



# SOIL REPORT

Environment Bay of Plenty

Report generated: 17-Mar-2011 from <http://smap.landcareresearch.co.nz>

This information sheet describes the typical average properties of the specified soil to a depth of 1 metre, and should not be the primary source of data when making land use decisions on individual farms and paddocks.

## Ohope sand (Kyra\_9.1)

### Overview

Family	Kairakif
Soil classification	Sandy Raw Soils
Soil profile material	Stoneless soil
Rock class of stones/rocks	Not Applicable
Rock origin of fine earth	From Hard Sandstone Rock
Parent material origin	Sand
Permeability	Rapid
Profile texture group	Sandy
Sibling depth	Deep
Topsoil stones	Stoneless
Texture	Sand
Drainage	Well drained
Sibling Misc	

Functional Horizon	Thickness	Stones	Clay	Sand
Sandy Loose	5 - 10 cm	0 %	0 %	90 - 95 %
Sandy Loose	90 - 95 cm	0 %	0 %	90 - 95 %

### About this publication

- This information sheet describes the *typical average properties* of the specified soil.
- It is a summary of information obtained from profiles generated during soil surveys.
- The surveys were conducted in good faith by trained staff within time and budgetary limits.
- No warranties are given as to the accuracy or completeness of this information.
- Advice should be sought from soil and land use experts before making decisions on individual farms and paddocks.
- No liability is accepted for any loss or damage arising from the use or interpretation of this information.





**Ohope sand (Kyra\_9.1)**

**Key physical properties**

Potential rooting depth	Unlimited
Rooting barrier	No significant barrier within 1 m
Topsoil stoniness	Stoneless
Depth to stony layer class	No significant stony layer within 1 m
Drainage class	Well drained
Aeration in root zone	Unlimited
Permeability profile	Rapid
Depth to slowly permeable horizon	No slowly permeable horizon
Permeability of slowest horizon	Rapid (> 72 mm/h)
Profile total available water	0 - 1000mm Moderate (92 mm)
Profile readily available water	0 - 1000mm Moderate (65 mm)
Total available water	0 - 300mm Low (29 mm)
Readily available water	0 - 300mm Low (23 mm)
Fine earth dry bulk density, topsoil	1.18 (g/cm <sup>3</sup> )
Fine earth dry bulk density, subsoil	1.42 (g/cm <sup>3</sup> )
Depth to hard rock	No hard rock within 1 m
Depth to soft rock	No soft rock within 1 m
Structural vulnerability	ERROR (SVI = 1.03)

**Key chemical properties**

Topsoil organic matter	0.5 - 1.7%
Topsoil organic carbon	0.3 - 1.0%
Topsoil P retention	Very Low (3%)

**Additional factors to consider in choice of crop and irrigation management practices**

Erosion vulnerability	Severe
Water logging vulnerability - irrigated	Very low
Structural vulnerability	ERROR (SVI = 1.03)
Drought vulnerability - not irrigated	Moderate
Topsoil stoniness	Stoneless



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