

Crown Pastoral Land Tenure Review

Lease name : TE AKATARAWA

Lease number : PT 023

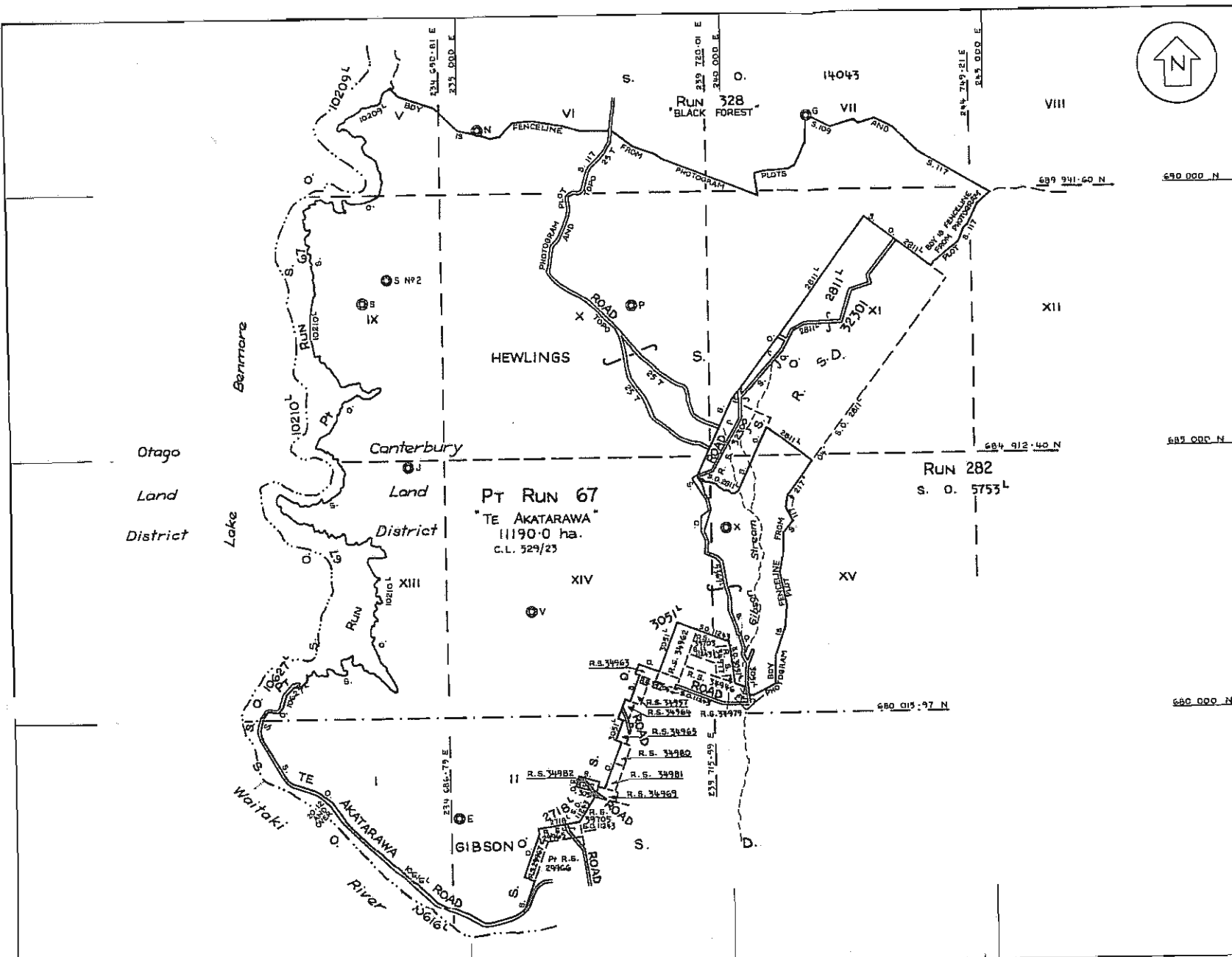
Due Diligence Report (including Status Report) - Part 2

This report and attachments results from a pre-Tenure Review assessment of the pastoral lease for the purpose of confirming land available for Tenure Review and any issues, rights or obligations attaching to it. The information is gathered from files and other sources available to the LINZ contractor.

Part of the information relates to research on the status of the land, resulting in a Status Report that is signed off by a LINZ approving officer. The remainder of the information is not analysed for relevancy or possible action until required, and LINZ does not guarantee its accuracy or completeness as presented.

The report attached is released under the Official Information Act 1982.

July 09



Approved _____

Appellation	Schedule	
	Former Area	New Area
Pt Run 67	11089.4349 ha.	11190.0 ha.

All work is adopted.
 All roads shown are legal, and 20.12 metres wide unless shown otherwise.

Datum: Old Cadastral
 Timaru Circuit Coordinates
 Origin: Mt Horrible 700 000 mN
 300 000 mE

Total Area 11190.0 ha.
 Comprised in c.L. 529/23

This plan represents the most accurate planimetric definition available at this date of the boundaries of Pt Run 67.
 Date 11/12/76

 Chief Surveyor

Field Book _____ p. _____ Traverse Book _____ p. _____
 Reference Plans S.O.S. 3113, 2811, 3051, 5753, 10209, 11243,
 10210, 10615, 10616, 10627, Topo 23 T, Photograph Block B, 117
 S.O. 543
 Examined & Approved _____

Approved as to Survey See Above

 Chief Surveyor

Deposited this _____ day of _____ 19____

 District Land Registrar

LAND DISTRICT CANTERBURY
 SURVEY BLK. & DIST. VI, VII, VIII, IX, X, XI, XII, XIII, XIV,
 XV, HEWLINGS, GIBSON
 NZMS 177 SHEET NO. S.109 & S.117

PT RUN 67 'TE AKATARAWA'

LOCAL AUTHORITY WAIMATE COUNTY
 COMPILED IN SURVEY OFFICE
 Scale 1:50 000 Date JUNE 1976

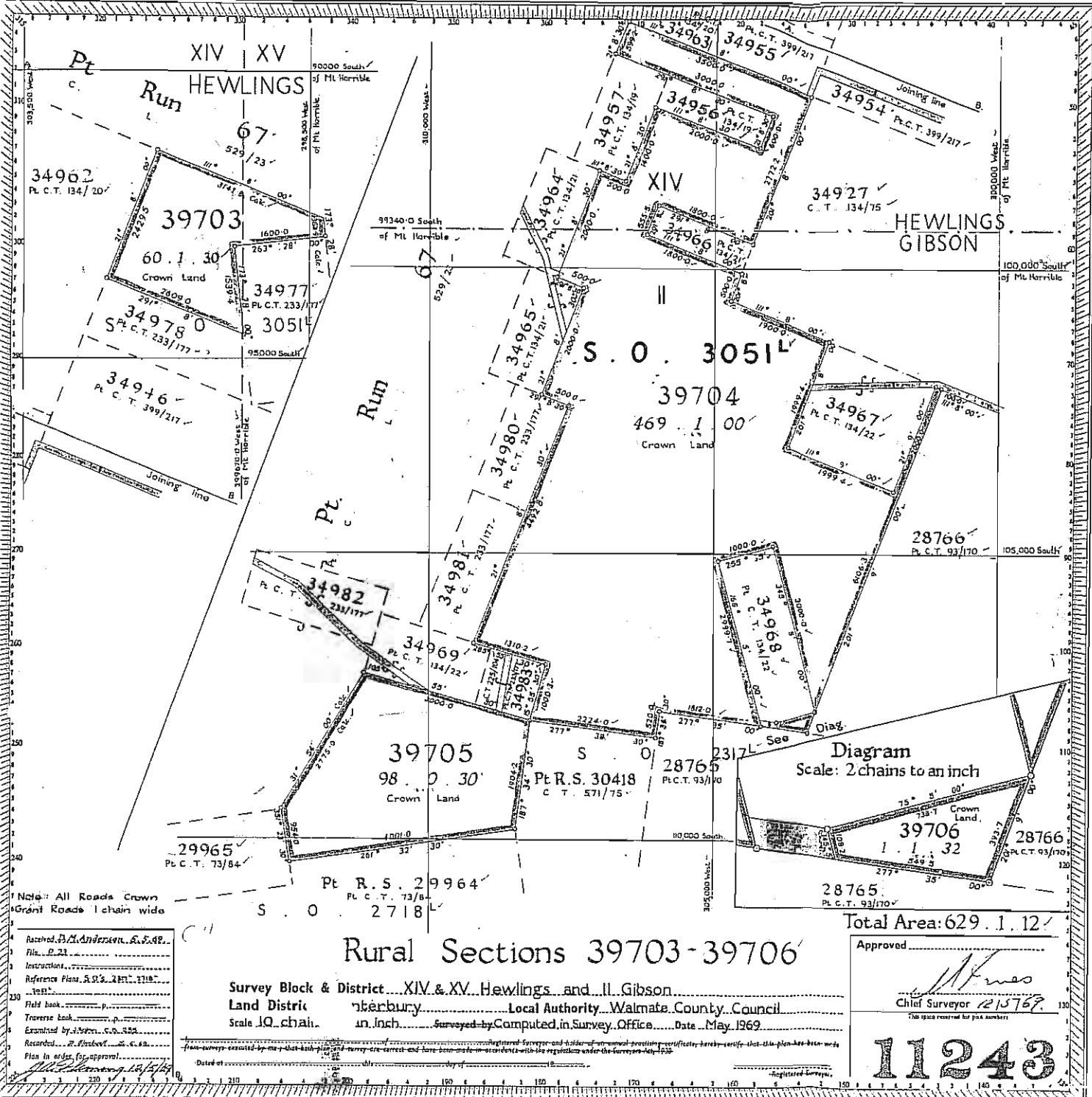
File P.29
 Received 1 May 77
 Instructions SO 14073

REMICROFILMED

Printed by Sterling Inprints Ltd, Auckland, New Zealand.

W.S. Jones, Surveyor-General, Department of Lands and Survey, Wellington

100 P. 2000 N 10



Note: All Roads Crown Grant Roads 1 chain wide

Received *A. C. Andersen, S.F.A.P.*
 File *P. 21*
 Instructions
 Reference Plans *S.O.S. 287. 218*
 Field book
 Traverse book
 Examined by *A. C. Andersen, S.F.A.P.*
 Retained by *A. C. Andersen, S.F.A.P.*
 Plan in order for approval
A. C. Andersen, S.F.A.P.

Rural Sections 39703-39706

Survey Block & District *XIV & XV, Hewlings and II, Gibson*
 Land District *Wentworth* Local Authority *Waimate County Council*
 Scale *10 chains* in *1 inch* Surveyed by *Computed in Survey Office* Date *May 1969*

Total Area: 629.1.12

Approved
M. Jones
 Chief Surveyor *121576P*
 The space reserved for plan numbers

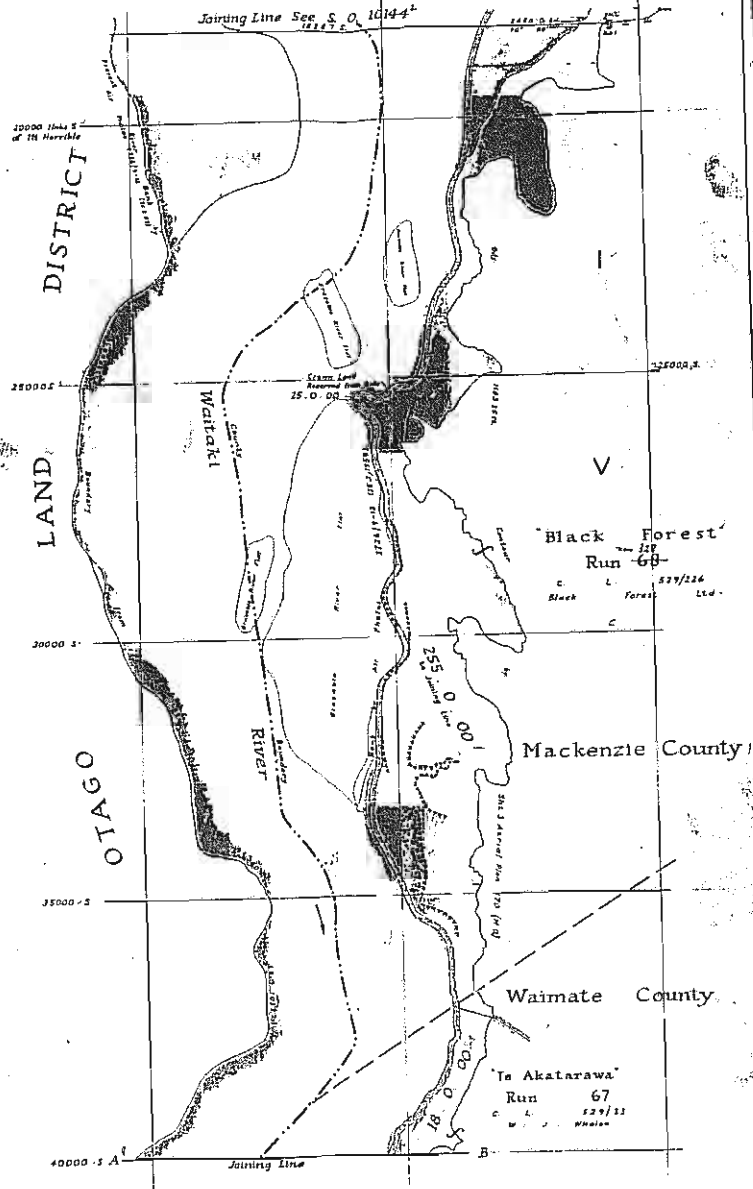
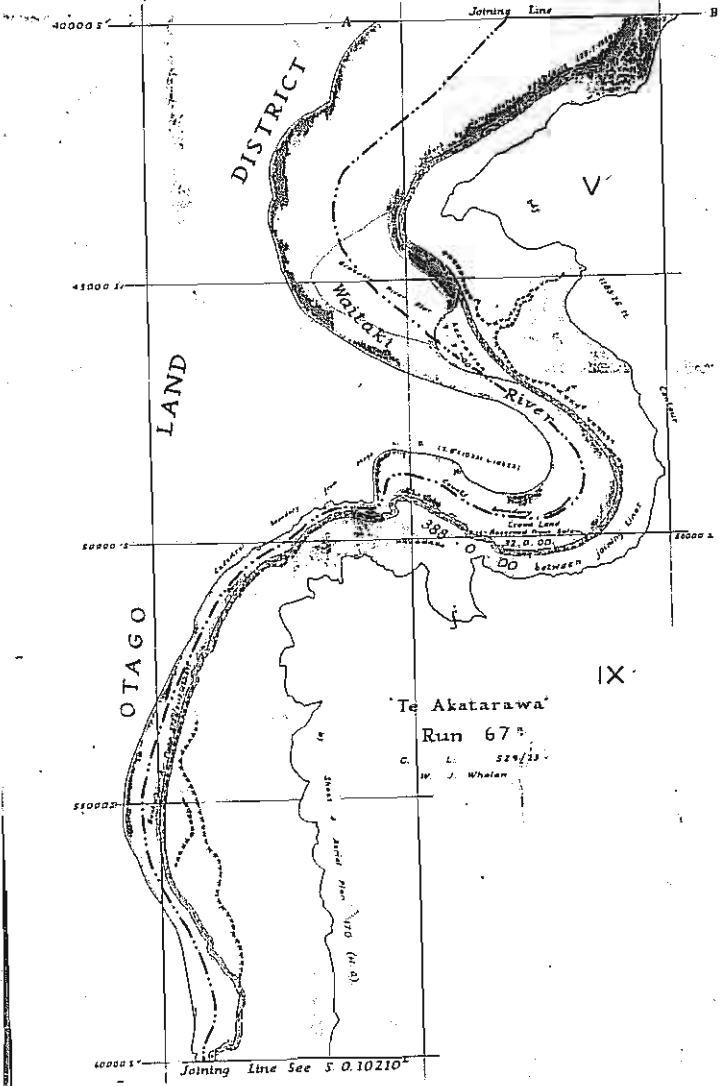
11243

"RELEASED UNDER THE OFFICIAL INFORMATION ACT"

AREA	SECTION	CLASSIFICATION & PURPOSE	PROCL.	AREA	SECTION	CLASSIFICATION & PURPOSE	PROCL.
1 D 00	Orange	Land subject to Disposal Act		1 D 00	Orange	Land subject to Disposal Act	
2 D 00	Orange	Land subject to Disposal Act		2 D 00	Orange	Land subject to Disposal Act	
3 D 00	Orange	Land subject to Disposal Act		3 D 00	Orange	Land subject to Disposal Act	
4 D 00	Orange	Land subject to Disposal Act		4 D 00	Orange	Land subject to Disposal Act	
5 D 00	Orange	Land subject to Disposal Act		5 D 00	Orange	Land subject to Disposal Act	
6 D 00	Orange	Land subject to Disposal Act		6 D 00	Orange	Land subject to Disposal Act	
7 D 00	Orange	Land subject to Disposal Act		7 D 00	Orange	Land subject to Disposal Act	
8 D 00	Orange	Land subject to Disposal Act		8 D 00	Orange	Land subject to Disposal Act	
9 D 00	Orange	Land subject to Disposal Act		9 D 00	Orange	Land subject to Disposal Act	
10 D 00	Orange	Land subject to Disposal Act		10 D 00	Orange	Land subject to Disposal Act	

S.O.10209

J.10209



S.O.10209

- Received *1/1/59*
- File *10209*
- Instructions *1/1/59*
- Reference Plans
- Field Book
- Traverse Book
- Examined by *J.P.P.*
- Recorded *1/1/59*
- Plan in Order for Approval

Plan of Pt Runs 67 & 68 & Crown Land
 Bks I, IX, Hew & S.D. Mackenzie & Waimate Counties
 Canterbury Land District
 Scale 10 chains to an inch Compiled August 1963
 Topo Detail fixed from Aerial Photos 2726/9-13 (25.2.1959)

Approved as to definition of areas surveyed compiled
 PROJECT SUPERVISOR
[Signature]

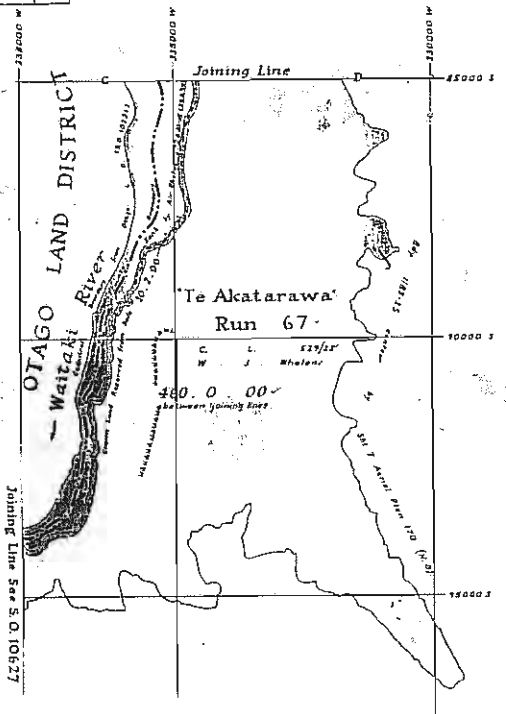
Approved:
[Signature]
 Chief Surveyor

10209

"RELEASED UNDER THE OFFICIAL INFORMATION ACT"

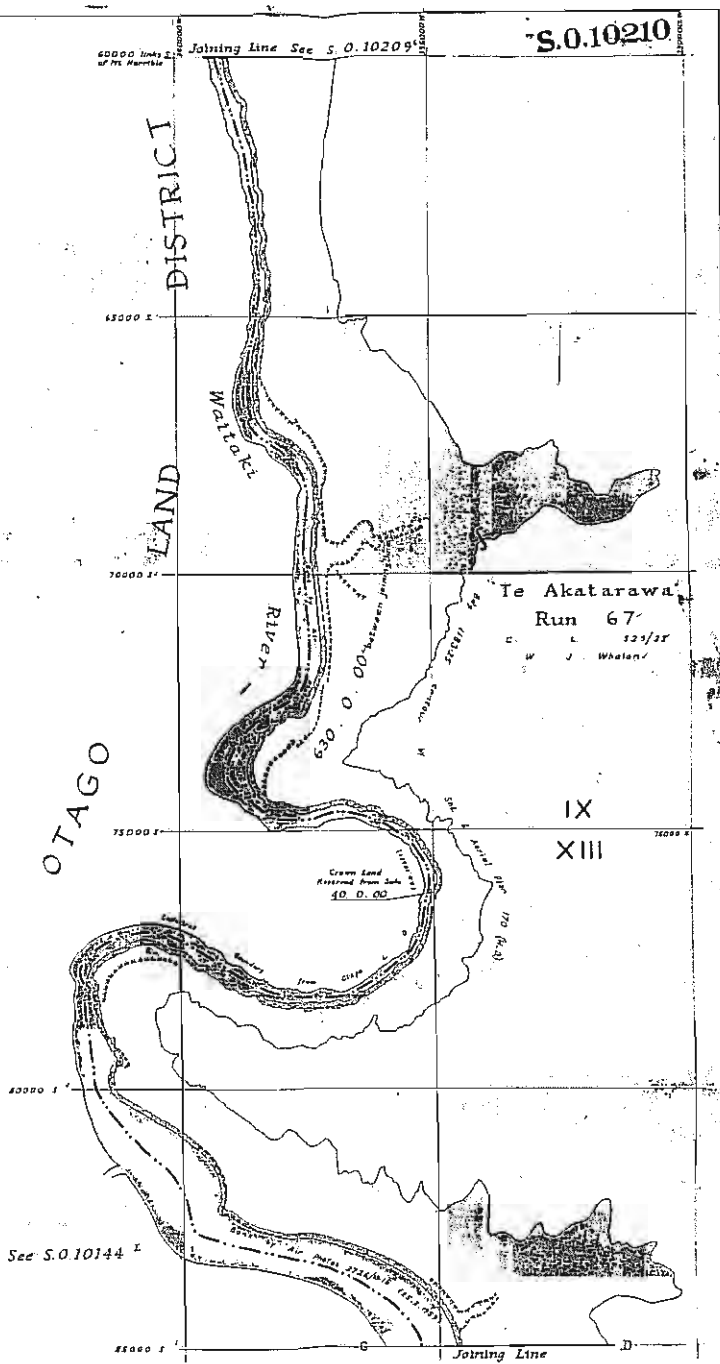
AREA	DATE	EXTENT & PURPOSE	SCALE
30 0.000	1963	Te Akatarawa Run 67	10 chains to an inch
30 0.000	1963	Crown Land Reserved from Sale	10 chains to an inch

S.0.10210



Plan of
Pt Run 67 & Crown Land
Hewlings S. D. Blks IX, XIII Waimate County
Canterbury Land District
Scale 10 chains to an inch Compiled August 1963
Topo Detail fixed from Aerial Photos 2726/13-15 (25-2-1959)

For Area Schedule See S.0.10144



S.0.10210

Received by	11/13/1
Instructions	
Reference Plans	
Field Book	
Reverse Book	
Examined by	
Recorded by	
Map in Order for Approval	
1/13/1	

S.0.10210

Approved as to definition of areas surveyed compiled
2/15/64

Approved:
Chief Surveyor

10210

"RELEASED UNDER THE OFFICIAL INFORMATION ACT"

S.O.10616

S.O.10616

S.O.10627

PT. RUN 67

W. J. WHALAN LESSEE
C.L. 529/23

PT. RUN 67

W. J. WHALAN LESSEE
C.L. 529/23

PT. RUN 67

W. J. WHALAN LESSEE
C.L. 529/23

GIBSON

S. D.

S. O. 10615

AREA	COLOR	GAZETTED & PURPOSE	PROV.
14-0-20	SEPIA	44-0-366	NEW ROAD
18-3-127	YELLOW	84-2-10	DEVELOPMENT
34-2-80	RED	34-2-80	WATER POWER

FROM	COLOR	AREA	PURPOSE
PT RUN 67	SEPIA	44-0-366	NEW ROAD
	YELLOW	84-2-10	DEVELOPMENT
CROWN LAND	RED	34-2-80	WATER POWER

For Origin of Bearings
See S.O. 10530-1

Bdys not fenced unless
otherwise shown

Bearings & co-ordinates in
terms of Geocentric Datum 1949

PLAN OF
LAND TO BE ACQUIRED FOR ROAD
AND THE DEVELOPMENT OF WATER POWER

Comprised to C.L. 529/23 and Crown Land

S.O.10616 BLKS I & II GIBSON S. D.
CANTERBURY L. D. WAIMATE COUNTY COUNCIL

SCALE: 5 CHS TO AN INCH SURVEYED BY BRIDGES MILWARD & FOUGERE
DATE: 1 MAY 1965

I, David George Faling of Temara, Registered Surveyor and holder of an annual practicing certificate, hereby certify that this plan was made from surveys created by me; that both plan and survey are correct and have been made in accordance with the regulations under the Surveyors Act, 1958

Dated at Temara this 15th day of November 1965

Registered Surveyor

Approved as to definition of
Chief Surveyor

Approved
Chief Surveyor

10616

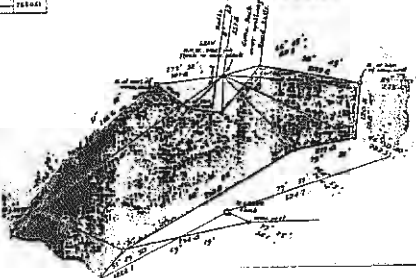
"RELEASED UNDER THE OFFICIAL INFORMATION ACT"

FROM	AREA	COLOUR	PURPOSE
Pt. Run 67	8-1-189	Sepia	New Road
Crown Land	139-1-00	Yellow	Development of water power
	9-7-00	Red	

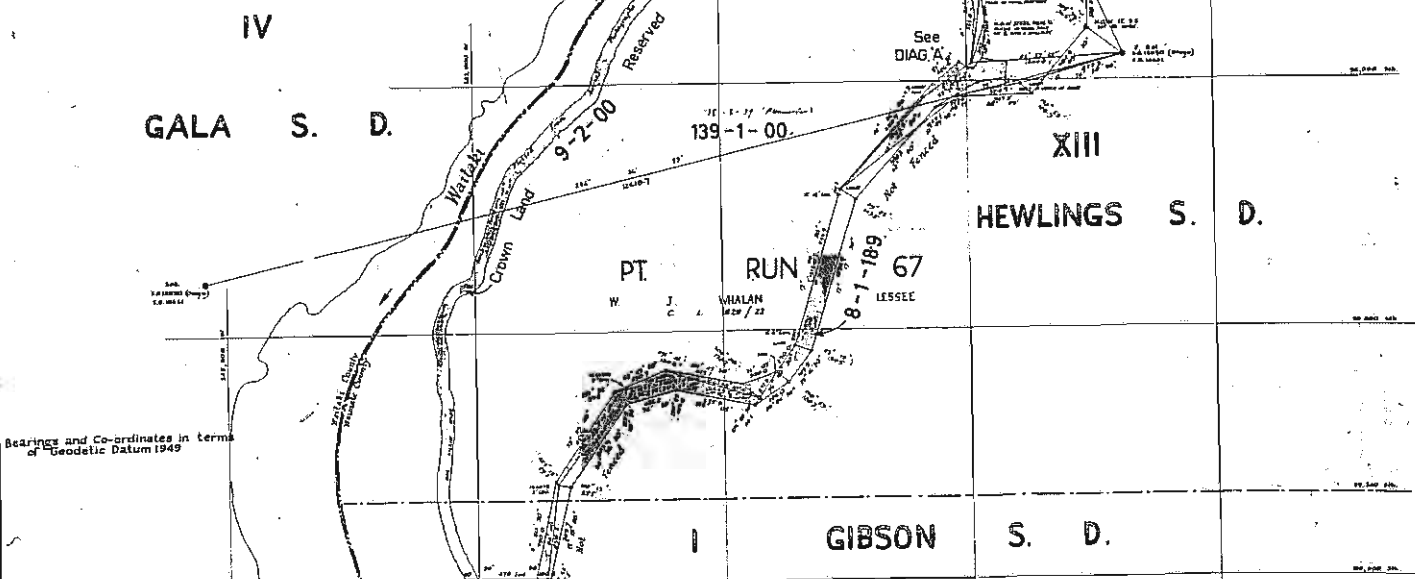
S.O.10627

S.O.10627

AREA	COLOUR	DATE/TIME	NAME	NO.
139-1-00	Yellow		Development of water power	
8-1-189	Sepia		New Road	



DIAG. A
Not to scale



Bearings and Co-ordinates in terms of Geodetic Datum 1949

S.O.10627

Boundaries...
 The...
 Instructions...
 Field work...
 Traverse...
 Examined...
 Registered...
 Plans in order for approval...

PLAN OF
 LAND TO BE ACQUIRED FOR ROAD
 AND THE DEVELOPMENT OF WATER POWER
 BLK 1 GIBSON S.D. BLK XIII HEWLINGS S. D.
 CANTERBURY L.D. WAIMATE COUNTY COUNCIL
 Scale: 4 chs to an inch Date: October 1965
 Surveyed by: Bridges Millward & Fougere

I, David George Fougere, Registered Surveyor and holder of an annual practicing certificate, hereby certify that this plan has been made from surveys conducted by me or that both plans and surveys are correct and have been made in accordance with the regulations under the Surveyors Act, 1912.
 Dated at Dunedin this 5th day of February 1966.

R. G. Fougere
 Registered Surveyor

Approved as to definition of areas surveyed
 Chief Surveyor 212722

Approved
 Chief Surveyor 15714

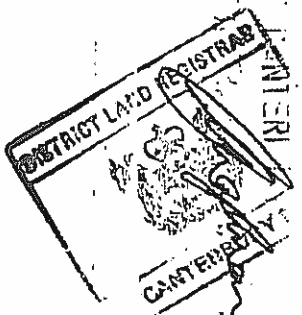
10627

RELEASED UNDER THE OFFICIAL INFORMATION ACT

A8410.1

FILED BY DISTRICT REGISTRAR
MWD 0015483

LAND REGISTRY
DISTRICT REGISTRAR



CERTIFICATE OF NON-REVOCATION OF POWER OF ATTORNEY

I, ROGER NORMAN MACASSEY of Dunedin Solicitor hereby certify -

1. THAT by Deed dated the 8th day of February 1990 COLIN JOHN DOHERTY of Dunedin in New Zealand Solicitor appointed me his Attorney on the terms and subject to the conditions set out in the said Deed.

2. THAT at the date hereof I have not received any notice or information of the revocation of that appointment by the death of the said Colin John Doherty or otherwise.

SIGNED at Dunedin)
this 3rd day of)
Nov 1992)

Rn Macassey

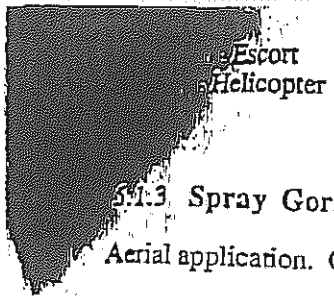
6614S

CHR

To be carried out with a minimum of soil disturbance, vegetation to be windrowed or heaped as directed by Regional staff,

	Unit	Cost	\$/hectare	Total
Catapillar D5	2.5 hr/ha	80.00/hr	200.00	
Transport			<u>20.00</u>	<u>\$220</u>

LINZ CHCH 3 3865422



Unit	Cost	\$/hectare	Total
Escort Helicopter	170 grms	0.90c/grm	153.00
		15 ha/hr	65.00
			218.00

say \$220

5.1.3 Spray Gorse and Broom

Aerial application. Chemical Tordon at 11 litres/ha. Application at \$80.00 ha/hour.

Material	Unit	Cost	\$/hectare	Total
Tordon	11 litres	\$56.10/l	617.10	
Helicopter		\$80.00/ha	80.00	
			697.10	

say \$700

5.2 GROUND APPLICATION

5.2.1 Spray Gorse and Broom

Ground application gun and hose. Chemical Tordon at 1 litre/400 litres water. Coverage of approximately 0.5 ha/hour.

Material	Unit	Cost	\$/hectare	Total
Tordon	2 litres	\$56.10/l	112.20	
Contractor	2 hrs	60.00/hr	120.00	
				\$232.00

5.2.2 Grader Clearing Gorse and Broom

Use of grader to scrape off gorse and broom. Windrow into heaps and level surface. No work to be undertaken on river banks or within 20m of river channel. Follow up considered maintenance at farmers cost and will involve rotary slashing of level ground, regrowth and spraying windrow regrowth.

Estimate based on grader at \$125/hr working 0.75 ha/hr

Unit	Cost	\$/hectare	Total
Grader	0.75 ha/hr	\$125/hr	\$166.67

say \$170

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The crossings of all streams should be constructed to a hard bottom, rock filled or culverts. Be sure to allow adequate capacity for flood flows and possible diverting of stream on track.

4.9.6 Culverts and Cutoffs (other than crossings)

The water table must be adequately served by culverts and cutoffs to remove runoff and sub-surface drainage water. On a steep grade of 1:5, culverts or cutoffs should occur at least every 20 metres, while on a grade of 1:10, they could be up to 60 metres apart.

The culverts must be of sufficient size to handle at least the expected volume of water and must be designed to handle at least the expected volume of water and must be designed and placed to avoid blockages. The culverts need to be long enough so that they project beyond the base of the side-casting or fill slope. A splash pad to absorb the impact of the water will usually be required. If at all possible, avoid having culverts or cutoffs emptying into any noticeably damp area or into existing watercourses.

4.9.7 Revegetation

Once construction is completed, disturbed areas should be oversown and topdressed immediately with suitable material, where this is an appropriate follow-up step. Germination of seed is better on fresh cuts and fills. Seed and fertiliser mixture to be as directed by local Land Management Officer.

4.9.8 Track Surface

4.9.8.1 In some places the oversown plants may not be sufficient to prevent scouring and erosion of the track surface and some metalling may be required. A rate of 1m³/10m of track is usually sufficient to provide traction.

4.9.8.2 The track surface should be free of corrugations and debris so that it is readily negotiable.

Estimates

	Full Access Track \$/km	Light Track \$/km
Bulldozing	1,550.00	825.00
Culverts	350.00	0.00
Seed and Fertiliser	150.00	0.00
Total Cost/km	\$2,050.00	\$825.00

Note: Light track involves skim of surface and minimal earth disturbance.

5. HABITAT MODIFICATION

5.1 HELICOPTER APPLICATIONS

5.1.2 Briar and Matagouri

Area to be sprayed and conditions to be as directed by Regional Council Staff who will be present during the operation.

Estimated Cost Per Ha

	Units	Cost	Cost
75 kg/ha Sulphur Super	\$270/t	75 kg/ha	125 kg/ha
Transport	\$20/t	20.25	33.75
Application	\$50/t	1.50	2.50
		<u>3.75</u>	<u>6.25</u>
		\$25.50	\$42.50
	say	<u>\$26.00</u>	say <u>\$43.00</u>

4.9 ACCESS TRACKING

Track alignment should take into account the existing landform. The track should be sited and constructed to cause minimal disturbance to the landscape, and the natural contour and vegetation cover should be used to conceal it from obvious viewing points.

The type of track installed should be appropriate for the use intended. Frequently used, all weather, major tracks need to follow the specifications listed below. Dry weather, infrequently used tracks may only require a vegetation skim along easy ridges and slopes. Surface working, as detailed below, restricted to the more difficult sections only.

4.9.1 Grade

4.9.1.1 The grade of the track should be kept as low as possible, generally not greater than 1:6 and with a maximum grade of 1:5. Grades should be reasonably even to avoid excessive gear-changing, though minor rising and falling sections help reduce water runoff velocities.

4.9.1.2 Where appropriate, the surface of the track should usually have a crossfall grade of approximately 1:25 towards the bank or water table.

4.9.1.3 Corners should generally be flat, or gently climbing; corners and bends round ridges are good places to account for irregularities in grade, avoiding rock outcrops etc.

4.9.2 Width

The minimum track width should be 2.5 - 3 metres, with the total formation width including fills and water tables being a minimum of 1 metre wider.

4.9.3 Batters

Where possible, the uphill batters should be sloped back or struck off to a stable gradient to minimise slumping and to allow grassing down. Batter slopes should generally not exceed 35° except in hard rock.

4.9.4 Water Tables

A proper water table should be constructed along all sidecut portions of the track. The water table must be capable of carrying the sub-surface drainage as well as runoff during storms, without adversely affecting the track.

4.9.5 Stream Crossings

SM

Any major alterations to these recommendations should be approved by the Land Management Officer.

4.7.3 Seed Mixes - Coat and inoculate all covers

	kg/ha	\$ per kg	\$ per ha	Total
Hard Sunny Faces (Fodderbank)				
Wana Cocksfoot	4	5.86	23.40	
Lotus corniculatis	2	14.40	28.80	
Tahora White Clover	2	8.95	17.90	
Maru Phalaris	1	9.50	9.50	<u>\$79.60</u>
Easier Sunny Faces (Winter Grazing)				
Wana Cocksfoot	4	5.85	23.40	
Ermo Alsike Clover	3	4.70	14.10	
Tahora White Clover	2	8.95	17.90	
Maru Phalaris	1	9.50	9.50	
Perennial Ryegrass	10	1.60	16.00	<u>\$80.90</u>
Shady Sunny Faces (Summer Grazing)				
Wana Cocksfoot	4	5.85	23.40	
Ermo Alsike Clover	3	4.70	14.10	
Huia White Clover	3	4.65	16.95	
Maru Phalaris	1	9.50	9.50	
Perennial Ryegrass	10	1.60	16.00	<u>\$79.95</u>

4.7.4 Costing (Range \$75-\$100/ha)

	kg	\$	\$ per ha	Total
Seed: White Clover	3	6.00/kg	18.00	
Alsike Clover	3	6.00/kg	18.00	
Fertiliser Mo S Super	150	\$282/t	42.30	
Transport		\$20/t	3.25	
Application		\$50/t	7.75	<u>\$89.30</u>
Follow up topdressing		\$50.00/ha		

4.8 FERTILISER APPLICATION

Application proposed when associated with block spelling and grazing conditions.

Recommended application of 50% Sulphur Super to boost native annual vegetation to build up seed source on land less than 400 mm rainfall

Rate 75 - 125 kg/ha

Note: Lower rate for driest land (difficult to get even application) higher rate especially suitable where native clovers present

ESTABLISHING LOTUS - MAKU OR CORNICULATUS

	Units	Cost	Cost/ha	Total
Lotus corniculatus	5 kg	\$7.00/kg	35.00	
Fertiliser (10 t/ha)	.13/t	\$75.00	9.75	
Fertiliser Molybdate Maxi	125 kg/ha	\$282/t	35.25	
Sulphur super				
Cartage		\$30/t	<u>3.75</u>	<u>\$83.75</u>

4.5 FORESTRY ESTABLISHMENT

4.5.1 Tree Lines

	Cost per 100	Total per 100
Trees	\$35.00	
Ripping	25.00	
Planting	<u>35.00</u>	<u>\$95.00</u>

Distance between trees 2.5 metres = 400 trees per km

Cost per row per km = \$380.00
 Cost per km for 3 row break = \$1,140.00

4.5.2 Agro Forestry (range \$600-800/ha)

	Cost per 100	Total per 100
Trees	\$35.00	
Ripping	25.00	
Planting	<u>35.00</u>	<u>\$95.00</u>

Tree Spacings
 4m x 4m = 600 stems/ha \$570.00
 4m x 3m = 800 stems/ha \$760.00

4.6 FODDERBANKS/ALTERNATIVE COVER TRIALS (Range \$500-\$1000/ha)

Specification - To be determined by Land Management Officer.

4.7 AERIAL OVERSOWING AND TOPDRESSING

4.7.1 Specifications

In general it would be preferable for all AOS and TD recommendations to be supported by a relevant soil test.

4.7.2 Recommendations

- application July or August
- species dependent upon individual site
- fertiliser to be applied with seed
- innoculate all legumes
- use white and aliske clovers, no grasses. If necessary, Cocksfoot could be introduced at a later date
- fertiliser - Mo Sulphur Super extra at 150 kg/ha
- maintenance levels of fertiliser minimum 125 kg/ha every three years

SAE

3.2.3 Helicopter Shooting

Specifications - to be approved and directed by Pest Supervisor

Estimated cost per hour - Range \$300 - \$500/hr

eg Helicopter/pilot/shooter	\$400.00
Ammunition	<u>\$60.00</u>
	\$460.00

Say \$500.00/hour

4. LAND MANAGEMENT COSTINGS

4.1 LUCERNE ESTABLISHMENT/HA

	Units	Cost	Cost/ha	Total
Cultivation			196.00	
Fertiliser	125 kg/ha	\$433/t	54.15	
Cartage	"	\$30/t	3.75	
Seed	8kg/ha	\$12/kg	<u>96.00</u>	
			349.90 say	<u>\$350.00</u>

4.2 OVERDRILLING DROUGHT GRASSES/HA

4.2.1 Spraying Chemical

	Units	Cost	Cost/ha	Total
Roundup	2.5 l/ha	\$14.50/litre	36.50	
Wetting agent			10.03	
Application		\$17/ha	<u>17.00</u>	<u>\$63.53</u>

4.2.2 Grass Establishment/ha

	Units	Cost	Cost/ha	Total
Seed Fescue	10kg/ha	\$7.00/kg	70.00	
Fertiliser - Sulphur super	128 kg	\$264/t	33.00	
Freight			3.75	
Drilling		\$65/ha	<u>65.00</u>	<u>\$171.75</u>

4.3 OVERDRILLING ALSIKE CLOVER WITH DROUGHT GRASSES/HA (range \$150-250/hr)

	Units	Cost	Cost/ha	Total
Seed:				
Wana cocksfoot	5 kg	\$5.20/kg	26.00	
Maru phartaris	1 kg	\$8.45/kg	8.45	
Droughtmaster rye	10 kg	\$2.98/kg	29.80	
Takora white clover	3 kg	\$6.13/kg	<u>18.39</u>	
			82.64	
Fertiliser - sulphur super	125 kg	\$264/t	33.00	
Freight			3.75	
Direct Drilling			<u>65.00</u>	<u>\$184.39</u>

Equipment Allowance

Shotgun and rifle allowance is included in the ammunition allowance.
Clothing is included in wages.

Dog allowance \$2/day/dog - to a maximum of 4 dogs per man
Payment will include dogs being rested

Materials

Ammunition Shotgun - 3 or 4 shot field load to a maximum of \$8.13/25 (ex GST)
.22 - super speed or high impact to a maximum of \$3.52/50 (ex GST)
Magnum - to a maximum of \$11.00/50 (ex GST)

Note:

- a) allowance for gun use is included in this costing.
- b) magnum only paid out for day rifling. Nightshooting will be paid to the equivalent of the .22 rate.

3.2 COSTINGS

3.2.1 Manpowering - Nightshooting/Trapping etc

eg Area Covered per Man Day	Nightshooting vehicle 140ha-200ha Nightshooting motorcycle 120 ha Other methods - range 20 to 30 ha	Range \$175-250
Costing		
Labour	Average \$150.00 per man day	
Vehicle	Average \$60.00 per man day	
Materials & Equipment	\$45.00 per man day	\$250/per man day

3.2.2 Pindone Pellets

- a) **Aerial - Cost per hectare: Specifications: To be determined by CRC because of requirements under Health Act**

4-8kg pellets (2 feeds)	32.80	
Aerial Hire	8.00	
Labour/Vehicles	4.50	
Assessment	<u>1.50</u>	46.80

- b) **Ground Control - Specifications as per enclosed pamphlet on handling pindone baits.**

4-8kg pellets (2 feeds)	32.80	
Vehicle x 2	3.00	
Labour x 2	<u>11.00</u>	46.80

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2.3 GROUND OATS (Often used as Secondary Control Technique)

Time of Year Oats - summer and autumn. To be outside main breeding season of the rabbit.

Sowing Rates Plough line should range 1km/2-4 ha. Broadcast lines should be similar coverage. Area covered per day 100-150 ha per man.

Oats	10kg/ha	15kg/ha	18kg/ha	20kg/ha
Aerial Hire	1.50		2.50	
Toxic & Dye	1.20		2.16	
Labour/Vehicle/Equipment	5.70		8.40	
Bait delivered and prepared	7.66		14.00	
Totals	\$16.06	\$24.34	\$27.06	\$30.00

3. SECONDARY CONTROL

3.1 SPECIFICATIONS

Specifications for followup to be determined in consultation with the local Pest Supervisor.

Reimbursement of costs for farm based operations. The following costing guidelines shall apply.

Labour

Bas rate approximately \$9.00/hr

- Plus: a) Accommodation or travelling allowance of \$16/day
- b) Overhead allowance of \$8/day

\$96 per 8 hour day (day work) \$12.00/hr
 \$96 per 6 hour day (night work) \$16.00/hr

Payment to this maximum rate, pay actual rate if less than this

Vehicles

		\$/km
4 Wheel Drive	Light	0.80 (0.65)
	Medium (off road)	1.30
	Heavy (ploughing)	1.80
Utilities and Cars		0.60 (0.50)
Motorcycles	2 Wheel	0.50 (1.00)
	4 Wheel	0.60 (1.50)
	4 Wheel (ploughing)	0.90

Where speedometer readings are unavailable a reasonable estimate of kilometres will be agreed upon, ie NS general estimate of travel at 10 kilometres per hour worked.

PRIMARY POISONING

1.1 AERIAL CARROT

Application Rates 12kg/30kg per ha - add % for gradient to surface area

Toxic Loading Carrot 0.02%, Oats 0.04% ww

Feeding All operations would have two pre-feeds and a toxic. Alterations could occur because of adverse weather or supply problems with bait. Maximum period between second feed and toxic = ten days.

Time of Year Carrot - autumn and winter. Oats - summer and autumn. To be outside main breeding season of the rabbit.

Sowing Rates per Hour 2.0 to 4.0 tonnes per hour

Costing Range:

Carrot	12 kg/ha	15 kg	20 kg	25 kg	30 kg	40 kg	50 kg	60 kg
Aerial Hire	7.65		8.49		9.56			
Toxic & Dye	1.00		1.45		1.80			
Labour/ Vehicle/ Equipment	2.25		2.50		2.81			
Bait delivered and prepared	5.55		9.41		14.13			
Totals	\$16.45	\$17.60	\$21.85	\$23.50	\$28.30	\$30.00	\$32.00	\$35.40

2.2 AERIAL OATS

Time of year Carrot - autumn and winter. Oats - summer and autumn. To be outside main breeding season of the rabbit.

Sowing Rates Per Hour 2.0 to 2.40 tonnes per hour

Costing Range:

Oats	9kg/ha	12kg/ha	20kg/ha	30kg/ha
Aerial Hire		7.65		9.56
Toxic & Dye		1.44		3.60
Labour/Vehicle/Equipment		1.25		1.45
Bait delivered and prepared		9.00		20.00
Totals	\$16.30	\$19.34	\$30.00	\$34.61

GR

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl GST)	COST PER M
Waratahs (inc ties)	75	5.00	375.00	
Wire -				
4mm coil	1/4	50.00	12.50	
Netting coils	20	85.00	1,700.00	
Gate sill	1	20.00	20.00	
Clip Fasteners			60.00	
Cartage and transport			<u>70.00</u>	
			2,237.50	2.24
Labour			800.00	.80
			<u>\$3,037.50</u>	<u>\$3.04</u>

1.1.4 Netting Electric Fences

- Existing fence post, insul timber droppers and 4 wires
- Fence will require upgrading through: 1 additional wire, waratahs driven and attached to insul timber.

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl GST)	COST PER M
Waratahs (inc ties)	260	5.00	1,300.00	
Wire -				
No 8 coils	4	50.00	200.00	
No 9	1/4	50.00	12.50	
Gate sill	1	20.00	20.00	
Fasteners and sundries			100.00	
Cartage and transport			<u>60.00</u>	
			3,392.00	3.39
Labour			<u>1,125.00</u>	<u>1.12</u>
			<u>\$4,517.00</u>	<u>\$4.51</u>

MANAGEMENT FENCES

2.1 Conventional

One strainer assembly per 300 metres; one treated post per 8 metres; two droppers between posts; eight 2.5mm HT wires; one tie-down per 20 metres with nine PWS per strain

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl GST)	COST PER M
Strainers	3	38.00	114.00	
Posts	125	7.25	906.00	
Droppers	250	0.90	225.00	
Wire - 2.5mm coils	12	53.40	640.80	
Tiedowns	50	3.00	150.00	
PWS	27	2.60	71.00	
Staples kg	27	4.00	108.00	
Gates, gudgeons, etc	1	120.00	120.00	
Cartage and transport		50.00	175.00	
			2509.80	2.50
Labour			1,500.00	1.50
Laying on line			200.00	.20
			<u>\$4,209.80</u>	<u>\$4.20</u>

1.2.2 Electric

One strainer assembly per 300 metres, one insul. post per 20 metres, with two insul. battens between posts; five 2.5 mm HT electric wires; one tiedown per 20 metres and five PWS per strain.

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl GST)	COST PER M
Strainers	3	38.00	114.00	
Insul. Posts	50	7.40	370.00	
Insul. Battens	100	3.90	390.00	
Wire - 2.5mm coils	8	53.40	427.80	
Tiedowns	50	3.00	150.00	
Insulators	30	1.30	39.00	
PWS	15	2.60	39.00	
Gates, gudgeons, etc	1	120.00	120.00	
Cartage and transport		50.00	75.00	
			1,724.80	1.72
Labour			900.00	.90
Laying on line			100.00	.10
			<u>\$2,724.80</u>	<u>\$2.72</u>

4

GR

1.1.2 Upgrading

- Existing netting fences must be brought up to a standard similar to new netting fences with uprights at a minimum of 30" (750 mm) above ground, with an apron of 8" (200 mm).
- Uprights for extra support to be driven where required.
- Rusted and broken wires to be renewed.
- Either full or 1/2 netting attached to replace unsatisfactory sections of netting. Netting may need to be secured on opposite side of fence to existing netting.
- The ground apron of netting to be ploughed, rocked or pegged as required.
- All gates to be silled and rabbit secured.
- Securing of difficult points (culverts, washouts, gullies, cattle stops) to be handled on an individual basis.

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl GST)	COST PER M
(Based on 50% netting replacement)				
Posts	10	7.00	70.00	
Wire - 2.5mm coil	$\frac{1}{2}$	48.00	24.00	
netting	10	85.00	850.00	
Gate sill	1	20.00	20.00	
Fasteners and sundries			30.00	
Cartage and transport			30.00	
			1,024.00	1.02
Labour			450.00	0.45
			<u>\$1,474.00</u>	<u>\$1.47</u>

1.1.3 Netting Existing Fences

- Fences must have, or be upgraded to, a driven upright every 5m with sufficient post strainers, stays and tiedowns to constitute a sound structure.
- 040" (1,016 mm) x 1 5/8" diamond x 17 or 18 gauge wire rabbit netting to be secure fastened by clips or wire at 0.5 m spacings and on either side of each upright to wires, one of which is the bottom wire of the fence. An apron of netting with minimum of 8" (200 mm) to be either ploughed in or securely rocked and pegged toward the uphill or rabbit pressure of the fence.
- All gates to be silled and rabbit secured.
- Securing of difficult points to be handled on an individual basis (culverts, washouts, gullies, cartlestops etc).

APPENDIX 8

SPECIFICATIONS - COST ESTIMATES

Note: These estimates are general and may vary from those included in the Plan costing.

1. FENCING

1.1 RABBIT NETTING

1.1.1 New Netting Fence

Specification

To be equivalent to the following minimum:

- One driven upright (waratah or flat standard) ever 4m.
- 100m treated wooden posts where required by terrain.
- Four, 12 1/2 gauge or No 8 wires, bottom wire as close to the ground as practical conditions permit, top wire to be firmly secured to uprights.
- Rabbit netting (minimum standard 40" (1,016mm) x 1 5/8" diamond x 17 or 18 gauge wire) to be securely fastened at 0.5m intervals and at either side of uprights, and fastened to bottom three wires. An apron of netting, with a minimum of 8" (200mm) on ground to be either ploughed in or securely rocked and pegged, toward the uphill or rabbit pressure side of the fence.
- Securing of difficult points (culverts, washouts, gullies, cattlestops) to be handled on an individual basis.

MATERIAL	NO/KM	UNIT COST	COST PER KM (excl. GST)	COST PER M
Strainers	5	18.00	90.00	
Stays	7	12.00	84.00	
Posts	15	7.00	105.00	
Waratahs (inc ties)	260	5.00	1,300.00	
Wire - 2.5mm coils	7	48.00	336.00	
4mm coil	1	50.00	50.00	
Netting coils	20	85.00	1,700.00	
Gate	1	130.00	130.00	
Gate sill	1	20.00	20.00	
Fasteners and sundries			100.00	
Cartage and transport			100.00	
			<u>4,015.00</u>	4.02
Labour @ \$1,800.00/km			<u>1,800.00</u>	1.80
			<u>\$5,815.00</u>	<u>\$5.82</u>

JAR

Front Emmanuel 559 ha

600	mixed age wethers	Jan-Feb	
1150	mixed age wethers	Mar-May	
600	2t wethers	Mar-May	315 su or 0.56 su/ha

Assessed Carrying Capacity by LUC Classes

This assessment is an average of individual LUC unit assessments. Lower land developed AOS & TD 10

Sunny Block

VI	180	1.75	315
VII	<u>100</u>	0.2	<u>20</u>
	280		335 or 1.2 s

Front Emmanuel

VI	320	1.75	560
VII	<u>349</u>	0.22	<u>77</u>
VIII	90	0	0
	559		637 or 1.1

Complex country, with large variation in LUC capacity

- Problems - No spelling Nov-Feb
 - No separation LUC VIII land

7.2 Back Emmanuels

Total Block Area 923 ha

1. Current Grazing Levels

1400	mixed age wethers	March-May	3 months	226 su
800	2t wethers	Dec-Feb	3 months	129 su
				355 su or 0.38 su/ha

2. Proposed grazing levels with 200 ha AOS & TD

1000	mixed age wethers	Oct-Nov		
700	mixed age wethers	December		
1150	mixed age wethers	Mar-May		325 su or 0.35 su/ha

Assessed carrying capacity by LUC classes

LUC Class	Ha	Current su/ha	Total	Developed su/ha	Total
VI	184	0.85	157	2	368
VII	550	0.17	94	NA	94
VIII	189	0	0	0	0
			<u>251</u>		<u>462</u>
			or 0.27 su/ha		or 0.50 su/ha

- proposed grazing with development will be within assessed grazing levels
- extra grazing capacity within these blocks is essential to cater for destocking of other blocks for rabbit poisoning operations.

3 Front Emmanuels

Total Block Area 839 ha

1. Current Grazing Levels (AOS & TD 1990)

1000	mixed age wethers	Oct-Nov		
600	mixed age wethers	Dec-Feb		
1400	mixed age wethers	Mar-May		
800	2t wethers	Mar-May		560 su or 0.67 su/ha

2. Proposed Grazing Levels

- Sunny Block 280 ha

400	mixed age wethers	June-mid Sept		
600	2t wethers	Dec-Feb		167 su or 0.6 su/ha

GTR

Appendix 7: Te Akatarawa Land Use Capability - Grazing Assessments

7.1 Sugar Loaf/Wether

Total Block Area 4713

1. Historic Grazing Levels (last 5 years)

2400 mixed age wethers	Oct-Feb	5 months	646 su
4200 mixed age wethers	June-Sept	3 1/4 months	<u>735</u> su
			1381 or 0.29 su/ha

2. Current Grazing Levels (1990/91)

2200 mixed age wethers	Oct-Feb	5 months	592 su
4000 mixed age wethers	Jun-Sept	3 1/4 months	<u>700</u> su
			1292 or 0.27 su/ha

3. Proposed Grazing Levels

1700 (max) mixed age wethers	Oct-Feb	5 months	458 su
2900 mixed age wethers	Jun-Sept	3 1/4 months	<u>508</u> su
			966 or 0.20 su/ha

Assessed Carrying Capacity by LUC Units

This assessment is based on historic WCC grazing assessment and the current assessment given the present land condition.

LUC Unit	ha	Description	WCC su/ha	Total	Current su/ha	Total	Difference
IVs 3	10	Low ice, shallow soil, Hpi dom	4	40	1	10	✓
1% 45 Vc 11	35	Fans, drought, Hpi and briar	0.75	26	0.75	26	
Vic 14	20	Lower hill country	1.0	20	1.0	20	
16	79	Mid hill, shady, Fescue tussock	0.6	47	0.6	47	
17	100	Mid slope, shady	1.0	100	1.0	100	
19	134	Sunny, mid slope, Hpi	0.25	33	0.25	33	
21	1164	Shady, steepland, short t, Matag	0.4	466	0.5	582	✓
23	60	Shallow ice & fan, Fescue tuss	0.25	15	0.5	30	✓
34% 1597 S2	40	Fan	1.0	40	1.0	40	
VIIe 1	15	Well covered snow tussock	0.5	8	0.5	8	
2	60	Depleted Fescue	0.4	24	0.4	24	
3	524	Shady snow tussock, good cover	0.4	210	0.5	262	✓
6	164	Sunny, poor, depleted, BGE	0.2	33	0.2	33	
9	224	Snow tussock, depleted	0.2	45	0.2	45	
10	125	Steep snow tussock, good	0.35	44	0.35	44	
12 & 14	536	Snow tussock, steep	0.25	134	0.25	134	
C2	108	Steep, sunny, BGE, depleted	0.2	22	0.2	22	
38% 1786 S2	30	Creek, floodplain	0.3	9	0.3	9	
VIII	1285	Various	0	0	0	0	
27% 1285							
	<u>4713</u>			<u>1316</u> or		<u>1469</u> or	
				0.28		0.31	
				su/ha		su/ha	

- Current grazing is approximately equal to assessed capacity
- Proposed grazing is approximately 0.1 su/ha, 500 su, below assessed capacity

272

AREA	CLASSIFIED	SIZ	NO IN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	AVG	PER
HA	BLOCK	EDGES	BLOCK													STOCKS	PER	CENT
HIGH EWE RANGE	1021	EWES	1 VAR													0	0.00	
	1021	E & LMB	1	500												115	0.11	
	1021																0.5+	
DARK MCREAS	111	EWES	1 VAR													0	0.00	
	111	E & LMB	1	200												46	0.42	
	111																1.5+	
EWE RANGE	496	EWES	1 VAR													0	0.00	
	496	E & LMB	1	250												58	0.12	
	496	LAMBS	0.7	400												75	0.15	
	496																2+	
CEMETARY	142	EWES	1 VAR													0	0.00	
	142	E & LMB	1	250												58	0.41	
	142																2+	
*BRIDGES	316	EWES	1 VAR													0	0.00	
(15 BLOCKS)	316	LAMBS	0.7	400												75	0.24	
	316	MA WITH	0.7	4000													162	0.51
	316	HOGGET	0.7	2000												162	0.51	
	316	RAM & KILL	0.7	200												129	0.41	
	316															528	1.67	
*DAM	393	HOGGET	0.7	550												89	0.15	
	393															89	0.15	
*RIVER FACE	341	HOGGET	0.7	750												121	0.36	
	341															121	0.36	
*BOGGET	298	HOGGET	0.7	1300												245	0.82	
	298	HOGGET	0.7	450												73	0.24	
	298	2 T EWES	1	800												154	0.52	
	298															472	1.58	
*SHRARING	181	HOGGET	0.7	700												132	0.73	
	181	HOGGET	0.7	250												40	0.22	
	181	2 T EWES	1	500												96	0.53	
	181															268	1.48	
COWS AND OTHERS RUN ON IMPROVED LAND																690		
* DENOTES BLOCKS WITH CHANGES TO GRAZING OR STOCKING RATE																		
TOTAL	11852															8545	0.72	9
																(APPROX)		

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APPENDIX 6

STOCK GRAZING CHART				TE AKATARAWA												PROPOSED FROM 1994			
				CULL 600 WTH CFA, SELL 700 2T															
				WEAN & 2T EWES TO FLOCK						RAM						SHEAR			
				V		V-		2T WTH TO FLOCK						V		SET STOCK LAMB			
AREA	CLASS OF STOCK	SU/EQUIV	NO IN BLOCK	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL STOCK UNITS	SUGG PER ANNUM	PC	
*WETHER	4713 MA WTH	0.7	1700	#####	#####				#####	#####	#####	###				458	0.10		
& SUGAR LOAF	4713	0.7	2900													508	0.11		
	4713															965	0.20		
POTATO PIT	532 MA WTH	0.7	400	#####	#####	#####	#####	#####								129	0.24		
	532															129	0.24		
*BACK	923 MA WTH	0.7	1150			#####	#####	#####								186	0.20		
EMMANUELS	923	0.7	1000													108	0.12		
	923	0.7	600													32	0.04		
	923 2T WTH	0.7	600					Possible								0	0.00		
	923															326	0.35		
*FNT EMMANUELS	280 MA WTH	0.7	400						#####	#####	#####	###				70	0.25		
(SUNNY BLOCK)	280 2T WTH	0.7	600	#####	#####											97	0.33		
	280															167	0.60		
*FRONT	359 MA WTH	0.7	600	#####	#####											32	0.06		
EMMANUELS	359	0.7	1150			#####	#####	#####								186	-0.33		
	359 2T WTH	0.7	600													97	0.17		
	359															315	0.55		
RAZOR BACK	912 EWES	1	350	#####									#####	#####	#####	108	0.12		
	912	1	3500													135	0.15		
	912															242	0.27		
DOWNNS PDK/RAM	222 EWES	1 VAR						#####	#####	###		#####	#####	#####	#####	215	0.97		
(8 BLOCKS)	222 E & LMB	1	700	#####													4+		
	222															0	0.00		
DOCK YD/AIRSTRIP	108 EWES	1 VAR		#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	215	1.99		
(3 BLOCKS)	108 E & LMB	1	700	#####													0.00		
	108 HAY					Make hay									Make hay		3+		
	108															0	0.00		
DOWNNS/BLK JACK	157 EWES	1 VAR		#####	#####				#####	###		#####	#####	#####	#####	127	0.81		
(2 BLOCKS)	157 E & LMB	1	550	#####												81	0.00		
	157 2T EWE	1	700	#####												3+			
	157																		

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AREA	CLASS OF STOCK	STOCK	NO IN EQUITY BLOCK	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL STOCK ENDS	AVERAGE	PER ANNUM
DARK MCREAS	111 EWES	1	VAR													0	0.00	
	111 E & LMB	1	200	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	46	0.42	
EIVE RANGE	496 EWES	1	VAR													0	0.00	
	496 E & LMB	1	250	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	58	0.12	
	496 LAMBS	0.7	400	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	75	0.15	1.5+
CEMETARY	142 EWES	1	VAR													0	0.00	
	142 E & LMB	1	250	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	58	0.41	
BRIDGES (15 BLOCKS)	316 EWES	1	VAR													0	0.00	
	316 LAMBS	0.7	400	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	58	0.16	
	316 MA WITH	0.7	4000	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	0	0.00	2+
	316 HOGGET	0.7	2200	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	75	0.24	
	316 RAM & KILL	0.7	200	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	162	0.51	
DAM	593 HOGGET	0.7	600	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	178	0.56		
	593 HOGGET	0.7	600	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	129	0.41	
RIVER FACE	341 HOGGET	0.7	800	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	544	1.72		
	341 HOGGET	0.7	800	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	97	0.16	
HOGGET	298 HOGGET	0.7	1400	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	97	0.16		
	298 HOGGET	0.7	500	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	129	0.38		
	298 2 T EWES	1	900	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	264	0.89		
	298 HOGGET	0.7	800	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	81	0.27		
SHEARING	181 HOGGET	0.7	300	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	173	0.58		
	181 2 T EWES	1	600	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	518	1.74	1	
	181 HOGGET	0.7	800	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	151	0.83		
COWS AND OTHER CATTLE RUN ON IMPROVED LAND																48	0.27	
TOTAL	11852 Ha															115	0.64	
																690	1.74	1
																9135	0.77	9651

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APPENDIX 6

STOCK GRAZING CHART				TE AKATARAWA								CURRENT 1990/91								TOTAL STOCK UNITS	STOCK PER ANNUM
				CULL 600-700 EWES								CULL 800 WTH CFA, SELL 700 2T									
				WEAN & 2T EWES TO FLOCK				RAM				SHEAR				SET STOCK LAMB					
				V				V				V				V					
AREA	CLASS	SP	STOCK	NO IN EQUIV	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL STOCK UNITS	STOCK PER ANNUM			
WETHER	4713	MA WTH	0.7	2200													592	0.13			
& SUGAR LOAF	4713		0.7	4000													700	0.15			
	4713	2T WTH	0.7	800				Possible									0	0.00			
POTATO PIT	532	MA WTH	0.7	400													1292	0.27			
	532																129	0.24			
BACK	923	MA WTH	0.7	1400													226	0.25			
EMMANUELS	923	2T WTH	0.7	800													129	0.14			
	923																355	0.39			
FRONT	839	MA WTH	0.7	600													97	0.12			
EMMANUELS	839		0.7	1400													226	0.27			
	839		0.7	1000													108	0.13			
	839	2T WTH	0.7	800													129	0.15			
RAZOR BACK	912	EWES	1	350													560	0.67			
	912		1	3500													108	0.12			
	912																135	0.15			
	912																242	0.27			
DOWNS PDK/RAM	222	EWES	1	VAR													0	0.00			
(8 BLOCKS)	222	E & LMB	1	700													215	0.97			
	222																215	4+			
DOCK YD/AIRSTRIP	108	EWES	1	VAR													0	0.00			
(3 BLOCKS)	108	E & LMB	1	700													215	1.99			
	108	HAY						Make hay									0	0.00			
	108																0	3+			
DOWNS/DLK JACK	157	EWES	1	VAR													0	0.00			
(2 BLOCKS)	157	E & LMB	1	550													127	0.81			
	157	2T EWE	1	700													81	0.51			
	157																0	3+			
HIGH EVE RANGE	1021	EWES	1	VAR													0	0.00			
	1021	E & LMB	1	500													115	0.11			
	1021																0.5+				

3.48
 "RELEASED UNDER THE OFFICIAL INFORMATION ACT"
 LINZ CHCH 3 3666422
 NO. 795 P. 23/60

Block No/ Name	Possible Options for Block	Preferred Option for Land Use (Landholder and CRC Officer to Complete)	Land Use Within RLM (comments see Appendix III)	Environmental Impact of Land Use	Programme to Achieve Agreed Land Use Option
River Face	1,2,8	1,2,8	1,2		continue present use. Note Hieracium and briar spread
Hogget	1,2,8	1,2	1,2		continue present use
Shearing	1,2,8,10	1,10	1,10		
Cemetery	1,7,9	1	1		
Cottage, House, etc	1,7,8,12,14		1		continue present use

Key:

Land Use Options Within RLM

- | | |
|-------------------------------|------------------------------------|
| (1) Grazing | (9) Fodder Banks of Dryland Shrubs |
| (2) Short Term Spelling | (10) Strategic Rabbit Fencing |
| (3) Long Term Spelling | (11) Irrigation |
| (4) Sell Interest in Block | (12) Scrub clearance |
| (5) Afforestation | (13) Tracking |
| (6) Retire Permanently | (14) Sub-divisional fencing |
| (7) Direct Drill clover/grass | (15) Cultivation to new pasture |
| (8) OSTD | (16) Other |

7/10

LAND MANAGEMENT DECISIONS

Te Akatarawa

Block No/ Name	Possible Options for Block	Preferred Option for Land Use (Landholder and CRC Officer to Complete)	Land Use Within RLM (comments see Appendix III)	Environmental Impact of Land Use	Programme to Achieve Agreed Land Use Option
Wether Range (Scrubby)	1,2,3,4,6,8,10,12, 14	1,2,3,10,14 possible 6, 8	1,2 possible 10	PNA (RAP) Scrubby Gully 800 ha sequence of scrub	Decrease grazing by sheep and rabbits possible rabbit net
Sugar Loaf	1,2,3,4,6,8,10	1,2,3,10 possible 6, 8	1,2 possible 10		"
Potato Pit	1,2,8	1,2	1,2		continue present use
Back Emmanuels	1,2,8	1,2,8	1,2,8	Little impact from AOS although management to limit Hieracium	AOS allow extra grazing by wether within limits
Front Emmanuels	1,2,8,10,14	1,2,10,14 AOS done	1,2,10,14	Maintenance of area to limit Heiracium	Fence allow better grazing management. Possible net will be at limit of rabbit spread
Razor Back	1,2,8	1,2	1		continue present use
Downs Paddocks Ram Paddocks	1,7,10,12	1,12	1		continue present use
Docking Yards Airstrips	1,7,9,10,12	1,12	1		continue present use
Downs Black Jack	1,7,10,12	1,12	1		continue present use
High Ewe Range	1,14	1	1		continue present use
Dark McReas	1	1	1		continue present use
Ewe Range (McReas)	1,14	1	1		continue present use
Dam	1,2,3,4,6,8,10	1,2,8	1,2		continue present use. Note Hieracium and briar spread