

# Initial Assessment of landsliding at Waituna Forest (Juken New Zealand Ltd) arising from 12<sup>th</sup> of June 2018 storm.

## Introduction

On the 25<sup>th</sup> of June 2018, Gisborne District Council was advised via email by Juken New Zealand Ltd that mobilisation of forestry debris had occurred in the Waituna Forest.

*Last week we suspected that material being silt and harvesting slash had left our forest and migrated to our neighbours property, being Dan Jex Blake. Due to the poor weather we had to wait until Saturday (23/06/2018) morning until we could fully access the level of damage with a helicopter.*

*Within the forest we have had wide spread slipping and high river levels. There has been significant silt and some slash that has migrated downstream as a result of mid-slope failures, Whilst JNL has a very high standard of harvesting and slash removal including debris dams, the amount of rain and saturation has unfortunately resulted in failure of mid slopes within our forest.*

Lois Easton required further information and supplied a Tier 1 reporting template. An incident report for the Waituna Forest (**Figure One**) was duly supplied on the 26<sup>th</sup> June (**Appendix One**) along with several photos.

Key elements of the report are as follows:

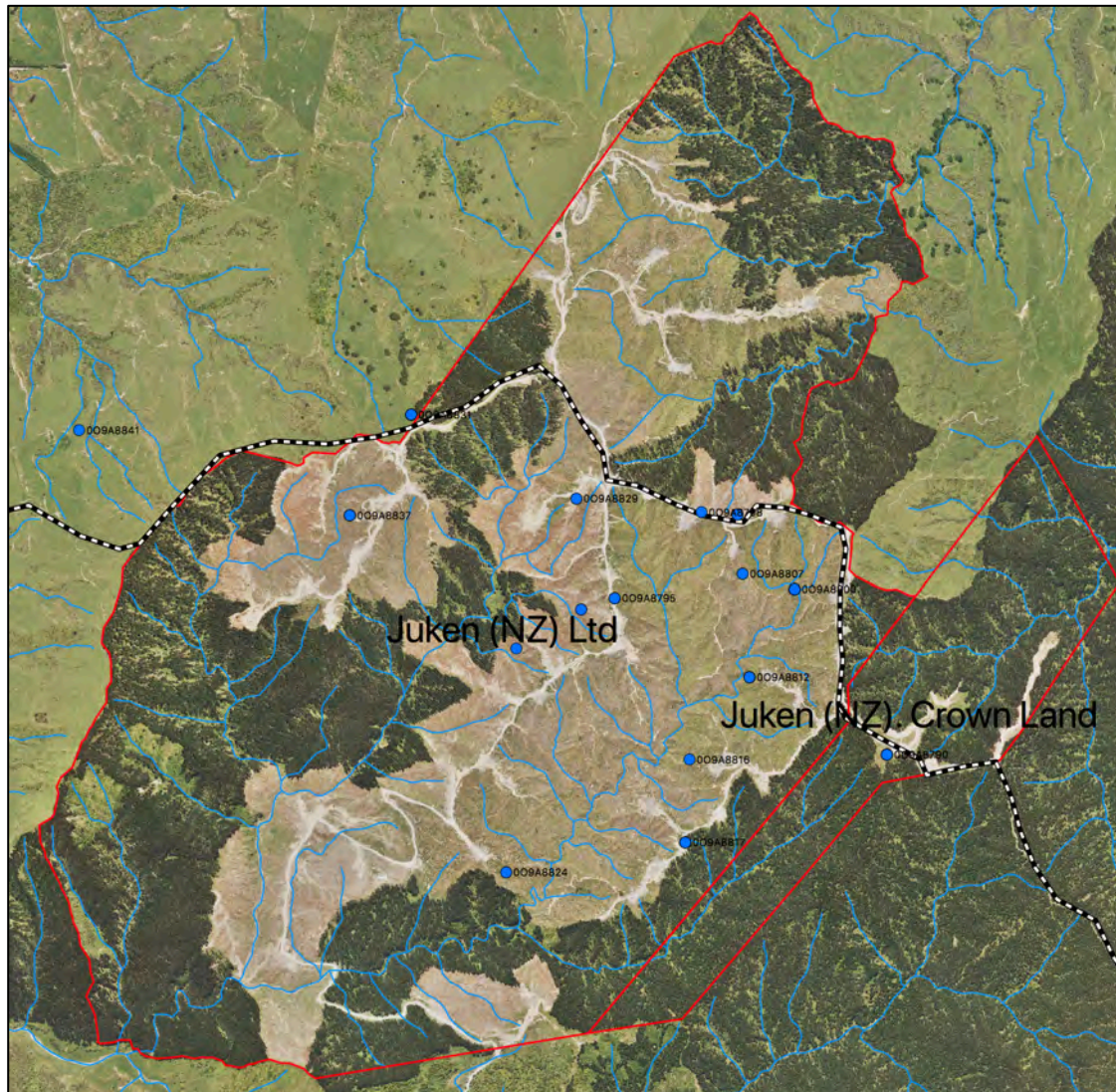
*Waituna Forest has suffered intense rainfall for the previous 4 weeks, some 720mm recorded at Papratu station since mid-May.*

*Mid-slope failures of old and new cutover with silt and logging slash migrating into the creeks and small volumes exiting forest to reside within neighbor's property. And Debris is Minor but Juken New Zealand Ltd wish to flag that the small volumes have come from our operation. JNL staff have undertaken aerial inspection and ground inspection. At this stage there is not a lot that can be done due to the location of the small piles of debris.*

## Ownership

The Juken New Zealand properties occur under two titles. The first of these being title number GS6A/6 and GS6A/7 GS6A/807 (covenant under Section 19 Crown Forests Assets Act 1989, Lot 1 DP 6508, Lot 1-2 DP 8023, Lot 1-6 DP 8024, and Lot 1 DP 8025). The second title being title number HBH4/1019 and HB(/1019 (Lot 1 DP 8025 & Lot 1 DP 16752).

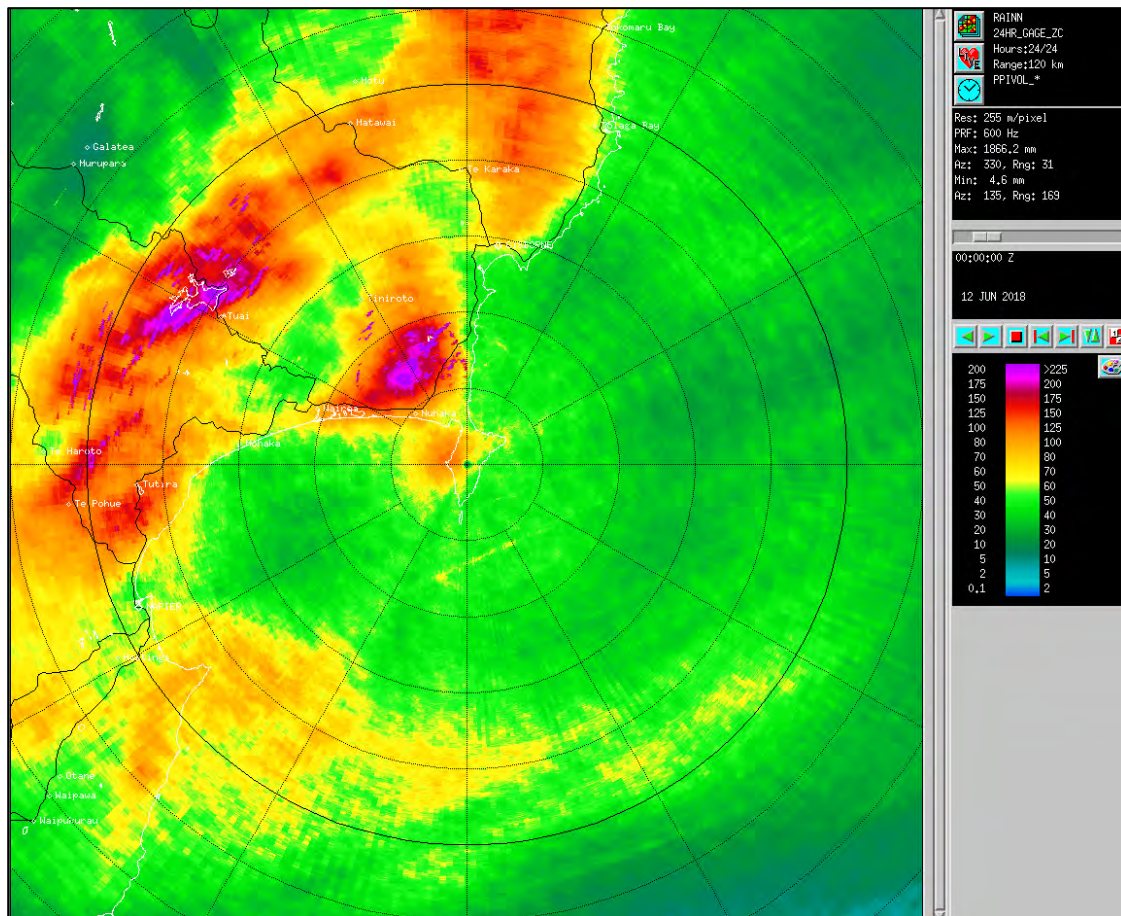
The area is covered by a resource consent LV2013-105662-00 (**Appendix Two**).



*Figure One. Waituna Forest Juken New Zealand Ltd showing property boundaries and extent of harvest at January 2018. Also shown are the locations where photographs were taken and the boundary of the Mangapoike (bottom left) and Waipoa Catchments. Harvest of this area was initiated in 2015 with much of the forest harvested between 2015 and 2018.*

### **Weather System**

While there was some heavy rain over the Wharerata in the Queens Birthday storm of 4<sup>th</sup> June, an inspection on the 10<sup>th</sup> of June 2018 suggested that this storm had not significantly impacted the Wharerata area. On the 12<sup>th</sup> of June, however, another storm hit the Tairāwhiti region causing significant flooding on the Poverty Bay Flats, re-mobilised woody debris in the Uawa, and ultimately the mobilisation of woody debris in the Mangapoike Catchment. While this event was generally perceived as wide rain band east of the Raukumara Ranges, damage to the Pāparatu Road and elsewhere as well as the Met Service rain radar indicated that a significant convection cell occurred over the Wharerata and further west at Lake Waikaremoana (**Figure Two**).



**Figure Two.** Rain Radar for the 12<sup>th</sup> June 2018 event showing the significant storm cell over the Wharerata ranges.

### The Assessment flight

The Institute of Geological and Nuclear Sciences (GNS) is mandated under the Geonet system to maintain a database of rainfall-induced landslides. GNS indicated an interest in flying a significant part of Tairāwhiti to assess the impact of the two Queens birthday storms. The flight was duly undertaken on the 11<sup>th</sup> of July 2018. The flight was undertaken using a Hughes 500D helicopter from Gisborne Helicopters with Drs Brenda Rosser and Dougal Townsend of GNS, and Murry Cave, Principal Scientist GDC on board. Dr Townsend focussed on still photography from the righthand side of the chopper while Dr Rosser videoed from the rear right hand side while I photographed from the rear lefthand side. All photographs were georeferenced. This discussion is based on the GDC observations as the GNS imagery has not been supplied at the time of writing.

The route taken was south east along the Poverty Bay flats and then south from Muriwai to the Wainake Bush. From there the flight focussed on the Waituna Forest before crossing to Lake Mangapoike and then up the western side of Poverty Bay to the headwaters of the Waipoa. The flight then returned

to Gisborne for refuelling and then headed north to Huanui Forest and the Mata returning via the Uawa and Pakarae catchments.

A total of 46 geo-referenced, sharp to resolvable photographs were taken over the forest by GDC. The total photographs taken were greater but a number of blurred or essentially duplicate photographs were eliminated from the analysis.

### **Photographic assessment**

The Tier One report provided to GDC after it was requested referred specifically to mid slope failures but did not reference any slope failures derived from other mechanisms. It is noted that the term “mid-slope failure” is not a commonly used term outside of the New Zealand forestry Industry. Mid-slope failures occur where soil partway up a slope fail during heavy rain. This assessment has identified a suite of failure types and mechanisms which are described below and tabled in **Appendix Three**.

A map of the Juken New Zealand property showing skid sites and assigned skid numbers is shown in **Appendix Four** below. The key photographs indicated in **Appendix Four** are described below.

### **Image 009A8790**



**Figure Three** Image 009A8790 looking west towards skid 8 (foreground) and skid 9 (middle ground). Both skid sites show skid edge failures which are significant at skid 9. The roadway to skid 9 also shows failure of sidecast material.

**Image 009A8792**



**Figure Four.** 009A8792 looking west towards skids 10, 11, 13, 14 and 15, showing slope failures from roadways (right), rough tracks (middle) and skid site (background left). A number a smaller mid slope failures are also evident.

**Image 009A8793**



**Figure Five** View of image 009A8793 showing failure at a natural bench below a skid site with replanted side cast material.

**Image 009A8794**



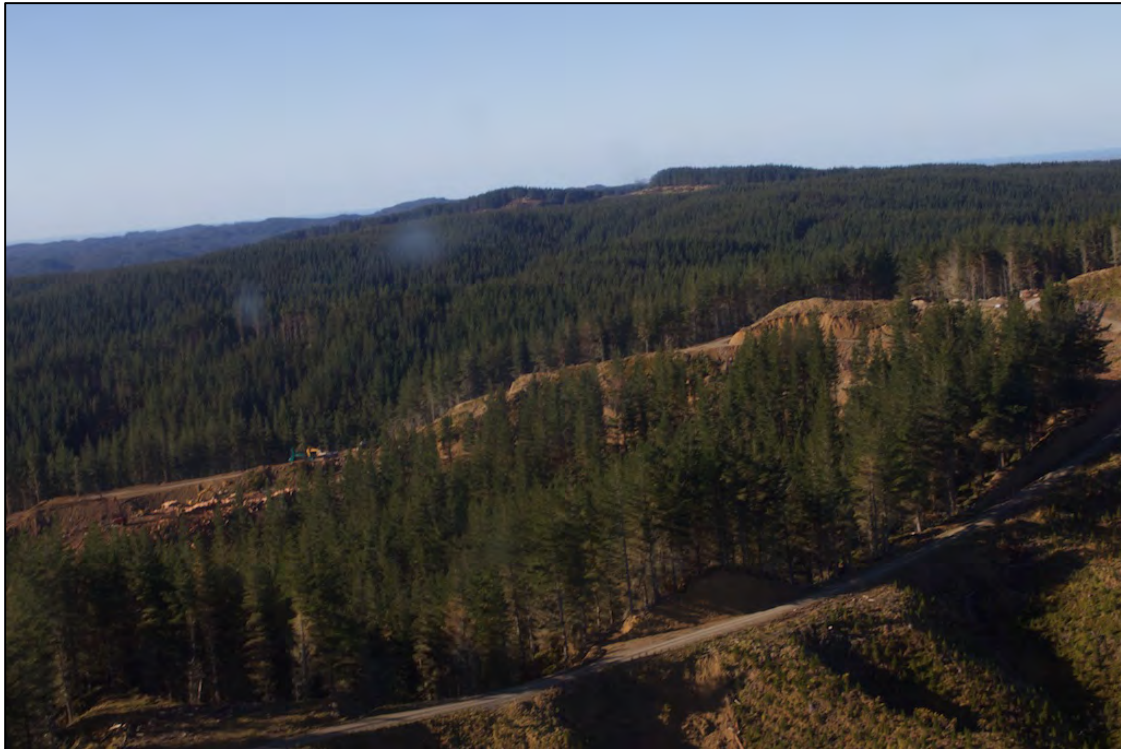
**Figure Six** View of Image 009A8795 looking south towards skid 11 showing flumes directing water onto sidecast material.

**Image 009A8796**



**Figure Seven.** View looking southwest towards skid 15 and beyond showing road edge failures, skid failures and failures from rough tracks on spurs.

**Image 009A8800**



**Figure Eight.** Image 009A8800 View looking west into the Waituna Forest showing a significant slope failure from the Roadway in the foreground. Indications of slope failures in side cast material in the right side background.

**Image 009A8802**



**Figure Nine.** Image 009A8802 view looking southwest showing debris flow failures from a rough track cut along a spur and skid site.

**Image 009A8805**



**Figure Ten.** Image 009A8805. A similar view to figure five which showed the area on the left hand side of 009A8805. Two large slope failures from skid sites 15-19 plus smaller failures from roadway are evident.

**Image 009A8808**



**Figure Eleven.** Image 009A8808 View of skid site 2? with woody material stowed on the edge of the skid with a collapse on the far right resulting in a debris flow and toe failure downstream.



Images 009A8812/13/14



**Figure Twelve.** View of skid site 4 showing slumping from rough track cut through skid. Slope failure visible top left from roadway.

Image 009A8818



**Figure Thirteen.** View of new skid site showing extensive side casting with some slumping.

Image 009A8819



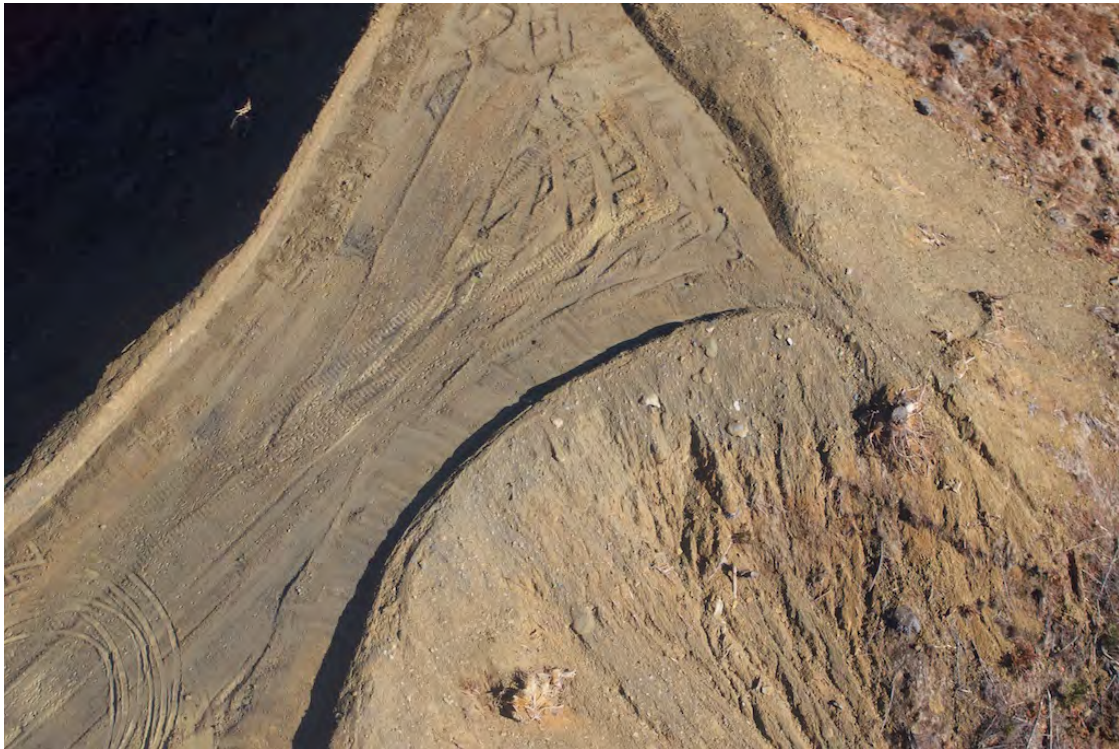
*Figure Fourteen.* View of new skid site (as in Figure Thirteen) showing failure on right hand side.

Image 009A8823



*Figure Fifteen.* View of skid 19 showing skid failure and downstream toe failures.

**Image 009A8826/27**



**Figure Sixteen.** View of new skid site showing berms directing water onto side cast material. Apparent root balls incorporated in side cast.

**Image 009A882**



**Figure Seventeen.** View looking towards south showing rilling on sidecast material.

**Images 009A8831/32/33**



**Figure Eighteen.** *View of skid 41 showing failures in side cast material.*

**Images 009A8834/35/36**



**Figure Nineteen.** *View of stowage of spoil on skid site 47.*

**Image 009A8837**



**Figure Twenty.** *View of skid site 41 showing failures in side cast material from roadway.*

### **Recommendations**

That a full Audit is undertaken and this which would probably require two teams for one day. Road access is possible.

## Appendix 1 – Tier 1 assessment – field example form

<b>Storm damage assessment form</b>		
Observer: Dylan Foster	Date: 26/06/2018	Forest: Waituna Forest
Catchment:	Mangapoike River/Mangaragiroa stm	
Observations within forest:	<p>Waituna Forest has suffered intense rainfall for the previous 4 weeks, some 720mm recorded at Papratu station since mid-May.</p> <p>Mid-slope failures of old and new cutover with silt and logging slash migrating into the creeks and small volumes exiting forest to reside within neighbor's property</p>	
Observations external to forest:	<p>In the Mangapoike river there are 4 piles of harvesting slash mixed with poplar's and Manuka. Some underneath the Papratu bridge and along the road. There is two piles of debris at the entrance to the newly formed lake.</p> <p>A farm bridge has been destroyed (estimated value of \$20k) estimated that slash and silt has destroyed the asset.</p> <p>In the Mangaragiroa Stm there is minor logging debris being only a number of singular pieces which is scatter downstream from the forest edge.</p>	
Supporting photographs:	As attached	
Other Comments:	<p>Debris is Minor but Juken New Zealand ltd wish to flag that the small volumes have come from our operation. JNL staff have undertaken aerial inspection and ground inspection. At this stage there is not a lot that can be done due to the location of the small piles of debris.</p> <p>JNL are working within the forest to remove debris from slash catchers and remove any material that may migrate downstream.</p>	

	<p>There is already a 12 ton excavator working along the road cleaning up fallen trees and silt and massive slips. The operators informed us that they were going to clean up the pile of slash that is accessible.</p> <p>No one would be able to remove anything from the entrance to the newly formed lake as it is too deep. Expect that some retrieval of material may be possible if lake level reduces in summer.</p> <p>JNL have been in contact with Affected Neighbor Dan Jex, Blake and will be ongoing as JNL seek to clean up what damage they can, and work together in regard to insurance claims.</p>
File reference:	

## Resource Consent Tracking Form

Consent Number: LV-2013-105662-00 Property File P/7220/1246  
Applicant: Jiken NZ Ltd  
Agent: Pete Sainsbury  
Address: \_\_\_\_\_  
Contact: PH: 8641180 Fax: 8691122  
Email: \_\_\_\_\_ Mobile: 0274570127  
Location: Waikanae Forest  
Grid Reference: X19 2920534 6247550  
Activity: Harvest  
Reporting Officer: Allan Hughes

### Processing of Application (Pink)

Date Received: \_\_\_\_\_ Date Accepted: \_\_\_\_\_  
S37: \_\_\_\_\_ S88(3) Incomplete: \_\_\_\_\_  
S92: \_\_\_\_\_ Iwi/Hapu Acknowledgement: \_\_\_\_\_  
S995A-F \_\_\_\_\_  
Notification: \_\_\_\_\_  
Issued: \_\_\_\_\_ Expires: \_\_\_\_\_

### Monitoring (Green)

Monitoring Dates and EDRMS Number: \_\_\_\_\_  
\_\_\_\_\_

Correspondence To Consent Holder and EDRMS Number: \_\_\_\_\_  
\_\_\_\_\_

### Variations (Yellow)

Variation(s) Date: \_\_\_\_\_  
\_\_\_\_\_



## RESOURCE CONSENT APPLICATION TRACKING FORM

<b>Application No:</b>	105662	<b>Type:</b>	LV
<b>Applicant:</b>	JUKEN NEW ZEALAND LIMITED	<b>File No:</b>	
<b>Lodged:</b>	17 Jan 2013	<b>Received:</b>	
<b>Location:</b>			
<b>Description of Activity:</b>	Upgrade 8.3 Km of existing road form 2.2Km of new road construct 45 landings clearfell 557 ha of exotic trees and extract logs by groundbased and cable hauler methods		
<b>Related Consents:</b>			
<b>Planner:</b>	Allan Hughes	<b>Notified:</b>	NO

- Is the information provided adequate?
- Is a Section 35 required?
- No circulation required.

Meeting is scheduled for: MON / WED / FRI

Payment Received: \$ / /

Bal if notified paid: \$ / /

### Circulate to (tick):

<input type="checkbox"/>	<b>Engineering &amp; Works</b>	
<input type="checkbox"/>	Admin – Graham Taylor	
<input type="checkbox"/>	<b>Roading –</b>	Cc. to Ro/Lynda(Admin)
<input type="checkbox"/>	Northern – Mark Joblin	
<input type="checkbox"/>	Eastern – Robin Beale	
<input type="checkbox"/>	Western – Darren Cox	
<input type="checkbox"/>	Bridges – Dennis Malone	
<input type="checkbox"/>	Projects – Louis Boeyen	
<input type="checkbox"/>	Safety – Lenora McDonald	
<input type="checkbox"/>	<b>Utilities -</b>	Cc. Lynnette(Admin)
<input type="checkbox"/>	Wastewater – Helen Churton	
<input type="checkbox"/>	Stormwater – Joss Ruifrok	
<input type="checkbox"/>	Water – Marcus Koll	
<input type="checkbox"/>	<b>Rivers and Land Drainage</b>	
<input type="checkbox"/>	<b>Conservation</b>	
<input type="checkbox"/>	Soil	
<input type="checkbox"/>	Water	
<input type="checkbox"/>	<b>Environmental Health</b>	
<input type="checkbox"/>	<b>Building</b>	
<input type="checkbox"/>	<b>Property Services</b>	
<input type="checkbox"/>	General – Graham Smail	
<input type="checkbox"/>	Reserves North – Jenny Allen	
<input type="checkbox"/>	Reserves West – Andrew Walker	
<input type="checkbox"/>	<b>Other (pls specify):</b>	
<input type="checkbox"/>		

<input type="checkbox"/>	<b>Maori Liaison Officer</b>	
<input type="checkbox"/>	<b>District Policy</b>	Cc. Jo Callis
<input type="checkbox"/>	Urban Design – Duncan Rothwell	
<input type="checkbox"/>	Reserves – De-Arne Sutherland	
<input type="checkbox"/>	General - Jo Callis	
<input type="checkbox"/>	Eastland Network	
<input type="checkbox"/>	Transpower	
<input type="checkbox"/>	Telecom – Downer Connect	
<input type="checkbox"/>	Vector Gas Ltd	
<input type="checkbox"/>	NZ Transport Agency	
<input type="checkbox"/>	Public Health Unit	
<input type="checkbox"/>	Dept. of Conservation	
<input type="checkbox"/>	Heart of Gisborne	
<input type="checkbox"/>	<b>Historic Places Trust:</b>	
<input type="checkbox"/>	Gisborne	
<input type="checkbox"/>	Tauranga	
<input type="checkbox"/>	Land Information NZ (DLR)	
<input type="checkbox"/>	<b>Te Runanga:</b>	
<input type="checkbox"/>	Turanganui a Kiwa	
<input type="checkbox"/>	Ngati Porou	
<input type="checkbox"/>	Paikea	

### Comments:




JUKEN NEW ZEALAND LTD  
EAST COAST FORESTRY  
74 McDonald Road, Matawhero  
P.O. Box 629, GISBORNE, N.Z.  
Telephone: +64 6 869 1180  
Facsimile: +64 6 869 1122

18 December 2012

Allan Hughes  
Soil Conservator  
Gisborne District Council  
P O Box 747  
Gisborne

### Resource Consent: Waituna Forest

Dear Alan,

I would like to apply for Resource Consent for the harvesting and road construction within Waituna Forest.

#### Areas of Harvesting Activity

Compartment	82	Approx.	56 ha
	83	Approx	96 ha
	85	Approx	63 ha
	86	Approx	42 ha
	87	Approx	90 ha
	88	Approx	97 ha
	89	Approx	50 ha
	90	Approx	<u>63 ha</u>
<b>Total Area</b>		<b>Approx</b>	<b>557 hectares</b>

#### Proposed Activity

To clearfell industrial plantation forests of *Pinus radiata*.

To facilitate these activities, we will need to upgrade existing forest roads, plus construct new roads and skid sites.

In order to manipulate our resource to suit market demands the harvesting of these stands could potentially happen over several years.

In light of this, I request a Resource Consent for 10 years to allow time for full and proper completion.

### **Roads and Landings**

We are fortunate to be able to use all of the existing roads constructed by the NZ Forest Service.

However to complete our proposed harvesting activity, we will need to upgrade approximately 8.3 km of existing road, construct approx. 2.2 km of new road and build 45 skid sites.

These roads are predominately on ridge tops giving consideration to grade, thus minimal earthworks will be required.

All earth works will be done in accordance with the NZ Forest Owners Association: NZ Environmental Code of Practice for Plantation Forestry plus JNL's Environmental FSC Best Practices.

### **Stream Crossing**

There is one stream crossing in this proposal.

It will be an open creek crossing with no structures being built.

### **Harvesting**

The majority of the crop will be harvested by cable hauler systems.

Hauler locations have been planned to achieve maximum deflection while minimising soil disturbance.

There are some areas of flat, undulating topography which lend themselves to ground base log extraction and this will be carried out from time to time.

The topography will limit the size of several landings.

Two staging the timber away for processing will be necessary to enhance safety and to improve productivity.

You will see on the map that some settings have no marked designated skid site.

This is due to using a Swing Yarder situated in various places along the road and the timber transported away to a processing site.

It has been identified that some of the processing sites will not be able to safely store log debris. Where this is the case, this log debris will be carted away and deposited onto a Safe Zone.

This is on a needs must basis as not all skids will fall into this category.

Safe Zones for log debris have been identified. These sites are either skids which are no longer needed or designated natural hollows which can safely store log debris with minimal risk of subsidence or failure.

The log debris in the safe storage zones may be burnt or left to rot.

This Resource Consent application is for less than half of the Waituna block. I have yet to complete the entire harvest plan, thus I now submit maps and application for the areas that I have planned and know.

A further application will be submitted for the remainder of this block once planning has been completed.

### **Debris Dams**

Permission is sought to build debris dams (natural and man made) at suitable stream locations.

The positioning of these devices will be such that they can be regularly monitored and maintained.

### **Historic Sites**

There are no known or registered historic sites within this application.

The New Zealand Forest Service carried out extensive archeological research in this area at the time of land clearing and establishment.

During this survey, no historic sites were found or registered on our Crown Forest License.

### **Replanting**

Cut over areas will be replanted with *P. radiata* in the winter following harvesting.

### **Aerial Spraying**

There are areas within this application that have a dense under story of vegetation which will impede planting.

This will need some form of chemical control to achieve successful re-establishment.

Thus within this application for land clearing and earthworks, I also seek permission to aerial spray where necessary to successfully re-establish a tree crop cover.

**Oversowing**

As per our standard practice, we will oversow all our cutover areas with a mixture of grass and lotus to assist with minimising soil erosion, water run off and assist with the suppression of noxious weeds.

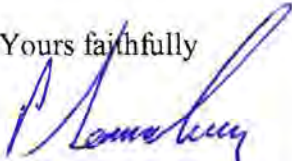
**Assessment of Environmental Effects**

An assessment has been made of the environmental effects of our proposed activities: see attached documents.

I consider that the overall impact on the environment will be minimal.

If you have any questions please don't hesitate to call.

Yours faithfully



Pete Sainsbury

**Attachments:** Resource Consent application forms  
Maps of Cpts 82, 83, 85, 86, 87, 88, 89, 90  
Map of Waituna Forest  
Assessment of Environmental Effects: Harvesting & Roding



# GISBORNE DISTRICT COUNCIL

Rec'd GDC	
Rec'd SO	
Rec'd Consents	
Category	
Officer	

## APPLICATION FOR A RESOURCE CONSENT UNDER SECTION 88 OF THE RESOURCE MANAGEMENT ACT

APPLICATION NO: \_\_\_\_\_ DATE RECEIVED: \_\_\_\_\_

<b>APPLICANT DETAILS:</b>		<b>AGENT DETAILS:</b>	
NAME: <u>Tukey New Zealand Ltd.</u>	NAME: <u>PETE SANDBURY</u>	ADDRESS: <u>7A Mac Donnells Road</u>	ADDRESS: <u>C/- JNL</u>
TELEPHONE: <u>869 1180</u>	FAX: <u>869 1122</u>	TELEPHONE: <u>0774 570 127</u>	FAX: _____
SIGNATURE OF APPLICANT/AGENT: <u>[Signature]</u>		DATE: <u>18-12-12</u>	

### I/WE APPLY FOR THE RESOURCE CONSENT(S) DESCRIBED BELOW:

**TYPE OF RESOURCE CONSENT SOUGHT** - Specify by ticking one or more of the following:

Land Use	<input checked="" type="checkbox"/>	Subdivision	<input type="checkbox"/>	Coastal	<input type="checkbox"/>
Water Permit	<input type="checkbox"/>	Discharge Permit: Air	<input type="checkbox"/>	Land	<input type="checkbox"/>
		Water	<input type="checkbox"/>		

LIST ANY ADDITIONAL RESOURCE CONSENTS WHICH ARE REQUIRED IN RELATION TO THIS PROPOSAL: (Indicate whether these have been applied for): N/A

### DESCRIPTION OF PROPOSED WORK: (Be as detailed as possible)

CLEARFELL INDUSTRIAL PLANTATION FOREST. UPGRADE EXISTING FOREST ROADS CONSTRUCT NEW ROADS AND SKID SITES - AERIAL SPRAY WHERE NECESSARY TO CONTROL WEED COMPETITION FOR RE ESTABLISHMENT

### LEGAL DESCRIPTION OF LAND TO WHICH THIS APPLICATION RELATES:

APID/STREET NO.: \_\_\_\_\_ ROAD/STREET: WATUNA FOREST: Cpts.

LOT NO: 1 D.P. NO: 8025 SEC NO: \_\_\_\_\_ BLK NO: \_\_\_\_\_

VAL. NO: \_\_\_\_\_ M L NO: CT# GS 6A/807

DESCRIBE LOCATION AS FULLY AS POSSIBLE: NZTM 3HA2 098 880

### IF OWNER/OCCUPIER, MAILING OR INVOICE ADDRESS IS OTHER THAN THE APPLICANT PLEASE COMPLETE THIS SECTION:

<b>OWNER OF PROPERTY:</b>	<b>OCCUPIER OF PROPERTY:</b>
NAME: _____	NAME: _____
POSTAL ADDRESS: _____	POSTAL ADDRESS: _____
MAILING ADDRESS FOR DECISION: _____	MAILING ADDRESS FOR ACCOUNT: _____

## GISBORNE DISTRICT COUNCIL

### LAND USE CONSENT APPLICATION FOR LAND DISTURBANCE OR VEGETATION CLEARANCE

#### GISBORNE DISTRICT COMBINED REGIONAL LAND AND DISTRICT PLAN

#### ADDITIONAL INFORMATION REQUIRED

APPLICANT: Juken New Zealand Ltd.

PROPERTY TENURE: WAITUNA FOREST - IS PART OF WHAREKATA FOREST  
 If leasehold, expires: WHICH IS A CROWN FOREST LICENSE.

AREA OF SCRUB OR TREE REMOVAL OR EARTHWORKS: 557 ha

LENGTH OF TRACKING OR ROADING: 8.3 km of upgrade + 2.2 km of NEW

HEAVY MACHINERY INVOLVED: HAULER AND SKEDDER TO LOG.

BULLDOZER AND EXCAVATOR FOR ROAD + SKID CONSTRUCTION

TYPE OF SCRUB OR TREES TO BE CLEARED: PLANTATION FOREST - RADIIATA

PROPOSED FUTURE USE OR MANAGEMENT OF AREA: \_\_\_\_\_

REPLANT w PINES. OVERSOW CUTOVER WITH GRASS + LOTUS.

PROPOSED TIMING: Commence JAN. / 2013 Finish DEC. / 2023.

MAP OF ACTIVITY: A suitable map showing location and relevant activity details must accompany this application.

If you have any queries regarding this application please contact the Soil Conservation Section. Telephone (06) 8672049 or (06) 8688285/(06)8672434 a/h.

Activities requiring prior consent are listed within the Gisborne District Combined Regional Land and District Plan. Copies are available at Te Puia Springs Service Centre, Fitzherbert Street Administration Centre and Awapuni Road Conservation section.

#### PRIVACY ACT 1993

The information provided on this form will be used to enable the Council to process your application. It will be only directly available to those people involved in determining your application and will be treated in confidence at all times. Insufficient information may lead to delays and/or rejection of your application. Under the Privacy Act 1993 you have a right of access to personal information held about you by the Council.

## Assessment of Environmental Effects Worksheet

Location Waituna Forest Assessor Pete Sainsbury

Compartments: 82, 83, 85, 86, 87, 88, 89, 90

Operation Earthworks Date 18/12/2012

Element	Indicator	Is indicator affected?	Brief description of effect	Severity	Probability	Risk
<i>Soil</i>	Disturbance	Yes	Localised to roads and skid sites	1	10	10
	Compaction	Yes	Localised to roads and skid sites	1	10	10
	Contamination	No				0
	Quality/Productivity	No				0
	Erosion	Yes	Localised and short term. Possible silt migration in heavy rain	2	5	10
<i>Water</i>	Quality/Contamination	Yes	Sedimentation of water courses	2	5	10
	Stream bank damage	No				0
	Stream bed damage	No				0
	Stream slash	No				0
	Stream Crossing	Yes	Open creek crossing with no structures built	1	2.5	2.5
<i>Site Quality</i>	Slash buildup	No				0
	Noxious weed spread	Yes	Machine washdown before arrival if previously working in noxious weeds	1	2.5	2.5
	Waste management	Yes	Isolated to machine servicing sites. All waste to be removed.	1	2.5	2.5
	Fuel Management	No	Fuel delivered daily. Only small quantities are kept on site			0
<i>Air</i>	Dust	Yes	Operational dust	1	2.5	2.5
	Smoke	Yes	Diesel fumes	1	2.5	2.5
<i>Community</i>	Noise Pollution	Yes	In isolated areas. No neighbours to hear the noise	1	2.5	2.5
	Damage to Property	No				0
	Disruption to services	No	No services in this area			0
	Disruption to activities	No				0
	Visual disruption	No				0
<i>Ecological</i>	Threats to wildlife	No				0
	Threats to vegetation	No				0
<i>Cultural &amp; Historic sites</i>	Threats to sites	No	There are no known or registered historic sites			0
<i>Other(specify)</i>						0

### You need to consider:

- : effects after the implementation of Best Environmental Practices
- : normal and abnormal operating conditions
- : actual impacts from incidents, complaints and nonconformance record
- : potential impacts arising from future events or conditions
- : severity /consequences and probability/likelihood of condition
- : positive & negative impacts

Develop objective and target and continuous improvement programme for risk scores over 15

Criteria	Severity	x	Probability	=	Risk
	nil	0	0		never
very small area	slight	1	2.5		low/unlikely
local and short term	minor	2	5.0		likely
local and long term	medium	3	7.5		often or high
extensive and short term	major	4	10.0		always/very likely
extensive and long term	critical	5			



# Assessment of Environmental Effects Worksheet

**Location** Waituna Forest **Assessor** Pete Sainsbury

Compartments: 82, 83, 85, 86, 87, 88, 89, 90

**Operation** Cable Harvest **Date** 18/12/2012

Element	Indicator	Is indicator affected?	Brief description of effect	Severity	Probability	Risk
<i>Soil</i>	Disturbance	Yes	Topsoil disturbance	1	5	5
	Compaction	Yes	Limited to landing areas	2	5	10
	Contamination	Yes	Localised to skid sites. Minor machine oil leaks	1	5	5
	Quality/productivity	Yes	Limited to landing areas	1	5	5
	Erosion	Yes	Localised and short term. Land is oversown and replanted	1	5	5
<i>Water</i>	Quality/Contamination	Yes	Localised and short term	2	5	10
	Stream bank damage	Yes	Localised and short term. Logs being dragged over streams where log suspension is not possible	2	5	10
	Stream bed damage	Yes	Localised and short term. Logs being dragged over streams where log suspension is not possible	2	5	10
	Stream slash	Yes	Localised: branches and debris roll or dragged into stream.	2	5	10
	Stream Crossing	N/A				0
<i>Site Quality</i>	Slash buildup	Yes	Heads dragged into gully bottoms by logs. Birdsnests on landings.	2	5	10
	Noxious weed spread	Yes	Machinery washed down prior to entering the work site	1	2.5	2.5
	Waste management	Yes	Isolated to skid sites. All rubbish to be removed	1	2.5	2.5
	Fuel Management	No	Fuel delivered daily. Only small quantities are kept on site	1	2.5	2.5
<i>Air</i>	Dust	Yes	Wind disturbed soil	1	2.5	2.5
	Smoke	Yes	Diesel fumes	1	5	5
<i>Community</i>	Noise Pollution	Yes	Machine noises, but there are no neighbours to hear them	1	2.5	2.5
	Damage to Property	No	No neighbours adjacent to work sites			0
	Disruption to services	No	No services in this area			0
	Disruption to activities	No				0
	Visual disruption	No				0
<i>Ecological</i>	Threats to wildlife	Yes	Vegetation clearance but will be replanted	2	5	10
	Threats to vegetation	Yes	Vegetation clearance	2	5	10
<i>Cultural &amp; Historic sites</i>	Threats to sites	No	There are no known or registered historic sites			0
<i>Other(specify)</i>						

**You need to consider:**

- : effects after the implementation of Best Environmental Practices
- : normal and abnormal operating conditions
- : actual impacts from incidents, complaints and nonconformance record
- : potential impacts arising from future events or conditions
- : severity /consequences and probability/likelihood of condition
- : positive & negative impacts

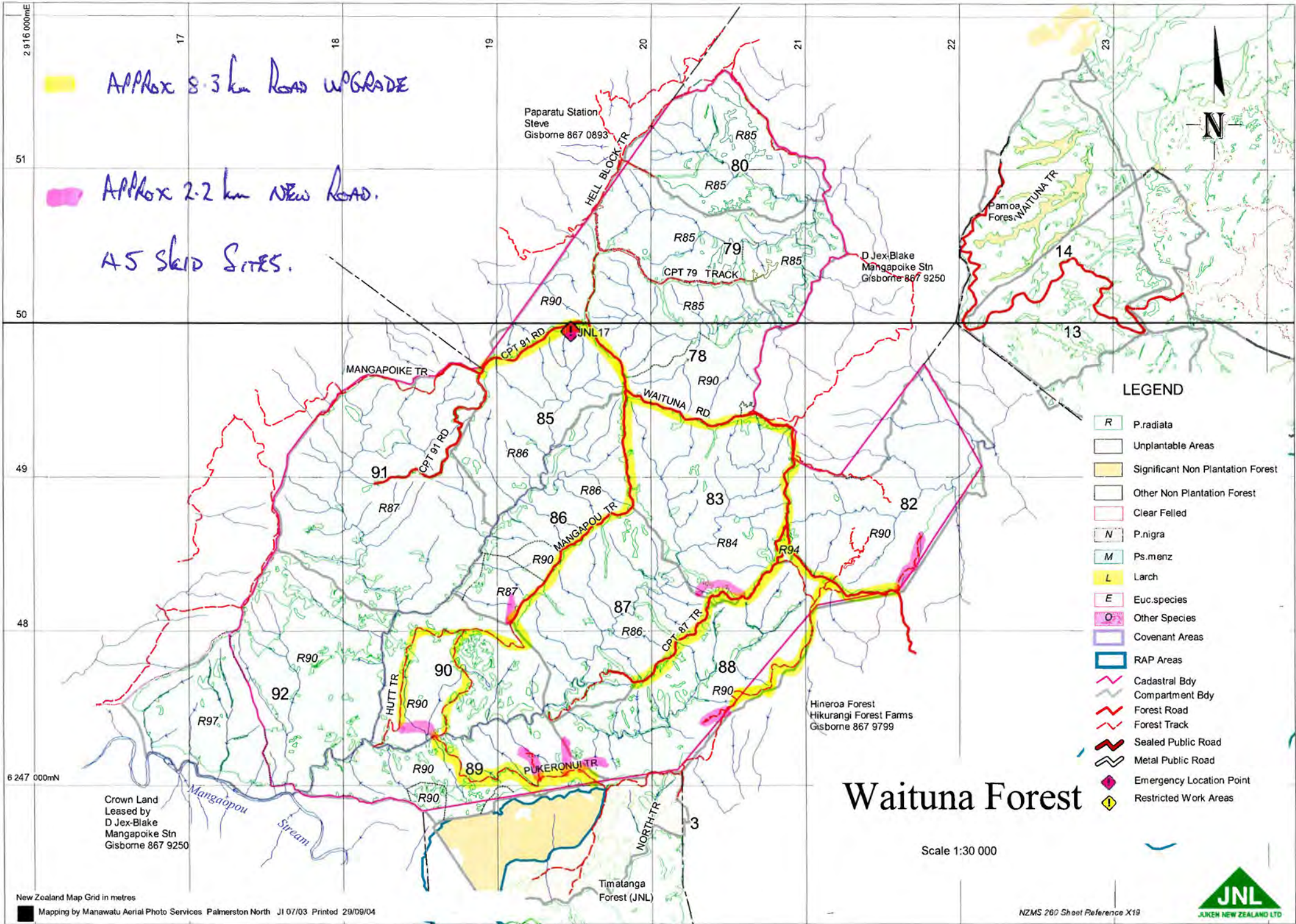
Develop objective and target and continuous improvement programme for risk scores over 15

Criteria	Severity	x	Probability =	Risk
	0		0	never
very small area	1		2.5	low/unlikely
local and short term	2		5.0	likely
local and long term	3		7.5	often or high
extensive and short term	4		10.0	always/very likely
extensive and long term	5			

Approx 8.3 km Road UPGRADE

Approx 2.2 km NEW ROAD.

45 Skid SITES.



**LEGEND**

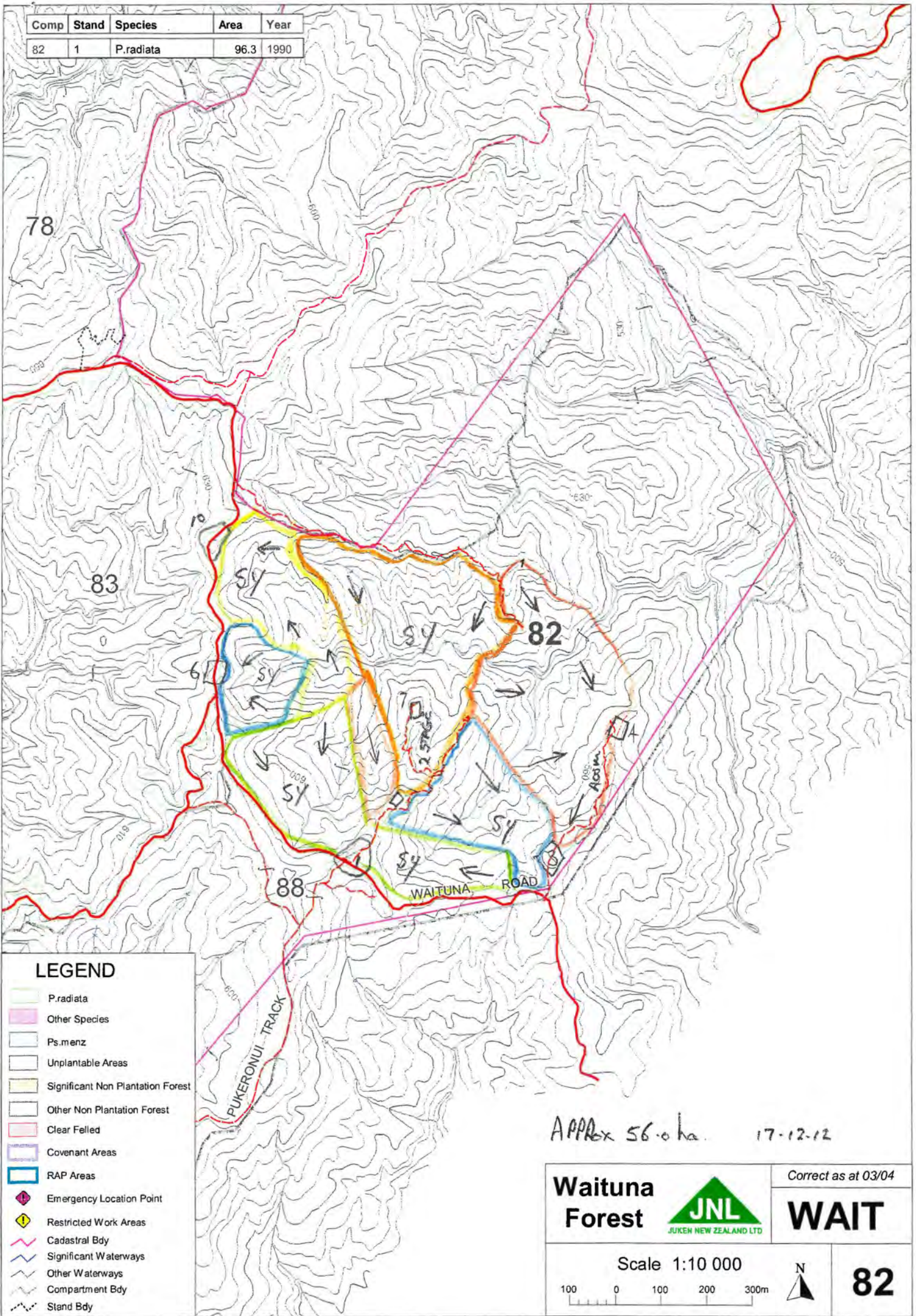
R	P.radiata
[White Box]	Unplantable Areas
[Yellow Box]	Significant Non Plantation Forest
[Light Green Box]	Other Non Plantation Forest
[Red Box]	Clear Felled
[N]	P.nigra
[M]	Ps.menz
[L]	Larch
[E]	Euc.species
[O]	Other Species
[Purple Box]	Covenant Areas
[Blue Box]	RAP Areas
[Pink Wavy]	Cadastral Bdy
[Grey Wavy]	Compartment Bdy
[Red Wavy]	Forest Road
[Red Dashed]	Forest Track
[Black Wavy]	Sealed Public Road
[Black Solid]	Metal Public Road
[Pink Diamond]	Emergency Location Point
[Yellow Diamond]	Restricted Work Areas

# Waituna Forest

Scale 1:30 000



Comp	Stand	Species	Area	Year
82	1	P.radiata	96.3	1990



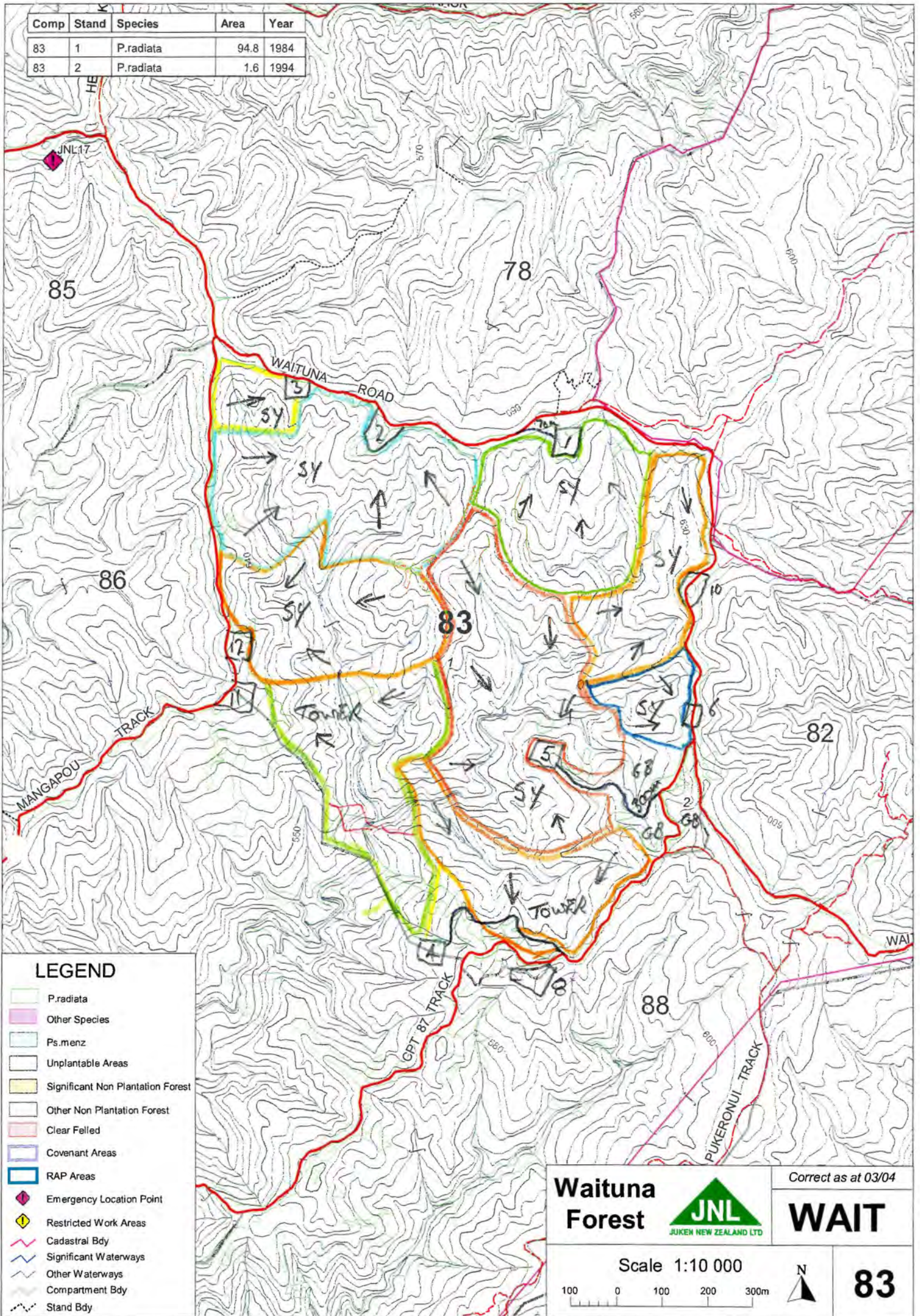
**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

APPA ~~ex~~ 56.0 ha. 17-12-12

<p><b>Waituna Forest</b></p>	<p><b>JNL</b> JUKEN NEW ZEALAND LTD</p>	<p>Correct as at 03/04</p> <p><b>WAIT</b></p>
<p>Scale 1:10 000</p>		<p>N</p>
		<p>82</p>

Comp	Stand	Species	Area	Year
83	1	P.radiata	94.8	1984
83	2	P.radiata	1.6	1994



**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

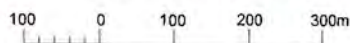
**Waituna Forest**



Correct as at 03/04

**WAIT**

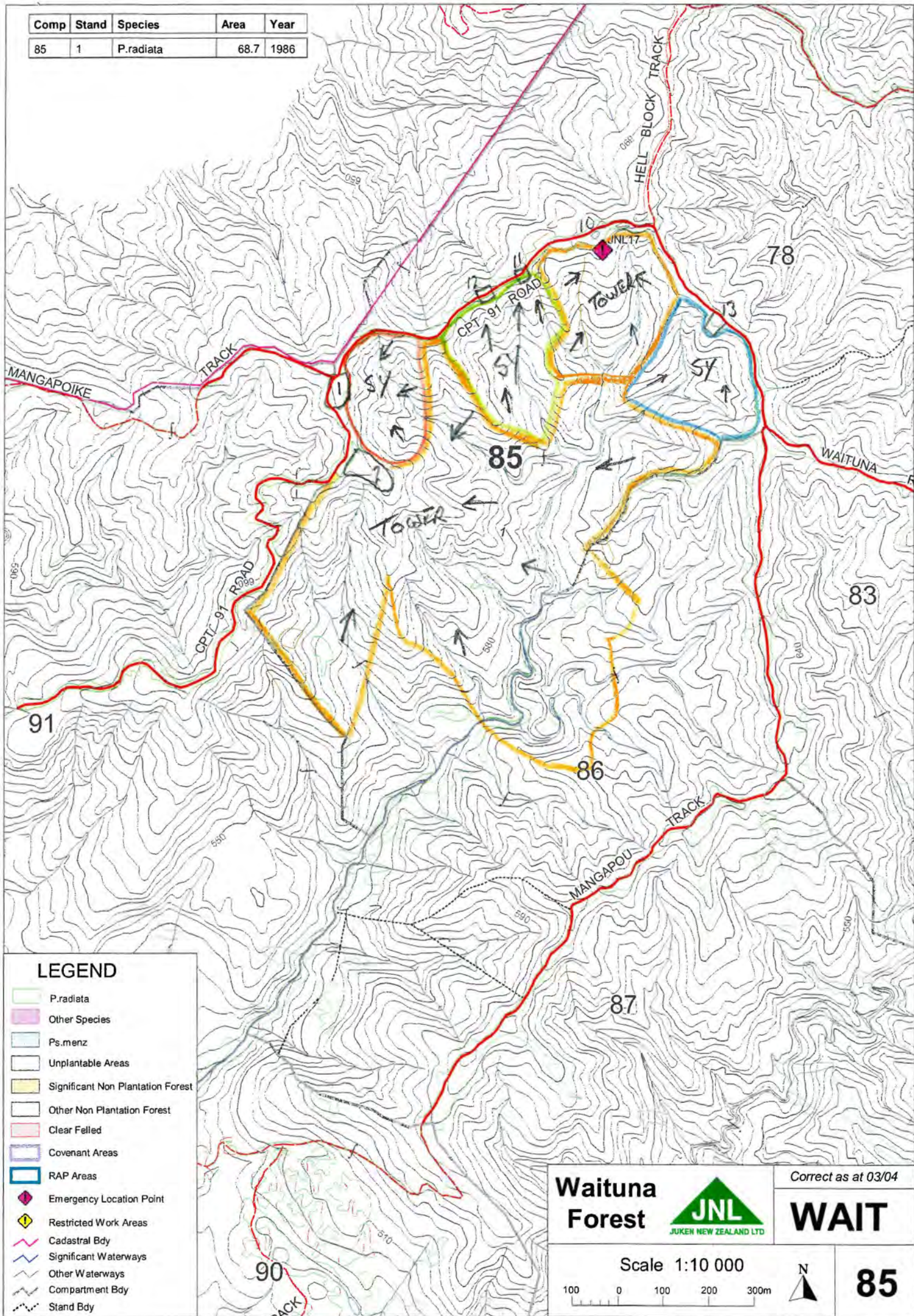
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**83**

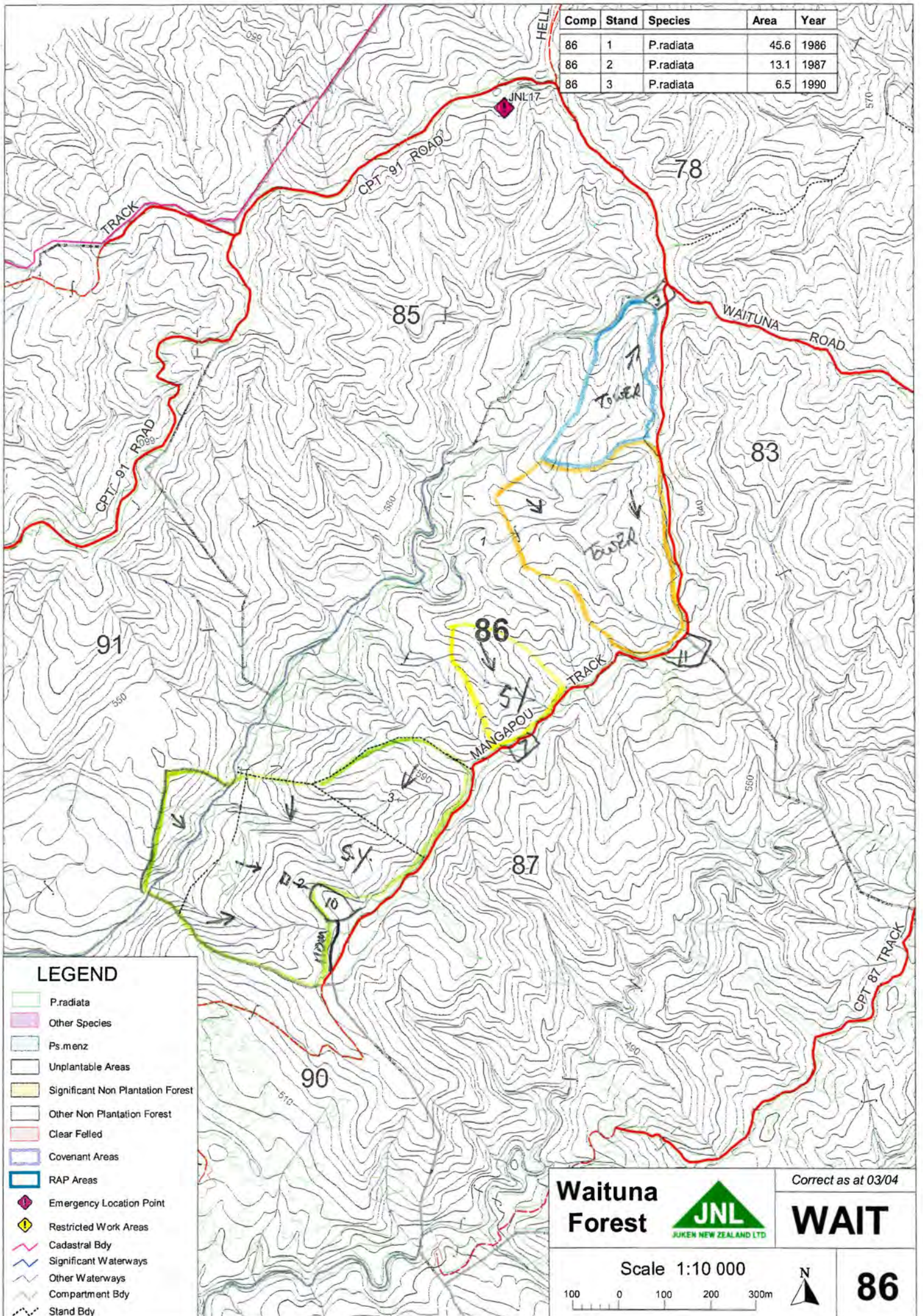
964h 17-12-12

Comp	Stand	Species	Area	Year
85	1	P.radiata	68.7	1986




APPAX 63 ha. 17.12.12

Comp	Stand	Species	Area	Year
86	1	P.radiata	45.6	1986
86	2	P.radiata	13.1	1987
86	3	P.radiata	6.5	1990




**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

Waituna Forest  Correct as at 03/04

**WAIT**

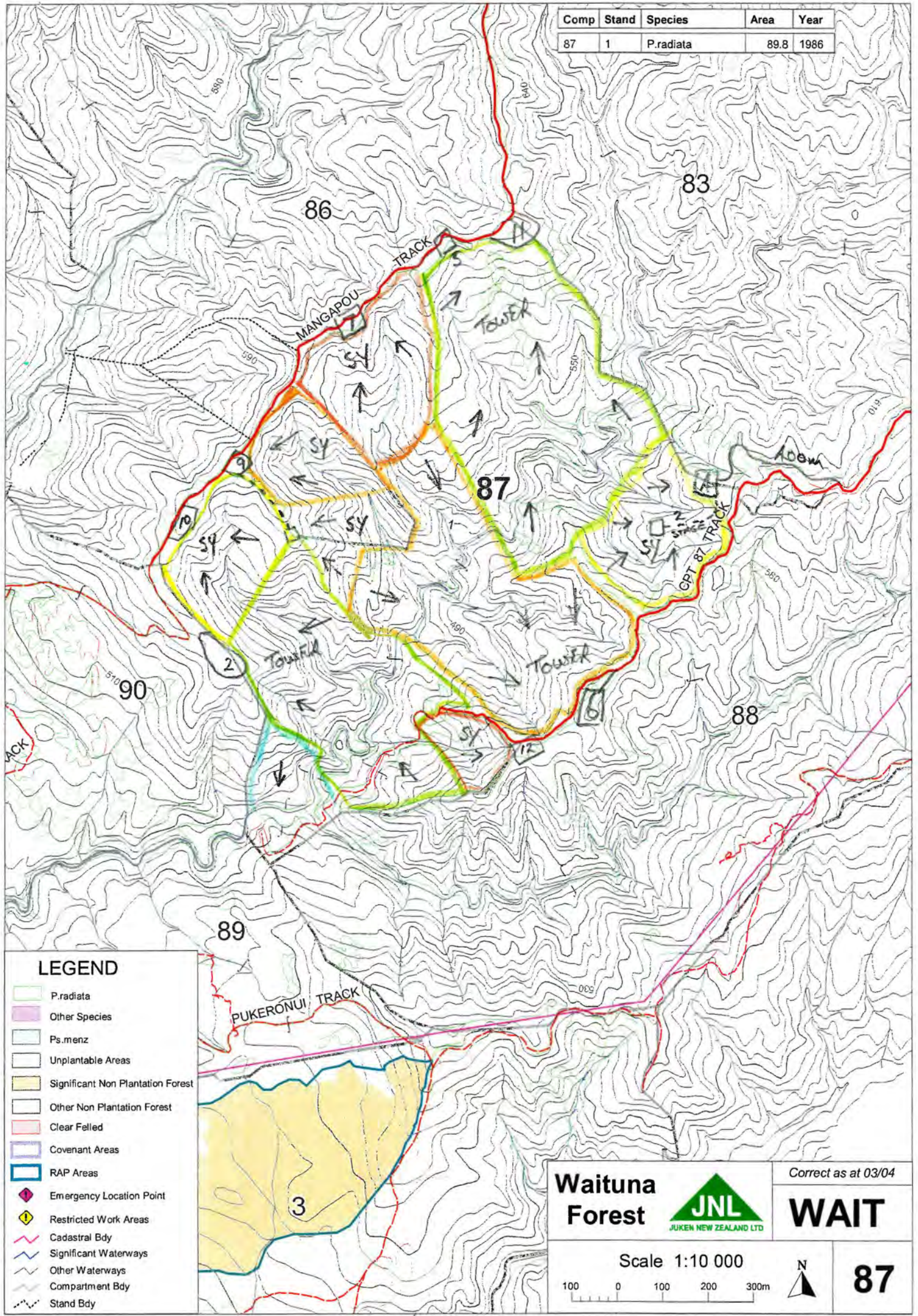
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100 0 100 200 300m 

**86**

APPROX 42ha 17-12-12

Comp	Stand	Species	Area	Year
87	1	P.radiata	89.8	1986



**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

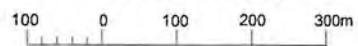
**Waituna Forest**



Correct as at 03/04

**WAIT**

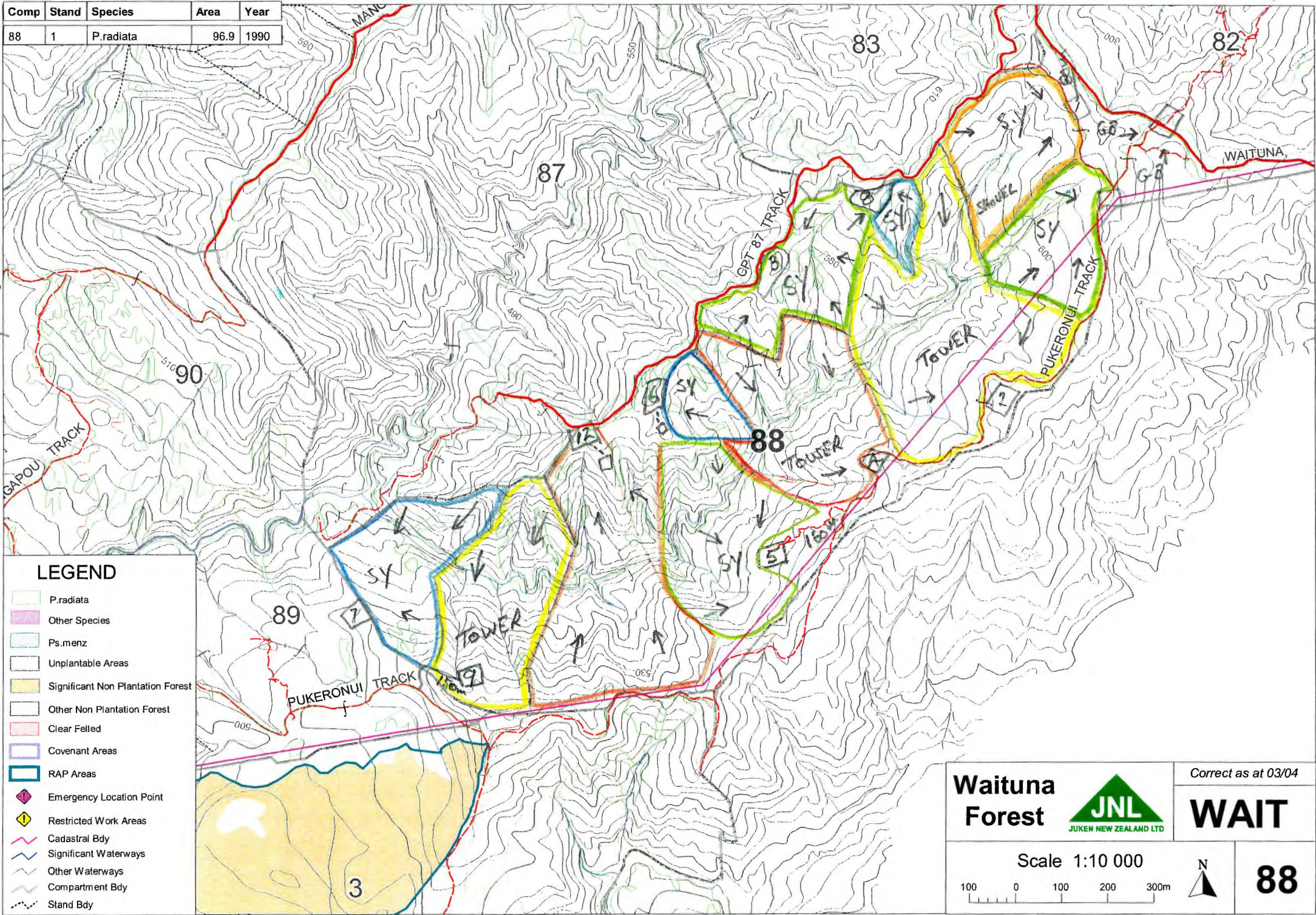
Scale 1:10 000



**87**

89.8 ha 17-12-12

Comp	Stand	Species	Area	Year
88	1	P.radiata	96.9	1990



**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

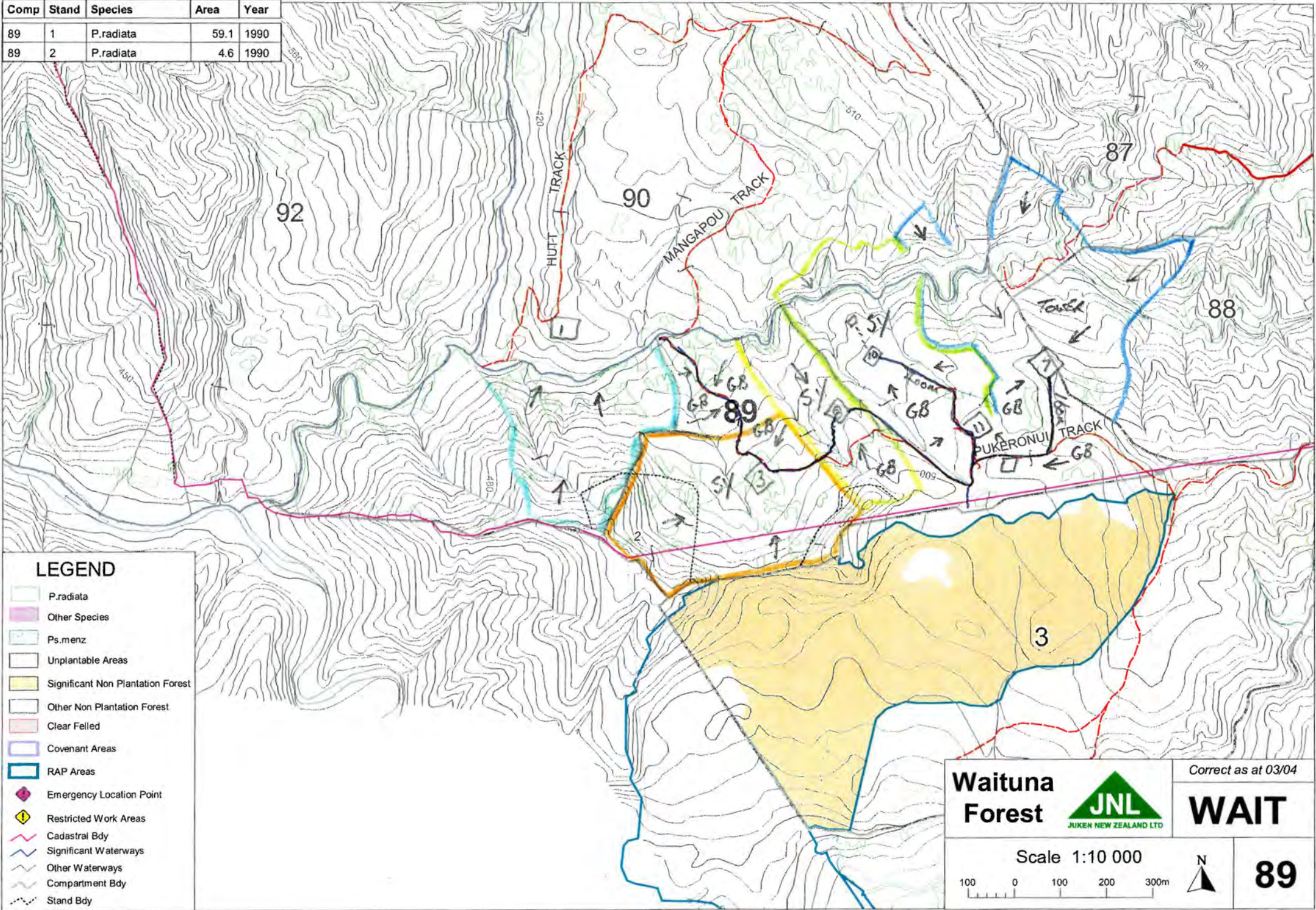
<p><b>Waituna Forest</b></p>	<p><b>JNL</b> JUKEN NEW ZEALAND LTD</p>	<p>Correct as at 03/04</p> <p><b>WAIT</b></p>
<p>Scale 1:10 000</p>		<p>N</p>
		<p>88</p>

96.9 ha  
17.12.12



Comp	Stand	Species	Area	Year
89	1	P.radiata	59.1	1990
89	2	P.radiata	4.6	1990

ANM 50 km 17-12-12



**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

Correct as at 03/04

**Waituna Forest**

**JNL**  
JUKEN NEW ZEALAND LTD

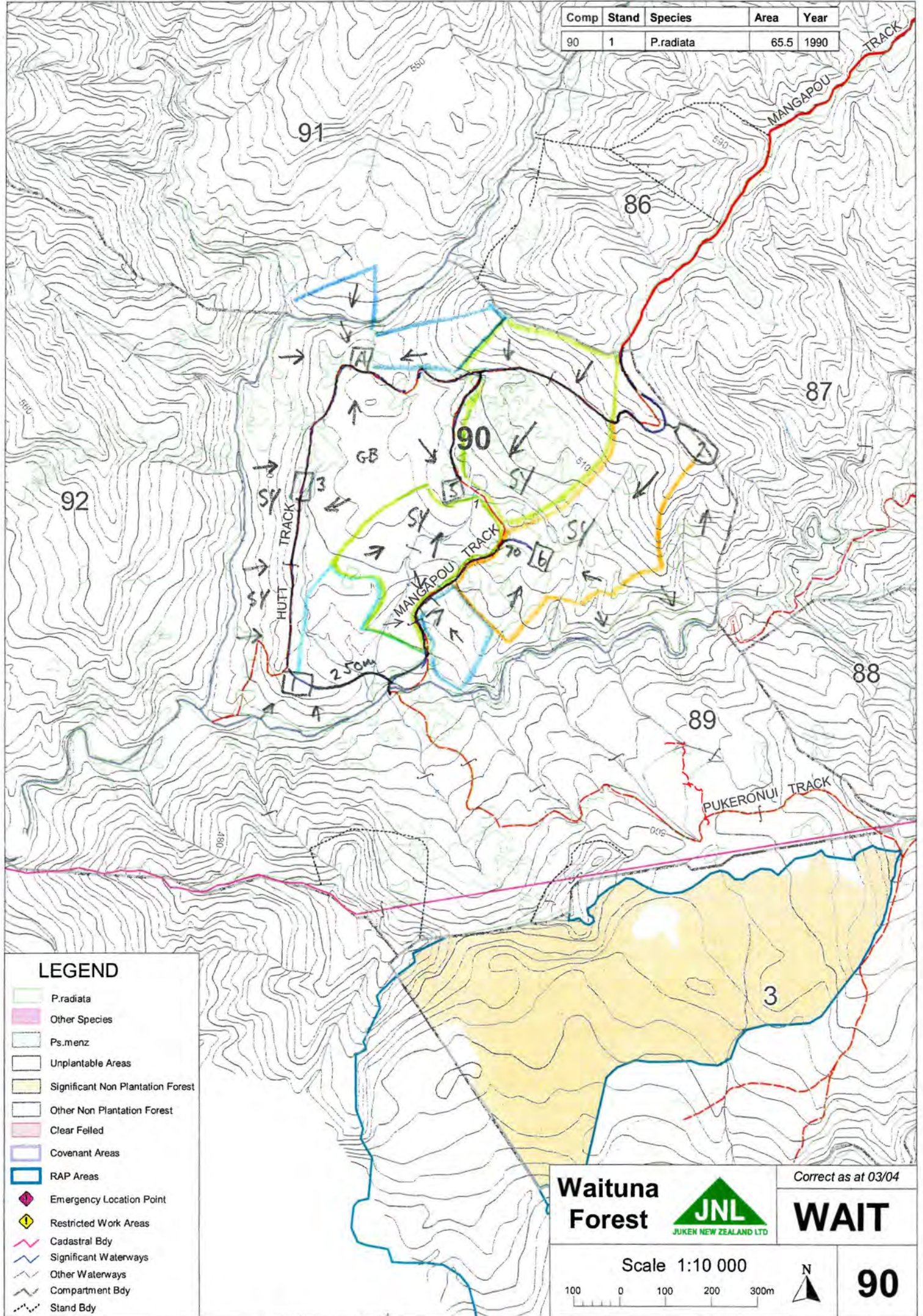
**WAIT**

Scale 1:10 000

N

89

Comp	Stand	Species	Area	Year
90	1	P.radiata	65.5	1990



**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

**Waituna Forest**

JUKEN NEW ZEALAND LTD

Correct as at 03/04

**WAIT**

Scale 1:10 000

N

90

APPX 236 17.12.17

# Section 95 A – F Assessment - Regional Consent Gisborne District Council

CONSENT NO: \_\_\_\_\_ FILE NO: \_\_\_\_\_  
APPLICANT(S): Suken New Zealand Ltd  
LOCATION: Cpts 82 83 85 86 87 88 89 90, Waituna Forest  
MAP REF: X19 2920534 '6247550' VAL. NO: 0833 007 903  
LEGAL DESCRIPTION: lot 1, DP 8025  
OFFICER: Allan Hughes

TYPE OF ACTIVITY:  Vegetation Clearance  
 Land Disturbance  
 Vegetation Clearance & Land Disturbance

STATUS OF ACTIVITY:  Controlled  
 Restricted Discretionary  
 Discretionary  
 Non-Complying

Specific Checklists area also required for each of these resource consent types:

## 1.0 INTRODUCTION

The applicant(s) wishes to: Upgrade 8.3km of existing road, form 2.2 km of new road, construct 45 landings, clearfell 557 ha of exotic trees & extract logs by groundbased and cable hauler methods.

See copy of Resource Consent application for a full description of the proposed development/activity.

## 2.0 PLAN ASSESSMENT

### 2.1 The Partly Operative Combined Regional Land and District Plan (PoCRLDP)

The site is zoned \_\_\_\_\_ and is also covered by the following overlays:

- OVERLAYS:
- |  |  |
|--|--|
| <input type="checkbox"/> Land Overlay 1            | <input type="checkbox"/> PMA                                   |
| <input checked="" type="checkbox"/> Land Overlay 2 | <input type="checkbox"/> Coastal                               |
| <input checked="" type="checkbox"/> Land Overlay 3 | <input type="checkbox"/> OLA                                   |
| <input type="checkbox"/> Land Overlay 3a           | <input type="checkbox"/> Wetland                               |
| <input type="checkbox"/> Riparian                  | <input type="checkbox"/> Flood Hazard                          |
| <input type="checkbox"/> Coastal Hazard            | <input type="checkbox"/> Heritage Alert (Archaeological sites) |

The following Plan rule(s) are triggered (please provide brief explanation):

Chapter 3

Chapter 4

Chapter 5

Chapter 6

6.9.2.2, 6.9.3.2.

Chapter 7

**3.0 SPECIAL CIRCUMSTANCES : SECTION 95A (4)**

A Consent Authority may decide to notify an application if it considers special circumstances exist in relation to an application. Are there special circumstances?

Yes (see below)

No

If special circumstances exist this application may be notified, what are the Special Circumstances and do the special circumstances warrant notification?

**5.0 REQUEST FOR NOTIFICATION: SECTION 95A (2)**

Has the applicant requested that their application(s) be notified?

Yes - This application must be notified, go to s 9.0.

No

**6.0 This Section is not for Controlled Activities, move to Section 8.0**

Will the activity have or is likely to have Adverse Effects? : SECTION 95A(2)(a)

Environmental Effects On: (Please Circle Issues)	Less than minor, minor or more than minor	Council Division
Land, Flora and Fauna (Trees, Fauna/Wildlife Landform Water bodies Groundwater)	Minor	Soul Co
Infrastructure (Water Supply, Effluent Disposal, Stormwater Control, Energy Supply, Telecommunication)		
Natural Hazards (Land Stability, Coastal Flooding)		
Living Environments		

(Building Dominance, Character, Shadowing of Neighbours/Street Privacy for Neighbours, Site Coverage, Amenity Streetscape)		
<b>Cultural Heritage</b> (Heritage Alert Overlay, Heritage Precinct, Archaeological/Waahi Tapu Site(s)/Area(s), Post European Contact Schedule)	—	
<b>Traffic Generation and Vehicle Movements</b> (On Site Parking, Rooding Capacity On Street Parking, Driver and/or Pedestrian Safety, Traffic Generation, Noise, Vehicle Movements)		
<b>Nuisance</b> (Odour, Noise, Hours of Operation, Dust, Air Discharges, Vibration)		

What effects are excluded from consideration?  
(**Restricted Discretionary** activities only)

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What effects does the Proposed Plan permit?

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Should the 'Permitted Baseline' be applied?

No

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**Summary:** Are you satisfied that the effects of the activity will be minor? (Only if the answer is 'Yes' will there be any point in considering Section 8.0).

Yes - the total area will be progressively harvested over a period of time, max 10 years.

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### 8.0 95E Consent authority decides if person is affected person

- (1) A consent authority must decide that a person is an affected person, in relation to an activity, if the activity's adverse effects on the person are minor or more than minor (but are not less than minor).
- (2) The consent authority, in making its decision,—
  - (a) may disregard an adverse effect of the activity on the person if a rule or national environmental standard permits an activity with that effect; and
  - (b) in the case of a controlled or restricted discretionary activity, must disregard an adverse effect of the activity on the person that does not relate to a matter for which a rule or national environmental standard reserves control or restricts discretion; and
  - (c) must have regard to every relevant statutory acknowledgement made in accordance with an Act specified in Schedule 11.
- (3) Despite anything else in this section, the consent authority must decide that a person is not an affected person if—
  - (a) the person has given written approval to the activity and has not withdrawn the approval in a written notice received by the authority before the authority has decided whether there are any affected persons; or

(b) it is unreasonable in the circumstances to seek the person's written approval.

Are there any affected persons?

Yes (see table below)

No

N/A

Have all of these persons given written approval to the proposal?

Yes

No

N/A

Has the proposal changes since the written approval were sought?

Yes

No

N/A

Affected Persons	Address	Reason	Written Approval Obtained <input checked="" type="checkbox"/>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

**Summary:** Are you satisfied that the effects on the activity will be no more than minor?

Roading involves mainly minor upgrade of existing road network. The open stream is an existing crossing & minor work required to bring up to standard (mainly getting road aggregate on base of crossing).  
 Where ridges are narrow & steep a swing yarder will work the road harvesting as it goes & logs will be 2-staged to existing skids or processed on the road.  
 Replanting will occur winter immediately following harvesting.

**7.0 DECISION**

Pursuant to Section 95 A-B of the Resource Management Act 1991 I hereby grant the decision to process the subject Resource Consent application as a:

- Non-Notified
- Limited Notified - Service notice on all affected persons required Section 95B (1).
- Notified - Notify and serve on persons in Regulation 10.

**Recommended by:**

Officer(s): *A. Hughes*  
Position(s): *Sar Sar Conservation officer*  
Date: *17.2.2013*

## VARIATIONS



**APPLICATION AND OFFICERS REPORT**

## **Report on Non-Notified Resource Consent (Regional)**

<b>Applicant:</b>	Juken New Zealand Ltd
<b>Subject:</b>	Form 10,500 metres of road, construct 45 landings, clearfell 557 ha of exotic trees and extract logs by ground-based and cable hauler methods.
<b>Legal Description:</b>	Lot 1 DP 8025
<b>Status:</b>	Restricted Discretionary
<b>Consent No.:</b>	LV-2013-105662-00
<b>Reporting Officer:</b>	Allan Hughes

---

### **1. Introduction**

#### **1.1 Proposed Activity**

The applicant proposes to undertake earthworks involving the formation of roads and landings and the clearfelling and extraction of exotic trees.

#### **1.2 Location**

The site is located at Cpts 82, 83, 85, 86, 87, 88, 89 and 90, Waituna Forest. The area consists of Overlays 1, 2 and 3 and flows into the Mangapoike River.

Map reference: at or about BH42 2920534 6247550.

Legal description: Lot 1 DP 8025.

#### **1.3 Background**

The area was developed into forestry by Timberlands in 1984, 1986 and 1990.

### **2. Reason for Consent**

A land disturbance consent is required for the formation of the roads and landings.

A vegetation clearance consent is required for the clearfelling and extraction of exotic trees.

Relevant legislation relating to the proposed activity includes the following, S9 Restrictions on use of land of the Resource Management Act 1991 (RMA 1991), Chapter 2 Land Management of the Gisborne District Council Regional Policy Statement (RPS), Chapter 3 Heritage Alert Overlay, Chapter 4 Riparian Management Area Overlay, Chapter 6 Soil Conservation of the Partly Operative Combined Regional and District Plan (PoCRLDP).

### **3. Consultation**

No consultation is required. This consent has been processed on a non-notified basis.

## 4. Statutory Assessment

### 4.1 Section 104 requirements

Subject to Part 2 of the Act, Section 104(1) requires Council, when considering an application for a resource consent, to have regard to:

#### S104 Consideration of Applications

- (1) *When considering an application for a resource consent and any submissions received, the consent authority must, subject to Part 2, have regard to -*
- (a) *Any actual and potential effects on the environment of allowing the activity; and*
  - (b) *Any relevant provisions of -*
    - (i) *a national environmental standard;*
    - (ii) *other regulations;*
    - (iii) *a national policy statement;*
    - (iv) *A New Zealand coastal policy statement;*
    - (v) *A regional policy statement or proposed regional policy statement;*
    - (iv) *A plan or proposed plan; and*
  - (c) *Any other matter the consent authority considers relevant and reasonably necessary to determine the application.*
- (2) *When forming an opinion for the purposes of subsection (1)(a), a consent authority may disregard an adverse effect of the activity on the environment if [[a national environmental standard or]] the plan permits an activity with that effect.*
- (2A) *When considering an application affected by section 124 [or 165ZH(1)(c)], the consent authority must have regard to the values of the investment of the existing consent holder.*
- (2B) *When considering a resource consent application for an activity in an area within the scope of a planning document, a consent authority must have regard to any resource management matters set out in that planning document.*
- (2C) *Subsection (2B) applies until such times as the regional council, in the case of a consent authority that is regional council, has completed its obligations in relation to its regional planning documents under section 93 of the Marine and Coastal Area (Takutai Moana) Act 2011.*
- (3) *A consent authority must not -*
- (a) *when considering an application, have regard to-*
    - (i) *trade competition or the effects of trade competition; or*
    - (ii) *any effect on a person who has given written approval to the application*
  - (b) *Repealed.*
  - (c) *grant a resource consent contrary to-*
    - (i) *section 107, 107A, ..., or 217;*
    - (ii) *an Order in Council in force under Section 152;*
    - (iii) *any regulations;*
    - (iv) *wahi tapu conditions included in a customary marine title order or agreement;*
    - (v) *section 55(2) of the Marine and Coastal Area (Takutai Moana) Act 2011*
  - (d) *grant a resource consent if the application should have been... notified and was not.*

- (4) A consent authority considering an application must ignore subsection (3)(a)(ii) if the person withdraws the approval in a written notice received by the consent authority before the date of the hearing, if there is one, or if there is not, before the application is determined.
- (5) A consent authority may grant a resource consent on the basis that the activity is a controlled activity, a restricted discretionary activity, a discretionary activity or a non-complying activity, regardless of what type of activity the application was expressed to be for.
- (6) A consent authority may decline an application for a resource consent on the grounds that it has inadequate information to determine an application.
- (7) In making an assessment of the adequacy of the information, the consent authority must have regard to whether any request made of the applicant for further information or reports resulted in further information or any report being available.

#### **4.2 Actual and Potential Effects**

The actual and potential effects of the proposed activity are considered to be less than minor to minor with appropriate consent conditions in place and being adhered to. The area is remote in particular some short term sediment generation is expected.

Environmental effects that may arise from the land disturbance and vegetation clearance associated with the proposed activity include:

- Top soil/soil disturbance
- Increased sedimentation
- Surface wash and scouring
- Slash in waterways
- Vegetation damage in waterways.

#### **4.3 Policies**

Key Policy Statements and Plans that have been considered include:

1. Resource Management Act 1991 (RMA 1991)
  - Gisborne District Council Regional Policy Statement.
  - Gisborne District Council's Part Operative Combined Regional land and District Plan.

#### **4.4 Part 2 of the RMA**

- S 5. Purpose
- S 6. Matters of national importance
- S 7. Other matters
- S 8. Treaty of Waitangi

## **Part II Comment**

The purpose of the RMA is to promote sustainable management of natural and physical resources while at the same time allowing communities to provide for the social, economic and cultural well being, health and safety. This consent will fulfil this purpose.

## **5. Notification**

The proposal involves land disturbance and vegetation clearance. All relevant rules include a specific clause that applications shall not be publicly notified and shall be considered without the written approval of affected parties.

Part Operative Gisborne District Combined Regional Land and District Plan Rules:

6.9.2.2 Vegetation Clearance – Restricted Discretionary Activity

6.9.3.2 Land Disturbance – Restricted Discretionary Activity

Chapter 3 Rules do not apply as the consent area is outside the Heritage Alert Layer and there are no known archaeological sites.

4.10.2.1 Vegetation Clearance – Controlled Activity

It is considered by the Consent Authority that with the attached conditions, the activity will not have or is not likely to have an adverse effect on the environment (section 95A to 95F of the RMA 1991)

Land disturbance proposed is not within the heritage alert layer and there are no known archaeological sites in the vicinity, and as such the standard archaeological footnote applies.

No special circumstances exist that would require notification.

The applicant has not requested public notification.

## **6. Decision**

Pursuant to Sections 104 and 104C of the Resource Management Act (1991), consent is granted under delegated authority to Juken New Zealand Ltd for a period of 10 years to form 2.2km of new road, construct 45 landings, clearfell 557ha of exotic trees and extract logs by groundbased and cable hauler methods, all as shown on the eight attached maps.

1. The construction of the road, landings and the harvesting of vegetation shall be in accordance with the maps and application lodged with the Consent Authority on 17 January 2013 unless altered by the following conditions:

### **Road and Landing Construction**

2. Road formation width as measured from the base of the cut batter to the top of the fill batter shall be no greater than 7 metres except on corners where a greater width is essential for safe traversing.
3. Cut-offs and culverts shall not discharge directly onto fill or sidecast material.
4. Sidecast material shall not be deposited into any watercourse.
5. Base-metalling shall be completed within six weeks of completed road formation being open to wheeled heavy vehicles.

6. Runoff onto landings is to be intercepted by cut-off drains and is to discharge clear of all fill.
7. Road and landing fills on slopes greater than 24° are to be benched and fill compacted or armoured so that fill does not progressively slump down slope.
8. Road construction is to be undertaken in the dry season and when soils are dry enough to prevent rutting and puddling deeper than 30cm.

#### **Ground Based Extraction**

9. Earthworks shall be limited to arterial tracks and removal of occasional obstructions defined by a density involving no more than 4% in total of the ground-based area indicated on the consent map and have a track width no greater than 4 metres.
10. Track construction is to be undertaken in the dry season and when soils are dry enough to prevent rutting and puddling deeper than 30cm.
11. Cut-offs are to be installed at a maximum spacing of one every 50 metres along arterial tracks to disperse water and prevent ponding and scouring.
12. The front end of each log is to be lifted clear of the ground at all times during extraction.

#### **Cable Hauler Extraction**

13. With the exception of areas close into the landings and small localised blind areas, at least one end of the log is to be lifted clear of the ground at all times during hauling.
14. When hauling logs across protected or incised watercourses, disturbance shall be limited to occasional sweeping and then where greater deflection or less adverse effects from alternative settings are demonstrably unachievable.

#### **Harvesting: General**

15. Ephemeral channels draining runoff are to be kept open.
16. Water is to be directed into existing watercourses.
17. Logs are not to be dragged up or down protected watercourses.
18. All logs down to 15cm in an incised or protected watercourse, or slash of whatever size greater than 50cm total depth above the protected watercourse beds (marked on the attached harvest plan map in blue) which are causing or are likely to cause water flow deflection into the banks, are to be removed immediately upon the completion of logging.
19. No replanting of exotic trees is to occur within 10 metres of the beds of protected watercourses as measured in a horizontal plane, or within the incised banks of the protected watercourses – whichever is the greater. Planting of exotic trees is not to extend into areas that at the time of harvest had a canopy of predominantly indigenous tree species.
20. No unstable accumulation of slash, log ends, tree heads or waste logging material – including mixed in spoil – are to be left on or beneath landing edges at the conclusion of logging.
21. Slash debris on slopes is not to be burnt.

22. Areas harvested to each landing shall be replanted with exotic tree seedlings at a minimum of 1000 evenly distributed seedlings per hectare within 18 months of harvesting ceasing to that landing unless:
  - a. the harvested area will be hauled over when harvesting adjacent forest areas under the same rotation; or
  - b. harvested areas are restricted to narrow strips sufficient only to enable new road and landing formation.
23. Re-established exotic tree seedlings shall be kept free of weed competition. Herbicide applications shall be by precise spot application only.
24. Once tree establishment has occurred domestic stock numbers are to be controlled such that tree revegetation is not materially adversely affected.
25. The Environmental Services Manager of Gisborne District Council may, after the granting of this consent, give notice of intention to review the conditions of this consent pursuant to Section 128 of the Resource Management Act 1991. The time period for reviewing the consent shall be at one month intervals for the first twelve months and then at twelve month intervals, with written notice to be given at least twenty working days ahead of the review date of the consent conditions for all or any of the following purposes:
  - a) To require the consent holder to adopt the best practical option to remove or reduce an adverse effect on the environment; or
  - b) To deal with any other adverse effects on the environment on which the exercise of the consent may have an influence.

## 7. Reasons for Decision

- i. The land disturbance and vegetation clearance is unlikely to have a more than minor affect on sediment generation.
- ii. The principle environmental issues associated with the proposed activity are accelerated erosion and the potential for sediment generation and associated run-off. These are deemed to be of less than minor impact.
- iii. Conditions placed on the activity will avoid or mitigate the potential impact on the environment.
- iv. The activity is not contrary to any relevant plans or policies.
- v. The activity is consistent with the purpose and principles of the Resource Management Act 1991.

Prepared by:

p.p. 


Allan Hughes  
Senior Soil Conservation Officer

Date: February 2013

Approved under delegated authority by:



Trevor Freeman  
Environmental Services Manager

  
Date: February 2013



# GISBORNE DISTRICT COUNCIL RESOURCE CONSENT



## LAND USE CONSENT FOR LAND DISTURBANCE AND/OR VEGETATION CLEARANCE

Pursuant to, section 104 & 104C of the Resource Management Act 1991 the  
GISBORNE DISTRICT COUNCIL hereby grants the following:-

COPY

**CONSENT NUMBER:** LV-2013-105662-00      **FILE NUMBER:** P/7220/1246

**CONSENT HOLDER:** JUKEN NEW ZEALAND LIMITED

**OF:** PO Box 629  
GISBORNE

**LEGAL DESCRIPTION:** LOT 1 DP8025

**SITE LOCATION:** Cpts 82, 83, 85, 86, 87, 88, 89 and 90, Waituna Forest, at or about  
Map and Grid Ref: NZMS 260: BH42 2920534 6247550

**CONSENT TO:** Upgrade 8.3 Km of existing road, form 2.2Km of new road  
construct 45 landings, clearfell 557 ha of exotic trees and extract  
logs by groundbased and cable hauler methods, all as shown on  
the attached 8 maps.

**APPROVAL DATE:** 8 February 2013      **EXPIRY DATE:** 31 December 2023

This consent is subject to the conditions specified in the attached resource consent  
decision.

Signed at Gisborne this Thursday 14 February 2013 for and on behalf of the Gisborne District  
Council

T G Freeman  
Environmental Services Manager (Issued pursuant to delegated authority)

Any enquiries concerning this consent may be directed to:- Allan Hughes

**SOIL CONSERVATOR**



**CONDITIONS OF RESOURCE CONSENT**  
Consent Number LV-2013-105662-00

Pursuant to Sections 104 and 104C of the Resource Management Act (1991), consent is granted under delegated authority to Juken New Zealand Ltd for a period of 10 years to form 2.2km of new road, construct 45 landings, clearfell 557ha of exotic trees and extract logs by groundbased and cable hauler methods, all as shown on the eight attached maps.

1. The construction of the road, landings and the harvesting of vegetation shall be in accordance with the maps and application lodged with the Consent Authority on 17 January 2013 unless altered by the following conditions:

**Road and Landing Construction**

2. Road formation width as measured from the base of the cut batter to the top of the fill batter shall be no greater than 7 metres except on corners where a greater width is essential for safe traversing.
3. Cut-offs and culverts shall not discharge directly onto fill or sidecast material.
4. Sidecast material shall not be deposited into any watercourse.
5. Base-metalling shall be completed within six weeks of completed road formation being open to wheeled heavy vehicles.
6. Runoff onto landings is to be intercepted by cut-off drains and is to discharge clear of all fill.
7. Road and landing fills on slopes greater than 24° are to be benched and fill compacted or armoured so that fill does not progressively slump down slope.
8. Road construction is to be undertaken in the dry season and when soils are dry enough to prevent rutting and puddling deeper than 30cm.

**Ground Based Extraction**

9. Earthworks shall be limited to arterial tracks and removal of occasional obstructions defined by a density involving no more than 4% in total of the ground-based area indicated on the consent map and have a track width no greater than 4 metres.
10. Track construction is to be undertaken in the dry season and when soils are dry enough to prevent rutting and puddling deeper than 30cm.
11. Cut-offs are to be installed at a maximum spacing of one every 50 metres along arterial tracks to disperse water and prevent ponding and scouring.
12. The front end of each log is to be lifted clear of the ground at all times during extraction.

**Cable Hauler Extraction**

13. With the exception of areas close into the landings and small localised blind areas, at least one end of the log is to be lifted clear of the ground at all times during hauling.

14. When hauling logs across protected or incised watercourses, disturbance shall be limited to occasional sweeping and then where greater deflection or less adverse effects from alternative settings are demonstrably unachievable.

**Harvesting: General**

15. Ephemeral channels draining runoff are to be kept open.
16. Water is to be directed into existing watercourses.
17. Logs are not to be dragged up or down protected watercourses.
18. All logs down to 15cm in an incised or protected watercourse, or slash of whatever size greater than 50cm total depth above the protected watercourse beds (marked on the attached harvest plan map in blue) which are causing or are likely to cause water flow deflection into the banks, are to be removed immediately upon the completion of logging.
19. No replanting of exotic trees is to occur within 10 metres of the beds of protected watercourses as measured in a horizontal plane, or within the incised banks of the protected watercourses – whichever is the greater. Planting of exotic trees is not to extend into areas that at the time of harvest had a canopy of predominantly indigenous tree species.
20. No unstable accumulation of slash, log ends, tree heads or waste logging material – including mixed in spoil – are to be left on or beneath landing edges at the conclusion of logging.
21. Slash debris on slopes is not to be burnt.
22. Areas harvested to each landing shall be replanted with exotic tree seedlings at a minimum of 1000 evenly distributed seedlings per hectare within 18 months of harvesting ceasing to that landing unless:
  - a. the harvested area will be hauled over when harvesting adjacent forest areas under the same rotation; or
  - b. harvested areas are restricted to narrow strips sufficient only to enable new road and landing formation.
23. Re-established exotic tree seedlings shall be kept free of weed competition. Herbicide applications shall be by precise spot application only.
24. Once tree establishment has occurred domestic stock numbers are to be controlled such that tree revegetation is not materially adversely affected.
25. The Environmental Services Manager of Gisborne District Council may, after the granting of this consent, give notice of intention to review the conditions of this consent pursuant to Section 128 of the Resource Management Act 1991. The time period for reviewing the consent shall be at one month intervals for the first twelve months and then at twelve month intervals, with written notice to be given at least twenty working days ahead of the review date of the consent conditions for all or any of the following purposes:
  - c) To require the consent holder to adopt the best practical option to remove or reduce an adverse effect on the environment; or
  - d) To deal with any other adverse effects on the environment on which the exercise of the consent may have an influence.

## 8. Reasons for Decision

- i. The land disturbance and vegetation clearance is unlikely to have a more than minor affect on sediment generation.
- ii. The principle environmental issues associated with the proposed activity are accelerated erosion and the potential for sediment generation and associated run-off. These are deemed to be of less than minor impact.
- iii. Conditions placed on the activity will avoid or mitigate the potential impact on the environment.
- iv. The activity is not contrary to any relevant plans or policies.
- v. The activity is consistent with the purpose and principles of the Resource Management Act 1991.

Comp	Stand	Species	Area	Year
82	1	P.radiata	96.3	1990

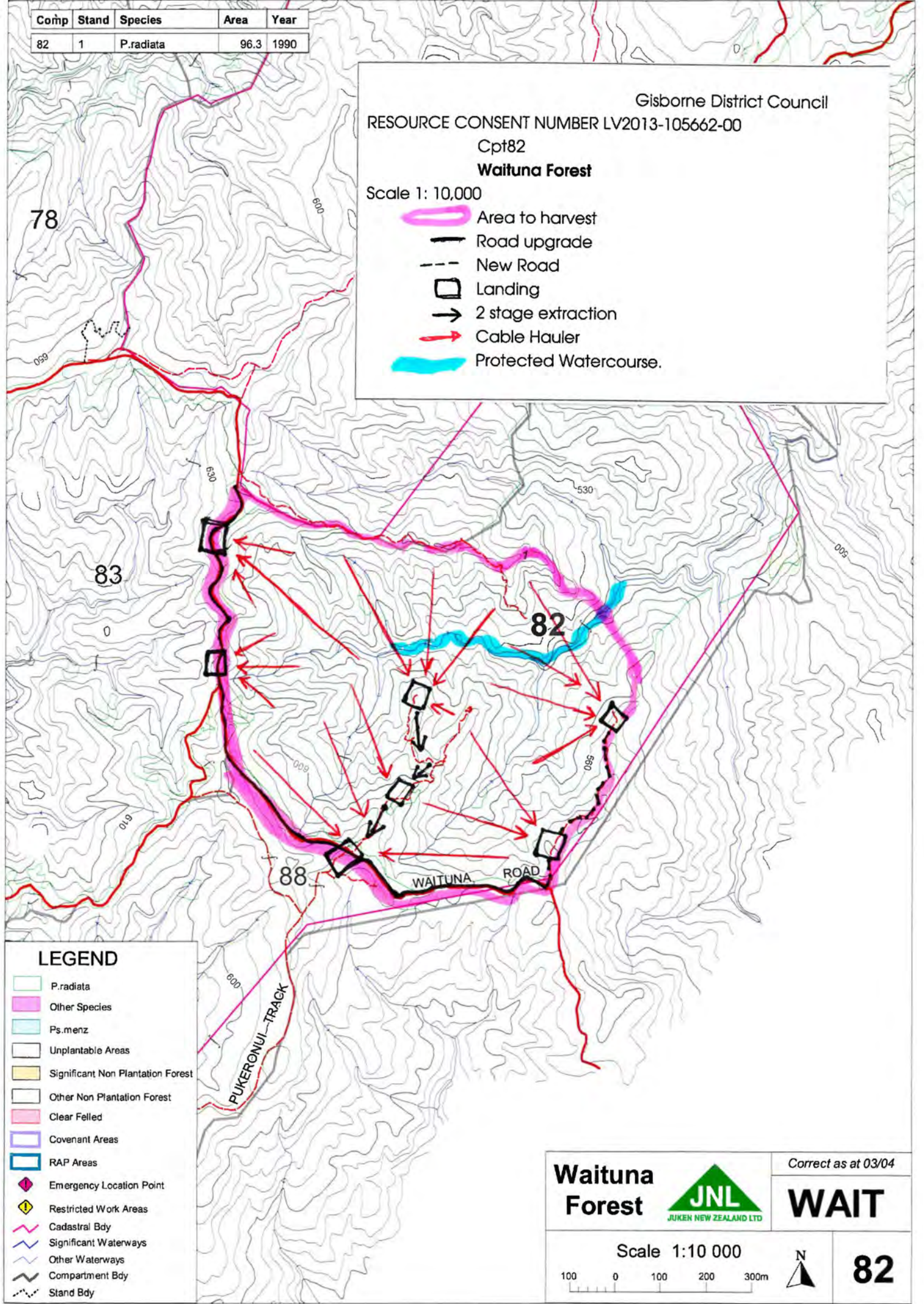
Gisborne District Council  
 RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt82

**Waituna Forest**

Scale 1: 10,000

-  Area to harvest
-  Road upgrade
-  New Road
-  Landing
-  2 stage extraction
-  Cable Hauler
-  Protected Watercourse.



**LEGEND**

-  P.radiata
-  Other Species
-  Ps.menz
-  Unplantable Areas
-  Significant Non Plantation Forest
-  Other Non Plantation Forest
-  Clear Felled
-  Covenant Areas
-  RAP Areas
-  Emergency Location Point
-  Restricted Work Areas
-  Cadastral Bdy
-  Significant Waterways
-  Other Waterways
-  Compartment Bdy
-  Stand Bdy

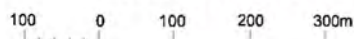
**Waituna Forest**



Correct as at 03/04

**WAIT**

Scale 1:10 000



**82**

Comp	Stand	Species	Area	Year
83	1	P.radiata	94.8	1984
83	2	P.radiata	1.6	1994

Gisborne District Council

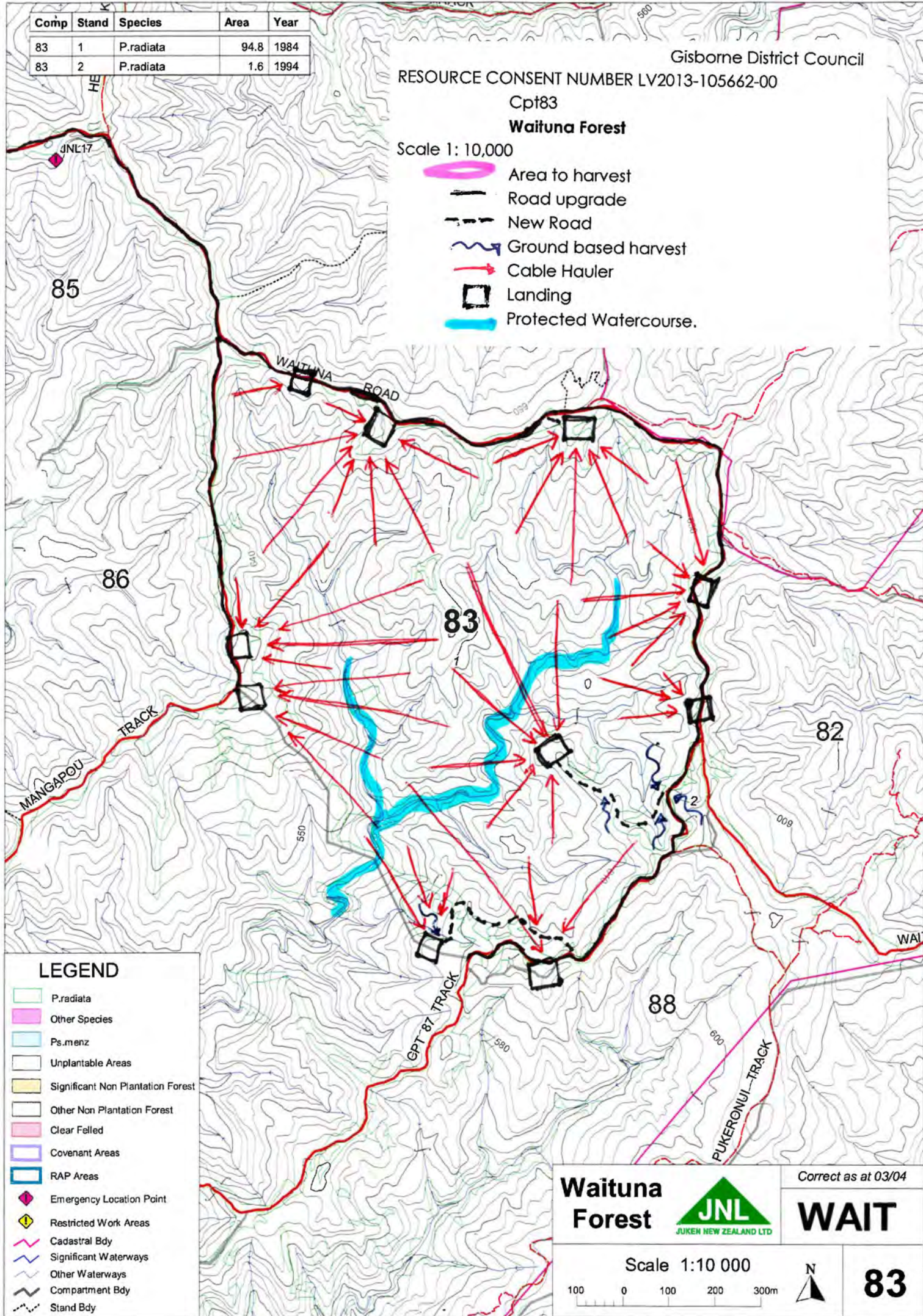
RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt83

**Waituna Forest**

Scale 1: 10,000

-  Area to harvest
-  Road upgrade
-  New Road
-  Ground based harvest
-  Cable Hauler
-  Landing
-  Protected Watercourse.



**LEGEND**

-  P.radiata
-  Other Species
-  Ps.menz
-  Unplantable Areas
-  Significant Non Plantation Forest
-  Other Non Plantation Forest
-  Clear Felled
-  Covenant Areas
-  RAP Areas
-  Emergency Location Point
-  Restricted Work Areas
-  Cadastral Bdy
-  Significant Waterways
-  Other Waterways
-  Compartment Bdy
-  Stand Bdy

**Waituna Forest**



Correct as at 03/04

**WAIT**

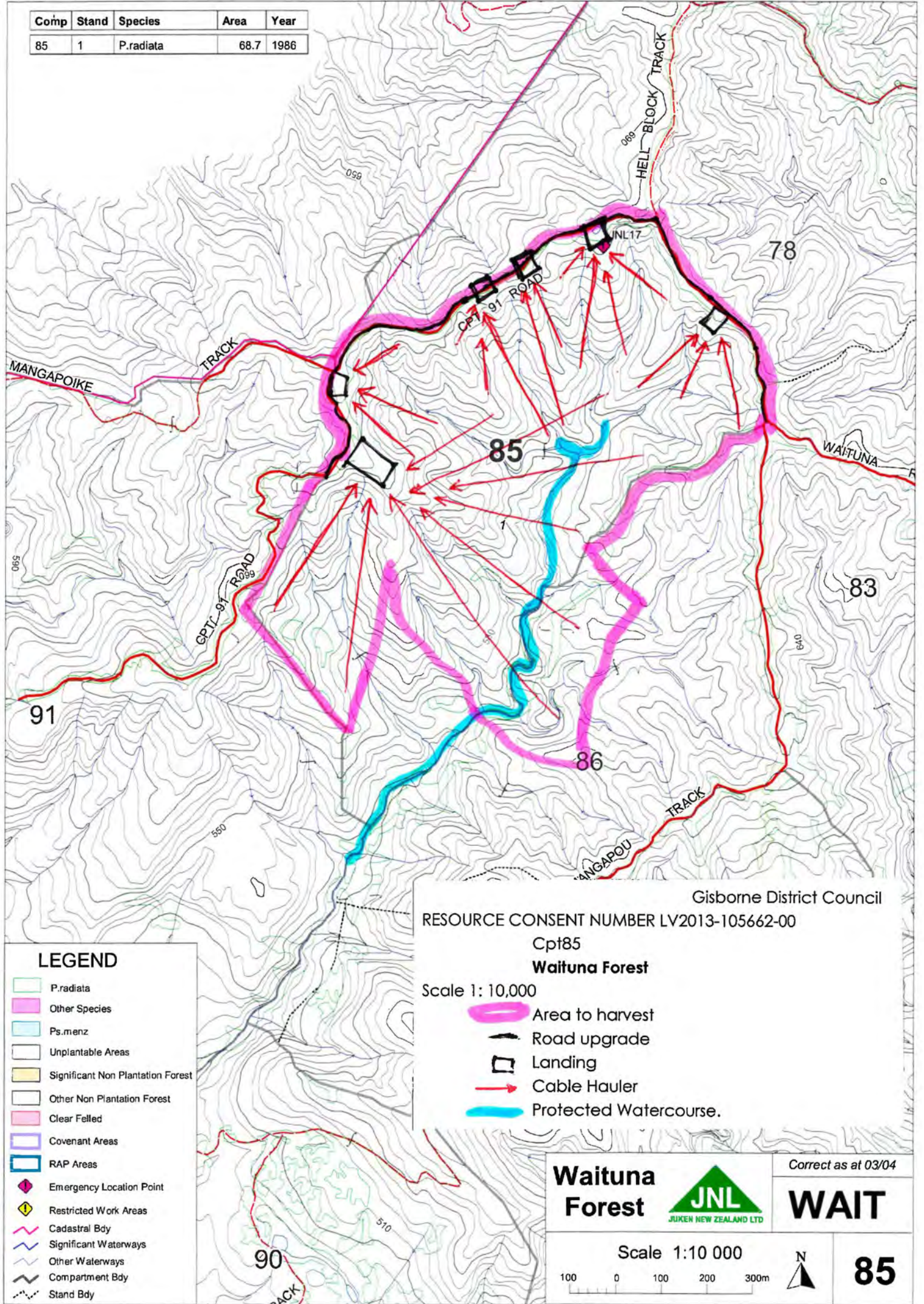
Scale 1:10 000

100 0 100 200 300m



**83**

Comp	Stand	Species	Area	Year
85	1	P.radiata	68.7	1986



Gisborne District Council  
 RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt85

**Waituna Forest**

Scale 1: 10,000

- Area to harvest
- Road upgrade
- Landing
- Cable Hauler
- Protected Watercourse.

**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

**Waituna Forest**



Correct as at 03/04

**WAIT**

Scale 1:10 000

100 0 100 200 300m



**85**

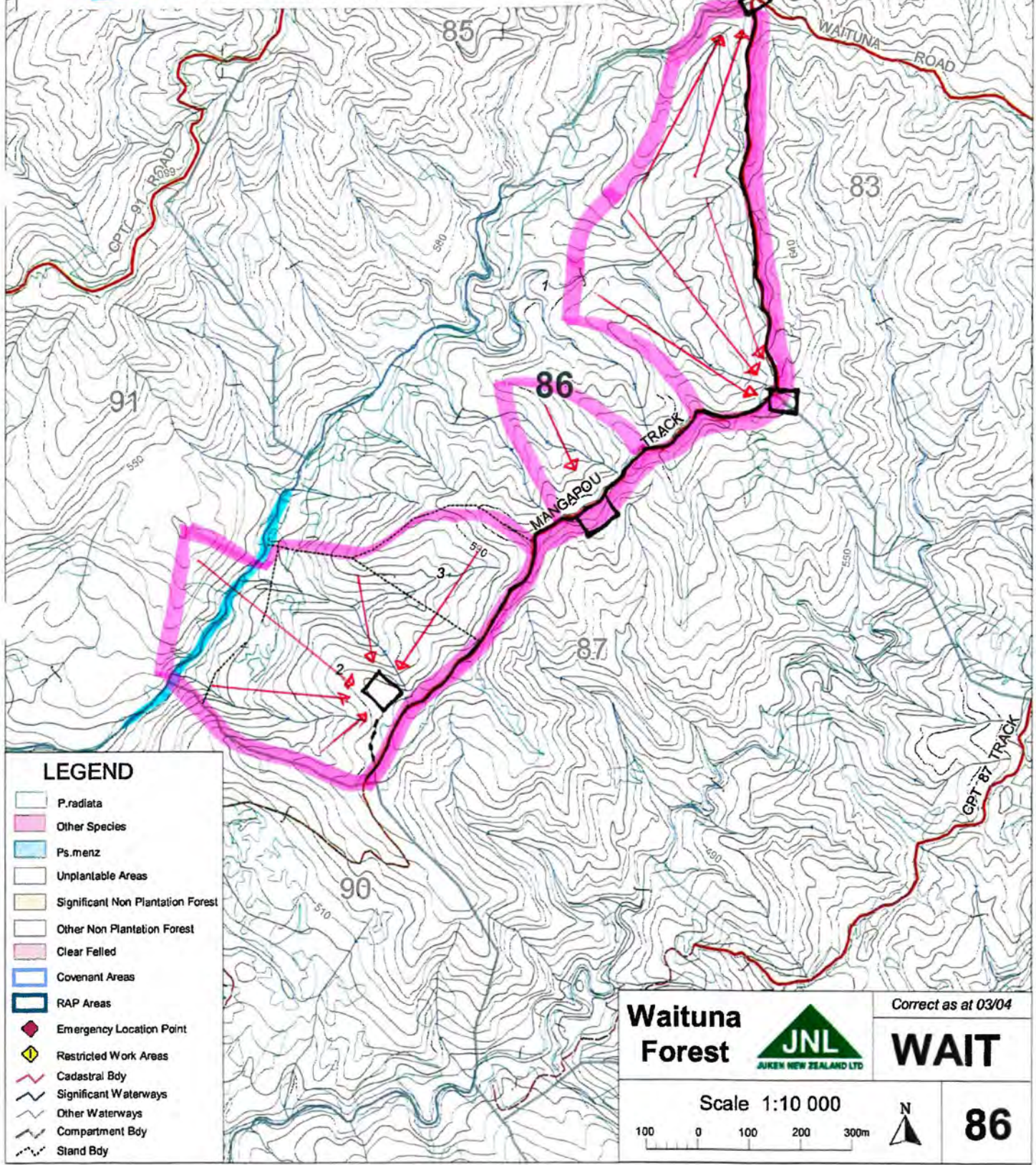
Cpt86

**Waituna Forest**


Scale 1: 10,000

-  Area to harvest
-  Road upgrade
-  New Road
-  Landing
-  Cable Hauler
-  Protected Watercourse.

Comp	Stand	Species	Area	Year
86	1	P.radiata	45.6	1986
86	2	P.radiata	13.1	1987
86	3	P.radiata	6.5	1990




- LEGEND**
-  P.radiata
  -  Other Species
  -  Ps.menz
  -  Unplatable Areas
  -  Significant Non Plantation Forest
  -  Other Non Plantation Forest
  -  Clear Felled
  -  Covenant Areas
  -  RAP Areas
  -  Emergency Location Point
  -  Restricted Work Areas
  -  Cadastral Bdy
  -  Significant Waterways
  -  Other Waterways
  -  Compartment Bdy
  -  Stand Bdy

**Waituna Forest**  JUKEN NEW ZEALAND LTD

Correct as at 03/04

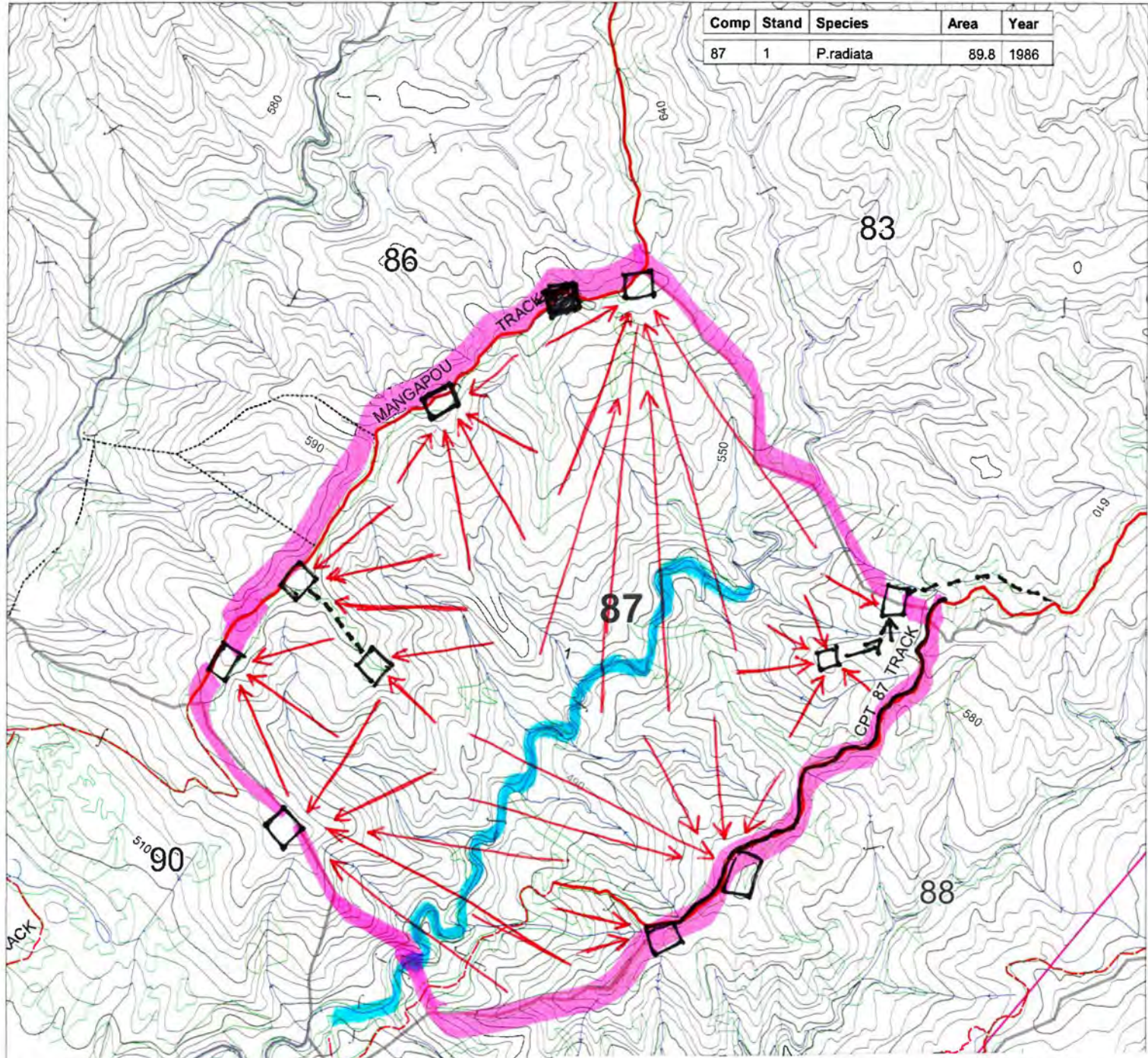
**WAIT**

Scale 1:10 000

100 0 100 200 300m 

**86**

Comp	Stand	Species	Area	Year
87	1	P.radiata	89.8	1986



Gisborne District Council

RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt87

**Waituna Forest**

Scale 1: 10,000

- Area to harvest
- Road upgrade
- New Road
- 2 stage extraction
- Landing
- Cable Hauler
- Protected Watercourse.

**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

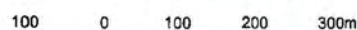
**Waituna Forest**



Correct as at 03/04

**WAIT**

Scale 1:10 000



**87**



Comp	Stand	Species	Area	Year
88	1	P.radiata	96.9	1990

Gisborne District Council

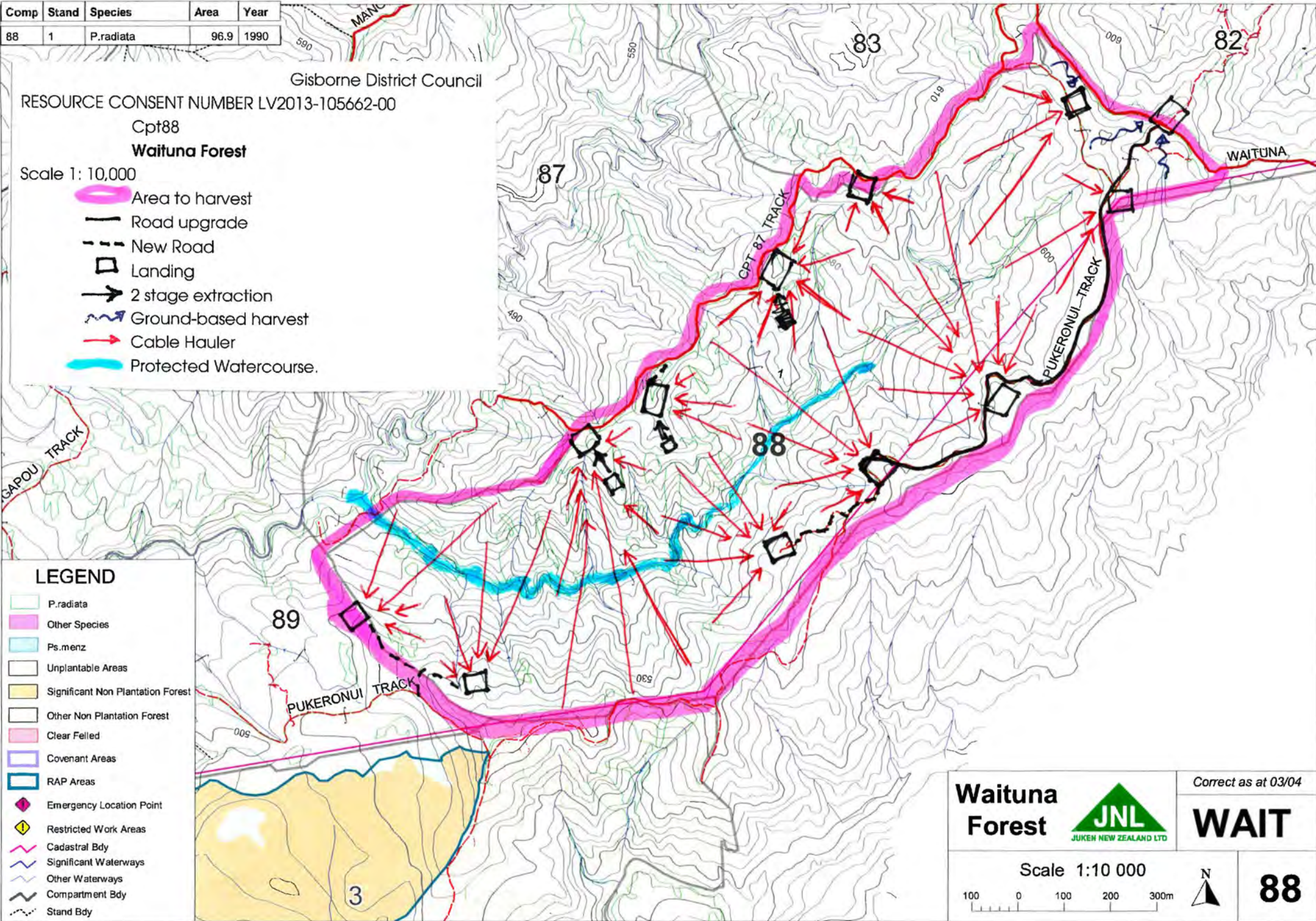
RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt88

**Waituna Forest**

Scale 1: 10,000

-  Area to harvest
-  Road upgrade
-  New Road
-  Landing
-  2 stage extraction
-  Ground-based harvest
-  Cable Hauler
-  Protected Watercourse.



**LEGEND**

-  P.radiata
-  Other Species
-  Ps.menz
-  Unplantable Areas
-  Significant Non Plantation Forest
-  Other Non Plantation Forest
-  Clear Felled
-  Covenant Areas
-  RAP Areas
-  Emergency Location Point
-  Restricted Work Areas
-  Cadastral Bdy
-  Significant Waterways
-  Other Waterways
-  Compartment Bdy
-  Stand Bdy

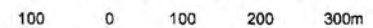
**Waituna Forest**



Correct as at 03/04

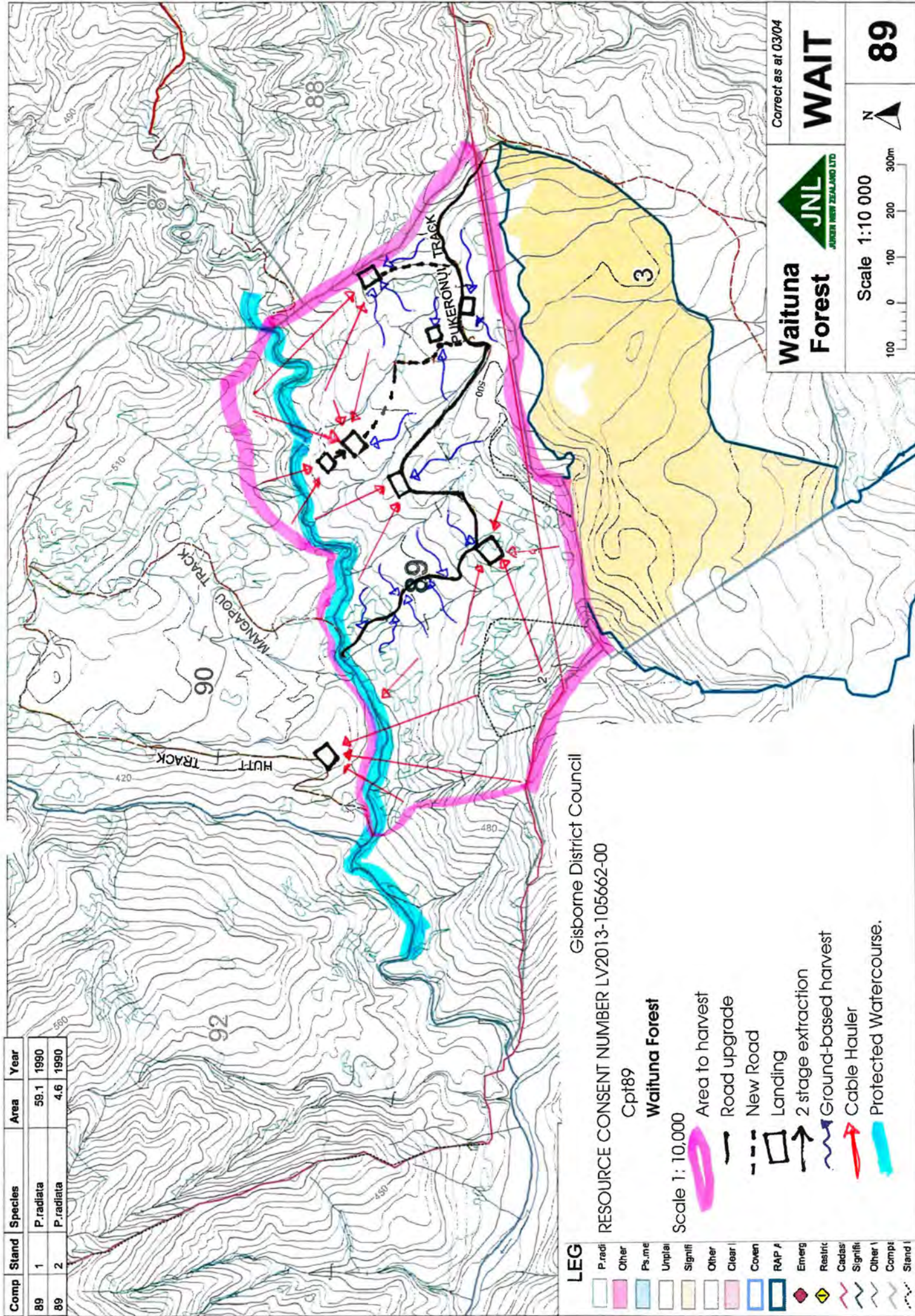
**WAIT**

Scale 1:10 000



**88**

Comp	Stand	Species	Area	Year
89	1	P. radiata	59.1	1990
89	2	P. radiata	4.6	1990



Gisborne District Council

RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt89

Waituna Forest

Scale 1:10,000

- Area to harvest
- Road upgrade
- New Road
- Landing
- 2 stage extraction
- Ground-based harvest
- Cable Hauler
- Protected Watercourse.

**LEG**

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Correct as at 03/04

**Waituna Forest**

**JNL**  
JANZEN NIELSEN ZEALAND LTD

**WAIT**

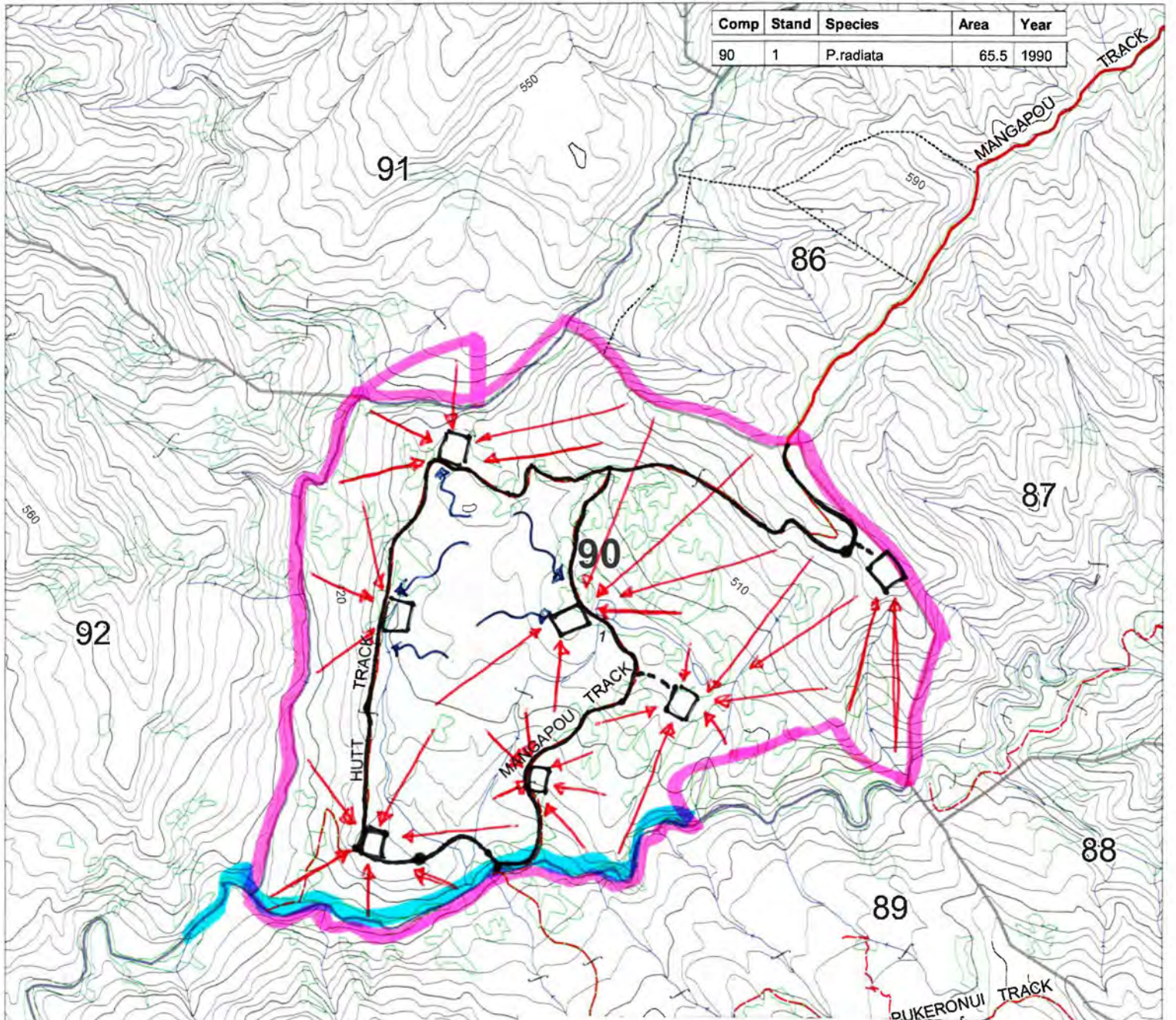
Scale 1:10 000

100 0 100 200 300m

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**89**

Comp	Stand	Species	Area	Year
90	1	P.radiata	65.5	1990



Gisborne District Council

RESOURCE CONSENT NUMBER LV2013-105662-00

Cpt90

**Waituna Forest**

Scale 1: 10,000

- Area to harvest
- Road upgrade
- New Road
- Landing
- Ground-based harvest
- Cable Hauler
- Protected Watercourse.

**LEGEND**

- P.radiata
- Other Species
- Ps.menz
- Unplantable Areas
- Significant Non Plantation Forest
- Other Non Plantation Forest
- Clear Felled
- Covenant Areas
- RAP Areas
- Emergency Location Point
- Restricted Work Areas
- Cadastral Bdy
- Significant Waterways
- Other Waterways
- Compartment Bdy
- Stand Bdy

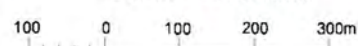
**Waituna Forest**



Correct as at 03/04

**WAIT**

Scale 1:10 000



**90**

## Appendix Three List of Photographs and captions

Name	Keywords	Caption
009A8790	forest,road slips,Waituna	Extensive slipping from skid site and Road Waituna forest
009A8791	Slips, midslope, waituna	Moderate scale "midslope" slips, background slips from roadways (out of view)
009A8792	Slips, waituna	Extensive slips from forestry roadway and possibly skids
009A8793	Slips, skidsite	Large debris flow with headscarp at base of side cast below old skid site, further slip upper left
009A8794	Flumes, sidecast, slips	Two flumed culverts one directing water onto good ground the other at base of sidecast
009A8795	Flumes, sidecast, skidsite	Flumes directing water onto skidcast, fill stored on old skid side, slides from skid end
009A8796	Foirestry road, skids, slips	Slips from roadways and skid sites, some associated midslope
009A8797	Forestry Road, skids, slips	Slips from roadways and skid sites,
009A8798	track, slip	Slip occurring below rough formed track
009A8800	Roadway, slip	Slip occurring below roadway, operational site on next spur
009A8801	Roadway, slip	Slips in sidecast below roadway
009A8802	Track, slips, debris flow, midslope	Slips and debris flows originating from spurline rough track
009A8803	Roadway, skid,slips, debris flow, midslope	Slips, some midslope others from roadways or rough spurline tracks
009A8804	Roadway, skid, slips, midslope	Slips from roadway and beneath skids, some midslope
009A8805	Roadway, skid, slips,	Slips from roadway, rough tracks and skids,
009A8806	Roadway, skid,slips, debris flow, midslope	Slips from roadways and skid sites,
009A8808	Skid, debris flow toe failure	Debris flow from skid site, toe failure lower on slope, slash on edge of skid site, digger working
009A8810	Road, slope failure	Slip adjacent to roadway
009A8811	Road, slope failure	Slip adjacent to roadway
009A8812	Slip	Slip, character to verify
009A8813	Slip, Roadway, skid	Slip from road, slope failure on side cast and rough track
009A8814	Slip	Slip, character to verify
009A8816	Slip, rough track	Slip from rough track adjacent to skid site
009A8817	Blurred, skid, slip	Road on ridge with slip from skid site
009A8818	Skid, side cast	New skid site with long side cast with failure left side, good berm but long side cast right side
009A8819	Skid, side cast	Failure from right side of new skid
009A8820	Skid, side cast	Failure from right side of new skid
009A8822	Mid slope, toe failure	Possible mid slope and toe failure to verify
009A8823	Roadway, skid, debris flow mid slope	Major failure from skid site, mid slopes possibly related to toe failure
009A8824	Indent	Location sht only
009A8825	Earthworks, slope failure	Slope failure associated with earthworks adjacent to skid site
009A8826	Skid, sidecast, drainage	New skid site with good berms but water flow directed onto sidecast
009A8827	Skid, sidecast, drainage	New skid site with good berms but water flow directed onto sidecast
009A8828	Roadway, rill failure, side cast	Rill failure in sidecast adjacent to roadway
009A8829	Roadway, sidecast, failure	Water directed over long side cast with slope failure
009A8830	Roadway, debris flow	Distant shot of slope failure from roadway
009A8831	Skid, roadway, slope failure	Slope failure from edhe of new landing

009A8832	Skid, roadway, slope failure	Slope failure from edhe of new landing
009A8833	Skid, roadway, slope failure	Slope failure from edhe of new landing
009A8834	Bench, roadway, sidecast	Minimal bench below long sidecast adjacent to skid site stowage area
009A8835	Skid, slash stowage	Stowage area to check on skid
009A8836	Skid, slash stowage	Stowage area to check on skid
009A8837	Roadway, slope failure	Slope failure from roadway, possible long side cast
009A8838	Roadway, slope failure	Slope failure from roadway, possible long side cast
009A8839	Road, slope failure	Slope failures from roadway and resulting from dragging
009A8840	Road, slope failure, mid slope	As above but mid slope failure in foreground associated with roadway failure.

# Appendix Four

