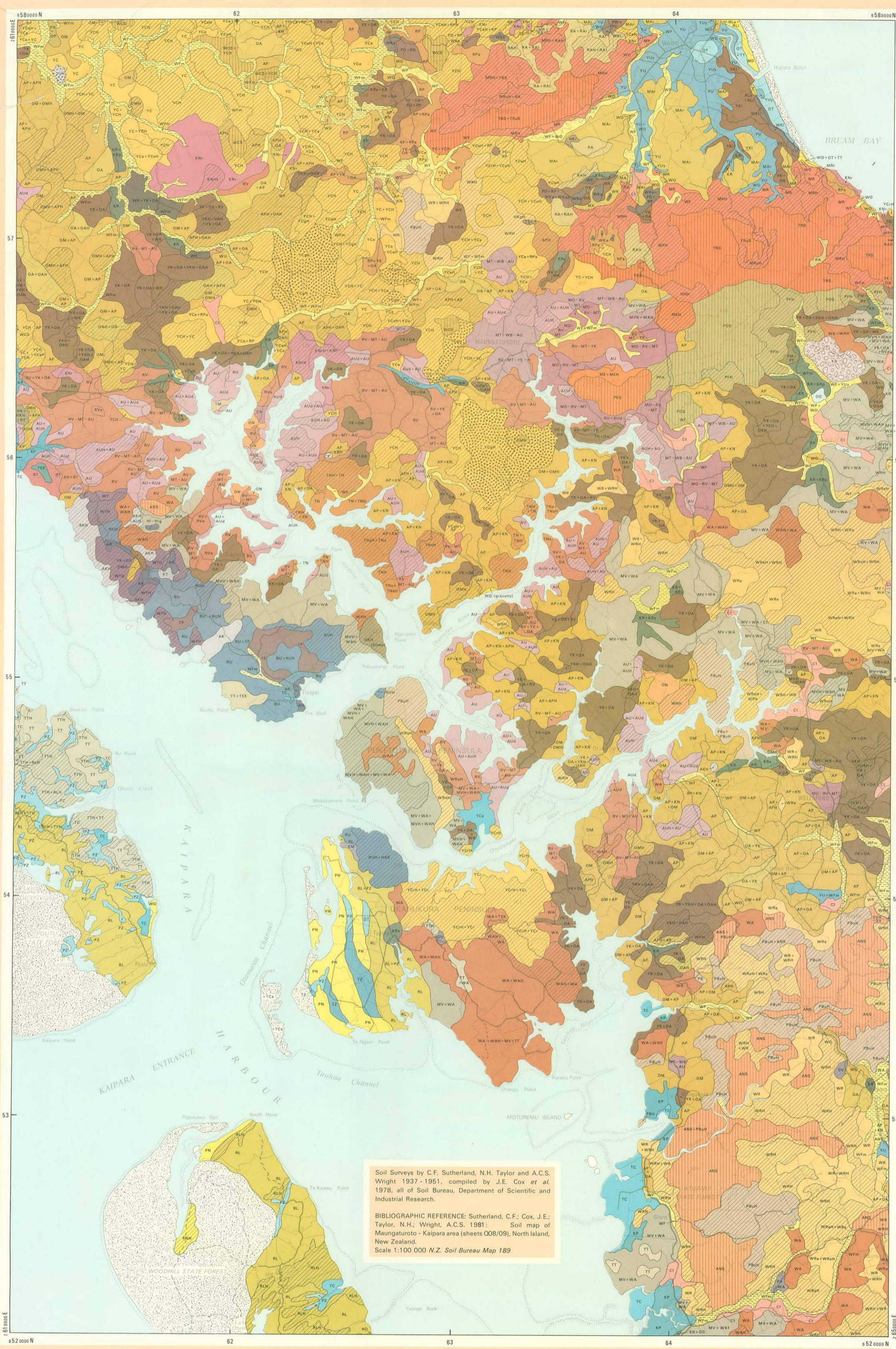


SOILS.
Maung/Kaipara
Q08/09

Re-Order Filemaster "D"
SELF-ADHESIVE PLAN HANGER
Patent Number 137841

MAUNGATUROTO-KAIPARA



Soil Surveys by C.F. Sutherland, N.H. Taylor and A.C.S. Wright 1937-1951, compiled by J.E. Cox et al. 1978, all of Soil Bureau, Department of Scientific and Industrial Research.

BIBLIOGRAPHIC REFERENCE: Sutherland, C.F.; Cox, J.E.; Taylor, N.H.; Wright, A.C.S. 1981. Soil map of Maungaturoto - Kaipara area (sheets Q08/09), North Island, New Zealand. Scale 1:100 000 N.Z. Soil Bureau Map 189

LEGEND OF SOIL MAPPING UNITS ARRANGED PHYSIOGRAPHICALLY

- | | |
|--|--|
| <p>Soils of the Flood Plains</p> <ul style="list-style-type: none"> wf well to moderately well drained wf-1 Whakapara silt loam and clay loam wf-2 Whakapara mottled clay loam wf-3 Mangakahia mottled clay loam <p>Soils of the Estuarine Flats and Former Lake Beds</p> <ul style="list-style-type: none"> imperfectly to very poorly drained YCS Takahiwai sand TC Takahiwai clay TZ Tawharanui sand KV Kaipara clay and clay loam <p>Soils of the Coastal Sand Dune Complex</p> <ul style="list-style-type: none"> excessively to somewhat excessively drained MD Marsden sand PN Pinaki sand WD Whananaki sand well to moderately well drained HO Houhora sand RL Red Hill sand RLS Red Hill sandy loam RLI Red Hill sandy clay loam TT Tangitiki sandy loam and sand imperfectly to very poorly drained OT One Tree Point peaty sand TK Te Kopuru sand PZ Parore peaty sandy loam <p>Soils of the Undulating Terraces and Lowlands</p> <ul style="list-style-type: none"> well to moderately well drained KM Kohumaru clay WO Whareora clay loam WCI Otiao - Waiemata - Albany - Coatesville - Otonga complex imperfectly to very poorly drained WU Waipuna clay KRS Kara sandy loam KR Kara silt loam KRP Kara silt loam with pan KSL Kara peaty silt loam KCA Kara clay OG Otonga peaty clay loam WU Waipou clay YU Waipou clay YUW Waipou peaty silt loam and peaty clay <p>Soils of the Rolling and Hilly Land</p> <ul style="list-style-type: none"> well to moderately well drained Kiripaka bouldery silt loam RT Rutangata friable clay Taktu gravelly clay loam KU Katu clay loam WT Whatoro clay TM Taumata clay loam TNS Tanoa sandy clay loam TNSA Tanoa sandy loam and sandy clay loam MR Marua brown clay loam MR Marua clay loam MR Marua light brown clay loam WR Whanganui clay loam PA Parau clay loam DV Dome Valley clay RU Rangiora clay AW Awapuku clay loam AR Aranga clay MC Maungarei clay loam MB Maungarei clay ON Omanaia clay loam PV Puketua sandy clay WU Waioira gravelly sandy loam WU Waioira clay loam | <p>Soils of the Rolling and Hilly Land (cont.)</p> <ul style="list-style-type: none"> well to moderately well drained (cont.) OM Omu clay loam WA Warkworth clay and sandy clay loam imperfectly to very poorly drained WH Whangaropu clay WU Waioira brown clay loam WU Waioira clay KN Konoti clay loam KN Konoti clay AP Aponga clay RA Rangiora clay, clay loam, and silty clay loam RA Rangiora silty clay loam RP Riponui clay and sandy clay RP Riponui sandy clay loam and sandy clay loam PU Puera clay MA Mata clay MA Mata brownish clay PD Puketitoti sandy loam MV Mahurangi fine sandy loam HU Hiri clay HU Hiri gravelly clay WB Whaka clay loam WB Whaka clay loam PL Puhoi clay loam PL Puhoi light brown clay loam OK Okaka clay and silty clay PI Piroa clay PU Pukeanga sandy loam OT Otaika silt loam WU Waikare silty clay WU Waikare silt loam TR Tinopai sandy loam and sandy clay HU Hukerenui gravelly silt loam HU Hukerenui silt loam HU Hukerenui silt loam with yellow subsoil PU Pukemaru silt loam MT Motatau clay CA Dairy Flat - Motatau - Waikare - Wharekōhe - Otiao complex RV Rockvale clay RV Rockvale clay with coarse-structured subsoil WU Wharekōhe sandy loam WU Wharekōhe sandy loam with pan WU Wharekōhe fine sandy loam, ash variant WU Wharekōhe fine sandy loam WU Wharekōhe silt loam MC Maungaturoto clay AR Arapohu clay AD Arapohu deep clay <p>Soils of the Steep Land</p> <ul style="list-style-type: none"> well to moderately well drained HU Huia steepland soils, stony clay and stony silt loam AT Atuanui steepland soils, clay loam WC White Cone steepland soils, sandy clay loam TR Te Ranga steepland soils, clay loam and stony clay loam TR Te Ranga steepland soils, light brown clay loam and stony clay loam PR Parakiore steepland soils, stony clay loam imperfectly to very poorly drained PK Pukekaroro steepland soils, clay loam DR Drifting and/or recently stabilised sands WS Wet swamps (not investigated) HS Hill soils SS Steepland soils MS Mottled soils GS Gravelly soils BS Boulderly soils SB Soil boundary |
|--|--|

LEGEND OF SOIL TAXONOMIC UNITS ARRANGED PEDOLOGICALLY

- | | |
|---|---|
| <p>Yellow-brown earths and related steepland soils</p> <ul style="list-style-type: none"> weakly to moderately leached Whaka series Puhoi series Taumata series Whiraki series Omanaia series Atuanui series moderately to strongly leached Whareora series Whanganui series Waioira series Omu series Aponga series Tanoa series Marua series Maungarei series White Cone series Te Ranga series Parakiore series strongly leached to weakly podzolised Waipuna series Rockvale series Warkworth series Riponui series Puketua series Mata series Okaka series Puera series Rangiora series Piroa series Pukekaroro series | <p>Yellow-brown sands</p> <ul style="list-style-type: none"> weakly weathered weakly to moderately leached Pinaki series Marsden series Whananaki series moderately weathered moderately to strongly leached Houhora series Red Hill series <p>Yellow-brown loams and podzolised yellow-brown loams</p> <ul style="list-style-type: none"> strongly leached Otao series weakly podzolised Waiemata series <p>Brown granular loams and clays and related steepland soils</p> <ul style="list-style-type: none"> weakly to moderately leached Taktu series Awapuku series Katu series Huia series moderately to strongly leached Kohumaru series Dome Valley series Parau series Whatoro series strongly to very strongly leached Rangiora series Hiri series Aranga series |
|---|---|

SHEET INDEX

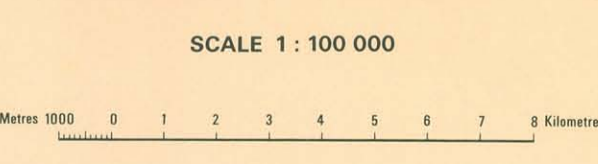


Soil Information
See Soil Bureau Map Nos for adjacent sheets.

COMPILATION NOTE: The base map is compiled from the NZMS 1 series (1:63360) dated: 1968, 69, 71, 72, 73, 74.

EDITION 1 1981

NEW ZEALAND LAND INVENTORY



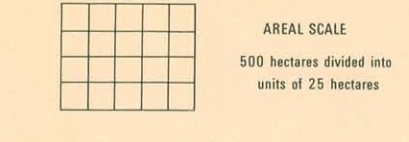
- REFERENCE**
- | | |
|---|---|
| <ul style="list-style-type: none"> WHANGAREI Cities KAIKŌHE Towns Houhora Settlements State highways Other roads Tracks Railways | <ul style="list-style-type: none"> Rivers and streams Trig stations Vacua (separate parcels under same ownership) Land holding boundaries Sand and mud |
|---|---|

This map is one of a series. Themes mapped in this study are: Land Tenure and Holding, Rock Types, Soils, Existing Land Use, Wildlife, Indigenous Forest.

HEIGHTS ARE IN METRES ABOVE MEAN SEA LEVEL

This map is drawn on the New Zealand Map Grid Projection, a minimum-error conformal projection. The grid is the New Zealand Map Grid, showing coordinates in metres in terms of the Geodetic Datum 1949, based on the International (Hayford) Spheroid.

The smallest area mapped is generally not less than 10 hectares. Calculation of areas from this map should be within the limitations of scale. For example, individual areas should be rounded to the nearest 5 hectares. Accumulated areas should be rounded to the nearest 50 hectares.



Published by the Department of Lands & Survey, New Zealand, under the authority of W.N. Hawkey, Surveyor General.

P.D. Hasselberg, Government Printer, Wellington, New Zealand.

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