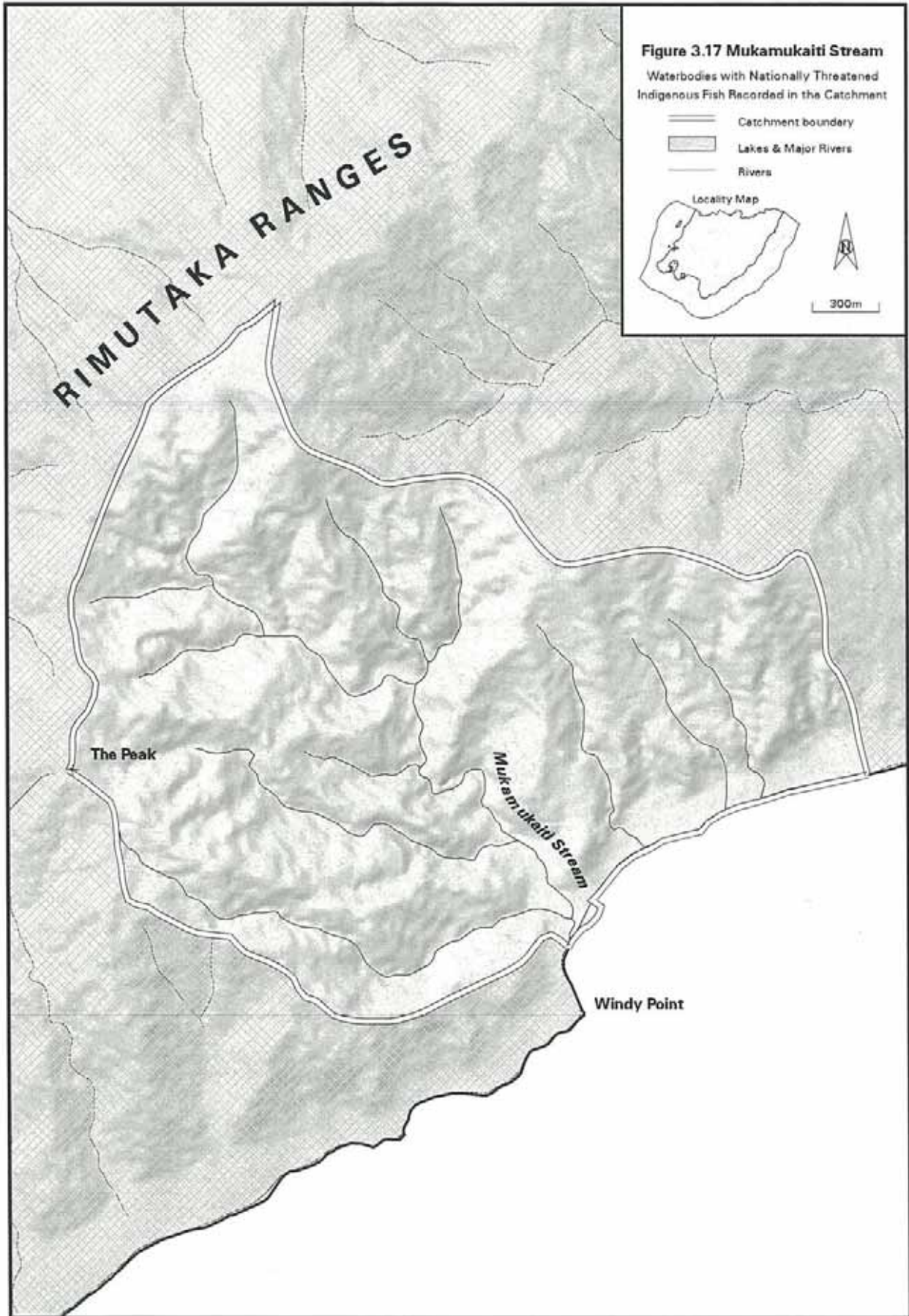
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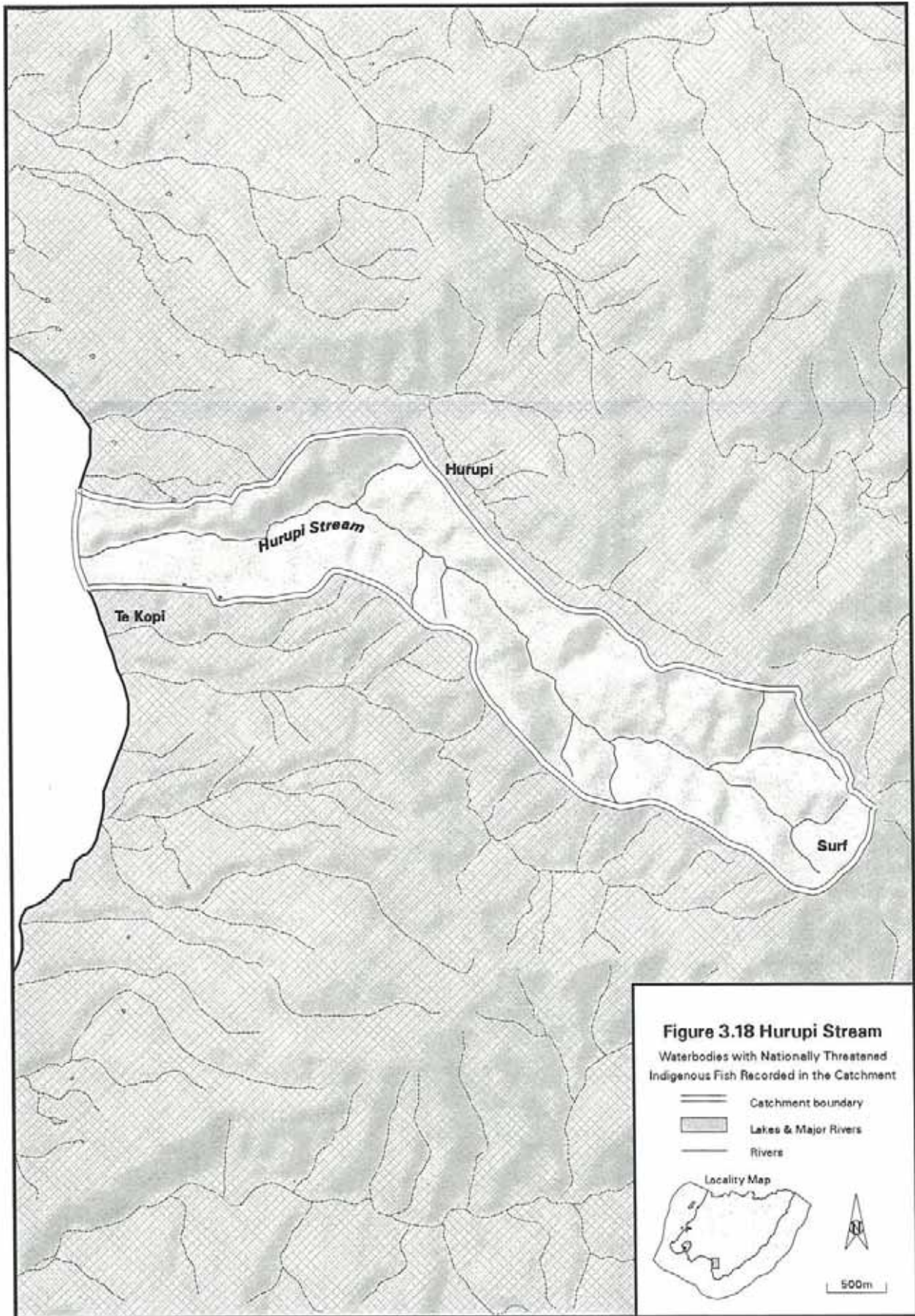
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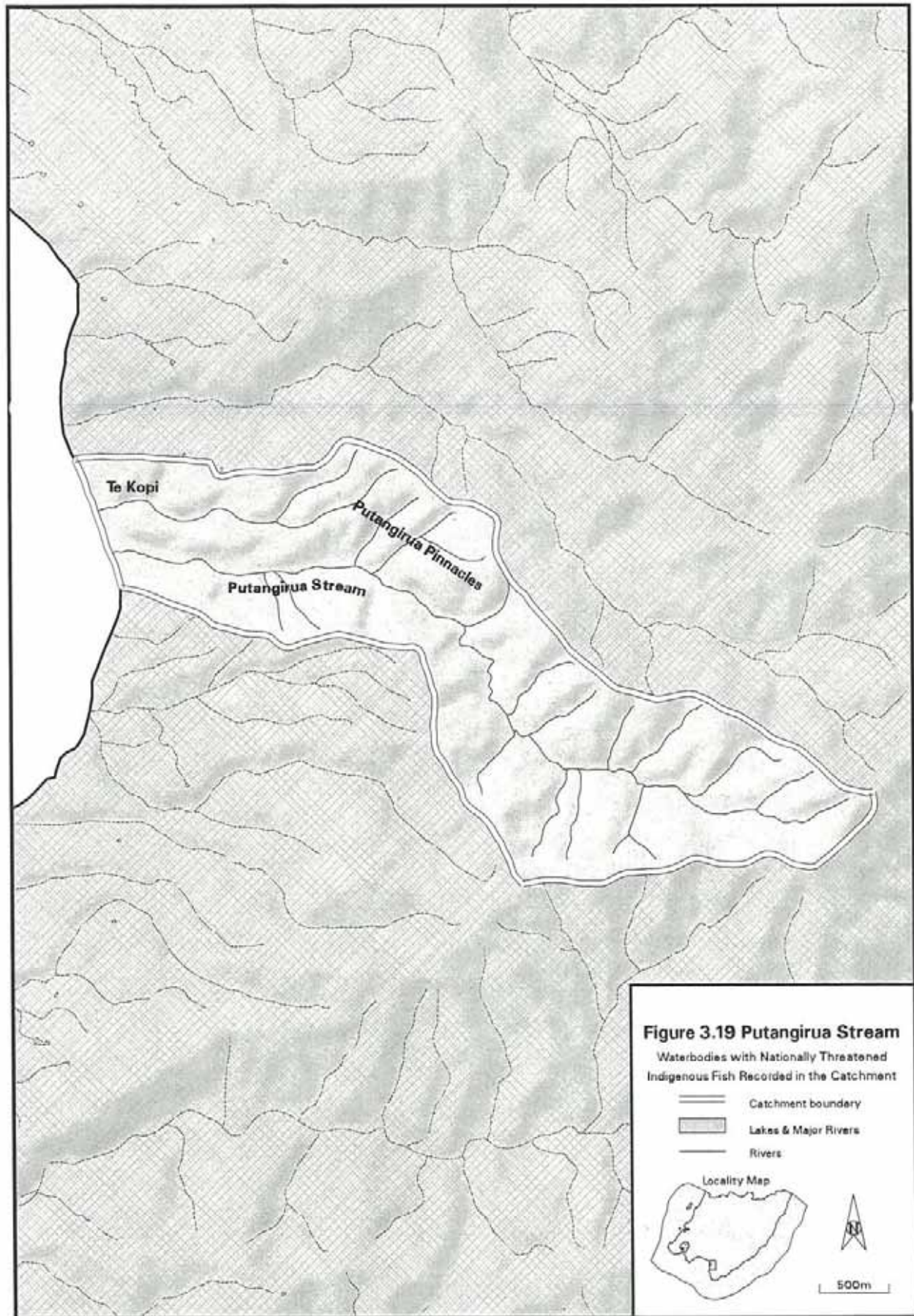
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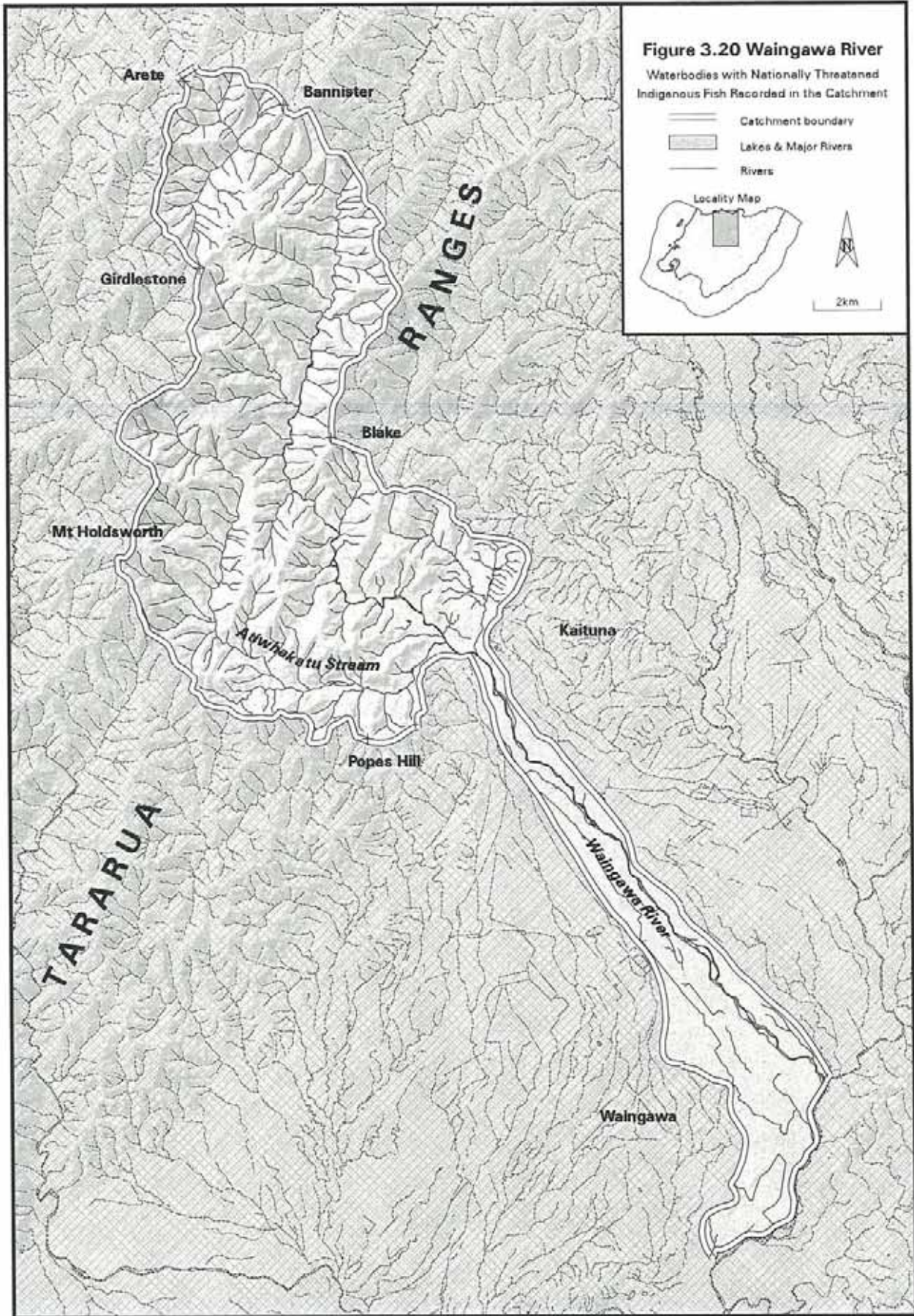
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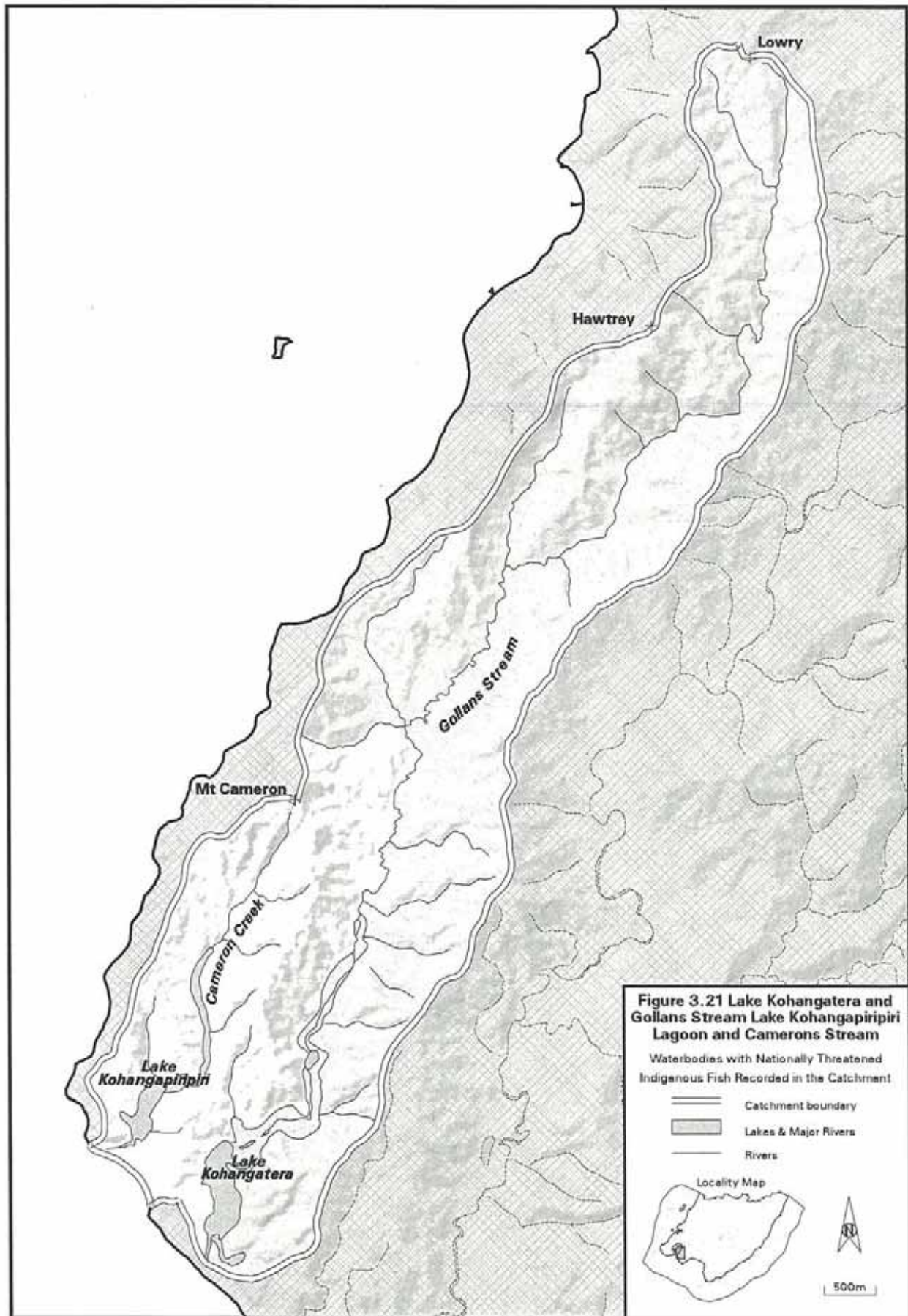
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Appendix 4

Water Bodies with Important Trout Habitat (including spawning areas) - Water Quality to be Managed for Fishery and Fish Spawning Purposes

Policy 4.2.14 provides direction for the management of habitat identified in this Appendix. **Policy 5.2.3** provides direction for the management of water quality in the water bodies listed in this Appendix.

Grid references are given for NZMS 260 maps. The locations of rivers are shown on the attached map (Figure 4).

The primary source of information for the water bodies listed in Appendix 4 is based on records provided by the Wellington Fish and Game Council which are held on File X/10/7/2 at the Wellington Regional Council.

1. The Otaki River from S26 050 406 to S25 910 462.
2. The Waikanae River from R26 899 353 to R26 807 347.
3. The Maungakotukutuku Stream from R26 794 219 to the confluence with the Waikanae River at R26 845 316.
4. The Wainuiomata River between Wainuiomata Lower Dam at R27 768 912 and the Golf Course at R27 721 873.
5. The Catchpool Stream upstream of the Coast Road bridge at R27 697 819.
6. The Hutt River from R26 899 118 to R27 700 985.
7. The Akatarawa River from R26 877 229 to its confluence with the Hutt River at R26 862 108.
8. The Akatarawa West River from R26 853 177 to its confluence with the Akatarawa River at R26 873 138.
9. Frances Stream from S26 901 207 to its confluence with the Akatarawa River at R26 882 183.
10. Deadwood Stream from R26 877 213 to its confluence with the Akatarawa River at R26 886 200.
11. The Mangaroa River from the Golf Course at R27 815 992 to its confluence with the Hutt River at R26 886 104.
12. Cooleys Stream upstream of its confluence with the Mangaroa River at R27 880051.
13. Collets Stream from R27 883 073 to its confluence with the Mangaroa River at R27 881 083.

14. Narrow Neck Stream from R27 848 083 to its confluence with the Mangaroa River at R27 842 018.
15. The Pakuratahi River from R27 880 975 downstream to the Rimutaka incline at R26 950 119
16. Farm Creek from S26 955 133 to its confluence with the Pakuratahi River at S26 946 133.
17. The Rimutaka Stream upstream of its confluence with the Pakuratahi River at S26 955 124.
18. The Whakatiki River from the gorge at R 820 086 to its confluence with the Hutt River at R27 822 083.
19. The middle and upper Whakatiki River from R27 819 152 downstream to the gorge at R27 811 099.
20. The Wainui Stream from R26 781 143 to its confluence with the Whakatiki River at R26 807 114.
21. Flightys Creek from R26 780 128 to its confluence with the Whakatiki River at R26 791 124.
22. Moonshine Stream from R26 795 088 to its confluence with the Hutt River at R26 809 053.
23. Birchville Stream from R27 846 119 to its confluence with the Hutt River at R27 858 104.
24. The Waiohine River from S27 105 335 to 205 085.
25. The Mangatarere River from S27 158 240 to its confluence with the Waiohine River at S26 199 131.
26. Beef Creek above its confluence with Waiohine at S26 199 135.
27. The Waingawa River above its confluence with the Ruamahanga River at T26 342 188.
28. The Atiwhakatu River above its confluence with the Waingawa River at S26 233 316.
29. The Kaipatangata Stream from the water supply dam downstream at S26 150 211 to its confluence with the Mangatarere River at S26 196 154.
30. The Waipoua River above its confluence with the Ruamahanga River at T26 351 241.
31. The Wakamoekau Creek above its confluence with the Waipoua River at T26 306 304.
32. The Te Mara Stream upstream of its confluence with the Waipoua River at S25 300 411.
33. The Mikimiki Stream upstream of its confluence with the Waipoua River at T26 307 370.

34. The Kiriwhakapapa Stream above its confluence with the Waipoua River at T26 305 395.
35. The Kopauranga River from the Mauriceville settlement at T26 364 305 to its confluence with the Ruamahanga River at T26 368 312.
36. The Tauweru River from the Tauweru settlement at T26 456 231 to its confluence with the Ruamahanga River at T26 313 121.
37. The Ruakokoputuna River upstream of its confluence with the Huangarua River at S27 173 871.
38. The Huangarua River downstream of its confluence with the Ruakokoputuna River at S27 173 871 to its confluence with the Ruamahanga River at S27 164 980.
39. The Tupurupuru Stream downstream of its confluence with the Waingongoro Stream at T26 355 123 to its confluence with the Tauweru River at T26 342 131.
40. The Wairongomai Stream upstream of its confluence with Lake Wairarapa at S27 924 920.
41. Cross Creek upstream of its confluence with Lake Wairarapa at S27 999 013.
42. Otakura Stream upstream of its confluence with Lake Wairarapa at S27 042 993.
43. The Tauherenikau River above its confluence with Lake Wairarapa at S27 043 005.

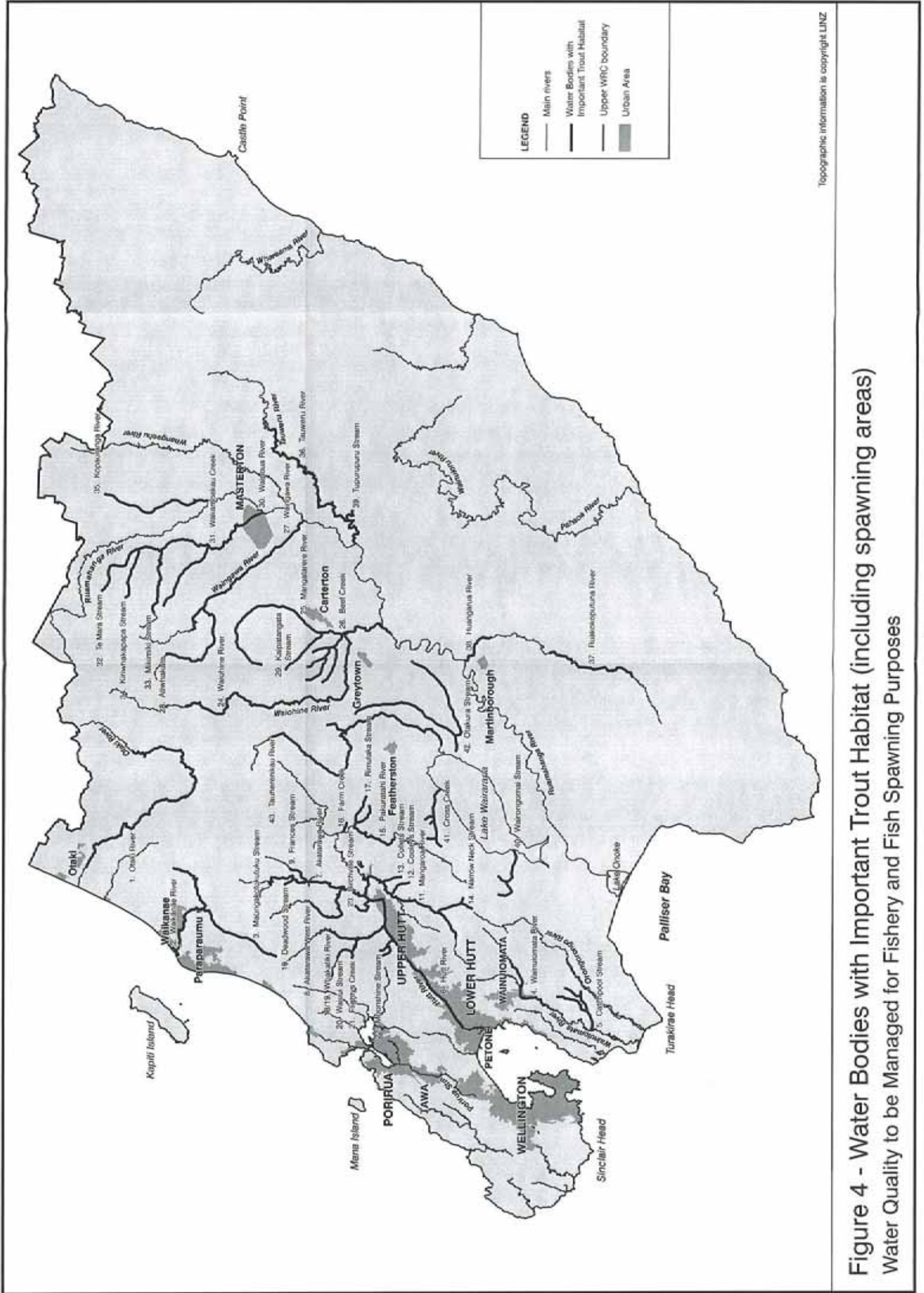


Figure 4 - Water Bodies with Important Trout Habitat (including spawning areas) Water Quality to be Managed for Fishery and Fish Spawning Purposes

Appendix 5

Water Bodies with Regionally Important Amenity and Recreational Values - Water Quality to be Managed for Contact Recreation Purposes

The primary source of information for the water bodies listed in Appendix 5 is an unpublished WRC report which is held on File X/10/7/2 at the Wellington Regional Council.

The water bodies listed in this Appendix are to be managed in accordance with Policies 4.2.15 and 5.2.4. **Policy 4.2.15** provides general guidance on the management of the waterbodies. **Policy 5.2.4** provides specific guidance for water quality, which is “To manage water quality for contact recreation purposes in those water bodies identified in Appendix 5 (subject to Policy 5.2.10), excluding Lake Waitawa (managed according to Policy 5.2.6) and Lake Wairarapa (managed according to Policies 5.2.2 and 5.2.6)”.

See also Policy 4.2.15

The locations of rivers and lakes are shown on the attached map (Figure 5).

Grid references are given for NZMS 260 maps.

- Lake Waitawa (Forest Lakes) at and around S25 935 513 for kayaking, sailing and windsurfing. (Policy 5.2.4 excludes water quality from management for contact recreation purposes)
- The Otaki River:
 - above Otaki Forks at S26 984 352 for rafting, kayaking, and tubing;
 - Otaki Gorge from S26 984 352 to S25 952 412 for rafting, kayaking, tubing, and angling;
 - the Otaki Gorge at S25 952 412 to the Otaki River mouth at R25 875 476 for kayaking and angling.
- The Waikanae River: State Highway 1 at R26 838 340 to the river mouth at R26 792 352 for swimming and angling.
- The Hutt River:
- Kaitoke at S26 943 144 to Te Marua at R26 900 118 for rafting, kayaking, canoeing, tubing, swimming and angling;



- Te Marua at R26 900 118 to Silverstream at R27 777 049 for canoeing, kayaking, swimming and angling;
- Silverstream at R27 777 049 to Melling at R27 099 985 for kayaking, power boating, swimming and angling.
- Melling at R27 699 985 to the river mouth at R27 692 947 for angling.
- The Pakuratahi River between S26 943 144 and S26 948 129 for swimming and angling.
- The Akatarawa River between R26 889 201 and R26 863 109 for kayaking and swimming.
- The Wainuiomata River from the Coast Road bridge at R27 737 907 to the river mouth at R28 669 755 for angling.
- The Waingawa River:
 - above the road end at S26 204 329 for rafting and tubing;
 - below the road end at S26 204 329 to the Ruamahanga confluence at T26 342 187 for kayaking, rafting and angling.
- The Waiohine River:
 - Waiohine Gorge between S26 109 206 and S26 119 178 for rafting, tubing, kayaking and angling;
 - Waiohine Gorge at S26 119 178 to the Ruamahanga confluence at S27 205 089 for rafting, kayaking, canoeing and angling;
- Lake Wairarapa and associated wetlands at and around S27 990 970 for duck shooting and power boating. (Policy 5.2.4 excludes water quality from management for contact recreation purposes)
- The Ruamahanga River:
 - Upper Ruamahanga River to State Highway 2 at T25 301 461 for tubing;
 - State Highway 2 at T25 301 461 to the confluence with the Waingawa River at T26 342 187 for angling;
 - from the confluence with the Waingawa River at T26 342 187 to Tuhitarata at S27 999 886 for canoeing, kayaking and angling;
 - Tuhitarata at S27 999 886 to Lake Onoke at R28 890 790 for canoeing, kayaking, power boating and angling;
- The Kopuaranga River above T26 369 312 for angling.
- The Waipoua River above T26 352 241 for angling.

Appendix 6

Water Bodies with Water Quality to be Managed for Water Supply Purposes

Refer to Policy 5.2.5

The locations of catchments with rivers used for water supply purposes are shown in the maps attached to this Appendix as figures. The purpose of the following maps is to assist users of the Plan by **generally** locating the catchments within which water bodies occur. The maps are not intended for land use purposes. They are for the management of water bodies within particular catchments. The boundaries of the maps are indicative only and are not legally binding.

Grid references are given for NZMS 260 maps.

The Wainui Stream (Smiths Creek) upstream of the Kapiti Coast District Council intake at R26 761 227, as generally shown in figure 6.1.

The Waikanae River upstream of the Waikanae Water Treatment Plant at R26 845 333, as generally shown in figure 6.2.

The Waitohu Stream and its tributaries upstream of the Kapiti Coast District Council intake at S25 966 467, as generally shown in figure 6.3.

The Wainuiomata River and its tributaries upstream of the Morton Dam at R27 771 918, as generally shown in figure 6.4.

The Hutt River and its tributaries upstream of the Kaitoke intake at S26 941 150, as generally shown in figure 6.5.

The Orongorongo River and its tributaries upstream of R27 802 879, as generally shown in figure 6.6.

Boar Creek upstream of S27 049 090, as generally shown in figure 6.7.

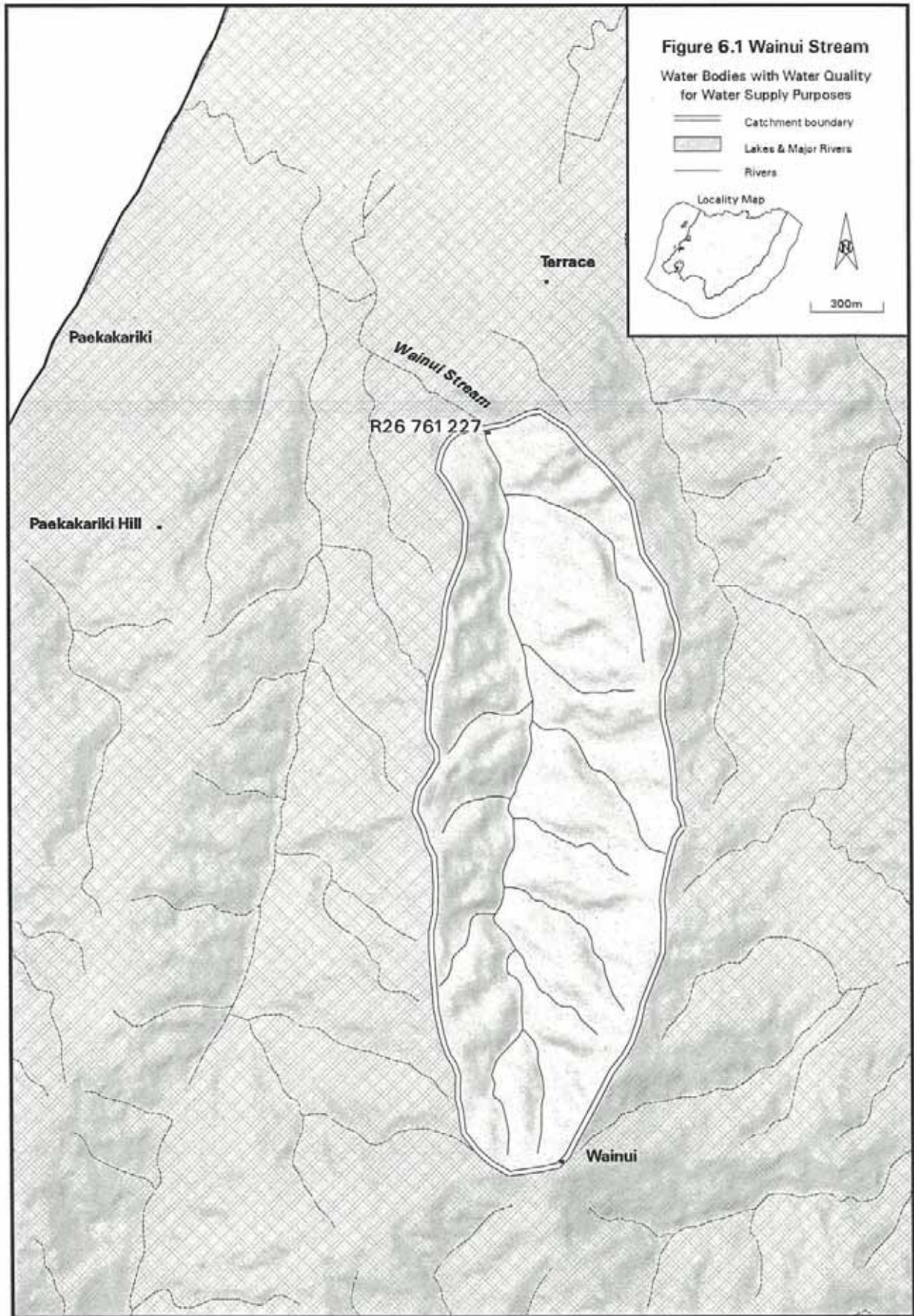
Taits Creek upstream of S26 076 138, as generally shown in figure 6.8.

The Huangarua River upstream of S27 195 935, as generally shown in figure 6.9.

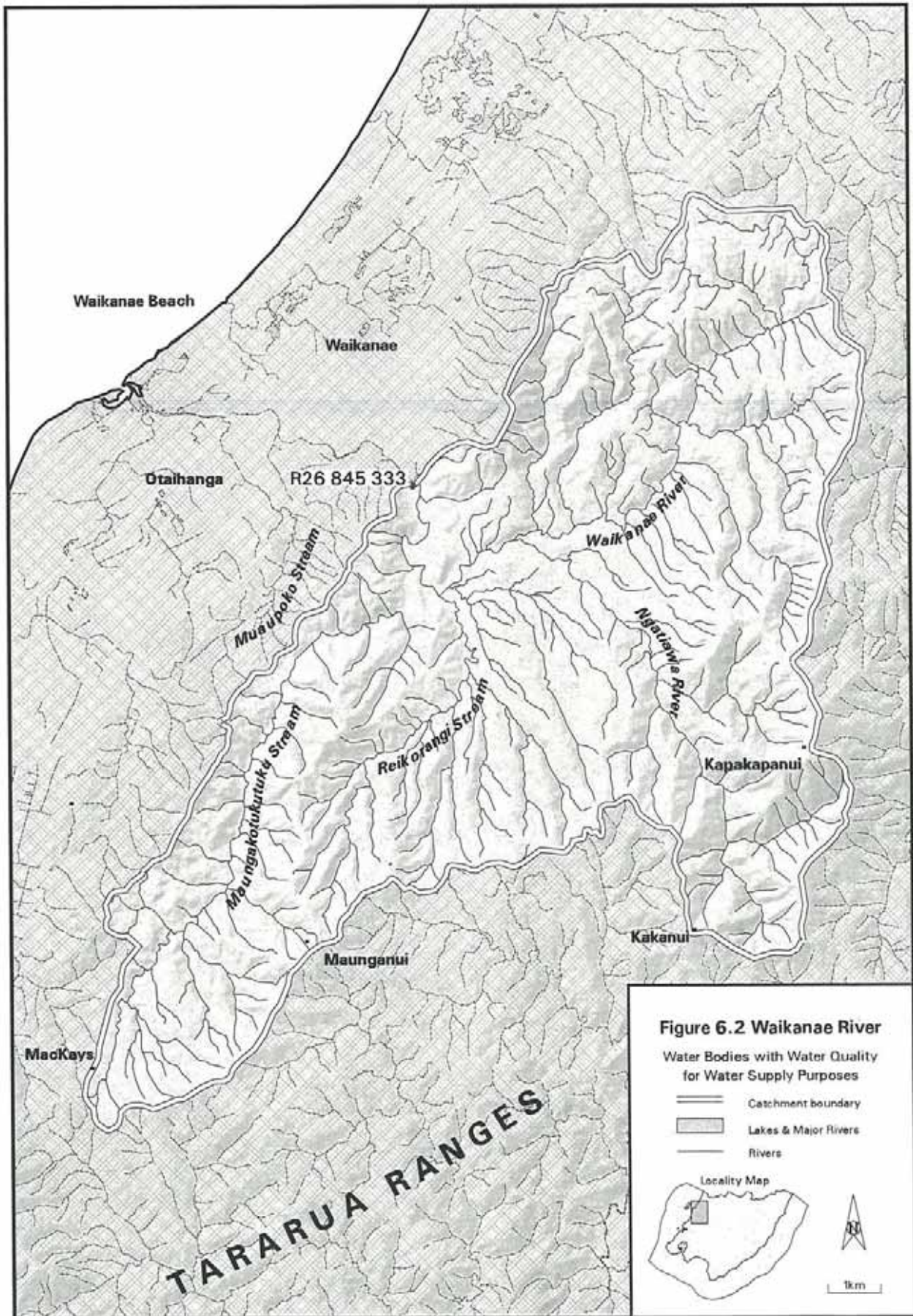
The Waingawa River upstream of S26 228 322, as generally shown in figure 6.10.

The Kaipatangata River upstream of S26 151 213, as generally shown in figure 6.11.

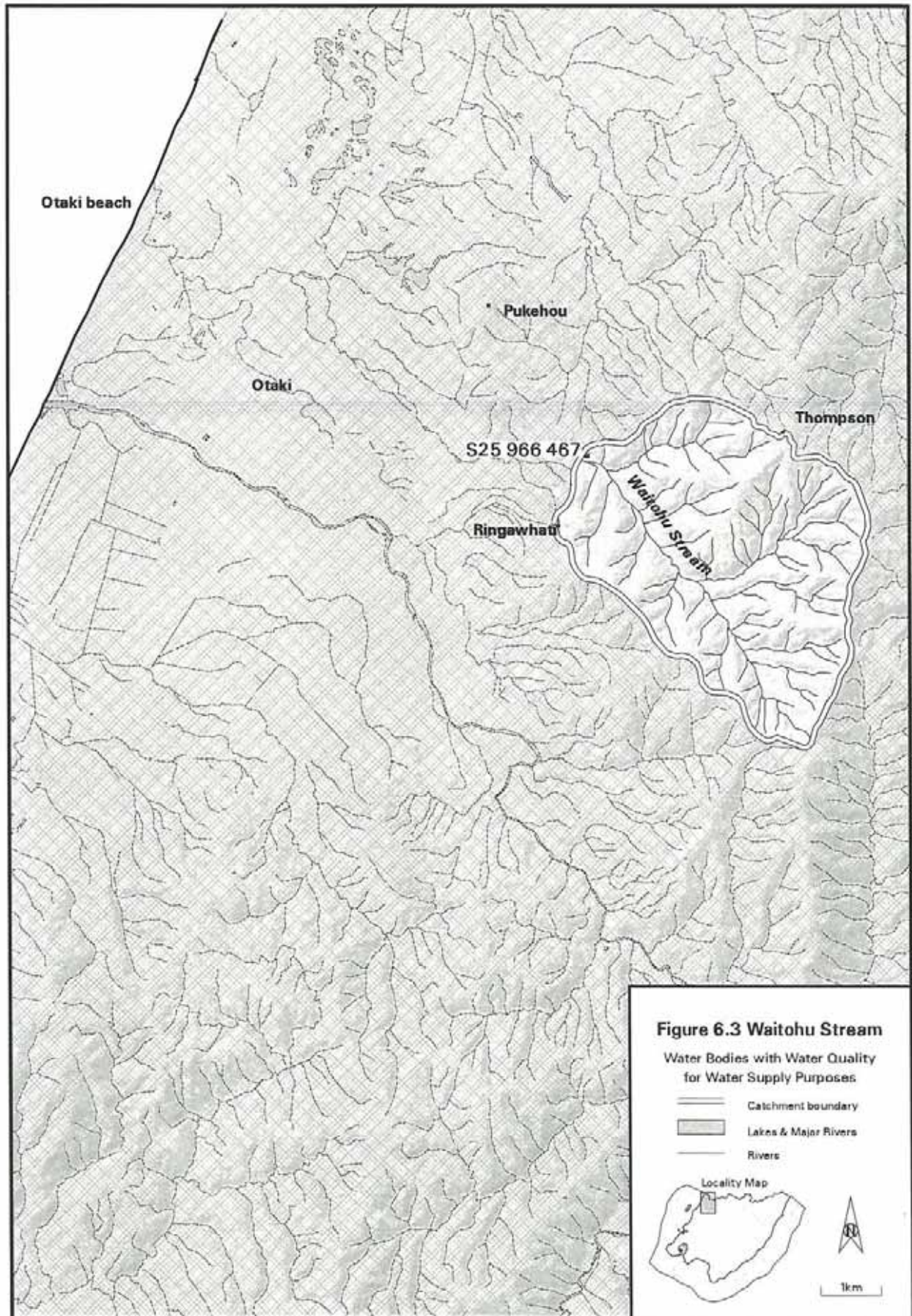




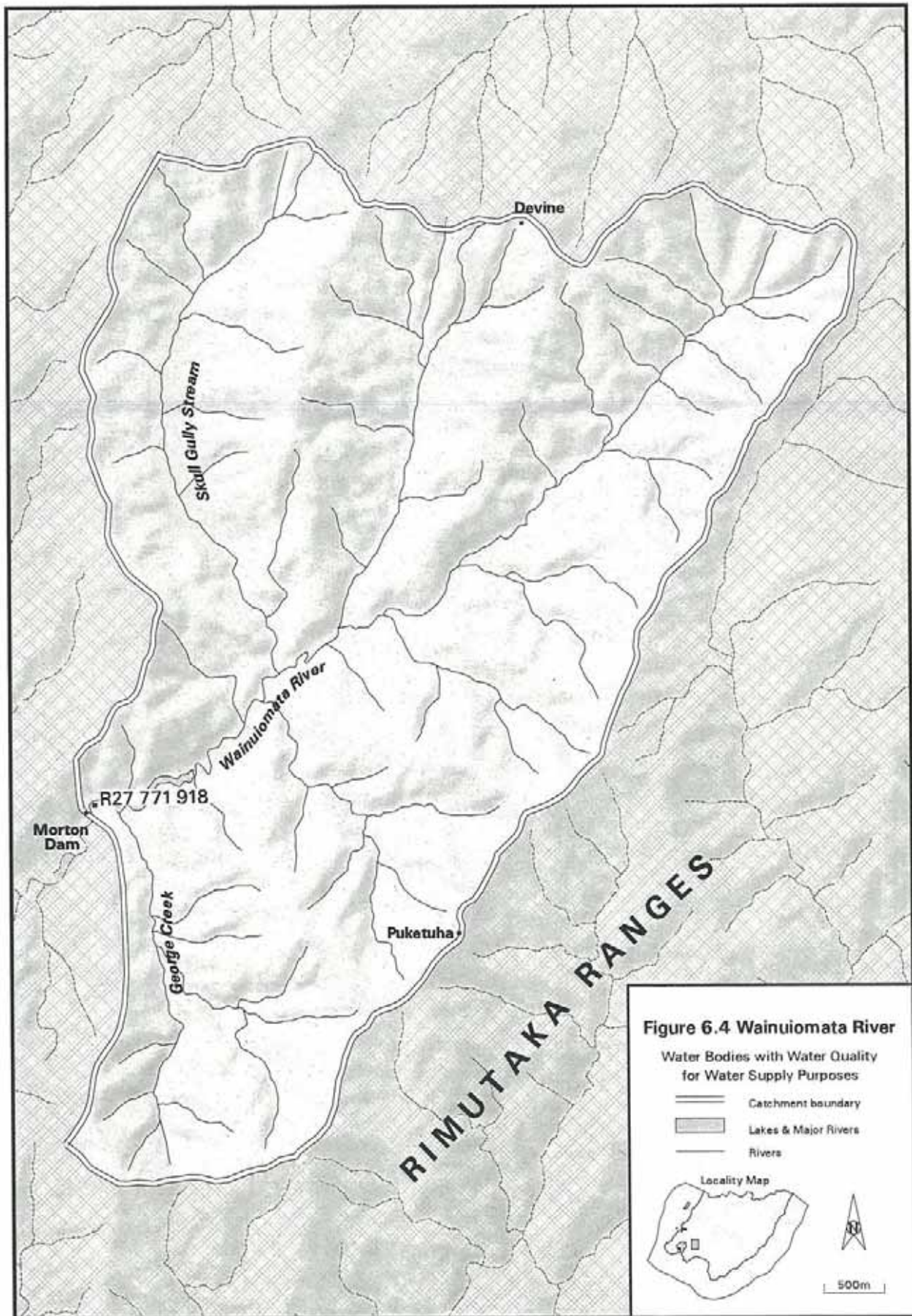
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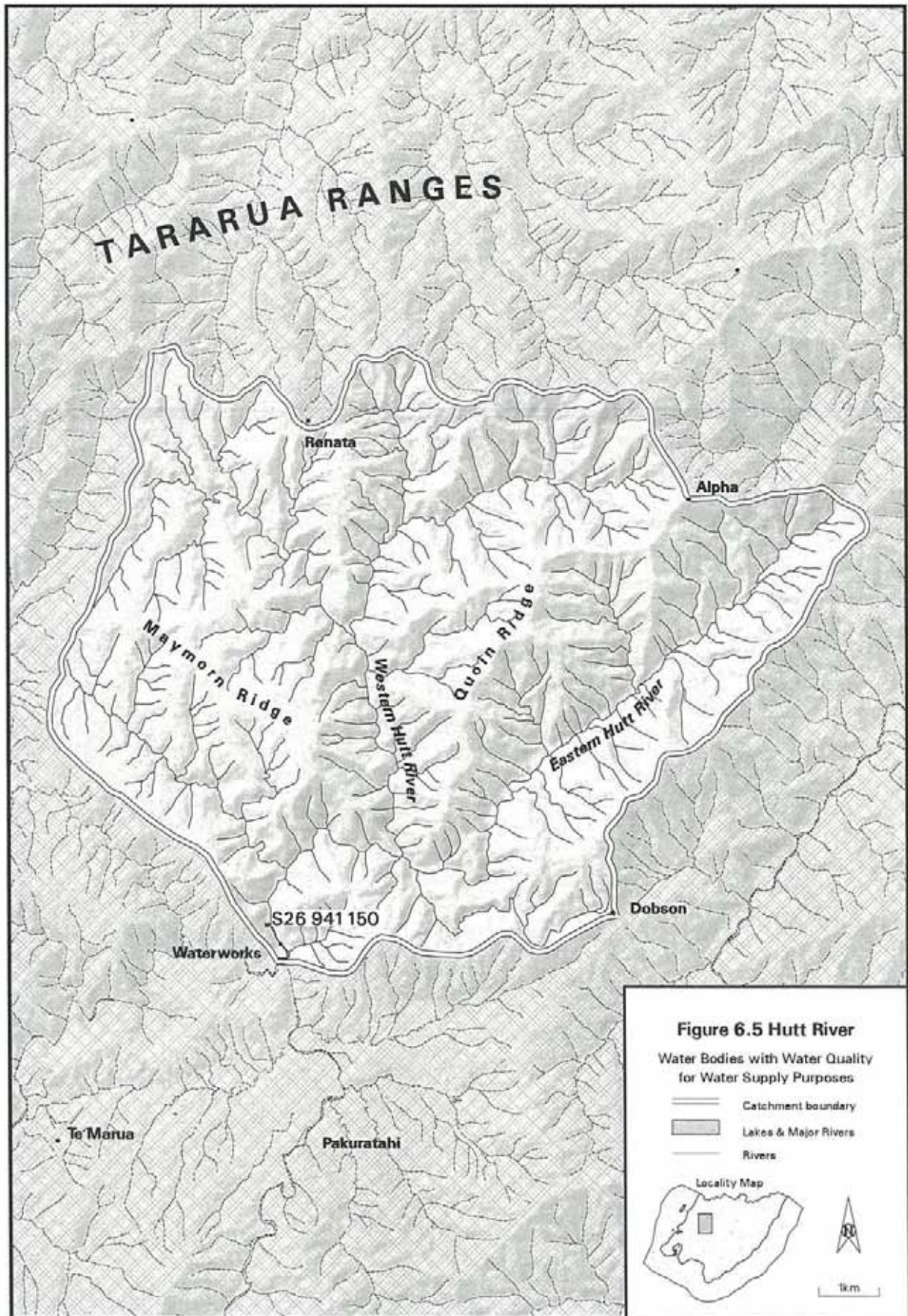
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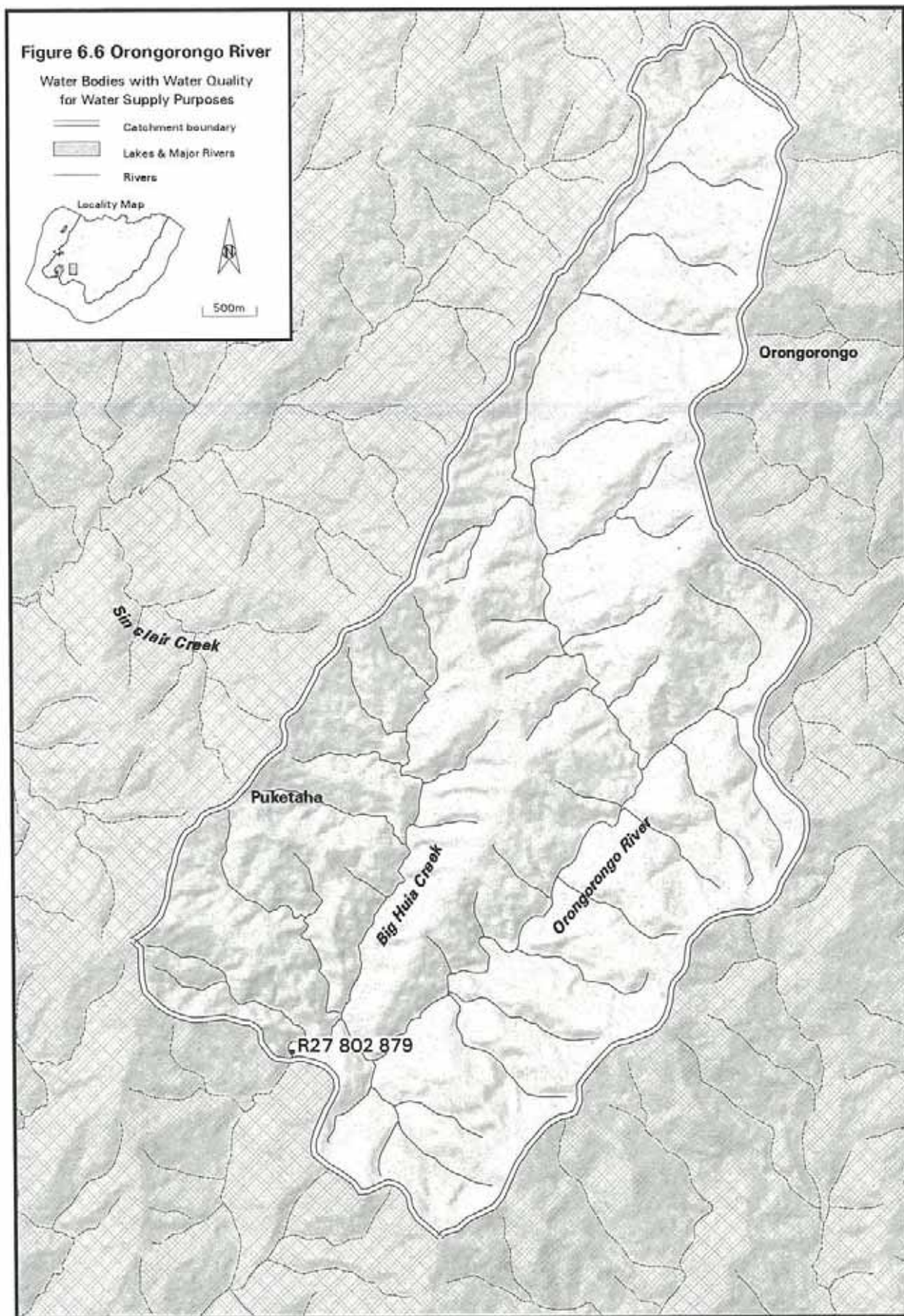
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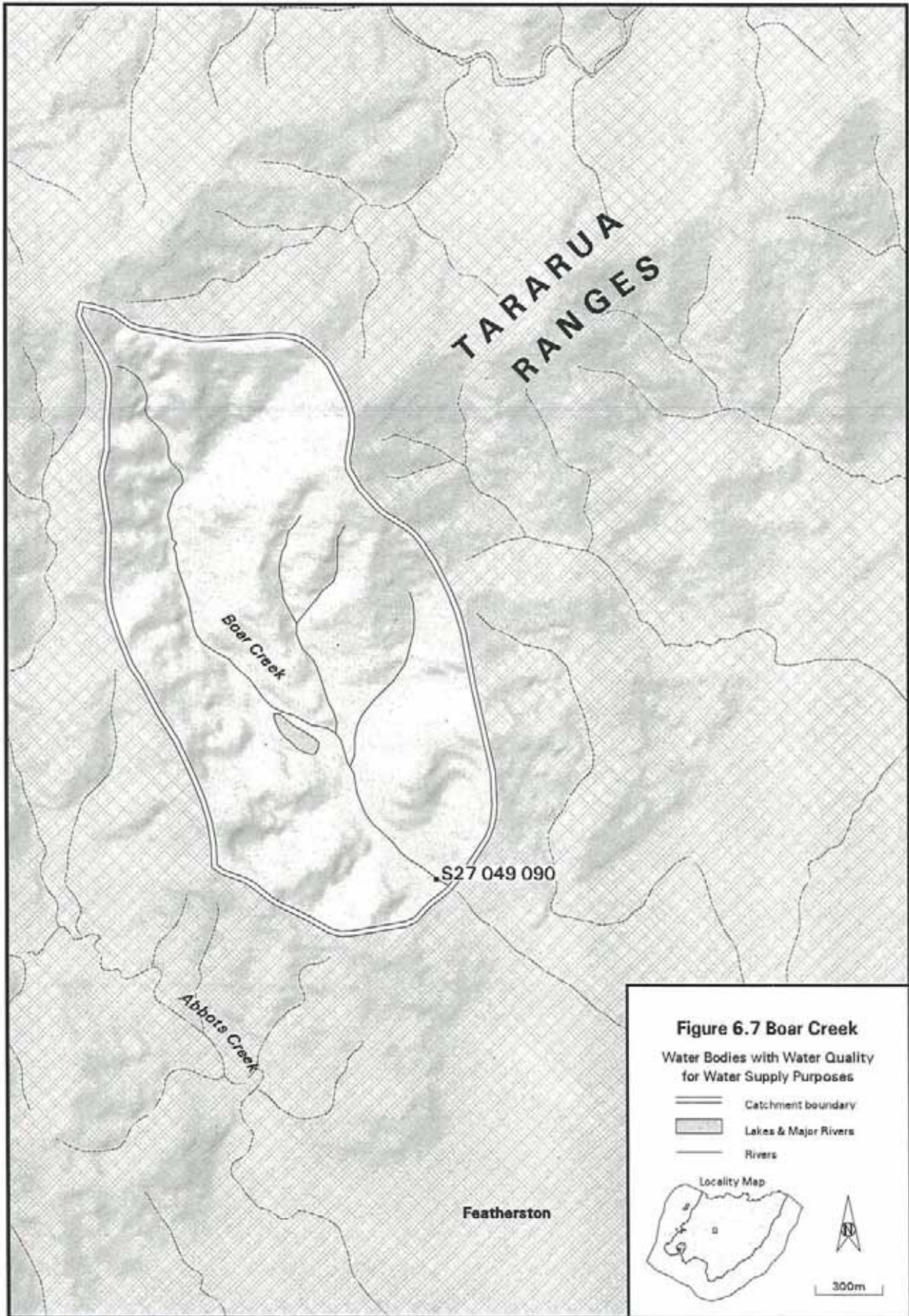
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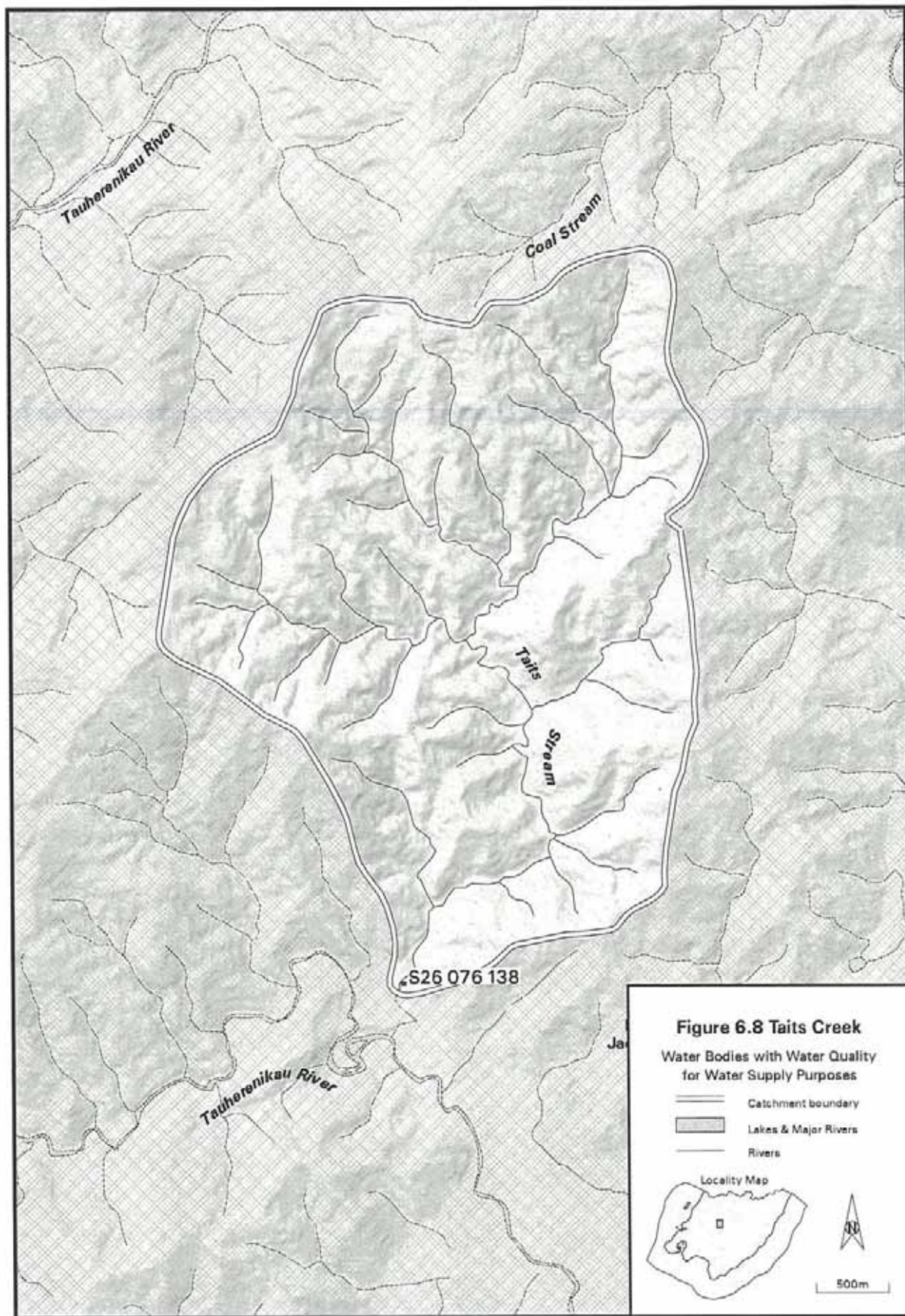
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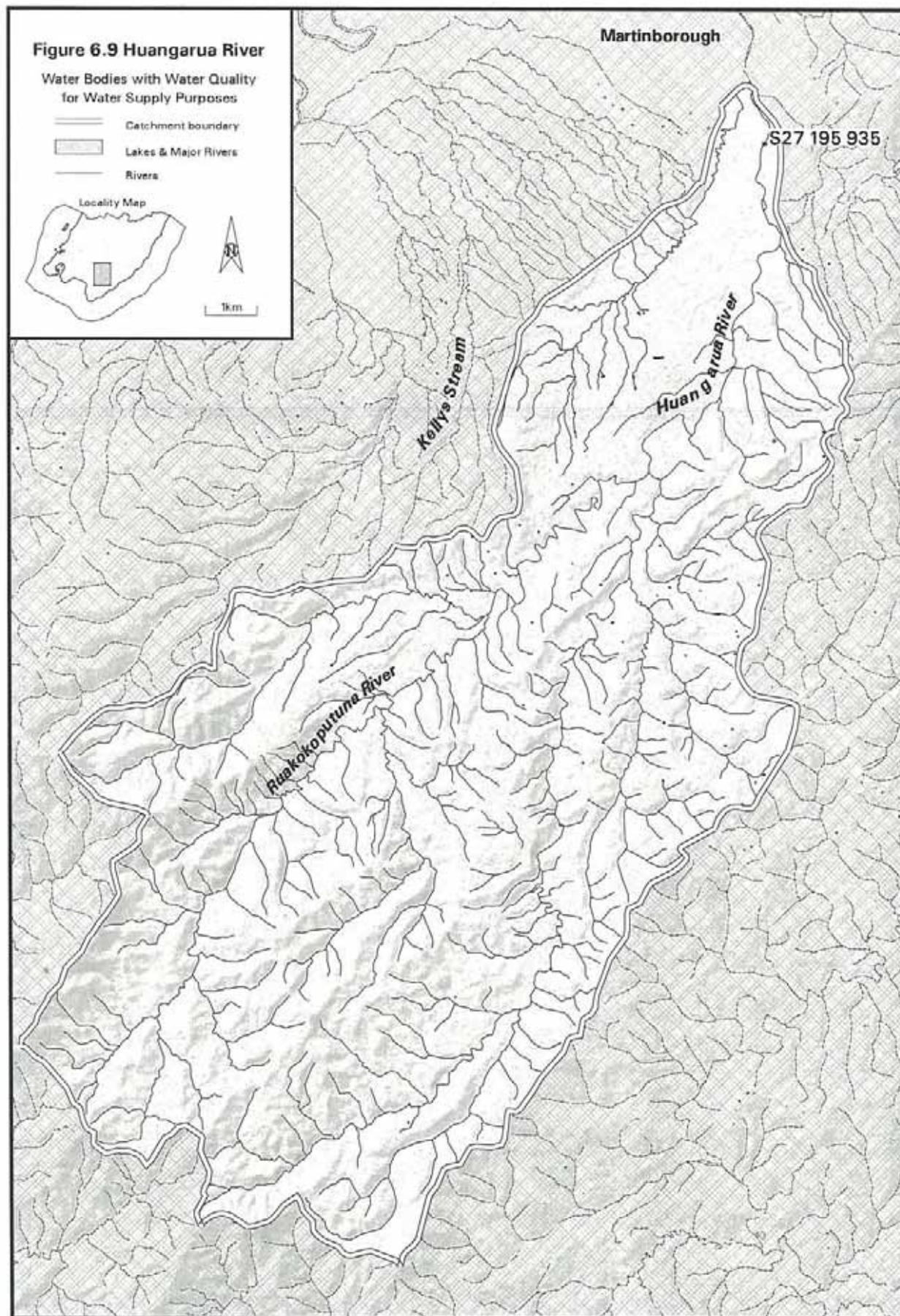
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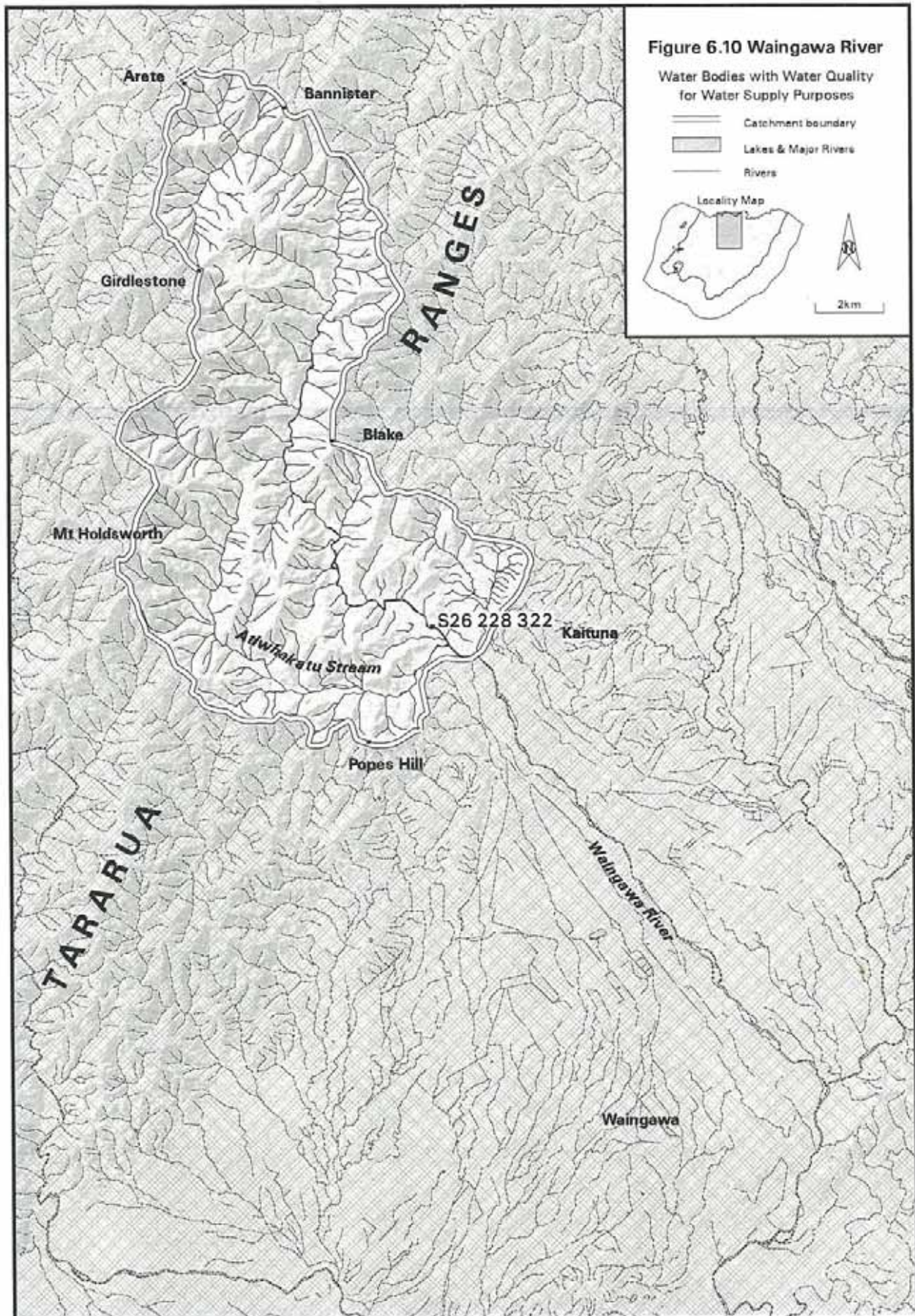
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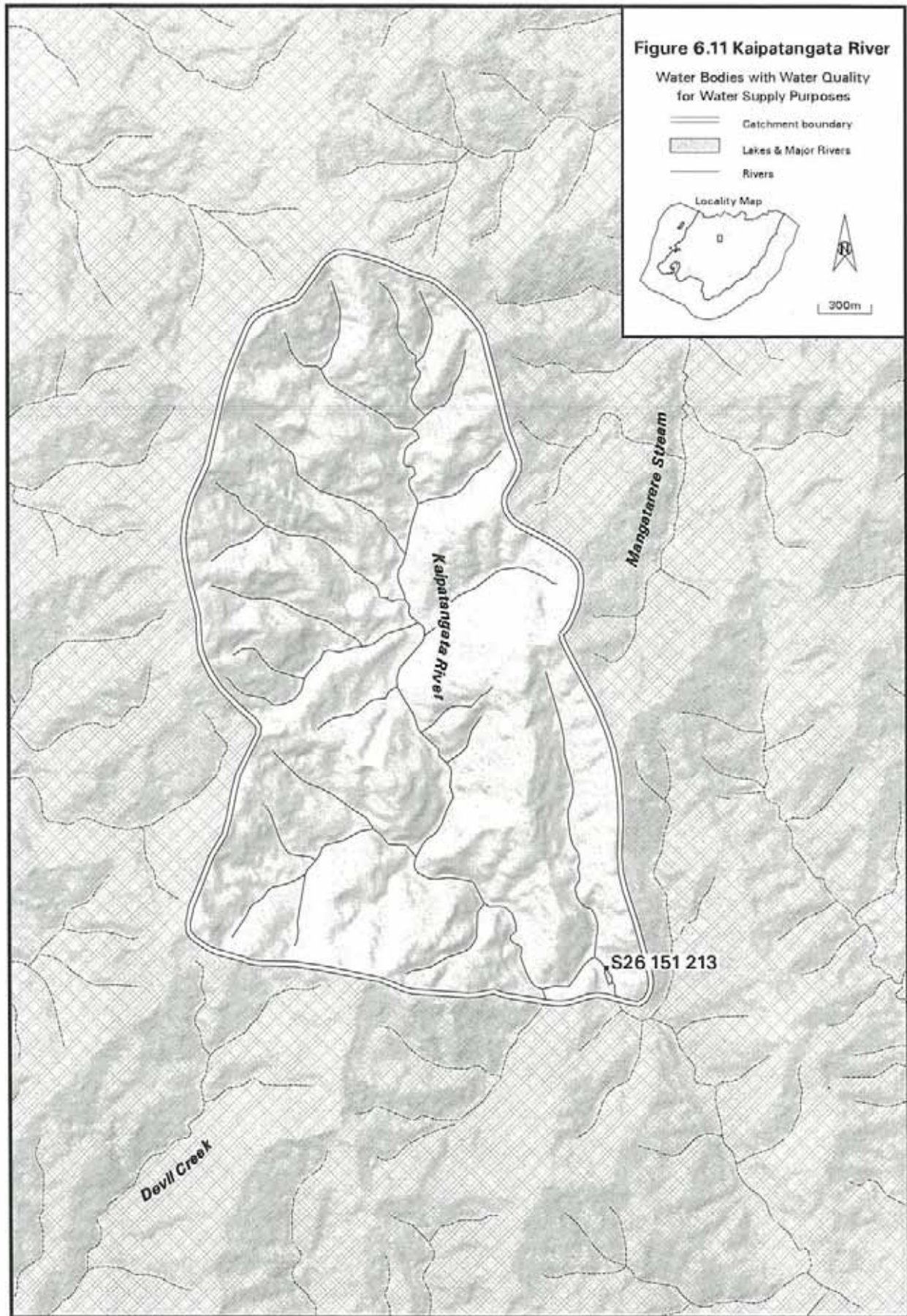
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Appendix 7

Water Bodies with Water Quality Identified as Needing Enhancement

Refer to Policy 5.2.9

The locations of rivers are shown on the attached map.

The primary sources of information for the water bodies listed in Appendix 7 are:

Berry Alison (1994) *Wairarapa Rivers Water Quality Monitoring Programme Annual Report*. Technical Report No. 94/14, Wellington Regional Council, Wairarapa Division.

Berry Alison (1994/95) *Baseline Water Quality of Rivers and Streams in the Wellington Region - 1994/1995* Publication No. WRC/CI-T-95/50. Consents and Investigation Department, Wellington Regional Council.

Cameron D J, Sando M J *Baseline Water Quality of Rivers and Streams in the Wellington Region 1988/89*. Technical Report 90-1, Water Resources Department, Wellington Regional Council.

Cameron D J (1993) *Baseline Water Quality of Rivers and Streams in the Wellington Region - 1992/1993*. Publication WRC/CI/T-93/34, Wellington Regional Council, Wellington.

Cameron D J (1994) *Baseline Water Quality of Rivers and Streams in the Wellington Region - 1993/1994*. Publication WRC/CI-I-94/24, Wellington Regional Council, Wellington.

Morton Alison (1994) *Wairarapa Rivers Water Quality Monitoring Programme*. Technical Report No.95/10, Wellington Regional Council, Wairarapa Division.

1. For Aquatic Ecosystems Purposes

- The Mazengarb Drain from its confluence with the Waikanae River at R26 795 345 upstream to R26 801 325.
- Tikotu Stream from the coastal marine area boundary at R26 768 331 upstream to R26 785 329.
- Ngarara Stream and its tributaries from the coastal marine area boundary at R26 811 364 upstream to R26 838 360 and R26 831 358.
- Lower Mangaone Stream from the coastal marine area boundary at R25 858 443 upstream to R25 400 425.



- Waiwhetu Stream from the coastal marine area boundary at R27 694 948 upstream to R27 746 986
- Wainuiomata River from the coastal marine area boundary at R28 676 755 upstream to R27 734 959.
- Ngauranga Stream and its tributary from the coastal marine area boundary at R27 620 937 upstream to R27 619 984 and R27 607 942.
- The Makoura Stream (both above and below the oxidation pond discharge) from T26 354 197 upstream to T26 353 226.
- The Mangaterere River (both above and below the oxidation pond discharge) from S26 199 131 to S26 234 214.
- The Makara Stream upstream of the coastal marine boundary at R27 538 971

2. For Contact Recreation Purposes

- The lower Waiohine River from S27 205 086 to S26 117 185.
- The mid and lower Ruamahanga River from T26 355 334 to R28 890 796.

3. For Fishery and Fish Spawning Purposes

- The Wainuiomata River from the coastal marine area boundary at R28 676 755 upstream to R27 734 959.

Appendix 8

Water Quality Guidelines

Introduction

This appendix provides guidelines for resource consents and monitoring.

The water quality guidelines are expressed in terms of the receiving water rather than the discharge. Thus, conditions on a resource consent must take account of the effects of, for instance, mixing and existing discharges. This is specified in the guidelines with the phrases “After reasonable mixing” and “the contaminant, either by itself or in combination with other contaminants”. The latter phrase is to ensure that the cumulative effect of all discharges to the water body is considered.

These guidelines use the predominantly narrative standards given in the Act. Relevant numerical criteria are not included because they should not be separated from the documents of which they are a part. That is, they should not be taken out of context. The documents which should be used to guide numerical criteria for receiving waters in these guidelines are:

- the ANZECC Australian water quality guidelines (ANZECC, 1992);
- the Ministry for the Environment water quality guidelines (Ministry for the Environment, 1992, and Ministry for the Environment, 1994);
- the Department of Health guidelines for recreation and shellfish gathering (McBride et al., 1992);
- the Ministry of Agriculture and Fisheries technical paper on the influence of agriculture (Smith et al. 1993);
- other relevant guidelines.

Guidelines

A8.1 The following guidelines reflect the minimum water quality standards established in sections 70 and 107 of the Act.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) The production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials.



- (2) Any conspicuous change in the colour or visual clarity.
- (3) Any emission of objectionable odour.
- (4) The rendering of freshwater unsuitable for consumption by farm animals.
- (5) Any significant adverse effects on aquatic life.

A8.2 The following guidelines reflect the water quality standards in the Third Schedule of the Act regarding water managed for aquatic ecosystem purposes.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) All those effects in 8.1.
- (2) The natural temperature of the water shall not be changed by more than 3° Celsius.
- (3) The following shall not be allowed if they have an adverse effect on aquatic life:
 - (a) Any pH change:
 - (b) Any increase in the deposition of matter on the bed of the water body or coastal water:
 - (c) Any discharge of a contaminant into the water.
- (4) The concentration of dissolved oxygen to fall below 80% of saturation concentration.
- (5) There shall be no undesirable biological growths as a result of any discharge of a contaminant into the water.

A8.3 The following guidelines reflect the water quality standards in the Third Schedule of the Act regarding water managed for aquatic ecosystem and contact recreation purposes.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) All those effects in A8.1.
- (2) All those effects in A8.2.
- (3) The visual clarity of the water to be so low as to be unsuitable for bathing.
- (4) The water to be rendered unsuitable for bathing by the presence of contaminants.
- (5) The presence of undesirable biological growths as a result of any discharge of a contaminant into the water.

- A8.4 The following guidelines reflect the water quality standards in the Third Schedule of the Act regarding water managed for aquatic ecosystem and fishery purposes.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) All those effects in A8.1.
- (2) All those effects in A8.2.
- (3) The natural temperature of the water -
 - To be changed by more than 3° Celsius; and
 - To exceed 25° Celsius.
- (4) The concentration of dissolved oxygen to fall below 80% of saturation concentration.
- (5) Fish to be rendered unsuitable for human consumption by the presence of contaminants.

- A8.5 The following guidelines reflect the water quality standards in the Third Schedule of the Act regarding water managed for aquatic ecosystem and fish spawning purposes.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) All those effects in A8.1.
- (2) All those effects in A8.2.
- (3) The natural temperature of the water to be changed by more than 3° Celsius. The temperature of the water to adversely affect the spawning of specified fish species (either Brown Trout, *Salmo trutta*, or Inanga, *Galaxias maculatus*) during the spawning season.
- (4) The concentration of dissolved oxygen to fall below 80% of saturation concentration.

- A8.6 The following guidelines reflect the water quality standards in the Third Schedule of the Act regarding water managed for aquatic ecosystems and water supply purposes.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause any of the following effects:

- (1) All those effects in A8.1.
- (2) All those effects in A8.2.

- (3) The pH of surface waters to be outside the range of 6.0 - 9.0 units.
- (4) The concentration of dissolved oxygen in surface waters to be below 5 g/m³.
- (5) The water is rendered unsuitable for treatment (equivalent to coagulation, filtration, and disinfection) for human consumption by the presence of contaminants.
- (6) The water is tainted or contaminated so as to make it unpalatable or unsuitable for consumption by humans after treatment (equivalent to coagulation, filtration, and disinfection), or unsuitable for irrigation.

A8.7 The following guideline reflects the water quality standard in the Third Schedule of the Act regarding water which is managed in its natural state.

After reasonable mixing, the contaminant, either by itself or in combination with other contaminants, is not likely to cause the following effect:

- (1) The natural quality of the water to be altered.

References

Australian and New Zealand Environment and Conservation Council (1992) *Australian Water Quality Guidelines for Fresh and Marine Waters* ANZECC, Canberra.

McBride G B, Cooper A B and Till D G (1992) *Provisional Microbiological Water Quality Guidelines for Recreational and Shellfish - Gathering Waters in New Zealand* Public Health Services, Department of Health, Wellington.

Ministry for the Environment (1992) *Guidelines for the Control of Undesirable Biological Growths in Water* Water Quality Guidelines No. 1, Ministry for the Environment, Wellington.

Ministry for the Environment (1994) *Guidelines for the Management of Water Colour and Clarity* Water Quality Guidelines No. 2, Ministry for the Environment, Wellington.

Smith, C. M., Wilcock, R. J., Vant, W. N., Smith, D. G. and Cooper, A. B. (1993) *Towards Sustainable Agriculture: Freshwater Quality in New Zealand and the Influence of Agriculture* Ministry of Agriculture and Fisheries Policy Technical Paper 93/10.



Appendix 9

Groundwater Zones

The primary source of information for the groundwater zones identified in Appendix 9 are:

- Butcher G M (1995) *Safe Yield Estimates for Identified Aquifers in the Wairarapa Valley* Report prepared for the Wellington Regional Council;
- Butcher G M (1996) *Ground Water Resources of the Lower Wairarapa Valley* Report prepared for the Wellington Regional Council;
- Hydrological Services Group (1994) *Hydrology of the Kapiti Coast* Publication WRC/CI-T/G-94/13, Wellington Regional Council, Wellington;
- Hydrological Services Group (1995) *Hydrology of the Hutt Catchment, Volume 1 - Surface Water, Volume 2 - Ground water* Publication WRC/CI-T-95/38, Wellington Regional Council, Wellington;
- Professional Ground Water and Environmental Services (1996) *Ground Water Resources of the Parkvale/Waihakeke Area, Carterton* Report prepared for Wairarapa Division and the Wellington Regional Council;
- Royds Garden Limited (1992) *Kapiti Coast District Water Resource Study* (3 Volumes) Wellington Regional Council, Wellington;
- Royds Garden Limited (1993) *Kapiti Coast Area Water Management Report* Publication WRC/PP-G-93/64 Wellington Regional Council, Wellington;
- Wellington Regional Council (1992) *Draft Regional Plan for the Moroa Shallow Aquifer* Wellington Regional Council, Wairarapa Division;
- Wellington Regional Council (1993) *Wainuiomata Water Resource Statement* Publication WRC/PP-T-93/15, Wellington Regional Council, Wellington;
- Wellington Regional Council (1995) *Hydrology of the Orongorongo Catchment* Publication WRC/CI-T-95/162, Wellington Regional Council, Wellington; and
- Wellington Regional Council (1995) *Hydrology of the Hutt Catchment* Publication No. WRC/CI-T-95/38, Wellington Regional Council, Wellington.

The location of groundwater zones are shown on the maps attached to this Appendix.

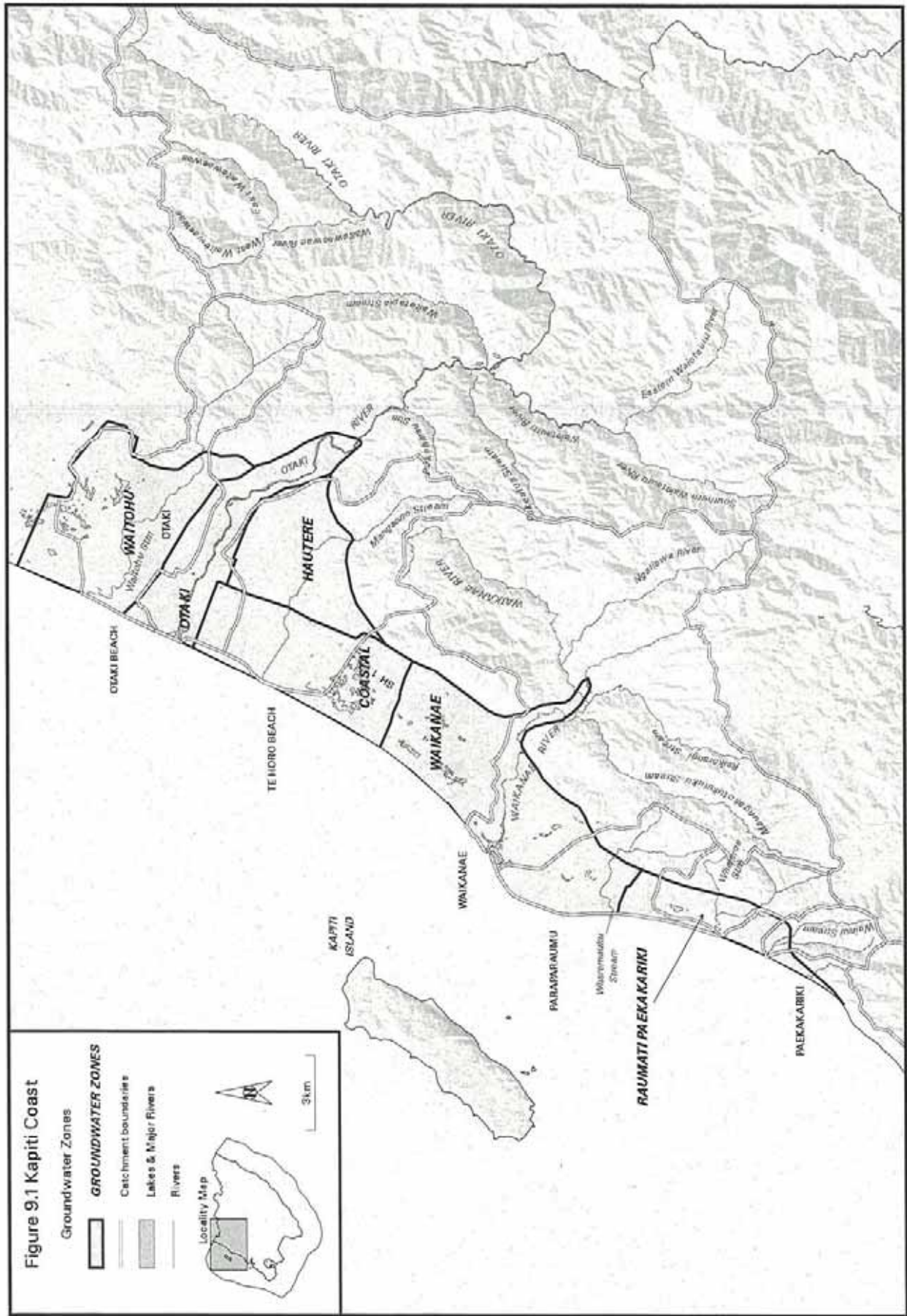
Figure 9.1 Kapiti Coast groundwater zones

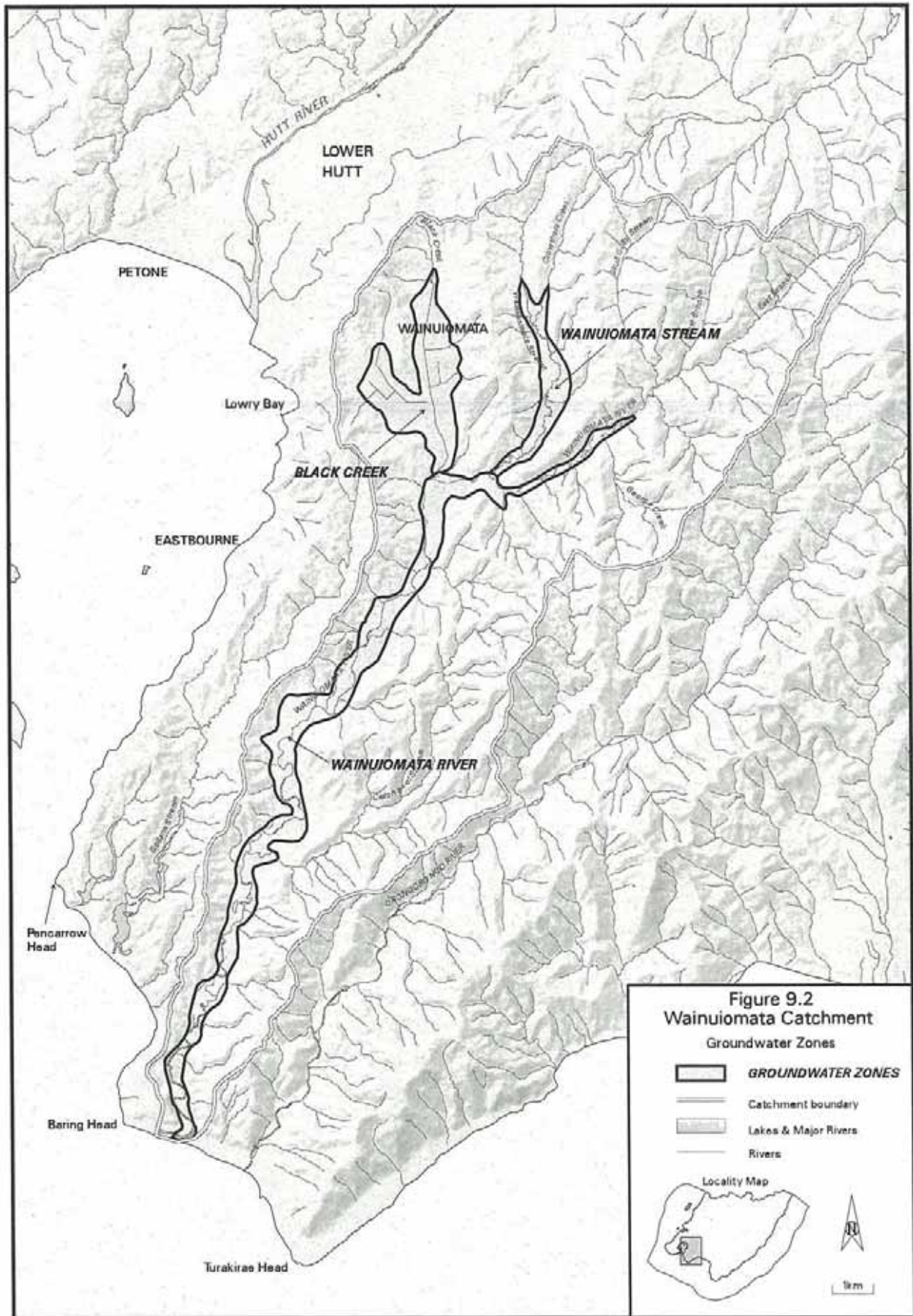
Figure 9.2 Wainuiomata catchment groundwater zones

Figure 9.3 Hutt catchment groundwater zones

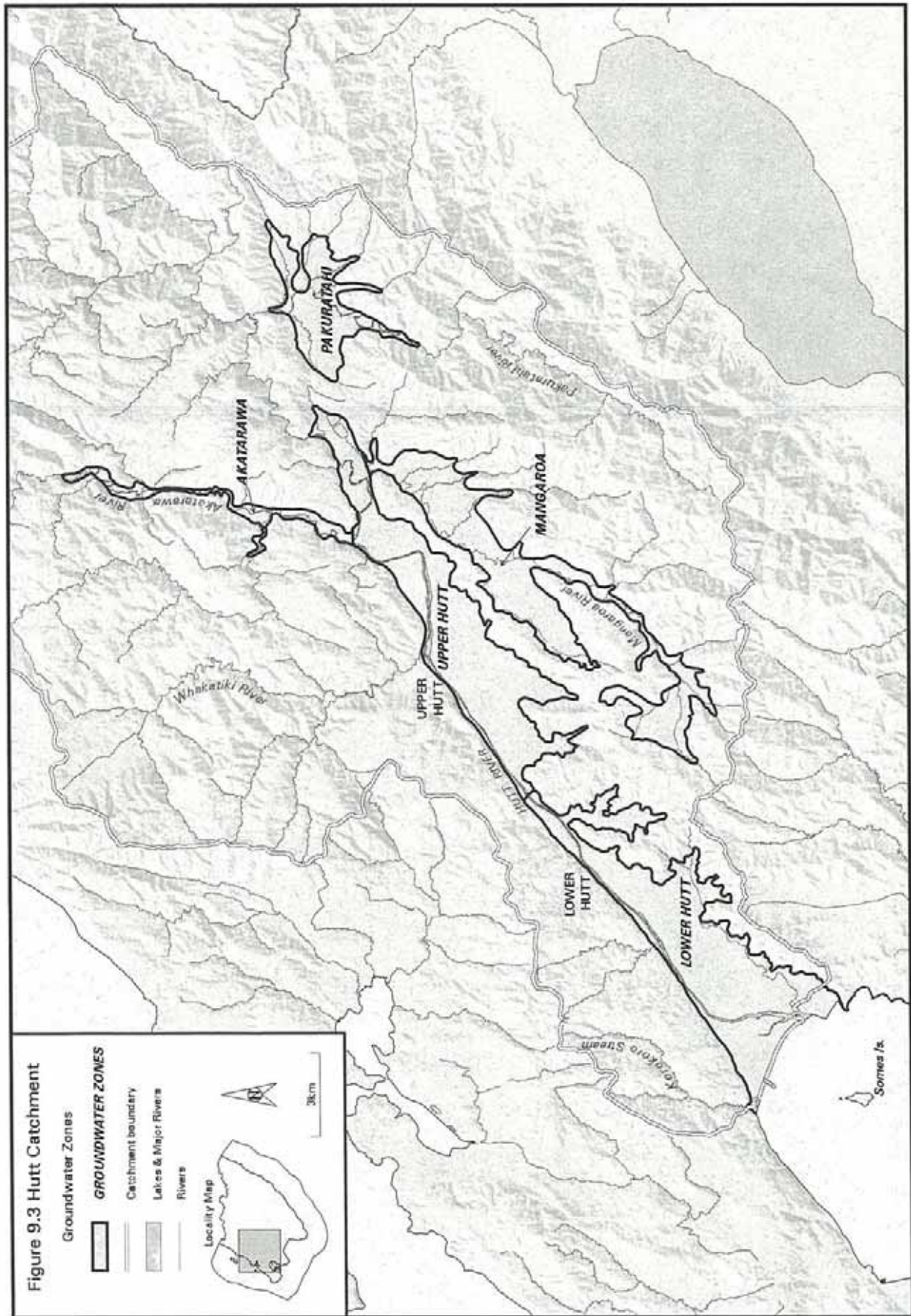
Figure 9.3a Lower Hutt catchment groundwater zone

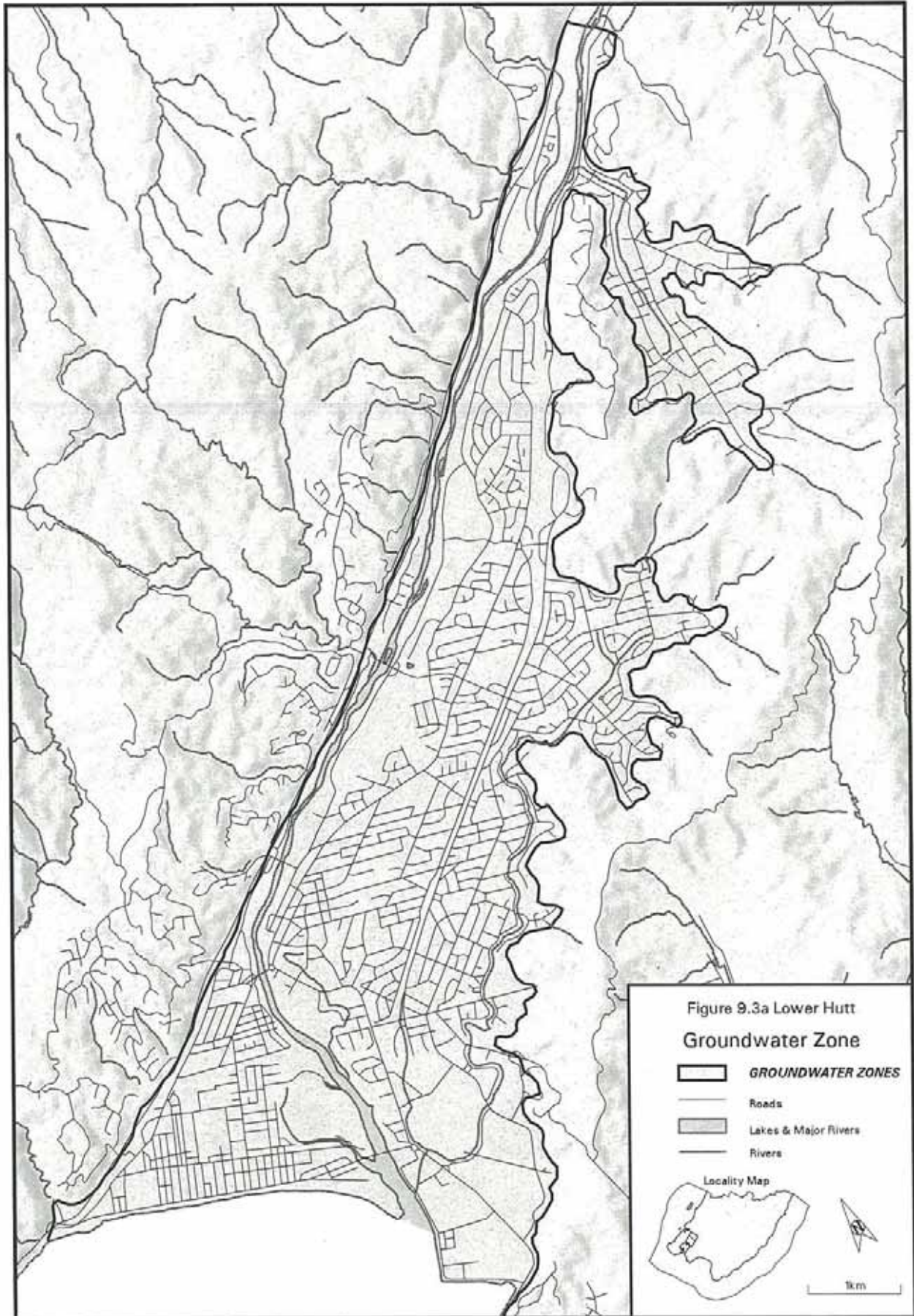
Figure 9.4 Wairarapa groundwater zones



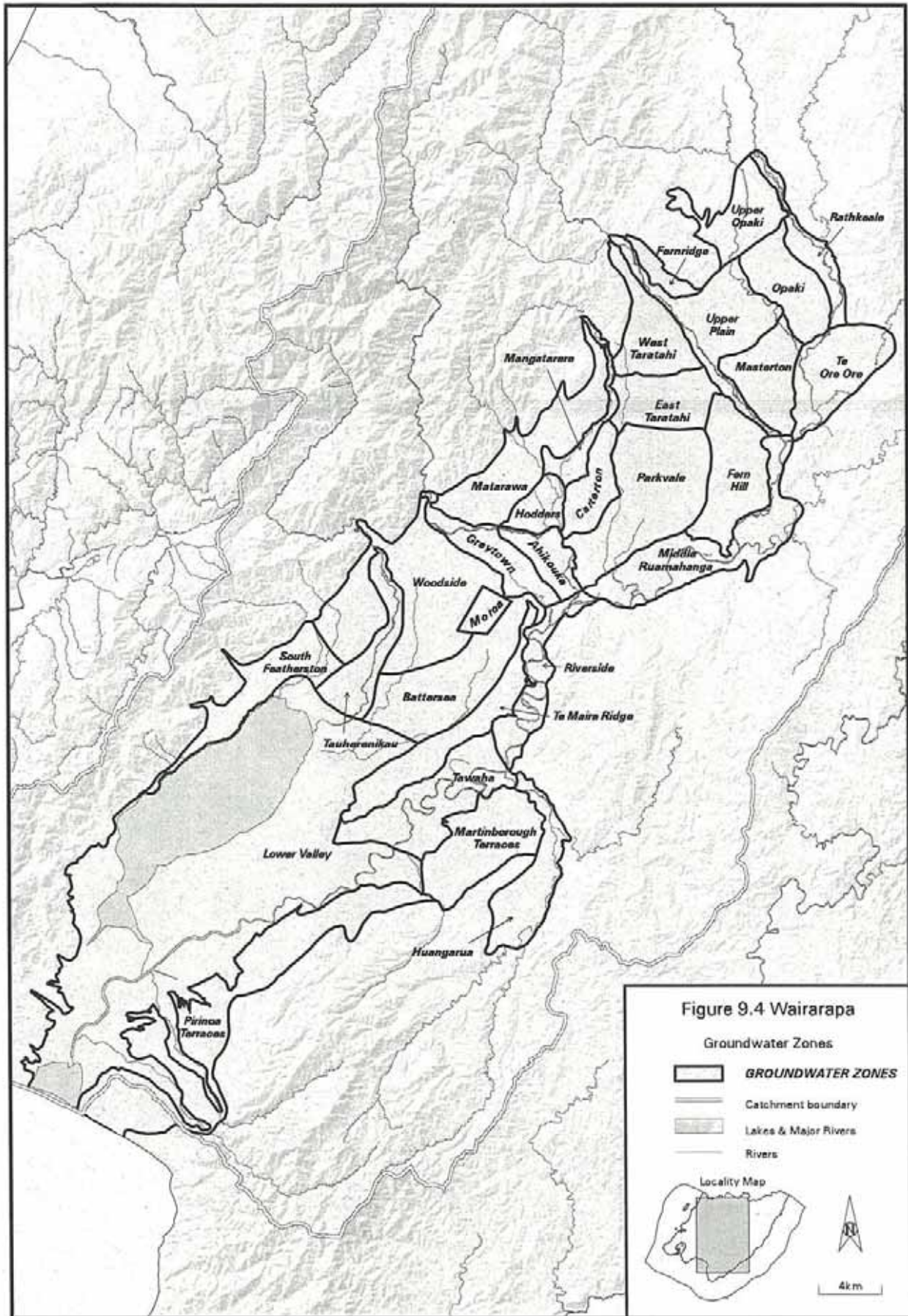


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Figure 9.5: Parkvale groundwater area (Parkvale groundwater zone)

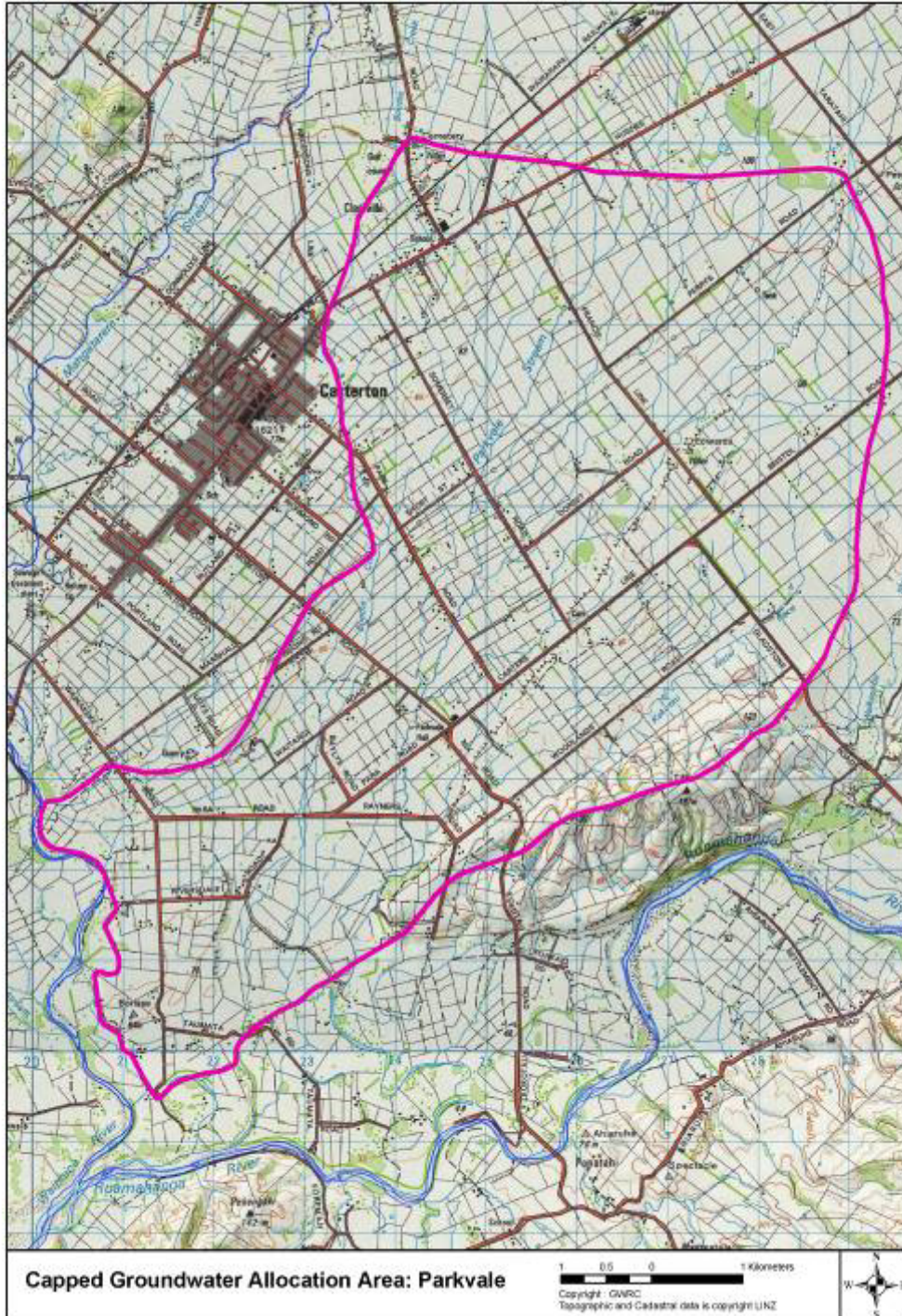
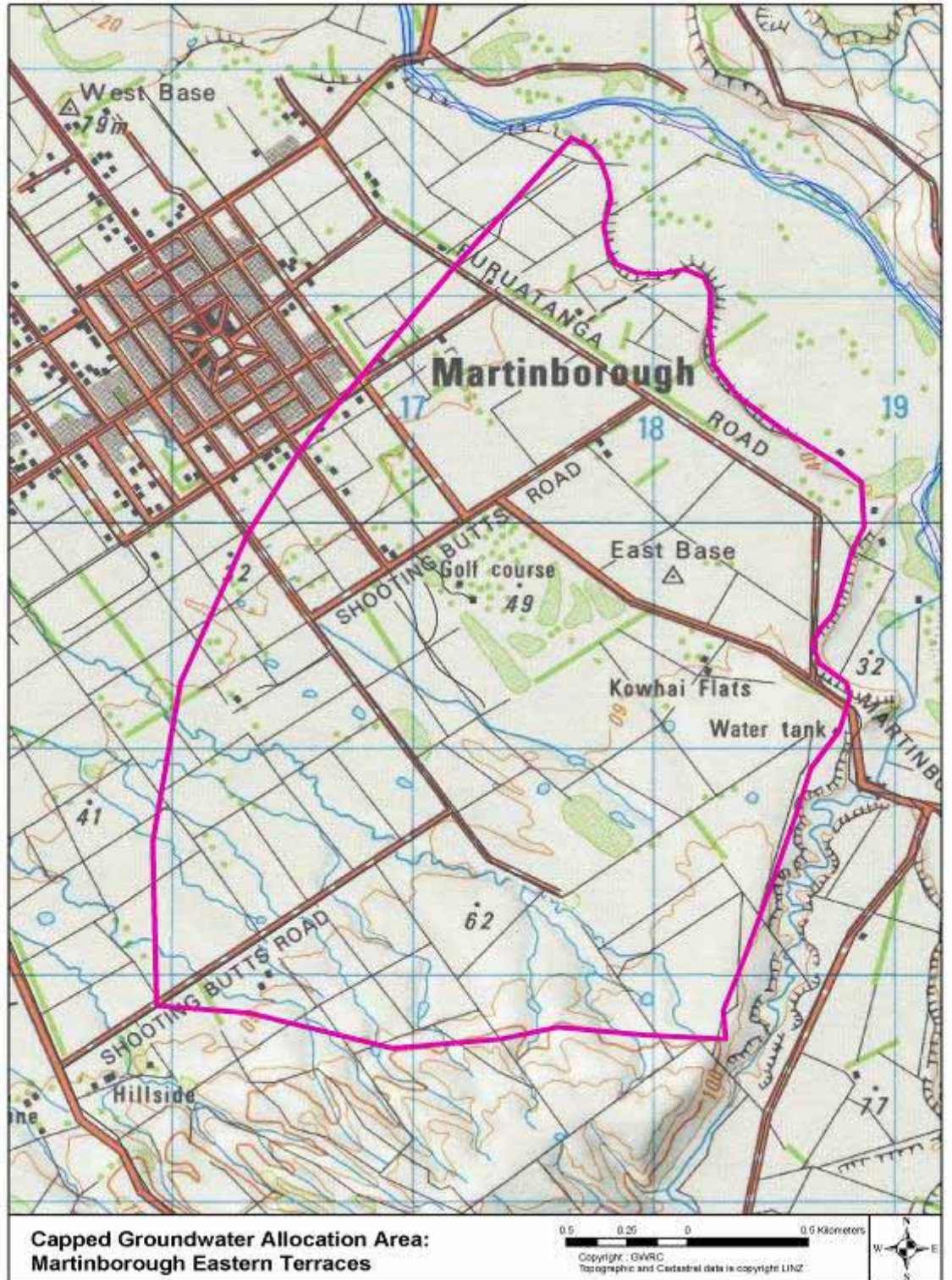


Figure 9.6: Kahutara groundwater area (within the Lower Valley groundwater zone)



Figure 9.7: Martinborough Eastern Terraces groundwater area (within the Martinborough Terraces groundwater zone)



Figures 9.5, 9.6 and 9.7 were inserted by Plan Change 3 to the Regional Freshwater Plan in May 2009

Appendix 10

River Corridors

Refer to Policy 9.3.5

River corridors for the Waikanae, Otaki, Hutt, Lower Ruamahanga and Waiohine Rivers are shown on the maps attached to this Appendix.

Figure 10.1 Otaki River

Figure 10.2 Waikanae River

Figure 10.3 Lower Ruamahanga River

Figure 10.4 Waiohine River

Hutt River:

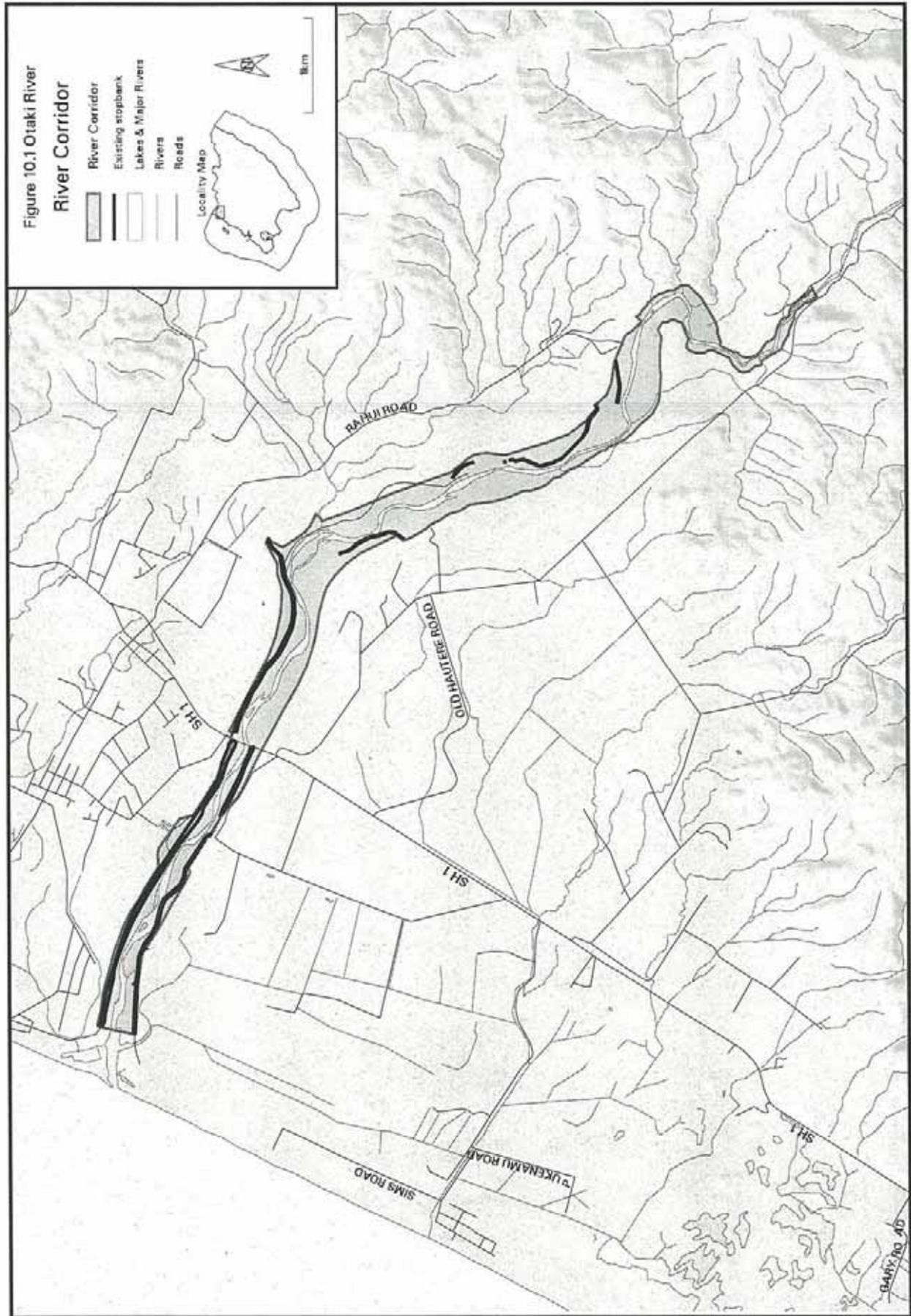
[At the time Plan Change 1 was made to the Regional Freshwater Plan, there were ongoing discussions between the Wellington Regional Council, and the Hutt City and Upper Hutt City Councils, about implementation of the recently completed "non statutory" Hutt River Floodplain Management Plan. The Hutt River Floodplain Management Plan includes a map of the Hutt River Corridor.

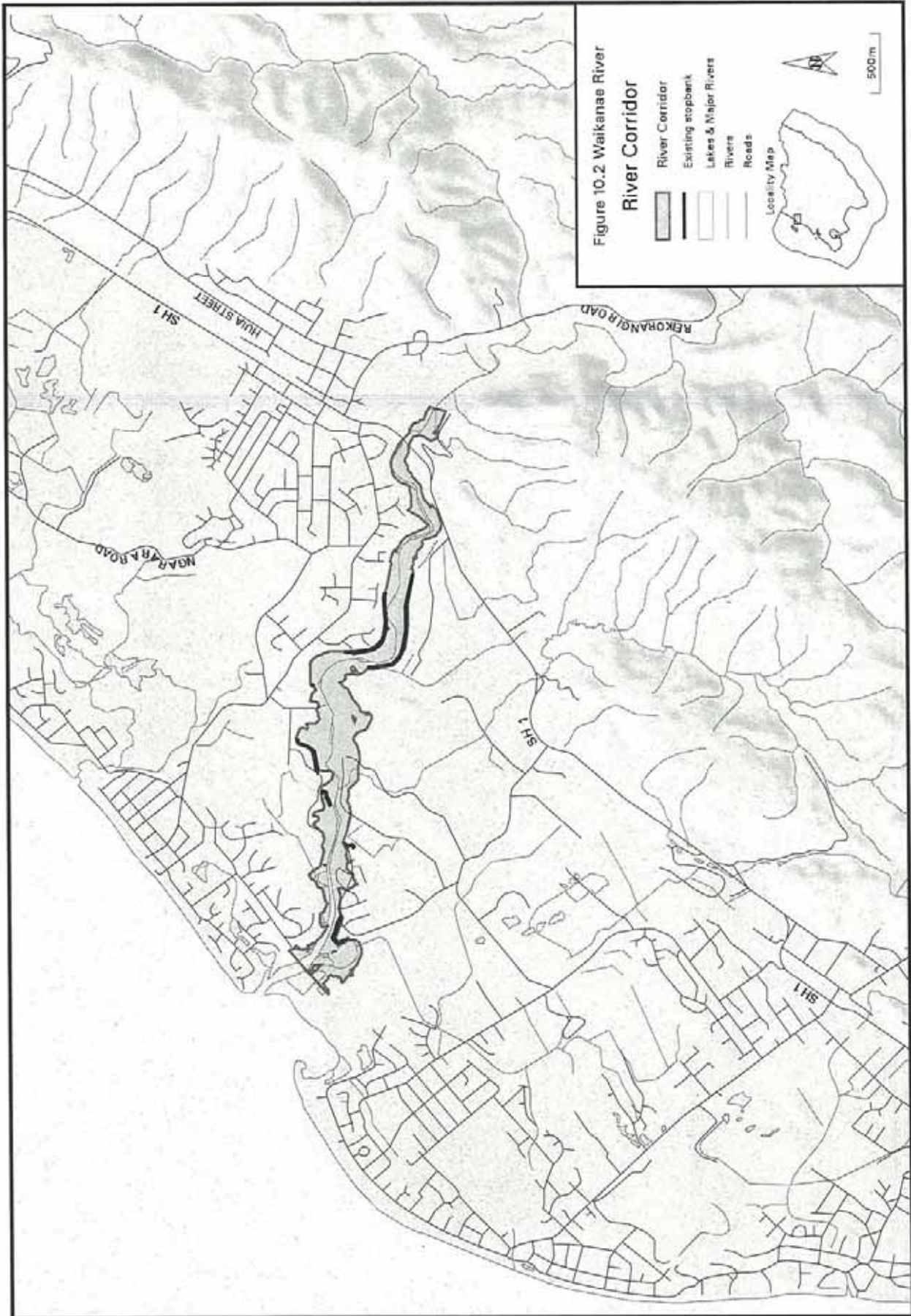
It is not appropriate to include this map of the Hutt River Corridor while discussions continue on how the Hutt River Floodplain Management Plan might be taken up in district plans.

For the purposes of the Regional Freshwater Plan, the river corridor for the Hutt River is:

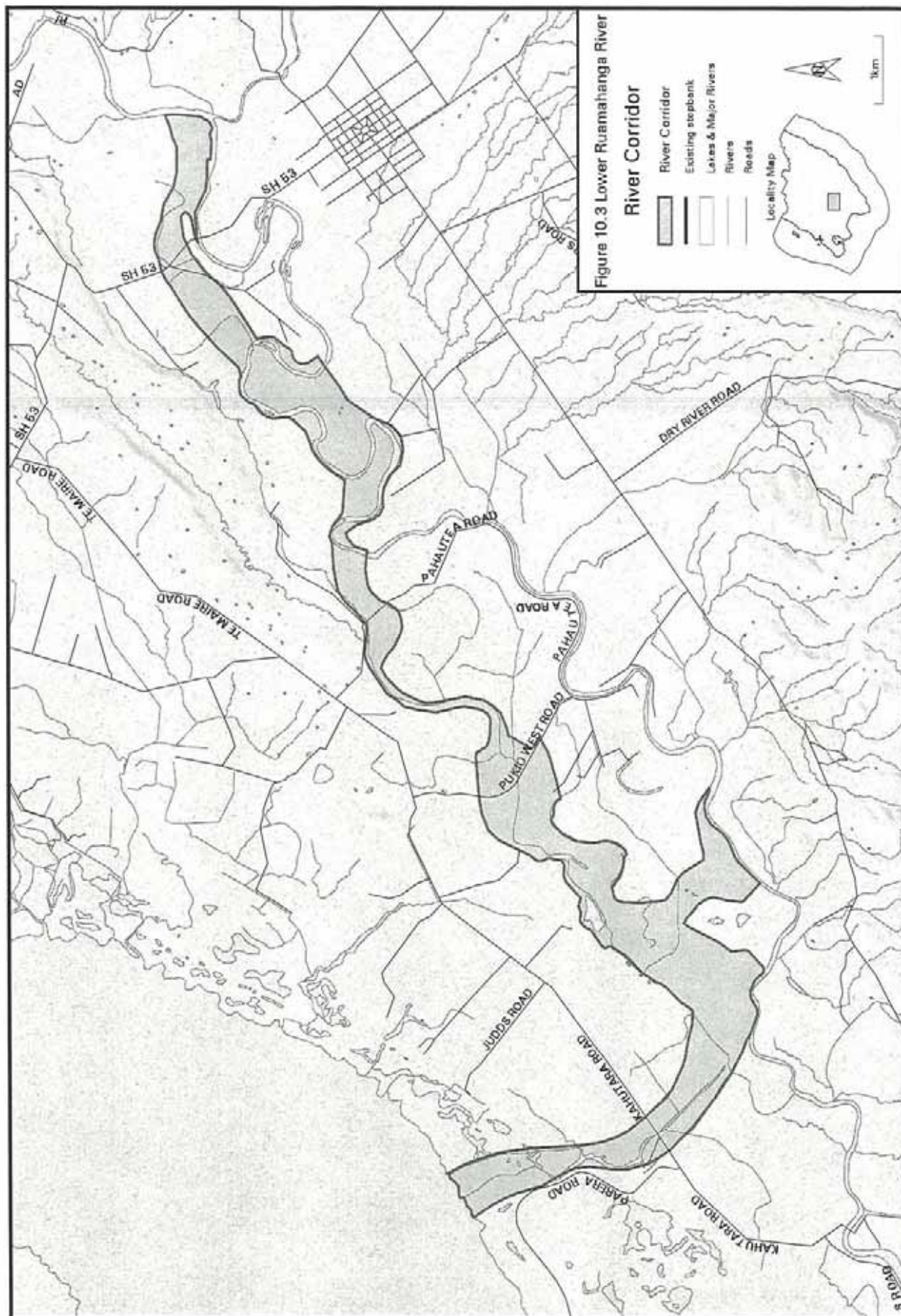
- (1) the river bed; and
- (2) the land area between any river bed and the stop bank adjacent to the river bed; and
- (3) in the following places, where there is no stopbank adjacent to the river bed;
 - (a) from Melling Bridge to Moonshine Bridge, the land area between the river bed and State Highway 2 (but not including State Highway 2), other than any residential activity area identified in the Proposed District Plan for Hutt City or the Operative District Plan for Hutt City; and
 - (b) from Pomare Bridge to the Silverstream Road Bridge, the land area between the river bed and the Eastern Hutt Road (but not including the Eastern Hutt Road); and
 - (c) from the Silverstream Road Bridge to the Stopbank at Trentham Memorial Park, a 200 metre wide area of land adjacent to the river.]

In Appendix 10, the words in square brackets were substituted for the original wording by Decisions on Plan change 1 to the Regional Freshwater Plan December 2002

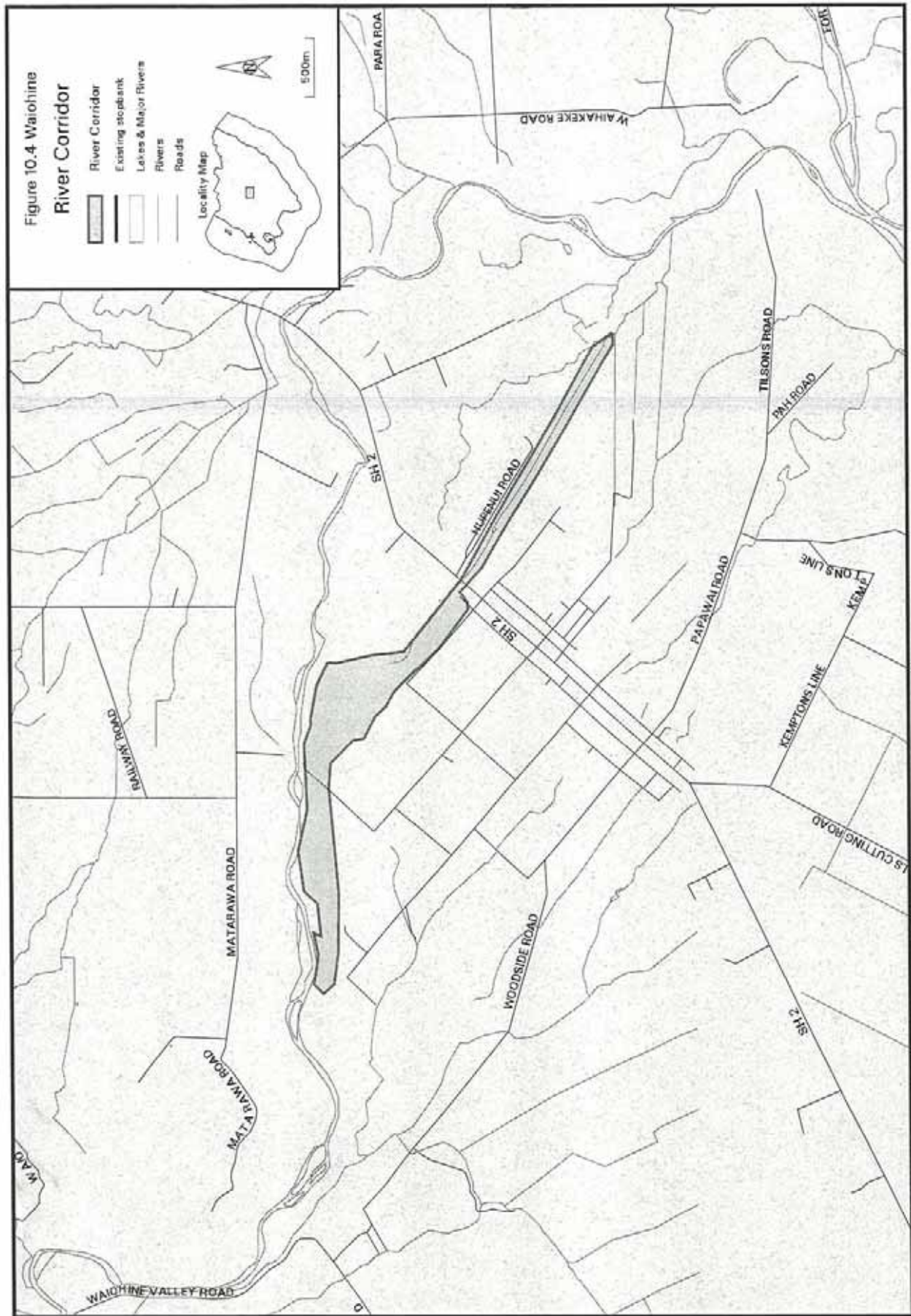




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Appendix 11

National Water Conservation (Lake Wairarapa) Order 1989

1989/51

THE NATIONAL WATER CONSERVATION (LAKE WAIRARAPA) ORDER 1989

PAUL REEVES, Governor General

ORDER IN COUNCIL

At Wellington this 6th day of March 1989

Present:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL

Pursuant to section 20D of the Water and Soil Conservation Act 1967, His Excellency the Governor-General, acting by and with the advice and consent of the Executive Council, hereby makes the following order.

ORDER

1. Title and commencement - (1) This order may be cited as the National Water Conservation (Lake Wairarapa) Order 1989.

(2) This order shall come into force on the 28th day after the date of its notification in the *Gazette*.

2. Interpretation - In this order, unless the context otherwise requires, -

“Act” means the Water and Soil Conservation Act 1967:

“Lake Wairarapa” means the more or less continuous area of water commonly known as Lake Wairarapa, including the Ruamahanga Cut-off, in Featherston County, the shoreline of which is the outer edge of the area within which the vegetation changes from predominantly aquatic to predominantly terrestrial, except at the outlet of the lake, where the shoreline is the lakeward foot of the barrage gates. For the avoidance of doubt it is declared that the shoreline adjacent to the land known as Lots 1 and 2 on Deposited Plan 4547 (Wellington Land District) is the lakeward foot of the stopbank on that land.

3. Outstanding features - It is hereby declared that the wildlife habitat created in part as a consequence of the natural fluctuations of water levels, particularly over the eastern shoreline, is an outstanding feature of Lake Wairarapa.

4. Prohibition on water rights - (1) No right to divert any water within Lake Wairarapa shall be granted under section 21 of the Act.

(2) No general authorisation to divert any water within Lake Wairarapa shall be made under section 22 of the Act.



Water rights and general authorisations - (1) No water rights shall be granted, and no general authorisation shall be made, in respect of any part of Lake Wairarapa if the effect would be to diminish significantly the outstanding wildlife habitat features of any part of the lake.

(2) Nothing in this order shall be construed as limiting the effect of the second proviso to section 21 (1) of the Act relating to the use of water for domestic needs, for the needs of animals, and for or in connection with fire-fighting purposes.

(3) Nothing in this order shall prevent the renewal of any water right or general authorisation which is current on the commencement of this order.

(4) Subject to subclause (1) of this clause, nothing in this order shall prevent the issue from time to time of water rights in connection with the barrage gates at the outlet of Lake Wairarapa.

MARIE SHROFF,
Clerk of the Executive Council

EXPLANATORY NOTE

This note is not part of the order, but is intended to indicate its general effect.

This order declares that the wildlife habitat created in part as a consequence of the natural fluctuations of water levels, particularly over the eastern shoreline, is an outstanding feature of Lake Wairarapa.

The order also includes various provisions to preserve and protect the wildlife habitat.

Issued under the authority of the Regulations Act 1936.

Date of notification in *Gazette*: 9 March 1989.

This order is administered in the Ministry for the Environment.



[Appendix 12

Section 154 of the Soil Conservation and Rivers Control Act 1941

Damage to watercourses and works

- (1) Every person who, without the written approval of the Minister or Board concerned, wilfully destroys or damages any watercourse or defence against water which is in any district or is under the control of the Minister or of any Board, or is constructed, established, or maintained under this Act by the Minister or by any Board, or who, without the written approval of the Minister or Board concerned, wilfully destroys or damages any plantation or work under the control of the Minister or of any Board, commits an offence and is liable to a fine not exceeding \$10,000.
- (2) Every person who, without the written approval of the Minister or Board concerned, destroys or damages any watercourse or defence against water which is in any district or is under the control of the Minister or of any Board or is constructed, established, or maintained under this Act by the Minister or by any Board, or who, without the written approval of the Minister or Board concerned, destroys or damages any plantation or work under the control of the Minister or of any Board, or who allows any animal which he owns or has under his control to damage or destroy any tree, shrub, or plant forming part of a defence against water, being a defence that is under the control of the Minister, or Board whether or not he has been guilty of an offence against this section, shall be liable to pay to the Minister or to the Board, as the case may be, the whole cost of restoring or repairing the damage or injury; and the amount thereof shall be recoverable as a debt due to the Minister or to the Board, as the case may be.]

Appendix 12 was inserted by Decisions on Plan change 1 to the Regional Freshwater Plan December 2002

[Appendix 13

Stopbanks listed in Wellington Regional Council River Management Scheme Asset Registers

See Rule 49A, which applies to stopbanks listed in this Appendix.

The stopbanks listed are taken from Wellington Regional Council river management scheme asset registers. The asset registers for each river management scheme in Appendix 13 are held by the Operations Department of the Wairarapa Division of the Wellington Regional Council.

The upper and lower grid references for stopbanks are given for NZMS 260 maps. In the lists of stopbanks, the left or right bank refers to the river bank looking downstream. The indicative locations of listed stopbanks are shown in Map 13, attached to this Appendix.

In the Plan, **stopbank** means a structure constructed on a floodplain, or alongside a river, designed to contain flood flows and prevent high river flows flooding onto adjacent land. Stopbanks are included within the meaning of “defence against water”, which is defined in section 3.

Listed stopbanks taken from the Lower Wairarapa Valley Development Scheme Asset Register

River	Stopbank	Upper Grid Reference (NZMS map coordinates)	Lower Grid Reference (NZMS map coordinates)
Ruamahanga (right bank)	Moiki to Tawaha	E: 2717182 N: 6001396	E: 2714198 N: 5998654
Ruamahanga (right bank)	Tawaha Floodway inlet to outlet	E: 2714980 N: 5998287	E: 2713127 N: 5997381
Ruamahanga (right bank)	Tawaha Floodway outlet to Hikinui Sill	E: 2712692 N: 5997617	E: 2710165 N: 5996318
Ruamahanga (right bank)	Hikinui Sill	E: 2710153 N: 5996314	E: 2709837 N: 5995629
Ruamahanga (right bank)	Hikinui Sill to Awaroa Sill	E: 2709833 N: 5995625	E: 2705437 N: 5990758
Ruamahanga (right bank)	Awaroa Sill	E: 2705439 N: 5990753	E: 2702701 N: 5990129

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Ruamahanga (right bank)	Awaroa Sill to Tuhitarata Bridge	E: 2702696 N: 5990124	E: 2700043 N: 5988708
Ruamahanga (right bank)	Tuhitarata Bridge to Lake Wairarapa outlet	E: 2700038 N: 5988708	E: 2693493 N: 5985228
Ruamahanga (right bank)	Lake Wairarapa outlet to Lake Onoke	E: 2693256 N: 5985134	E: 2688850 N: 5979624
Ruamahanga (left bank)	Riverside Road	E: 2717454 N: 5999643	E: 2717040 N: 5998940
Ruamahanga (left bank)	Huangarua River confluence to Waihenga Bridge	E: 2716087 N: 5997815	E: 2714657 N: 5998041
Ruamahanga (left bank)	Waihenga Bridge to Dry River confluence	E: 2714626 N: 5998041	E: 2709928 N: 5992983
Ruamahanga (left bank)	Dry River to Tuhitarata Bridge	E: 2709924 N: 5992979	E: 2699969 N: 5988578
Ruamahanga (left bank)	Tuhitarata Bridge to Paharakehe Stream	E: 2699953 N: 5988615	E: 2694164 N: 5985489
Ruamahanga (left bank)	Paharakehe Stream to Lake Onoke	E: 2694109 N: 5985443	E: 2689089 N: 5979760
Lake Onoke		E: 2688849 N: 5979619	E: 2686972 N: 5979682
East Onoke		E: 2689509 N: 5980891	E: 2689655 N: 5978616
Pounui Stream		E: 2687851 N: 5982173	E: 2687528 N: 5979670
Huangarua River	Ponatahi Road to Ruamahanga confluence – Left Bank	E: 2716948 N: 5997040	E: 2716085 N: 5997817
Huangarua River	Ponatahi Road to Ruamahanga confluence – Right Bank	E: 2717236 N: 5997145	E: 2716684 N: 5998166
Tawaha Floodway	Left Bank	E: 2714978 N: 5998286	E: 2713128 N: 5997378
Tawaha Floodway	Right Bank	E: 2714036 N: 5998525	E: 2712687 N: 5997613
River	Stopbank	Upper Grid	Lower Grid

		Reference NZMS map coordinates	Reference NZMS map coordinates
Pahautea Floodway	Left Bank	E: 2709830 N: 5995619	E: 2707088 N: 5993333
Pahautea Floodway	Right Bank	E: 2707744 N: 5995317	E: 2706958 N: 5994732
Awaroa Floodway	Left Bank	E: 2707093 N: 5993331	E: 2705430 N: 5990748
Awaroa Floodway	Right Bank	E: 2705543 N: 5993734	E: 2704894 N: 5992600
Oporua Floodway	Left Bank	E: 2702693 N: 5990127	E: 2700180 N: 5994151
Oporua Floodway	Right Bank	E: 2704181 N: 5992199	E: 2700779 N: 5994577
Paharakehe Stream (Upland Cut-off)	Lake Ferry Road to Ruamahanga confluence	E: 2698458 N: 5985423	E: 2694145 N: 5985467
Tauanui River	Ruamahanga confluence to Lake Ferry Road – Left Bank	E: 2694850 N: 5982468	E: 2693958 N: 5985303
Tauanui River	Ruamahanga confluence to Lake Ferry Road – Right Bank	E: 2694855 N: 5982522	E: 2694066 N: 5985378
Lake Wairarapa outlet	Left Bank	E: 2693828 N: 5986418	E: 2693491 N: 5985224
	Right bank	E: 2693691 N: 5986421	E: 2693251 N: 5985129
Turanganui River	Upstream of Lake Ferry Road to Lake Onoke – Left Bank	E: 2692393 N: 5979661	E: 2689504 N: 5980891
Turanganui River	Upstream of Lake Ferry Road to Lake Onoke – Right Bank	E: 2692413 N: 5979690	E: 2689438 N: 5981001
Tauherenikau River	SH53 to Lake Wairarapa – Right Bank	E: 2708145 N: 6004365	E: 2704261 N: 6000310
Tauherenikau River	SH53 to Lake Wairarapa – Left Bank	E: 2708037 N: 6004374	E: 2705228 N: 6000942

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Onoke Cut-off Drain	Western Lake Road to Ruamahanga River	E: 2689400 N: 5983554	E: 2690850 N: 5983771
Manganui Stream	Western Lake Road to Allsops Bay	E: 2689490 N: 5986388	E: 2690111 N: 5987101
Abbots Creek	Lake Domain Road to Lake Wairarapa – Left Bank	E: 2704048 N: 6003943	E: 2702388 N: 6002901
Abbots Creek	Lake Domain Road to Lake Wairarapa – Right Bank	E: 2704110 N: 6004224	E: 2702326 N: 6002901
Donalds Creek	Flood detention dam	E: 2705895 N: 6007543	E: 2706313 N: 6007570
Donalds Creek	Harrison Street to SH53	E: 2706053 N: 6007402	E: 2706000 N: 6006598

Listed stopbanks taken from the Waiohine & Mangatarere River Management Scheme Asset Registers (NZMS map coordinates)

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Waiohine	Vandenbosch	E: 2711712 N: 6014987	E: 2711505 N: 6014747
Waiohine	Moroa	E: 2711656 N: 6013738	E: 2711879 N: 6013649
Waiohine	Greytown	E: 2712520 N: 6013153	E: 2713825 N: 6013197
Waiohine	Upstream Kuratawhiti Street	E: 2715127 N: 6013276	E: 2715878 N: 6013345
Waiohine	Kuratawhiti Street to SH2	E: 2715960 N: 6013485	E: 2719655 N: 6013494
Waiohine	Platform Farm to SH2	E: 2716591 N: 6013076	E: 2719612 N: 6013389
Waiohine	SH2 to Ahikouka	E: 2719593 N: 6013345	E: 2720266 N: 6012046
Waiohine	Papawai	E: 2720385 N: 6010070	E: 2720968 N: 6009426

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Waiohine	Taumata to Ruamahanga confluence	E: 2720822 N: 6009657	E: 2720610 N: 6008676
Mangatarere	Upstream SH2 to Waiohine confluence – Left Bank	E: 2719648 N: 6014051	E: 2719982 N: 6013157
Mangatarere	Upstream SH2 to Waiohine confluence – Right Bank	E: 2719617 N: 6014018	E: 2719880 N: 6013697
Beef Creek	Upstream SH2 to Waiohine confluence – Left Bank	E: 2719578 N: 6013712	E: 2719735 N: 6013680
Beef Creek	Upstream SH2 to Waiohine confluence – Right Bank	E: 2719567 N: 6013685	E: 2719916 N: 6013474
Apple Barrel Floodway	Upstream SH2 – Left bank	E: 2717295 N: 6012146	E: 2717474 N: 6011998
	Upstream SH2 – Right Bank	E: 2716894 N: 6012140	E: 2717449 N: 6011962
Mangatarere	Hodders	E: 2720564 N: 6017625	E: 2720373 N: 6017494

Listed stopbanks taken from the Waingawa River Management Scheme Asset Register (NZMS map coordinates)

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Waingawa	Wilkinson	E: 2726781 N: 6028062	E: 2726674 N: 6027926
Waingawa	Totara Drive	E: 2726827 N: 6027913	E: 2727227 N: 6027333
Waingawa	Upper Manaia Road	E: 2727782 N: 6026653	E: 2728199 N: 6026369
Waingawa	Rail Bridge to SH2 – Left bank	E: 2729499 N: 6023907	E: 2729661 N: 6023682

Listed stopbanks taken from the Waipoua River Management Scheme Asset Register (NZMS map coordinates)

River	Stopbank	Upper Grid Reference (NZMS map coordinates)	Lower Grid Reference (NZMS map coordinates)
Waipoua	Payton to Paeirau Road – Left Bank	E: 2731344 N: 6029183	E: 2732210 N: 6028280
Waipoua	Bryant to Paeirau Road – Right Bank	E: 2730910 N: 6029214	E: 2732444 N: 6028168
Waipoua	Napier – Left Bank	E: 2732955 N: 6028045	E: 2733278 N: 6027527
Waipoua	Akura – Right Bank	E: 2732723 N: 6028103	E: 2732984 N: 6027538
Waipoua	Mawley Park to Columbo Road – Left Bank	E: 2732723 N: 6028103	E: 2732723 N: 6028103
Waipoua	QE2 Park to Columbo Road – Right Bank	E: 2734658 N: 6025413	E: 2734935 N: 6024656
Waipoua	Matahiwi Road to Waipoua confluence	E: 2731567 N: 6028294	E: 2731785 N: 6028239

Listed stopbanks taken from the Upper Ruamahanga River Management Scheme Asset Register (NZMS map coordinates)

River	Stopbank	Upper Grid Reference NZMS map coordinates	Lower Grid Reference NZMS map coordinates
Ruamahanga	Rathkeale	E: 2735549 N: 6031360	E: 2736708 N: 6030694
Ruamahanga	Te Ore Ore	E: 2737148 N: 6025754	E: 2736520 N: 6025175
Ruamahanga	Masterton District Council Landfill to Oxidation Ponds	E: 2735178 N: 6022996	E: 2736062 N: 6020577
Ruamahanga	Te Whiti	E: 2733425 N: 6013878	E: 2731416 N: 6013780
Ruamahanga	Gladstone – Right bank (McNab)	E: 2730182 N: 6011294	E: 2729342 N: 6011461
Ruamahanga	Ahiaruhe	E: 2729274 N: 6011153	E: 2727650 N: 6011987]

Appendix 13 was inserted by Decisions on Plan change 1 to the Regional Freshwater Plan December 2002