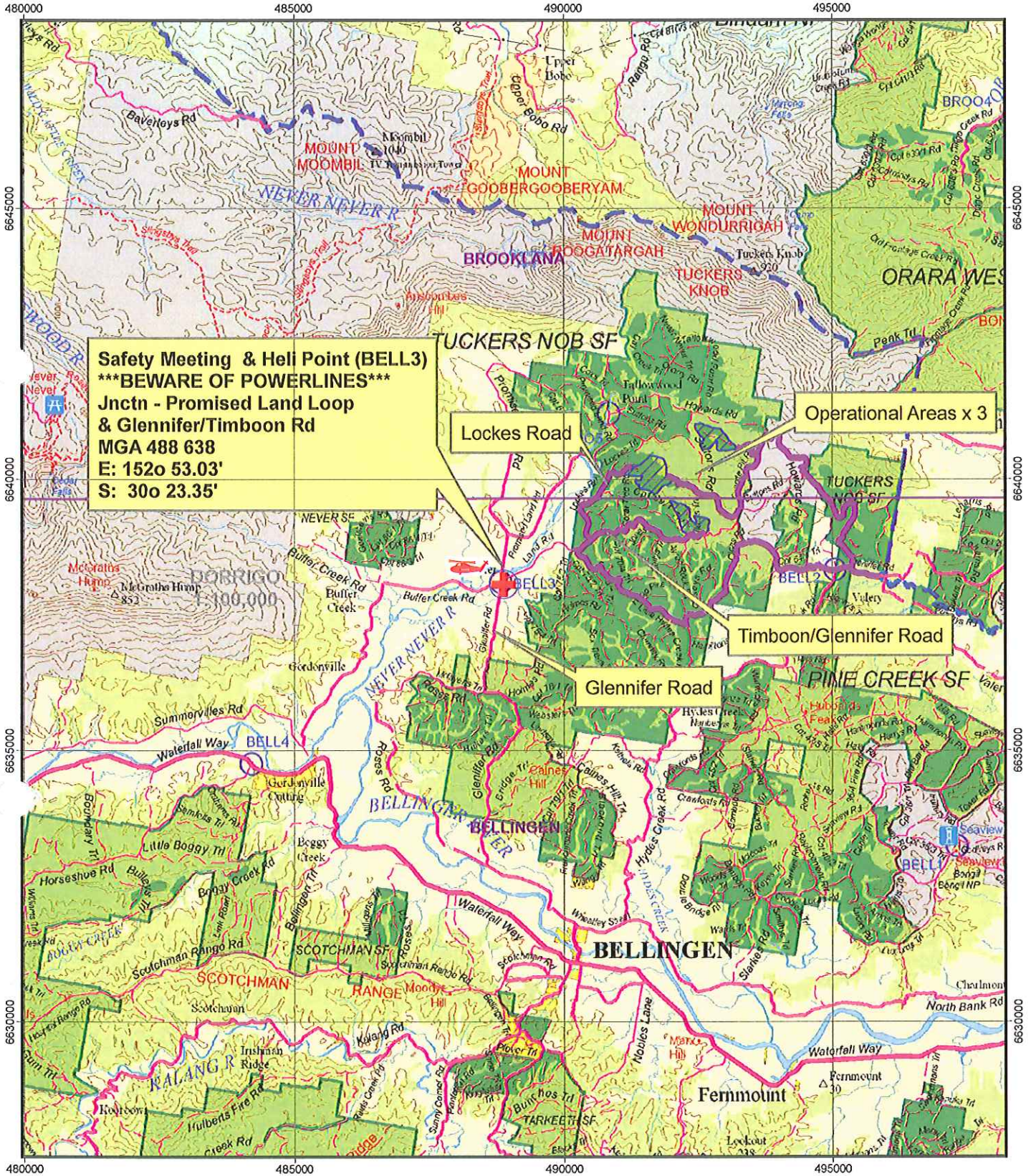




Map Sheets:  
 1:25,000 - Bellingen - 9437-2S  
 1:100,000 - Dorrigo - 9437  
 Scale: 1:100,000

North East Region - Urunga MA  
 Locality Map  
 Compartments 65, 66 & 67  
 Never Never State Forest



**Safety Meeting & Heli Point (BELL3)**  
 \*\*\*BEWARE OF POWERLINES\*\*\*  
 Jcnctn - Promised Land Loop  
 & Glennifer/Timboon Rd  
 MGA 488 638  
 E: 152o 53.03'  
 S: 30o 23.35'

Lockes Road

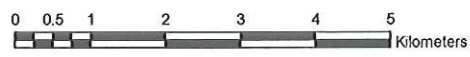
Operational Areas x 3

Timboon/Glennifer Road

Glennifer Road

MAP FEATURES

- Subject Area
- Emergency Meeting Point (Safety Point)
- Helicopter Landing Point
- State Forest
- 1:25000 Map Sheet
- 1:100000 Map Sheet
- National Park Estate
- Haulage Route

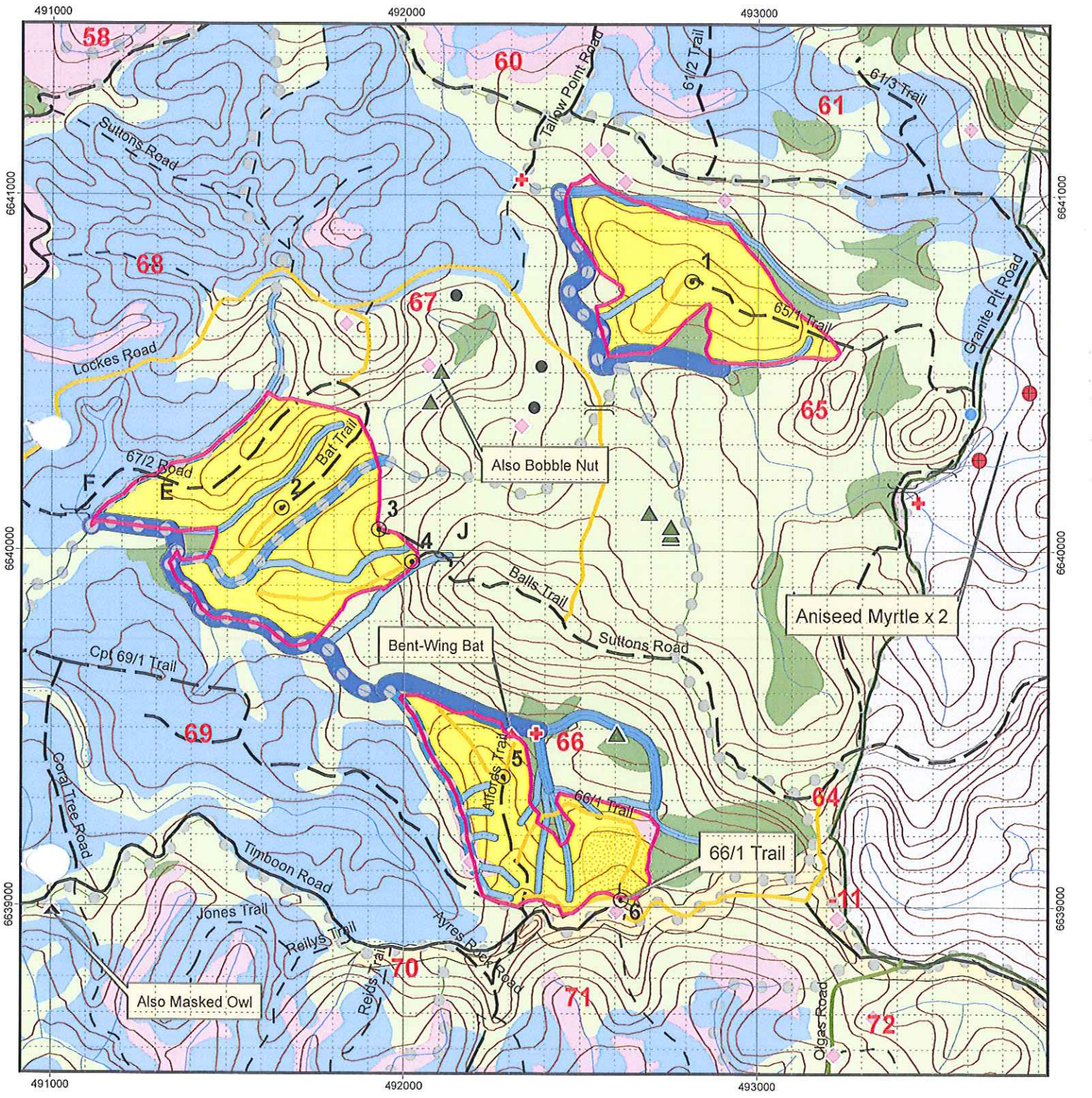


Prepared by... Bob Aspden  
 Date: 2.9.2010



Map Sheets:  
 1:25,000 - Bellingen - 9437-2S  
 1:25,000 - Brooklana - 9437-2N  
 1:100,000 - Dorrig - 9437  
 Scale: 1:15,000

North East Region - Urunga MA  
 Harvest Plan Operational Map  
**Compartments 65, 66 & 67**  
 Tuckers Knob State Forest



**MAP FEATURES**

- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate
- Slopes > 30 degrees
- Aboriginal Sites
- Non Aboriginal Heritage
- Crossing
- Dump/Turnaround
- Plantation Authorisation Boundary (GR0706)

**Flora & Fauna**

- Masked Owl
- Sooty Owl
- Glossy Black-Cockatoo
- Koala
- Bent-wing Bat
- Little Bent-wing Bat
- Giant Barred Frog
- Bopple Nut (*Hicksbeachia pinnatifolia*)
- Rusty Plum (*Amorhosperrum whitei*)
- Aniseed Myrtle (*Anethofea anisata*)

**HARVESTING PRESCRIPTIONS**

- Harvest Area
- Harvest Area (Indicative Wet Weather Area)

**ROADS**

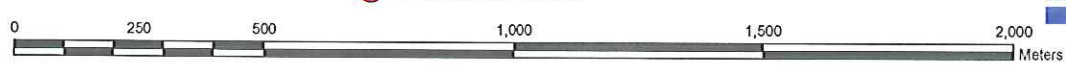
- All Weather, Unsealed
- Dry Weather, Unsealed
- 4WD Track
- Non Haulage Roads

**HARVESTING EXCLUSIONS**

- Special Management Zone (FMZ 2 & 3A)
- Special Mngt Zone - Visual (FMZ 3B)
- Mapped Rainforest
- Other State Forest (FMZ 4)
- Other Plantation

**RIPARIAN BUFFER ZONES**

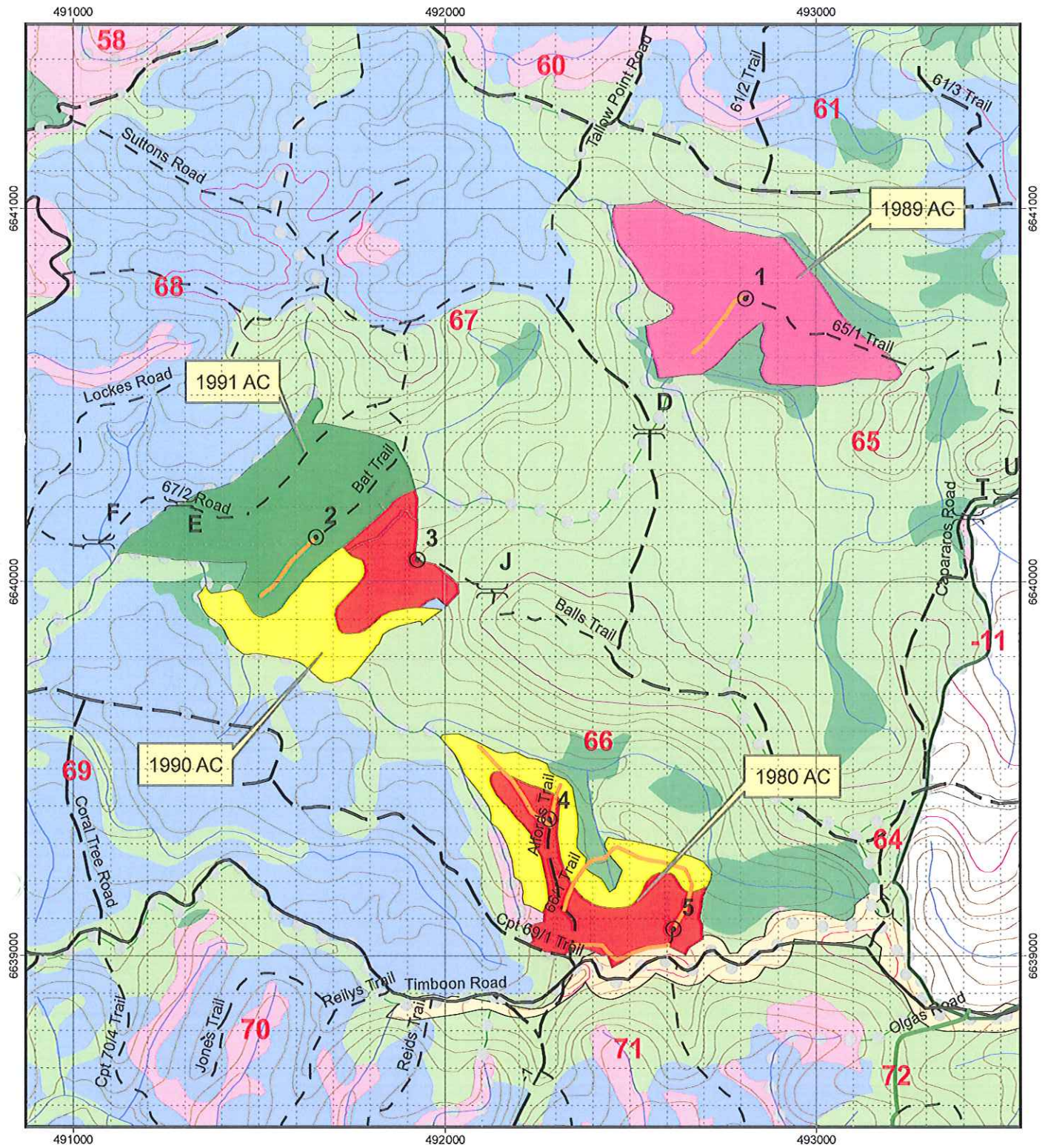
- 1st Order (10m either side)
- 2nd Order (15m either side)
- 3rd Order (25m either side)





Map Sheets:  
 1:25,000 - Bellingin - 9437-2S  
 1:25,000 - Brooklana - 9437-2N  
 1:100,000 - Dorrigo - 9437  
 Scale: 1:15,000

North East Region - Urunga MA  
 Forest Type Map  
**Compartments 65, 66 & 67**  
 Tuckers Knob State Forest



**MAP FEATURES**

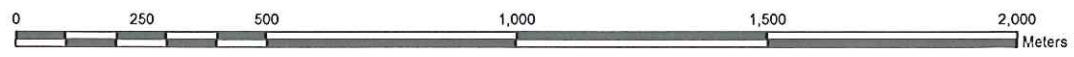
- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate
- Slopes > 30 degrees
- Aboriginal Sites
- Non Aboriginal Heritage
- Crossing
- Temporary Dry

**FOREST TYPES**

- BLACKBUTT
- FLOODED GUM
- FLOODED GUM & DUNNS WHITE GUM (1989 AC)
- BLACKBUTT & DUNNS WHITE GUM (1991 AC)

**HARVESTING EXCLUSIONS**

- Special Management Zone (FMZ 2 & 3A)
- Special Mngt Zone - Visual (FMZ 3B)
- Mapped Rainforest
- Other State Forest (FMZ 4)
- Other Plantation




Prepared by Bob Aspden  
 Date: 16/11/2009




## OPERATIONAL HARVESTING PLAN PLANTATION THINNING (T1)


<b>Region</b>	North East
<b>Management Area</b>	Urunga
<b>State Forest</b>	Tuckers Knob
<b>Compartments</b>	65, 66 & 67
<b>Harvest plan No.</b>	HP_3554
<b>Harvest Plan Name</b>	U_65_66_67

### Plan Certification

Harvest planner		Date: 21/10/2010.
Bob Aspden		

Harvest planning Manager		Date: 21/10/2010
Steve Pickering		

Regional Planning Manager		Date: 8/8/2011
John Murray		

Regional Manager		Date: 8/8/2011
Craig Busby		

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# HARVESTING DETAILS

## 1. Area Identification

Region North East  
 Management Area Urunga  
 State Forest Tuckers Knob  
 Compartment/s 65, 66 & 67

Cmpt	Gross Area (ha)	Net Area (ha)	Pricing Area	Op Type	Avg. Yield (contract)	Avg. Removal (contract)
65	143	15	Urunga Costal	T1	60	0.15
66	128	31	Urunga Costal	DT1	60	0.15
67	117	14	Urunga Costal	T1	60	0.15

## 2. Description of Proposal

### 2.1 Integrated harvesting of Plantation Areas

Thinning of Blackbutt (*E.pilularis*), Flooded Gum (*E.grandis*) and Dunns White Gum (*E. dunnii*) plantation.

### 2.2 Other

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached)
Post harvest Burning	No	Not Required
Re-establishment (2R)	No	Not Required

## 3. Safety Considerations

See attached Hazard Assessment and Medical Emergency Evacuation Plan.

## 4. Plantation Condition and Silvicultural Prescription

### 4.1 Plantation Description

- **Age Class:** 1980, 1989, 1990 & 1991

**Species/Area:** Blackbutt ~ 15 ha

Flooded Gum ~ 16 ha

Flooded Gum/Dunns White Gum (mixed stand) ~ 15 ha

Blackbutt/Dunns White Gum (mixed stand) ~ 14 ha

- **Stand Health:**

Flooded Gum & Dunns White Gum – Varying quality – generally poor quality with a large proportion of sapwood and occluded branches. Stocking in some areas is low due to younger age mortality and competition from weeds. Some stems are likely to exhibit internal defect in the form of pithy heart.

Blackbutt – Moderate quality, generally good form with healthy crowns.

## 4.2 Silvicultural History and Product Types

None of these stands have been thinned. A high proportion of pulp and salvage grade logs will be produced from the Flooded Gum & Dunns White Gum. Some poles and a reasonable quantity of sawlog material will be produced from the Blackbutt stands.

## 4.3 Silvicultural Objectives and Prescriptions

All stands are to be thinned to 12m<sup>2</sup>/ha retaining superior stems. Most stands generally have a basal area of approximately 20m<sup>2</sup>/ha, however, some stands have considerably less (e.g adjacent to 65/1 Trail in Cpt 65). The SFO must monitor basal area retention levels as prescribed. Where stand growth is being suppressed by competing and undesirable ingrowth operators should attempt to knock down the competition as much as possible whilst conducting operations (e.g. forwarder tracks, moving harvester, etc).

## 4.4 Desired Return Time

The return time for these thinned areas will generally be between 10-20 years depending on age, growth rates, market demands and other wood flow considerations in the future.

## 5. Legal Conditions

The area to be harvested is an authorised plantation under the Plantations and Reafforestation Act (1999) (Authorisation no. GR0706P).

As such, the operation must comply with:

- Plantations and Reafforestation Act (1999)
- Plantations and Reafforestation (Code) Regulation (2001), subject to the conditions described in Attachment 1 of the Authorisation for the timber plantation.

Legislation relating to the operations on State forests & Other Crown-Timber Lands is detailed in NSW Forest Practices Codes. In addition this operation must specifically comply with:

- Forests NSW Forest Practices Code part 1 (Timber Harvesting in Forest NSW Plantations 2006)
- Forests NSW Forest Practices Code part 4, Forest Roads and Fire Trails (February 1999)
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)

## 6. Special Conditions

### 6.1 Non-harvest areas

The Operational Map indicates the non-harvest areas in the compartment, as detailed in the legend.

- Harvesting disturbance is not permitted in non-harvest areas except as authorised under this plan.
- Limited harvesting activities may take place within the first 5m of all riparian zones as outlined in section 10.2.
- No harvesting or other disturbance may take place within 20m of 3<sup>rd</sup> order (or greater) drainage lines, wetlands or rivers. No machinery may enter this area (except where crossing a drainage line with prior SFO authorisation) and no trees are to be removed.

### 6.2 Dust

Dust may affect residents on the haulage route (specifically Timboon Road). Conditions must be assessed at the time of the operation by the harvesting Forester and the following measures considered:

- Choose alternative route
- Restrict speed on road
- Watering road surface

### 6.3 Critical Boundaries

- For boundary locations refer to the operational map.
- Where there is uncertainty as to the location of any critical boundary, advice must be sought to

adequately determine the location of the boundary

### **Other Critical Boundaries**

The harvest area adjoins the Timboon Road easement (see Operational Map). These easements contain native forest and must not be disturbed. These areas must be identified, marked and excluded from harvesting disturbance. All operational staff must maintain awareness for other road users when operating near Timboon Road.

### **6.4 Wet Weather Operational Area**

Areas on the operational map have been identified as indicative wet weather harvesting areas (marked as yellow with brown dots).

### **6.5 Public Recreational Use**

Areas adjacent to the harvesting area and within the vicinity of the harvest area are frequently used by locals for recreation. Timboon Road is a council road and is frequently used by members of the public. Valery Trails Equestrian Centre sometimes ride through the area. All operators must remain vigilant to the potential presence of members of the public within the operational area.

### **6.6 Rainforest**

Rainforest has been mapped within the compartments and is to be excluded from harvesting activities. Areas of unmapped rainforest are to be identified and excluded from harvesting activities as described in the Forests NSW Forest Practices Circular 2005/02.

### **6.7 Flora & Fauna**

#### **The Giant-Barred Frog**

Ten observations of the Giant-Barred Frog have been made within a 2km radius of the harvest area but has not been detected in the harvest area. One individual has been located within 20m of the harvest area (see operational map). The attached description and diagrams of this species are to be used by SFO and operators to identify any individuals within the operational area. If individuals are identified during operational activities – the harvesting forester must be notified immediately. The operations must be halted until the Regional Ecologist has determined the extent of the population and determined conditions under which operations can continue without impacting on known populations.

**Anetholea anisata (Aniseed Myrtle, Ringwood)** - Mature specimens of *Backhousia anisata* are to be protected where practicable

**Bell Miners** The SFO is to record the location and extent of any Bell Miners detected during harvesting operations

## **7. Forest Management Zoning And Approvals**

### **7.1 Forest Management Zones**

The compartments includes the following FMZs as indicated on the operational map:

- **Zone 2 & 3A (Special Management Zones)** Shown as deep green on the operational map. These areas protect rainforest, are not available for harvesting and are to be excluded from all harvesting activities.
- **Zone 3B (Special Management Zone - Visual)** Shown as cream on the operational map, these areas offer visual amenity, and are not available for harvesting and are to be excluded from all operational activities – except Dump 6 (within FMZ 3B).



- **Zone 4 (General Management – Other State Forest)** is native forest and is not available for harvest under this plan.
- **Zone 5 (Native Species Plantation)** Shown as yellow on the operational map, these areas are available for harvesting in this operation – follow silvicultural prescriptions as outlined in section 4. Zone 5 also includes 'Area for Further Assessment', shown as grey on the operational map.

## 8. Cultural Heritage

### 8.1 Aboriginal Cultural Heritage

There are no known Aboriginal sites or other heritage items in the compartments. The Local Aboriginal Land Council has been consulted in regard to the proposed harvesting and the Regional Aboriginal Cultural Heritage Officer have inspected the compartments. No issues were identified at the inspection.

### 8.2 Non Aboriginal Cultural Heritage

No sites of non aboriginal cultural heritage were identified in these compartments.

## 9. Soils and Water

	Cpt 65	Cpt 66	Cpt 67
<b>Inherent hazard level</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Dispersible Soils</b>	<b>No</b>	<b>No</b>	<b>No</b>
<b>Mass Movement Hazard</b>	<b>Yes (See special conditions below)</b>	<b>Yes (See special conditions below)</b>	<b>Yes (See special conditions below)</b>
<b>Seasonality</b>	<b>No</b>	<b>No</b>	<b>No</b>

### 9.1 Special conditions for Mass Movement

- The construction of new forwarder tracks should not involve side cuts of greater than 2m batter height.
- Wherever possible forwarder tracks should follow the terrain rather than side cut across it, particularly where the slope exceeds 25°.

### 9.2 Wet Weather Controls

Conditions 14.1-14.5 of Forests NSW's Forest Practices Code Part 1 – Timber harvesting in Forests NSW Plantations apply.

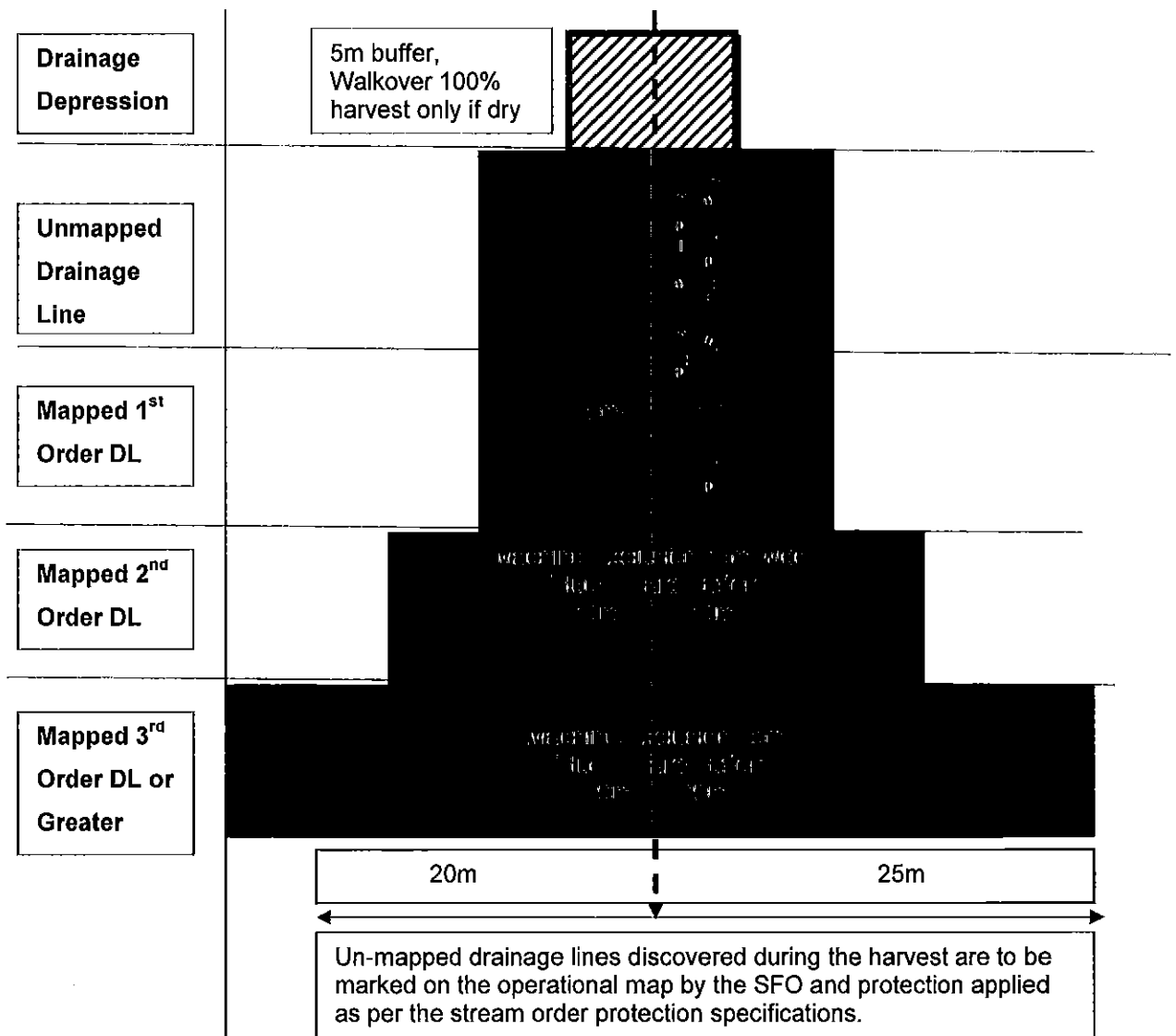
- Automatic Closures apply to forwarders and loaders when water is running on extraction tracks
- Automatic closures apply to loaders when there is run-off from the landing surface
- Automatic closures apply to the use of natural surface roads when there is runoff from the road.
- Machinery must not exceed acceptable rutting limits (see Condition 14.4 and condition 50 of the P&R Code)
- Harvesting is only permitted to continue within drainage feature protection areas if the top 200mm of soil is dry enough to avoid soil erosion.
- The Regional Manager may impose notified closures over specific operations or parts of operations if extra drying time is needed
-

**10. Drainage features**

**10.1 Drainage feature protection**

- The Operational Map indicates known mapped drainage features and widths of protective measures. Un-mapped drainage lines discovered during the harvest are to be marked on the operational map by the SFO and protection applied as per table below.
- (note: some of the drainage features indicated on the Operational Map with buffer zones may, at the time of marking, be determined as depressions.)
- The minimum buffer zone width for each side of drainage features is shown below.

Stream Order	Buffer Zones each side of drainage feature – Green areas (Machine exclusion)	Total Exclusion (No Disturbance) each side of drainage feature (Hard Buffer)
Drainage Depression	5 (if wet)	0
Unmapped drainage lines	10	5
1st order	10	5
2nd order	15	10
3 <sup>rd</sup> order or greater	25	20





## 10.2 Operational Conditions For Drainage Features

- Harvesting within buffer zones must comply with conditions 16, 63(a) of the Plantations and Reafforestation (Code) Regulation 2001 must also apply.
- Harvesting within the first 5m of a buffer zone of a depression can only occur when:  
The person carrying out the harvesting operation is satisfied that the top 200mm of soil is dry enough to allow operations without risk of soil erosion to the edge of the drainage feature.

## 11. Tree Marking Conditions and Code

- All exclusion zone and buffer zone boundaries must be marked in the field - except where specified forestry activities will not come within 50 metres of such boundaries. Where thick or impenetrable understorey obstructs marking UHF radio communication with operators may be used to indicate filter strips and boundaries. The SFO must document and justify such situations as it becomes apparent during compartment mark-up

**STANDARD MARKINGS/SYMBOLS:** Markings/Symbols that deliver key requirements on a state wide basis

Description	Symbol
Compartment boundary (Where not defined by clear features eg. Road, trail, creek)	"O" or Yellow tape
Exclusion zone (Line not to be crossed or disturbed by fallers or harvesting machinery at any time)	Three horizontal lines / rings OR Blue tape
Edge of net harvest area (eg unmerchantable) Retained trees and critical boundaries to be marked within 30m beyond the boundary Tree heads may fall across the line, provided they comply with boundary and tree retention rules (eg 5m debris)	"⊙"
Buffer Zone Areas where machinery is not permitted but there may be trees to be felled	Two horizontal lines / rings (indicate distance if required)
Drainage depression buffer strip	Not marked
Extraction System, OR Road/Track line	"I" or white tape
Dump site (with optional dump number reference)	"D" or red tape
Approved crossing site	"β"
Slope angle indication (commences here)	eg "25°"
Individual tree	"•" or dots
Directional felling mark	"←" over "•"
Retained trees not to be removed or damaged (eg grower)	One horizontal line or ring
Cancellation Mark (Mark to formally cancel previous marks)	"X"

## 12. Roads and Crossings

- There are a number of non-haulage roads as indicated on the operational map that are not to be used by haulage traffic. They may be used with SFO approval for extraction provided they are drained to the appropriate specifications as per condition 43 of the P&R code. They may be used for vehicular access where they have been assessed by the SFO prior to use, and are in a stable condition unlikely to cause environmental harm. (See Regional Policy No. 6 – Use of Non-Haulage Roads in Harvest Areas).
- Harvesting machinery may cross drainage lines at authorised crossings. The SFO must give authorisation prior to crossing drainage lines.
- Crossings must be drained using drainage structures within 5-30m either side of the crossing
- Wetlands must not be crossed under any circumstances.

### **12.1 Haulage Routes**

- There are five separate areas requiring different haulage routes:
- **Cpt 65** – onto Granite Pit Road, Howards Road, McMullens Road, Timboon Road.
- **Cpt 67** – onto Lockes Road south onto Timboon Road, Little Hydes Creek Road, Olgas Road.
- **Cpt 66 West** – onto Balls Trail, Suttons Road, Granite Pit Road, Howards Road, McMullens Road, Timboon Road.
- **Cpt 66** – onto Timboon, west onto Little Hydes Creek Road, Olgas Road.
- **Cpt 66 (east –dump 5)** – This dump cannot be accessed by B-doubles. Trucks can either head west along Timboon Road and onto Little Hydes Creek Road or head east along Timboon and then north along Granite Pit Road.

### **Road Maintenance/Road Construction and Road re-opening – See Roadworks Plan**

## **13. Log Dumps**

### **13.1 Location**

- Log dumps and landings that require construction must be located outside buffer zones and areas of native vegetation.
- Log stockpile areas within native forest areas must be approved by the Regional Manager prior to establishment and should be located so as to minimise disturbance to understorey elements. Approved stockpile areas are shown on the operational map.
- Log stockpile sites (no construction required) are permitted along all sections of road within the plantation area unless marked as 'No Loading Permitted' zones on the Harvest Plan Operational Map.

### **13.2 Treatment**

- Conditions 17.2 – 17.4 of the Forest Practices Code (FPC) 2005 must apply.
- Debris accumulated during processing at log dumps and landings must be located outside the boundary of buffer zones. Even distribution of slash and debris across running tracks is required. This will alleviate ground compaction and reduce exposure of soil to erosion and run-off.
- If any area used as a log dump or landing for harvesting operations ceases to be so used for more than one week, measures to minimise soil erosion must be put in place.

## **14. Extraction Tracks**

**14.1 Conditions 9.1-9.4 and 14.1 - 14.4 of the FPC (Forest Practices Code 2005) apply.**

### **14.2 Walkover extraction:**

- Special attention must be paid to the placement of slash over ground area of any concentrated machinery movement. Such areas will include the exits of extraction tracks onto roads, at the intersection of running tracks in the harvest area and at log landings.

### **14.2 Extraction track drainage**

**See section 9.1 for Special conditions for Mass Movement**

Soil erosion from tracks should be minimised by:

- Retaining groundcover and using slash and leaf litter. Slash should be placed evenly across the track to divert water.



- Using natural cross-fall drainage.
- Drainage structures must be constructed if concentrated water flow occurs for distances exceeding those in the following table.

**Maximum distance of water flow or potential water flow along snig tracks or extraction tracks (metres measured along the ground surface).**

Track grade (degrees)	Maximum distance (metres)
0-5	100
5-10	60
10-15	40
15-20	25
20-25	20
25-30	15

### 15. Product Specifications and Accounting

All timber products must be graded and required accounting procedures initiated prior to the products being removed from the dump.

### 16. Yield Estimates

Compartment	Op Type	Net Area (ha):	Compartment	Op Type	Net Area (ha):	Compartment	Op Type	Net Area (ha):
<b>65</b>	<b>T1</b>	<b>21</b>	<b>66</b>	<b>T1</b>	<b>35</b>	<b>67</b>	<b>T1</b>	<b>19</b>
Products	Volume/ha (m <sup>3</sup> /ha)	Total Volume (m <sup>3</sup> )	Products	Volume/ha (m <sup>3</sup> /ha)	Total Volume (m <sup>3</sup> )	Products	Volume/ha (m <sup>3</sup> /ha)	Total Volume (m <sup>3</sup> )
Poles (BB only)	1	21	Poles (BB only)	5	175	Poles	5	95
Veneer	0	0	Veneer	0	0	Veneer	0	0
HQL	1	21	HQL	5	175	HQL	3	57
HQS	1	21	HQS	5	175	HQS	2	38
E-logs	2	42	E-logs	5	175	E-logs	5	95
Salvage grade 1	20	420	Salvage grade 1	25	875	Salvage grade 1	25	475
Salvage grade 2	5	105	Salvage grade 2	5	175	Salvage grade 2	5	95
Pulpwood	25	525	Pulpwood	25	875	Pulpwood	25	475
<b>TOTAL</b>	<b>55</b>	<b>1155</b>	<b>TOTAL</b>	<b>75</b>	<b>2625</b>	<b>TOTAL</b>	<b>70</b>	<b>1330</b>

**Total Volume = 5,110m<sup>3</sup>**

**17. Pre operation briefing**

- I acknowledge that I have received a copy of the Harvesting Plan for Compartments 65, 66 & 67 in Tuckers Knob State Forest and that I have been briefed on the conditions of the Plan and understand the supervision and operational control requirements as explained to me by the Forest Planner or his/her delegate.

Signature:		Name:	
Position	<b>Supervising Forest Officer</b>	Date:	

Signature:		Name:	
Position:	<b>Relieving Supervising Forest Officer</b>	Date:	

**Harvesting Contractor Acknowledgment**

- I acknowledge that I have received a copy of the Harvesting Plan for Compartments 65, 66 & 67 in Tuckers Nob State Forests and that I understand the conditions of the Plan as explained to me by a Forests NSW officer. I will brief other operators not present at this briefing prior to them starting operations and ensure that risk assessment for the Safety Management Plan is completed for this area prior to operations commencing

Signature:		Name:	
Position:	<b>Principal Contractor / Other</b> (explain)	Date:	

**Personnel attending Induction**

Contractor Personnel	Date	FNSW Personnel	Date

This pre operation briefing must be separated from the harvesting plan once the briefing is complete the signed copy of this must be filed with the official copy of the plan.



# ROAD WORKS PLAN

Plantation T1 – Cpts 65, 66 & 67

Tuckers Knob State Forest  
North East Region



Prepared by: Planner

*[Signature]*  
Signature

Date: 21/10/2010.

Endorsed by: Works Program Supervisor

*[Signature]*  
Signature

Date: 18-8-2011

Approved by: Regional Manager

*[Signature]*  
Signature

Date: 8/8/11

## GENERAL INFORMATION FOR MAINTENANCE CREW

### Compartments 61, 65, 66 & 67 Tuckers Knob State Forest

#### 1 Need for the proposal

This proposal is required to service plantation harvesting operations within the above compartments. These compartments are scheduled for harvest in mid 2010 onwards.

#### 2 Costs, Benefits and Material & Plant Requirements

A full breakdown of the costs, benefits and material & plant requirements is given in the Financial Analysis spreadsheet, on file in the North East Region office.

#### 3 Specifications/Legal Conditions

- All roadworks must comply with:
- Technical Guidance Note 2005-1B unless otherwise specified.
- FNSW Forest Practices Codes part 4, Forest Roads and Fire Trails (February 1999).
- Technical Guidance Notes for Roadworks.
- Plantations and Reafforestation Act (1999)
- Plantations and Reafforestation (Code) Regulation (2001), subject to the conditions described in Attachment 1 of the Authorisation for the timber plantation.

#### 4 Special Conditions

Feature	Conditions
Cultural Heritage	No
Threatened Species Licence	No
Dispersible Soils Hazard -	No
Mass Movement Hazard -	Yes – there has been a recent mass movement event on Granite Pit Road associated with the series of major rain events during 2009. This site is to be rehabilitated as per the Mass Movement Remedial Works (see page 3).
Seasonality	Roadworks are not to be carried out from the 1 <sup>st</sup> January – 30 <sup>th</sup> April except to restore drainage.
Engineering Design	No
Environmental impacts ie Dust, Noise, Water, Visual	No
National Park	No
Private Property	No
Permit To Enter required	No
Quarries and Gravel Pits	No
Underground/Overhead Utilities	No
Safety Issues (includes hazards, public use of roads)	Yes – Timboon Road is regularly used by members of the public. Operators must remain aware of other road users at all times.
Flora	Anetholea anisata (Aniseed Myrtle, Ringwood) - Mature specimens of Anetholea anisata are to be protected where practicable – see attached description.

## 5 General Conditions

- Remove trees in accordance with FNSW Safety Standard 1.3.9; and
- Remove vegetation within 3m of the road prism only where required to maintain safe sight distance and passage of trucks.
- Note: Clearing is generally permitted within 3m of the road prism for all roads. Ground disturbance and tree debris may impact outside this 3m either side of the road prism as is required to effect clearing within 3m of the road prism. Conditions 5, 6 and 47 Schedule 5 of the EPL must apply.
- Drop down fluming/Rock dissipater on outlet side when batters >1m in height and <70% ground cover.
- Silt trapping at end of drainage within filter strips of drainage lines

## Granite Pit Road – Remedial Works

### **Remedial works**

- Remove soil from the road prism to allow the safe passage of traffic. Soil removal should be minimised from the toe of the cut batter to maintain stability and reduce the slope of the batter. This soil must be taken off site and deposited in a flat area and seeded.
- Stabilise loose and bare earth with a combination of straw/jutemesh and grass seed. Plant/seed deep rooted tree species if available.
- Armour eroding fill batter with 4 loads of rock. Top dress the rock with soil, straw and grass seed. Place guldeposts inside this section of road.
- Enlarge the windrow on Suttons Road directly above the slip to prevent any water flow entering the slip site.



**Pre Operational briefing**

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 65,66 & 67 Tuckers Knob State Forest, and that I have been briefed on the conditions of the Plan and understand the supervision and operational control requirements as explained to me by the Forest Planner or his/her delegate.

Inducted By (Signature):		Name:	
	<b>Harvest Planner</b>	Date:	
Signature:		Name:	
Position	<b>Roading Co-Ordinator</b>	Date:	

**Staff/Contractor Acknowledgment**

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 65,66 & 67 Tuckers Knob State Forest and that I understand the conditions of the Plan as explained to me by a Forests NSW officer.

**Personnel attending Induction**

Personnel (Print Name and sign)	Date	Inducted By (Print Name and sign)	Date

This pre operation briefing must be returned to NER on completion of Operations and filed with the official copy of the plan.

**FORM 8 – Roading Foreman Notes**

- This diary should record general daily events that are not applicable to a specific road/crossing and any additional comments regarding this works plan.

Date	Event	Initial

# Road Maintenance/Upgrade

Road Name 6611 TRAIL

Category Temporary

Location OFF TIMBOON ROAD TO DUMP 5

Length (m) 60

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input checked="" type="checkbox"/>	Location CREATE TURNAROUND Formation Width (m) 10 Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 60
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Only remove trees in accordance with general condition	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		Clearing outside the road prism: No	
	Batter Repair/Upgrade	<input type="checkbox"/>		NA	
Drainage	Culverts	<input type="checkbox"/>		NA Size: Sets:	
	Mitres	<input type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>		Sets:	
	Belts/Channels	<input checked="" type="checkbox"/>		Sets: 1	
	Drop Downs	<input type="checkbox"/>		Sets:	
	Silt Trapping	<input type="checkbox"/>			
Comments: CROWN ROAD & REMOVE VEGE FROM ROAD PRISM & INSTALL RUBBER FLAPS & CREATE TURNAROUND					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial



Road Name ALFORDS TRAIL

Category Temporary

Location OFF TIMBOON ROAD TO DUMP 4

Length (m) 420

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
<b>Site Info</b>		Works >30 Slopes	<input type="checkbox"/>	
		Mass Movement	<input type="checkbox"/>	
		Dispersible	<input type="checkbox"/>	
<b>Pavement</b>	<b>Upgrade</b>	Widening	<input checked="" type="checkbox"/>	Location CREATE TURNAROUND Formation Width (m) 10 Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input type="checkbox"/>	NA
		Realignment	<input type="checkbox"/>	NA
		Reopening	<input type="checkbox"/>	NA
	<b>Maintenance</b>	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 420
		Repair surface	<input checked="" type="checkbox"/>	
		Crown/Crossfall	<input checked="" type="checkbox"/>	CROWN RIDGE TOP ROAD
	Gravel	<input type="checkbox"/>	Gravel Length (m) 0	
<b>Roadside/Batters</b>	Remove trees >20 cm	<input checked="" type="checkbox"/>	Only remove trees in accordance with general condition	
	Remove trees <20 cm	<input checked="" type="checkbox"/>	Clearing outside the road prism: No	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA	
<b>Drainage</b>	Culverts	<input type="checkbox"/>	NA Size: Sets:	
	Mitres	<input type="checkbox"/>		
	ROD/Spoon	<input type="checkbox"/>	Sets:	
	Belts/Channels	<input checked="" type="checkbox"/>	Sets: 2	
	Drop Downs	<input type="checkbox"/>	Sets:	
	Silt Trapping	<input type="checkbox"/>		
<b>Comments:</b> REMOVE VEGE FROM ROAD PRISM & INSTALL RUBBER FLAPS & CREATE TURNAROUND				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name 67 2 TRAIL

Category

Location Xing E TO BAT TRAIL

Length (m) 660

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info		Works >30 Slopes	<input type="checkbox"/>		
		Mass Movement	<input type="checkbox"/>		
		Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 660
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Only remove trees in accordance with general condition		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	Clearing outside the road prism: No		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REMOVE VEGE FROM ROAD PRISM & STANDARD GRADE					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name BAT TRAIL

Category Temporary

Location 67/2 TRAIL TO DUMP 2

Length (m) 500

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location CREATE TURNAROUND Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 500
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Only remove trees in accordance with general condition	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		Clearing outside the road prism: No	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REMOVE VEGE FROM ROAD PRISM & STANDARD GRADE & CONSTRUCT TURN AROUND					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial



Road Name 65V1 TRAIL

Category Temporary

Location OFF GRANITE PIT ROAD TO DUMP 1

Length (m) 1050

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location CREATE TURNAROUND Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 1050
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
	Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Only remove trees in accordance with general condition	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		Clearing outside the road prism: No	
	Batter Repair/Upgrade	<input type="checkbox"/>		NA	
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>		Sets:	
	Belts/Channels	<input type="checkbox"/>		Sets:	
	Drop Downs	<input type="checkbox"/>		Sets:	
	Silt Trapping	<input type="checkbox"/>			
Comments: REMOVE VEGE FROM ROAD PRISM & CONSTRUCT TURN AROUND					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name GRANITE PIT ROAD

Category

Location TIMBOON ROAD TO HOWARDS ROAD

Length (m) 2150

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info		Works >30 Slopes	<input type="checkbox"/>		
		Mass Movement	<input checked="" type="checkbox"/>		
		Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil removed from site	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance		Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 2150
			Repair surface	<input checked="" type="checkbox"/>	BADLY RUTTED IN SECTIONS
			Crown/Crossfall	<input checked="" type="checkbox"/>	
		Gravel	<input checked="" type="checkbox"/>	WHERE RUTTING HAS OCCURED AND @ POINT WHERE MINOR SLIP HAS OCCURED - ROAD REQUIRES ARMOURING ALSO 3 LOADS ROCK REQUIRED ON FILL BATTER Gravel Length (m) 200	
Roadside/Batters		Remove trees >20 cm	<input checked="" type="checkbox"/>	Only remove trees in accordance with general condition	
		Remove trees <20 cm	<input checked="" type="checkbox"/>	Clearing outside the road prism: No	
		Batter Repair/Upgrade	<input checked="" type="checkbox"/>	@ Slip - Batter back eroding cut batters and jutemesh/seed Place rock on the eroding fill batters	
Drainage		Culverts	<input type="checkbox"/>	NA Size: Sets:	
		Mitres	<input checked="" type="checkbox"/>		
		ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 2	
		Belts/Channels	<input checked="" type="checkbox"/>	Sets: 4	
		Drop Downs	<input checked="" type="checkbox"/>	Sets:	
		Silt Trapping	<input type="checkbox"/>		
<p>Comments: @ POINT WHERE MINOR SLIP HAS OCCURED CONSTRUCT ROD OR RUBBER FLAP &amp; SPOON TO DEVIATE WATER FROM FILL BATTER SLIP. STABILISE CUT BATTER WITH JUTE MESH AND SEED AND FILL BATTER WITH ROCK, SOIL AND GRASS SEED</p>					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name SUTTONS ROAD

Category

Location GRANITE PIT ROAD TO BALLS TRAIL

Length (m) 1050

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info		Works >30 Slopes	<input type="checkbox"/>		
		Mass Movement	<input type="checkbox"/>		
		Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 1050
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input type="checkbox"/>	POINT WHERE ROAD HAS WASHED SIGNIFIGANTLY	Gravel Length (m) 100	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Only remove trees in accordance with general condition		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	Clearing outside the road prism: No		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 4		
	Belts/Channels	<input checked="" type="checkbox"/>	Sets: 5		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: MAINTAIN SOME EXISTING RODS AND REPLACE OTHERS WITH RUBBER FLAPS. CONSTRUCT 4 X SPOON DRAINS AT BOGS					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name BALLS TRAIL

Category

Location SUTTONS ROAD TO DUMP 3

Length (m) 650

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info		Works >30 Slopes	<input type="checkbox"/>	
		Mass Movement	<input type="checkbox"/>	
		Dispersible	<input type="checkbox"/>	
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil
		Grade Lowering	<input checked="" type="checkbox"/>	MAY BE REQUIRED IN SOME SECTIONS FOR B DOUBLE HAULAGE
		Realignment	<input type="checkbox"/>	NA
		Reopening	<input type="checkbox"/>	NA
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 650
		Repair surface	<input checked="" type="checkbox"/>	
		Crown/Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input checked="" type="checkbox"/>	MAY BE REQ.ON STEEP SECTIONS WITH STHERLY ASPECT Gravel Length (m) 100	
Roadside/Batters		Remove trees >20 cm	<input checked="" type="checkbox"/>	Only remove trees in accordance with general condition
		Remove trees <20 cm	<input checked="" type="checkbox"/>	Clearing outside the road prism: No
		Batter Repair/Upgrade	<input type="checkbox"/>	NA
Drainage		Culverts	<input type="checkbox"/>	NA Size: Sets:
		Mitres	<input checked="" type="checkbox"/>	
		ROD/Spoon	<input type="checkbox"/>	Sets:
		Belts/Channels	<input checked="" type="checkbox"/>	Sets: 10
		Drop Downs	<input type="checkbox"/>	Sets:
		Silt Trapping	<input type="checkbox"/>	
Comments: REMOVE VEGE & REPLACE RODS WITH RUBBER FLAPS				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

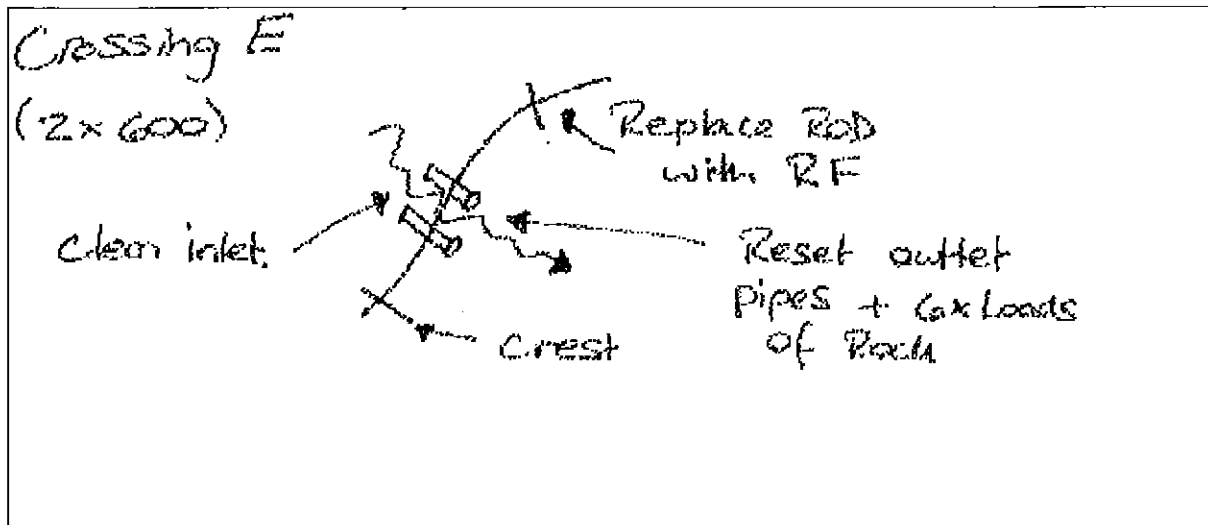
# Crossing Works

Crossing Name **E** Road Name **672 ROAD** Location **SEE OPERATIONAL MAP**

Drainage Feature **1st order DL** Stream Permanency **Permanent**

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	2 X 600	Unstable (replace)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	RESET OUTLET PIPES, 5 LOADS OF ROCK ON OUTLET & CLEAN INLET & REPLACE RODS WITH RUBBER FLAP	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Existing crest
Inlet	CLEAN INLET	5-30m Upstream Right	Rollover
Outlet	Sandbag headwall	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	NATURAL BEDROCK
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date:                      Finish Date:                      Soil Stabilisation Date (must be within 5 days):

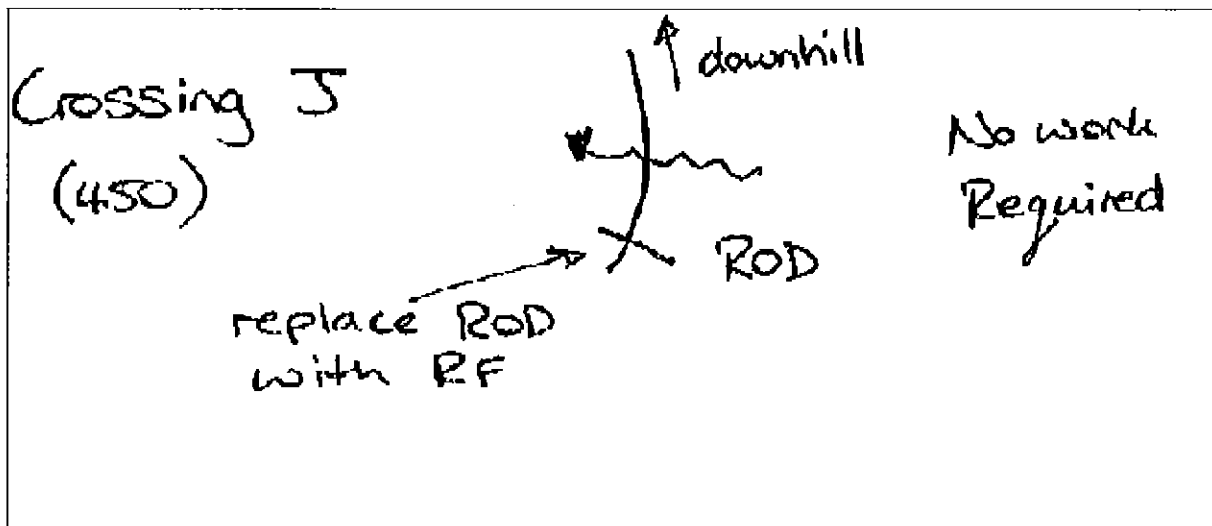
Date	Event	Initial



Crossing Name J Road Name BALLS TRAIL Location SEE OPERATIONAL MAP  
 Drainage Feature Unmapped Drainage line Stream Permanency Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	450	Stable (no works)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	REPLACE ROD WITH RUBBER	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Falls away
Inlet	Nil	5-30m Upstream Right	Rollover
Outlet	Nil	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Drop down
ErosionControl	Nil	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

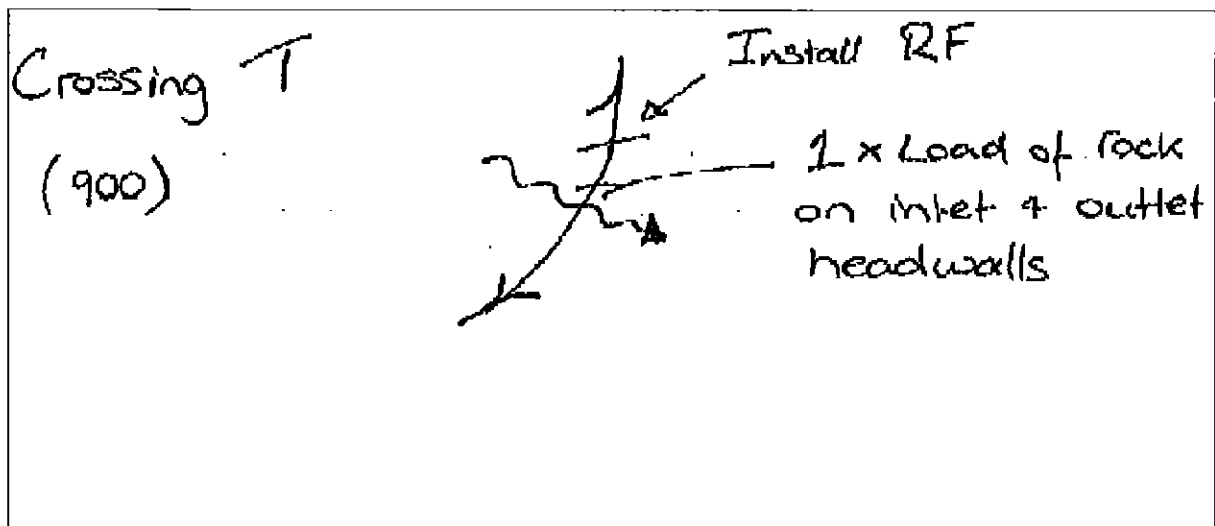
Date	Event	Initial

Crossing Name T Road Name GRANITE PIT ROAD Location SEE OPERATIONAL MAP

Drainage Feature 3rd Order DL Stream Permanency Semi - Permanent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	1050	Unstable (maintenance)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	1 LOAD OF ROCK ON OUTLET AND INLET HEADWALLS, INSTALL RF ON RHS UPSTREAM APPROACH	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Mitre
Inlet	Nil	5-30m Upstream Right	Mitre
Outlet	Nil	Practices where no 5-30	NA
Stabilisation	YES	OutletControl	Rock Armouring
ErosionControl	Natural Vegetation	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

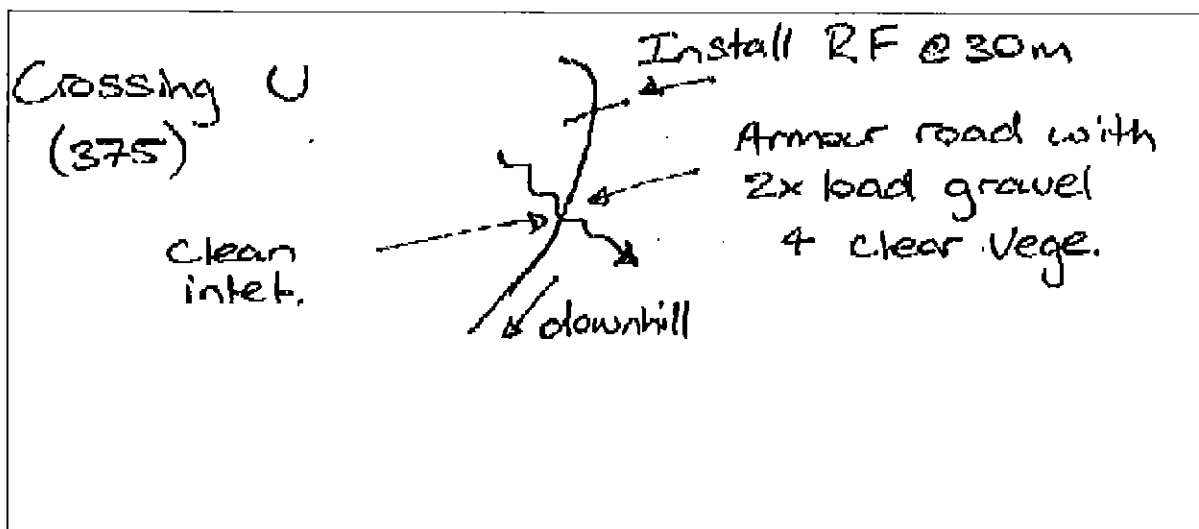
Date	Event	Initial

Crossing Name U Road Name GRANITE PIT ROAD Location SEE OPERATIONAL MAP

Drainage Feature Unmapped Drainage line Stream Permanency Intermittent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Pipe Culvert	375	Stable (no works)	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	2 LOAD OF GRAVEL ON ROAD SURFACE & CLEAR VEGE, INSTALL RF ON RHS UPSTREAM APPROACH	Approaches	Nil
Reshape Bed/banks	Nil	Temporary Drainage	Nil
Disposal of Spoil	NA	5-30m Upstream Left	Falls away
Inlet	CLEAN INLET	5-30m Upstream Right	Rubber Flap
Outlet	Nil	Practices where no 5-30	NA
Stabilisation	Nil	OutletControl	Natural Vegetation
ErosionControl	Natural Vegetation	TableDrain	Natural vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial