

# Crown Pastoral Land Tenure Review

# Lease name : LONG GULLY

# Lease number: PO 055

# Conservation Resources Report - Part 2

As part of the process of Tenure Review, advice on significant inherent values within the pastoral lease is provided by Department of Conservation officials in the form of a Conservation Resources Report. This report is the result of outdoor survey and inspection. It is a key piece of information for the development of a preliminary consultation document.

Note: Plans which form part of the Conservation Resources Report are published separately.

These documents are all released under the Official information Act 1982.

## December

## 4.3 PHOTOGRAPHS

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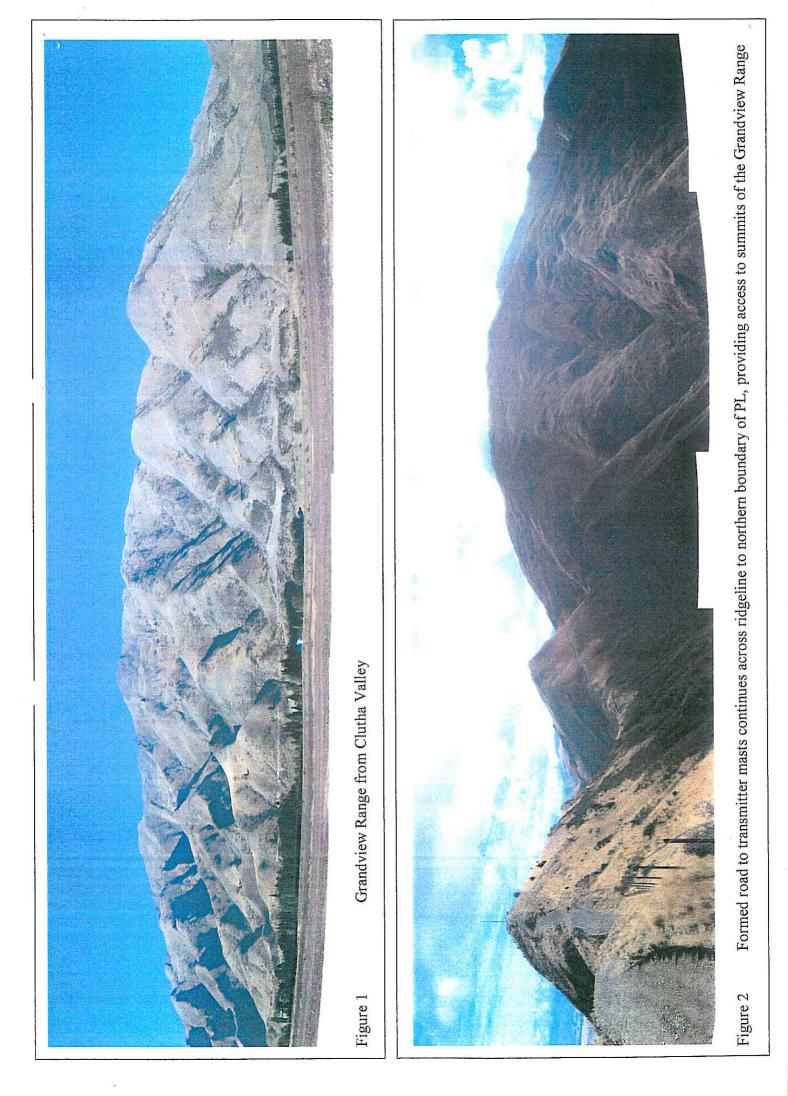
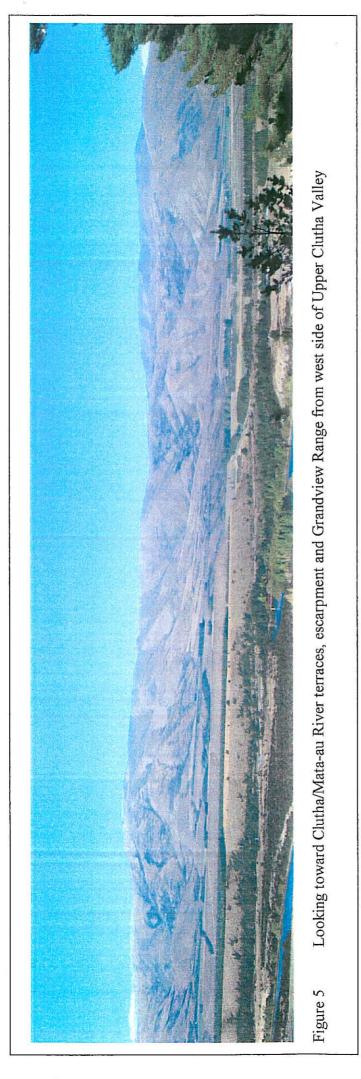


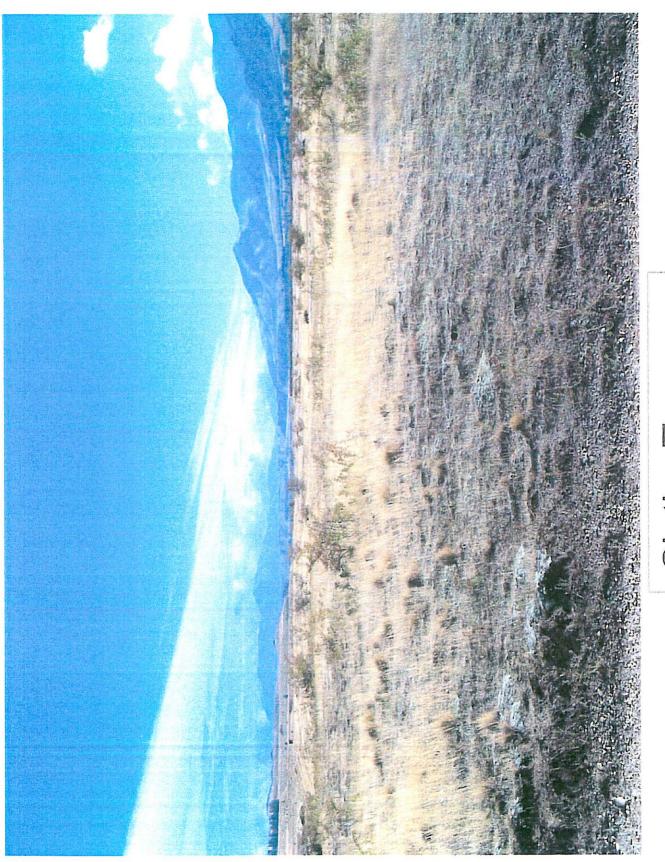




Figure 4 Long Gully looking towards Lake Dunstan







4.4 APPENDICES

## APPENDIX ONE Long Gully Station - Native plant species list

Ferns	Habitat abundance	
Asplenium flabellifolium	D	
Asplenium richardii	R	o*
Blechnum penna-marina	R	o* *
Hypolepis millefolium	T	o*
Polystichum vestitum	Ru	0* -
Pteridium esculentum	S	0* 
	Т	0*
Trees and shrubs		
Carmichaelia crassicaule	Т	o*
Carmichaelia petriei	T,S,L	a*
Carmichaelia vexillata	-,-,- T	°*
Coprosma ciliata	Ru	o*
Coprosma crassifolia	S	o*
Coprosma aff. parviflora	S	o*
Coprosma petriei	T,C	č*
Coprosma propinqua	S,L	- f*
Discaria toumatou	S,T	a *
Gaultheria depressa var. novae-zelandiae	-,- T	° *
	_	-
Hebe buchananii	R	o *
Hebe pimeleoides var. rupestris	R	o*
Hebe rakaiensis	Ru	o *
Hebe salicifolia	S	o*
Helichrysum aggregatum	S	lf *
Kelleria dieffenbachii	Т	0*
Kelleria villosa	Т	0*
Kunzea ericoides	S,L	f*
Leptospermum scoparium	#	0
Leucopogon fraseri var. fraseri	T,C	a *
Leucopogon fraseri var. muscosa	L	с*
Leucopogon suaveolens	Т	o *
Melicytus aff. alpinus	T,S,L	0*
Muehlenbeckia axillaris	T,L	0*
Myrsine nummularia	R	0*
Olearia cymbifolia Olearia odorata	R	0*
	S	0*
Ozothamnus vauvilliersii Bimelez amerikila	T	0*
Pimelea oreophila Pimelea multivaria	T,L	0*
Pimelea pulvinaris	L	с*
Pimelea traversii Sophora microphylla	R	o*
	S	0 *
Climbers & vines		
Clematis quadribracteolata/marata	S	o *
Muehlenbeckia australis	S	lc *
Muehlenbeckia complexa	S	f*
Muehlenbeckia ephedroides	#	0
Rubus schmidelioides	S	c*
Herbs		
Acaena anserinifolia	a	
псисти инэегтијони	S	o *

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Annual to the second		
Acaena buchananii	Т	0*
Acaena caesiiglauca	Т	0*
Acaena novae-zelandiae	Т	0
Aciphylla aurea	Т	0*
Anaphalioides bellidioides	Т	o *
Anisotome aromatica	Т	o*
Brachyglottis haastii	R	c*
Celmisia gracilenta	Т	c*
Celmisia lyallii	T	• •*
Colobanthus brevisepalus	Ċ,L	c*
Colobanthus strictus	C, L	0*
Dichondra repens	Š	0*
Epilobium alsinoides	Ť	0*
Epilobium melanocaulon	L	lc *
Epilobium rosulatum?	Ľ	
Euchiton audax	L T,L	o* *
Geranium microphyllum		o *
Geranium sessiliflorum	Т	o *
Helichrysum filicaule	T,C,L	С *
Lagenifera cuneata	T	0*
	T	0*
Leptinella perpusilla/serrulata	С	o *
Oreomyrrhis colensoi	Т	o *
Oreomyrrhis ramosa	S	o *
Oreomyrrhis rigida	С	0 <b>*</b>
Oxalis exilis	S	с*
Ranunculus gracilipes	Т	o *
Ranunculus multiscapus	Т	o *
Raoulia australis	C,L	a *
Raoulia beauverdii	C,L	f*
Raoulia parkii	C,L	c *
Raoulia subsericea	Т	с*
Scleranthus uniflorus	T,C,L	o *
Senecio quadridentatus	R	0*
Stackhousia minima	Т	o *
Stellaria gracilenta	R,C,L	c*
Urtica aspera?	S	o *
Viola cunninghamii	Т	o *
Vittadinia australis	C,L	o *
Wahlenbergia albomarginata	T,L	o *
Wahlenbergia gracilis/colensoi	Ŕ	o *
Monocots		
Grasses		
Chionochloa rigida	Т	f*
Festuca novae-zelandiae	Ť	• a *
Poa cita	Ť	°*
Poa colensoi	Ť	f*
Poa maniototo	Ċ,L	.*
Rytidosperma gracile	S.	0*
Rytidosperma pumilum	T,L	- *
Trisetum tenellum	T,L T	- *
	I	0*
Sedges		
Carex breviculmis		
Carex bichananii	T,L	с*
Carex comans	W	0
	Т	0
Carex flagellifera	Т	o *
Carex inopinata	R	0*
Carex secta	W	0
Carex wakatipu	Т	o *

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Eleocharis acuta	W	0
Uncinia caespitosa?	Т	o*
Uncinia sinclairii?	Ť	o*
Other moncots		
Bulbinella angustifolia	Т	o*
Luzula banksiana var. migrata	R	c*
Luzula rufa var. rufa	Т	0*
Luzula rufa var. albicomans	Ĺ	o*
Luzula ulophylla	C,L	o*
Prasophyllum colensoi	T T	o*
Thelymitra sp.	Ĺ	0*

#### Habitat

T-1 T

- T Tussockland
- S Shrubland
- R Rock outcrop
- Ru Rubblefield
- С
- Cushionfield and sunny depleted slopes Lower terraces adjacent to the Clutha /Mata-au River L
- W Wet areas
- # Riverside terrace outside of the property boundary

#### Abundance

- Α abundant
- F frequent
- С common
- 0 occasional
- U uncommon
- L local

\* found within identified area

B. D. Rance 30/3-1/4/2003

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#### APPENDIX TWO Long Gully PL invertebrate records

Long Gully Pastoral Lease tenure review invertebrate survey lists 7-8 Dec 2002, 2-April 2003 Collectors; E. Edwards, B. Patrick and B. Rance

	wards, B. Patrick and B. Rance	•			
Order/Family	Taxon	Locality	Elevation	Date	comment
Coleoptera	Beetles				
Carabidae	Megadromus sp.	Long Gully tops	1100 m	2-Apr-03	
	Megadromus sp.	Luggate-Tarras Rd	700 m	8-Dec-02	
	Oregus aureus complex	Luggate-Tarras Rd	350 m	2-Apr-03	
Chrysomelidae	Chrysolina hyperici	tce. Luggate-Tarras Rd	240 m	2-Apr-03	St. Johns Wort Beetie
	Chrysolina hyperici	tce. Luggate-Tarras Rd	260 m	7-Dec-02	ONJOINING WORL DECILE
Histeridae	Suplinus sp.	Luggate-Tarras Rd	700 m	8-Dec-02	Predator of carrion insects Very local in
Scarabaeidae	Pericoptis frontalis	tce. Luggate-Tarras Rd	250 m	7-Dec-02	intermontane sandy soils
	Pyronota sp.	tce. Luggate-Tarras Rd	260 m	7-Dec-02	20112
Diptera	Flies		200	/-000-02	
Therevidae		_			Larvae predators in
i nerevidae	Anabarynchus sp. 1	Luggate-Tarras Rd	700 m	8-Dec-02	loamy soils
	Anabarynchus sp. 2	tce. Luggate-Tarras Rd	240 m	2-Apr-03	x2
Hemiptera	Bugs & cicada				
Cicadidae	Amphipsalta strepitans	Luggate-Tarras Rd	700 m	8-Dec-02	Inhabits tall shrubland Inhabits open
Ligaeidae	Nysius huttoni	Long Gully tops	950 m	8-Dec-02	cushions
	Nysius huttoni	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
	Nysius huttoni	tce. Luggate-Tarras Rd	260 m	2-Apr-03	
Pentatomidae	Rhopalimorpha lineolaris	Long Gully tops	950 m	8-Dec-02	
	·				Inhabits dry open
Tibicinidae	Maoricicada campbelli	tce. Luggate-Tarras Rd	260 m	7-Dec-02	native vegetation of valley floors
Hymenoptera	Wasps		200 m	1-1000-02	valley noors
Pompilidae	Priocnemis conformis	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
	Priocnemis monachus	Luggate-Tarras Rd	700 m	8-Dec-02	feed on tunnelweb
Sphecidae	Podagritus albipes	tce. Luggate-Tarras Rd	260 m	8-Dec-02 7-Dec-02	spiders
•	Podagritus cora	Luggate-Tarras Rd	200 m		feed on flies
	Podagritus cora	tce. Luggate-Tarras Rd	260 m	8-Dec-02	feed on flies
Lepidoptera	Moths and butterflies	ice. Luggaic-Tallas Ko	200 m	7-Dec-02	
···· <b>F</b> ···· <b>F</b> ····	Ward and patter mes				x3 Alpine tiger
Arctiidae	Materia Luces				moth, flightless
	Metacrias huttoni	Long Gully tops	950 m	8-Dec-02	females
Crambidae	Orocrambus cyclopicus	Luggate-Tarras Rd	350 m	2-Apr-03	
	Orocrambus cyclopicus	Luggate-Tarras Rd	600 M	2-Apr-03	
	Orocrambus cyclopicus	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
	Orocrambus lewisi	Luggate-Tarras Rd	700 m	8-Dec-02	
	Orocrambus lewisi	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
	Orocrambus ramosellus	Luggate-Tarras Rd	700 m	8-Dec-02	
					Larvae bore in Charmichaelia
Gelechiidae	Athrips zophochalca	tce. Luggate-Tarras Rd	260 m	7-Dec-02	<i>petriei</i> x2, Larvae eat
	Kiwaia lithodes	tce. Luggate-Tarras Rd	260 m	7-Dec-02	Raoulia
	Kiwaia schematica	Luggate-Tarras Rd	700 m	8-Dec-02	x2
Geometridae	Kiwaia schematica	tce. Luggate-Tarras Rd	250 m	7-Dec-02	x4 Inhabits open
Sconeuluae	Arctesthes catapyrrha	Long Gully tops	940 m	2-Apr-03	prostrate vegetation
	Arctesthes catapyrrha	Luggate-Tarras Rd	700 m	8-Dec-02	
	Asaphodes aegrota	tce. Luggate-Tarras Rd	250 m	7-Dec-02	x2

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Austrocidaría gobiata	tce. Luggate-Tarras Rd	250 m	7-Dec-02	Learvae eat <i>Coprosma</i>
Helastia corcularia	tce. Luggate-Tarras Rd	250 m	7-Dec-02	
Homodotis rufescens	tce. Luggate-Tarras Rd	250 m	7-Dec-02	
Leptomeris rubraria	Luggate-Tarras Rd	350 m	2-Apr-03	Larvae eat Plantago
Notoreas paradelpha	Long Gully tops	950 m	8-Dec-02	Larvae eat Kellaria

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Order/Family	Тахол	Locality	Elevation	Date	0.000
Lepidoptera	Moths & butterflies	······································	ASICIALION	Date	comment
Geometridae	Paranotoreas brephosata	Luggate-Tarras Rd	700 m	8-Dec-02	
	Pasiphila sandycias	tce. Luggate-Tarras Rd	250 m	7-Dec-02	Larvae eat Coprosma
Hepialidae	Wiseana copularis	tce. Luggate-Tarras Rd	250 m	7-Dec-02	-
Lycaenidae	Antipodalycaena nsp.	Luggate-Tarras Rd	350 m	2-Apr-03	x2 Larvae eat Muehlenbeckia
	Antipodalycaena nsp.	tce. Luggate-Tarras Rd	260 m	7-Dec-02	March Choccara
					x2 Larvae eat Muehlenbeckia
	Boldenaria nsp.	Long Gully tops	950 m	8-Dec-02	axillaries
	Boldenaria nsp.	tce. Luggate-Tarras Rd	260 m	7-Dec-02	x5
	Boldenaria nsp.	tce. Luggate-Tarras Rd	700 m	8-Dec-02	_
		•			Larvae eat Charmichalia
	Zizina oxleyi	Long Gully	(00)	<b>0</b> 4 66	vexillata and exotic
	Zizina oxleyi	Long Gully tops	600 m	2-Apr-03	clovers
N	_	•	950 m	8-Dec-02	inland dry climate
Noctuidae	Euxoa admirationis	tce. Luggate-Tarras Rd	250 m	7-Dec-02	areas
-	Graphania lithias	tce. Luggate-Tarras Rd	250 m	7-Dec-02	Larvae eat Melycyti alpinus
	Graphania mutans	tce. Luggate-Tarras Rd	260 m	7-Dec-02	mpinus
	Rictonis comma	tce. Luggate-Tarras Rd	250 m	7-Dec-02	
Pterophoridae	Pterophorus innotatalis	tce. Luggate-Tarras Rd	260 m	7-Dec-02	x2, Larvae eat Dichondra
Pyralidae	Crocydopora cinigerella	tce. Luggate-Tarras Rd	260 m	2 Ame 02	x4, Native NZ,
-	Eudonia sabulosella	tce. Luggate-Tarras Rd	260 m	2-Apr-03 7-Dec-02	Australia dry areas
	Eudonia submarginalis	tce. Luggate-Tarras Rd	260 m	7-Dec-02	x2
				,	Central Otago basins, Larvae eat
	Hieroderis nsp.	tce. Luggate-Tarras Rd	260 m	7-Dec-02	litter in shrubs
	Scoparia rotuella	Long Gully tops	1100 m	2-Apr-03	
					Larvae eat Sophora
	Urisophita maorialis	Luggate-Tarras Rd	350 m	2-Apr-03	and some exotic woody legumes
Satyridae	Argyrophenga antipodum	Luggate-Tarras Rd	700 m	8-Dec-02	<b>,</b>
Fineidae	Monopis ethella	tce. Luggate-Tarras Rd	260 m	7-Dec-02	Sheeps wool moth
Fortricidae	Capua semiferana	Luggate-Tarras Rd	700 m	8-Dec-02	
	Capua semiferana	tce. Luggate-Tarras Rd	250 m	7-Dec-02	
	Epiphyas postvittana	Luggate-Tarras Rd	700 m	8-Dec-02	
	Epiphyas postvittana	tce. Luggate-Tarras Rd	260 m	7-Dec-02	x2
	Harmaloga amplexana	tce. Luggate-Tarras Rd	260 m	7-Dec-02	Larvae eat Meuhlenbeckia
	Harmaloga oblongana	tce. Luggate-Tarras Rd	250 m	7-Dec-02	ментепрескіа
	_			. 200 02	x2, Larvae eat
	Harmaloga scoliastes	tce. Luggate-Tarras Rd	250 m	7-Dec-02	Matagouri, Meuhlenbeckia etc.
Veuroptera	Lacewing				sseamenbeenu ca.
Iemerobiidae	Micromus tasmaniae	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
Orthoptera	Grasshoppers & cricket				
crididae	Phaulacridium otagense	Luggate-Tarras Rd	350 m	2-Apr-03	
	Sigaus australis	Long Gully tops	950 m	8-Dec-02	
	Sigaus australis	Luggate-Tarras Rd	600 m	2-Apr-03	
iryllidae	Teleogryllus sp.	tce. Luggate-Tarras Rd	260 m	7-Dec-02	
richoptera	Caddis				
ydropsychidae	Aoteapsyche tepoka	tce. Luggate-Tarras Rd	760	7 10 - 02	large net caddis from
		we. Luggare raitas Ko	260 m	7-Dec-02	Clutha /Mata-au R.

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