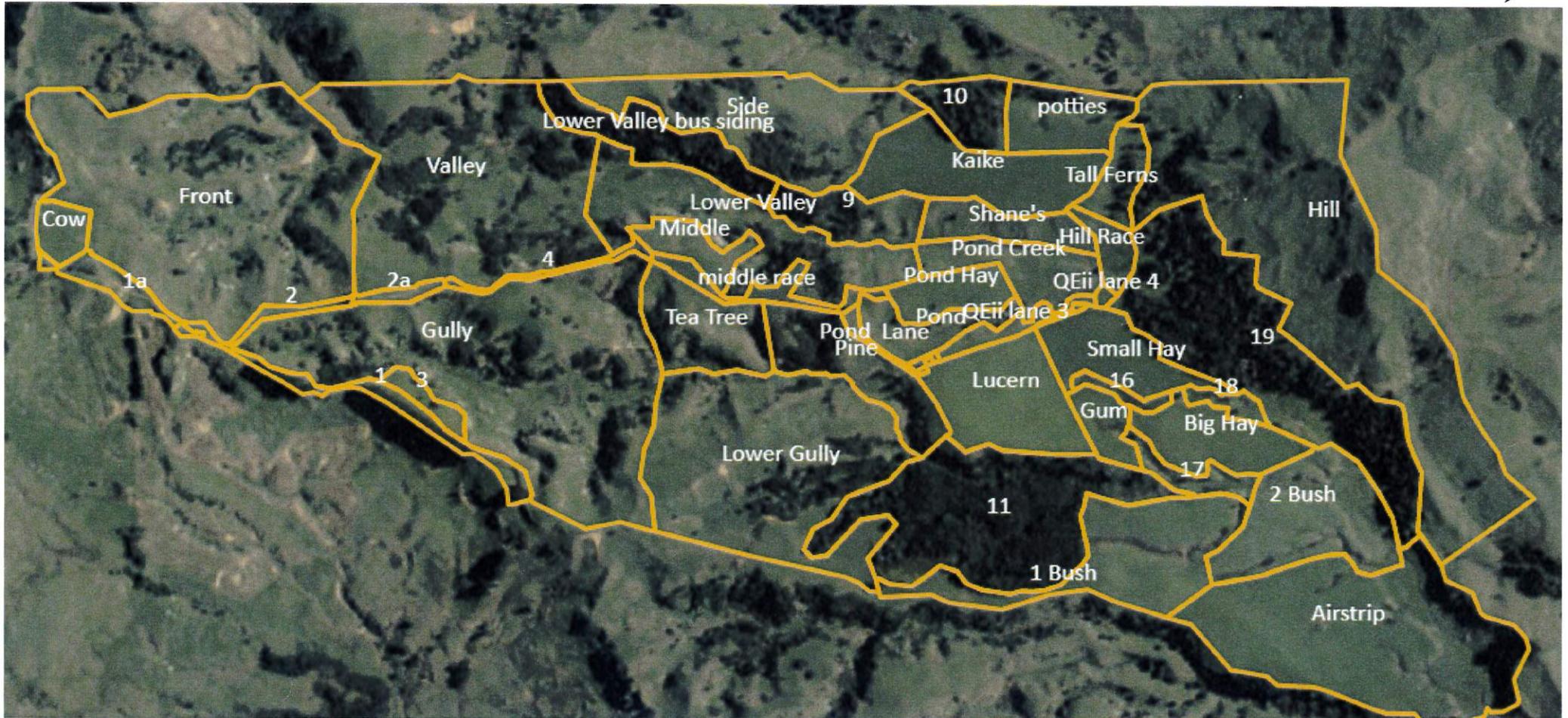
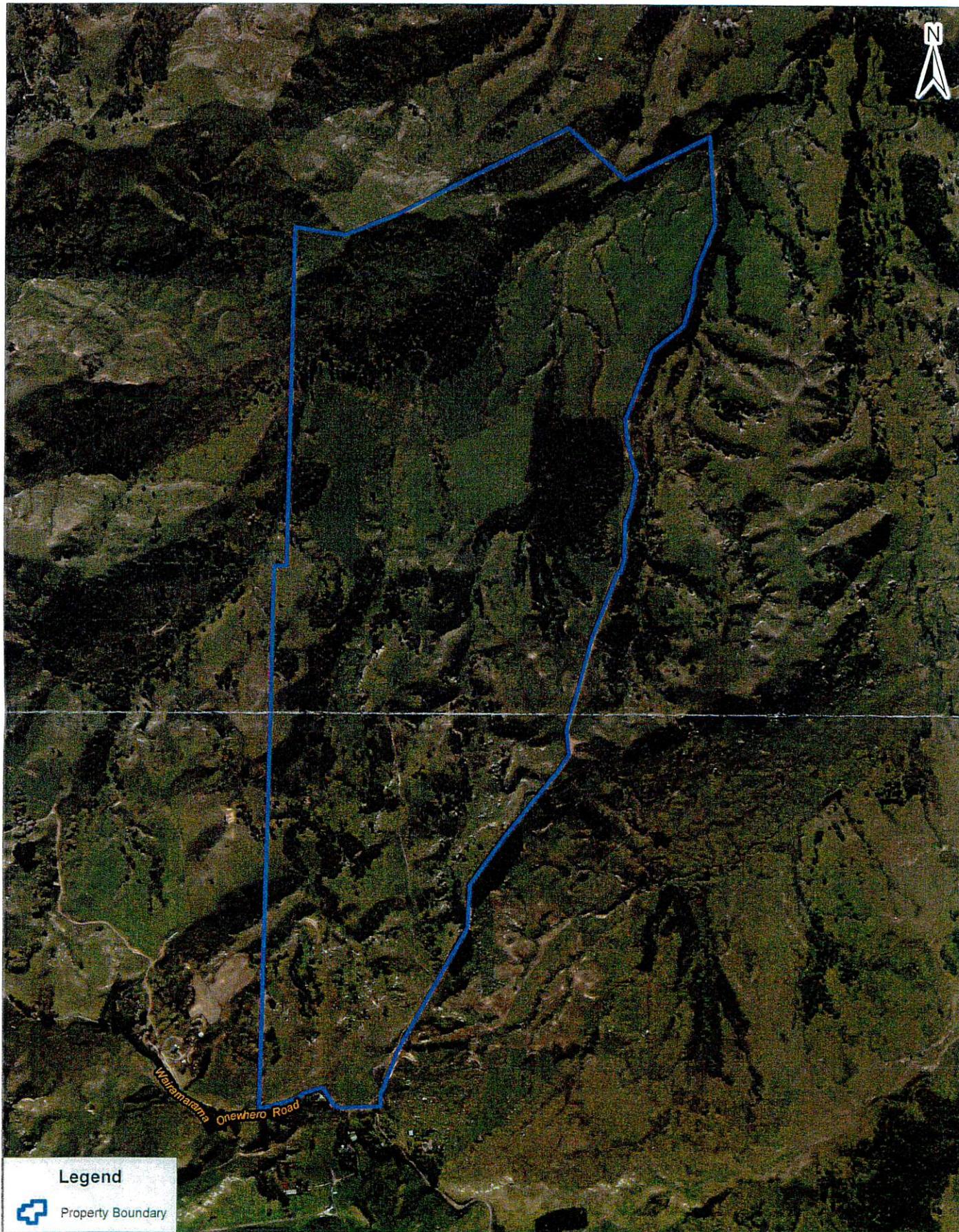


Edgar Henson LUC



Kaike Farm - 21/12/17 5:10 PM © Farm IQ Systems Limited 2017
Farm - Total: 208.24 ha, Effective: 208.24 ha, Cultivable: 208.24 ha



Legend

 Property Boundary

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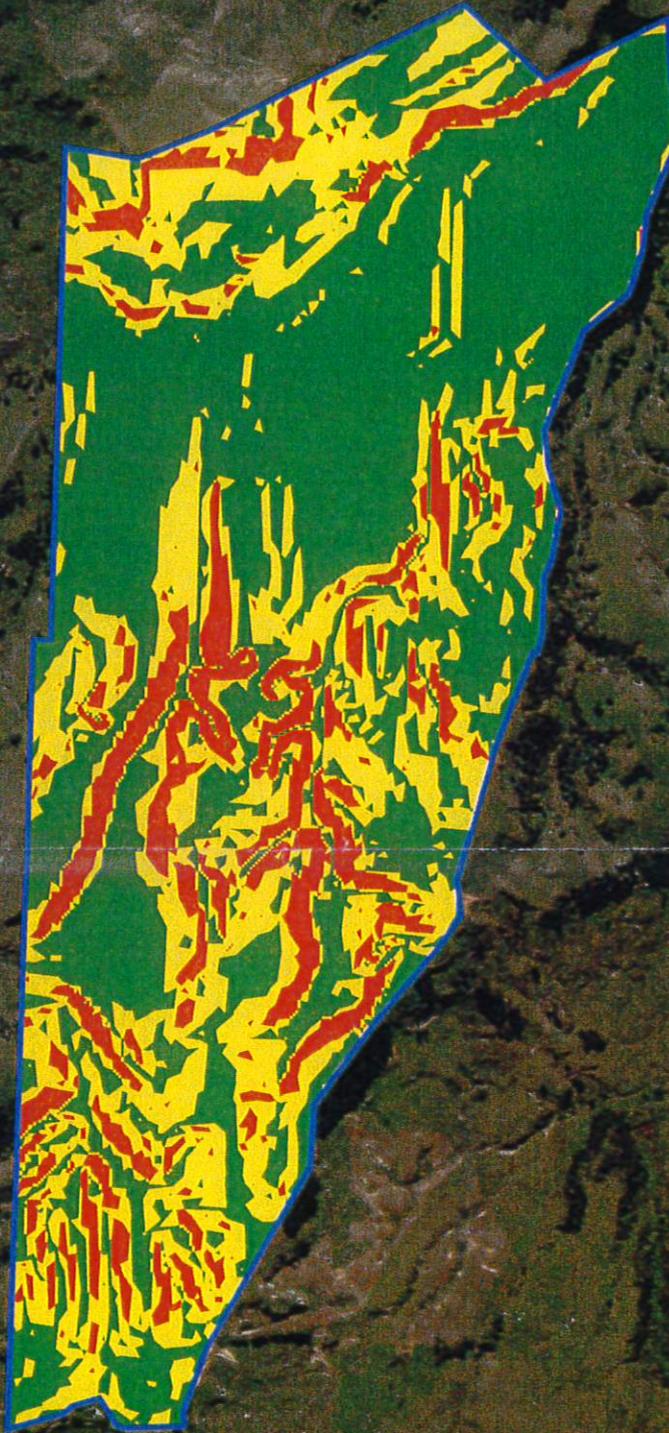


Scale at A3
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Created by: HCE
 Date: 16/03/2018
 Version: 1
 Job No.: REQ131887
 File: REQ131887_Several
 Farm Maps DonH Aerial.mxd



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Legend

Slope (Degrees)

- >0 - 15
- 15 - 25
- 25 - 77.4 (Max Slope)

Property Boundary

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Legend

- 3e 1
- 6e 3
- Property Boundary
- 6e 9
- 6e 1

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Land use capability classification

Quick recap

The rural issues working group specified some land use classification codes (eg, 6e, 7e and 8) in the recommended specification of interventions in rural areas. The Committee asked for some definition of these classes and an indication of their extent in Te Awarua-o-Porirua Whaitua. This note provides that information.

Decision needed from Committee now

This is presented for the Committee to note.

You may seek clarification or comments on this from Brent through email or phone (brent.king@gw.govt.nz / 021 657 695).

The land use capability classification¹

The land use capability (LUC) classification is a system of arranging different kinds of land according to its capacity to support long-term sustained production after taking into account the physical limitations of the land. The classification was first devised in 1969 with two revisions since in 1971 and 2009.

The LUC classification has three components (Figure 1), which are briefly outlined below.

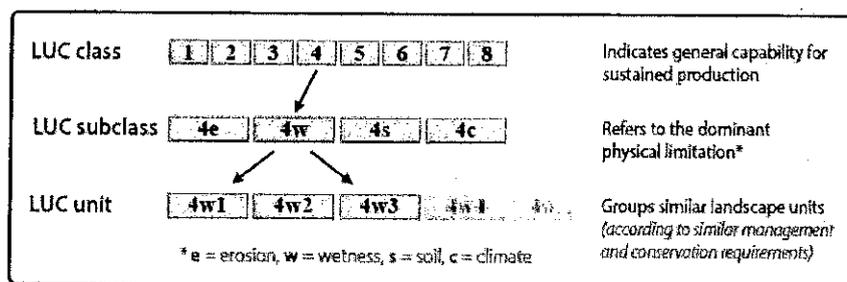


Figure 1: Components of the Land Use Capability Classification

Land use capability class

The LUC Class is the broadest grouping of the classification giving a broad assessment of the land's capability and versatility for use by different types of agricultural production given its physical limitations (Figure 2).

¹ Lynn IH, Manderson AK, Page MJ, Harmsworth GR, Eyles GO, Douglas GB, Mackay AD, Newsome PJF 2009. Land use capability survey handbook – a New Zealand handbook for the classification of land 3rd ed. Hamilton, AgResearch; Lincoln, Landcare Research; Lower Hutt, GNS Science. Retrieved from http://www.landcareresearch.co.nz/data/assets/pdf_file/0017/50048/luc_handbook.pdf 13 March 2017

The higher the number, the more limitation there is to use. Class 8 land is generally unsuitable for production, while classes 6 and 7 are generally suitable (to a greater or lesser degree) for pastoral or forestry uses. Lower number classes are generally suitable for a larger range of land uses, such as cropping and horticulture, as well as pastoral or forestry.

Increasing limitations to use ↓	LUC Class	Arable cropping suitability†	Pastoral grazing suitability	Production forestry suitability	General suitability	↓ Decreasing versatility of use
	1	High ↓ Low	High ↓ Low	High ↓ Low	Multiple use land	
	2					
	3					
	4					
	5	Unsuitable	Low	Low	Pastoral or forestry land	
	6					
	7					
	8		Unsuitable	Unsuitable	Conservation land	

Figure 2: Summary of suitability of LUC classes for different uses

Land use Capability Subclass

The LUC subclass denotes the main physical limitation or hazard for a piece of land. Four limitations are recognised:

‘e’: erodibility (eg, mass movement, gully/rill, wind)

‘w’: wetness (eg, high water table, slow drainage, flooding)

‘s’: soil (eg, shallow soil, stoniness, water holding capacity)

‘c’: climate (eg, dry, wet, frost/snow)

Land use capability unit

The LUC unit is the most detailed level of classification and allows for subclasses to be further classified based on the kind and intensity of management or conservation treatment required.

The LUC units are ordered in decreasing versatility/increasing degree of limitation (eg, ‘6e4’ has less versatility and requires more intensive conservation than ‘6e1’).

Use of Land Use Capability Classification in scenario design and testing

The rural issues working group has recommended we make use of the first two components of the LUC (class and subclass) to identify areas where management will be required, in particular, class 8 land and classes 7 and 6 land that is mainly limited by susceptibility to erosion (7e and 6e).

These areas in the Te Awarua-o-Porirua Whaitua are illustrated in red, orange and yellow in figure 3 over the page and table 1 below.