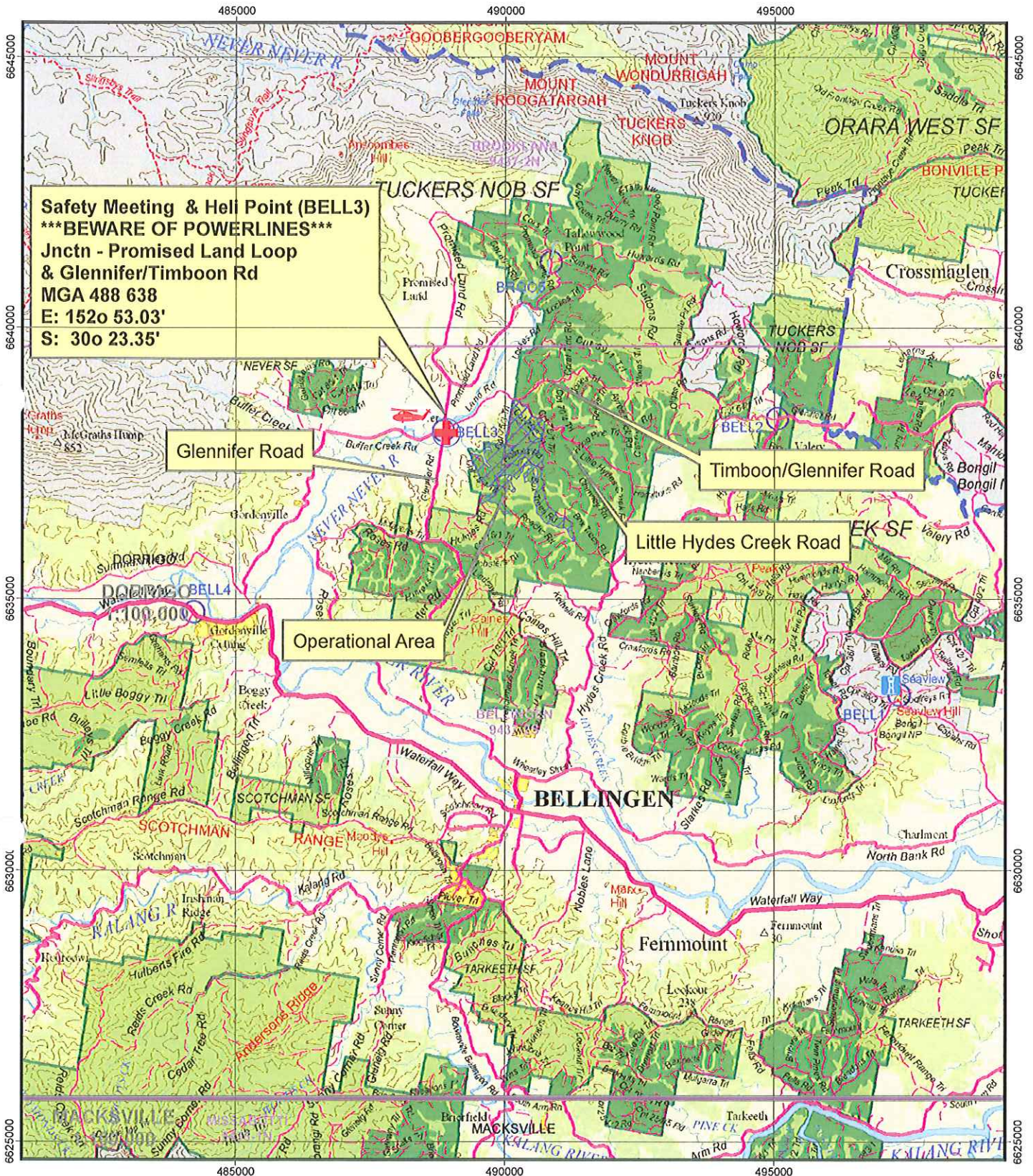




Map Sheets:  
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 1:25,000 - Brooklana - 9437-2N  
 1:100,000 - Dorrigo - 9437  
 Scale: 1:100,000

North East Region - Urunga MA  
 Locality Map  
 Compartments 75, 76 & 78  
 Tuckers Knob State Forest



MAP FEATURES

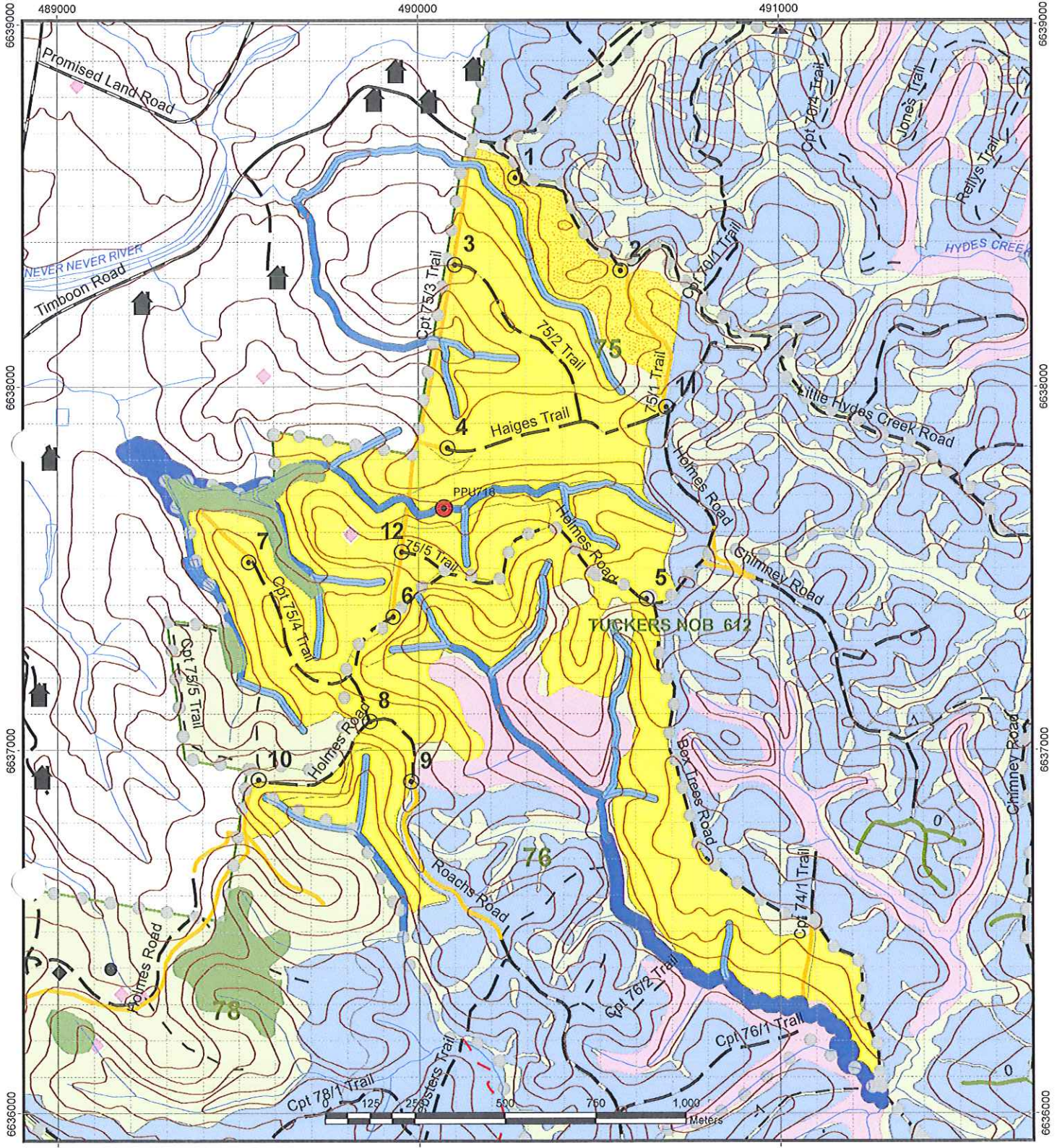
- Subject Area
- Emergency Meeting Point (Safety Point)
- Helicopter Landing Point
- State Forest
- 1:25000 Map Sheet
- 1:100000 Map Sheet
- National Park Estate



Prepared by... Bob Aspden  
 Date: 2.4.2012

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

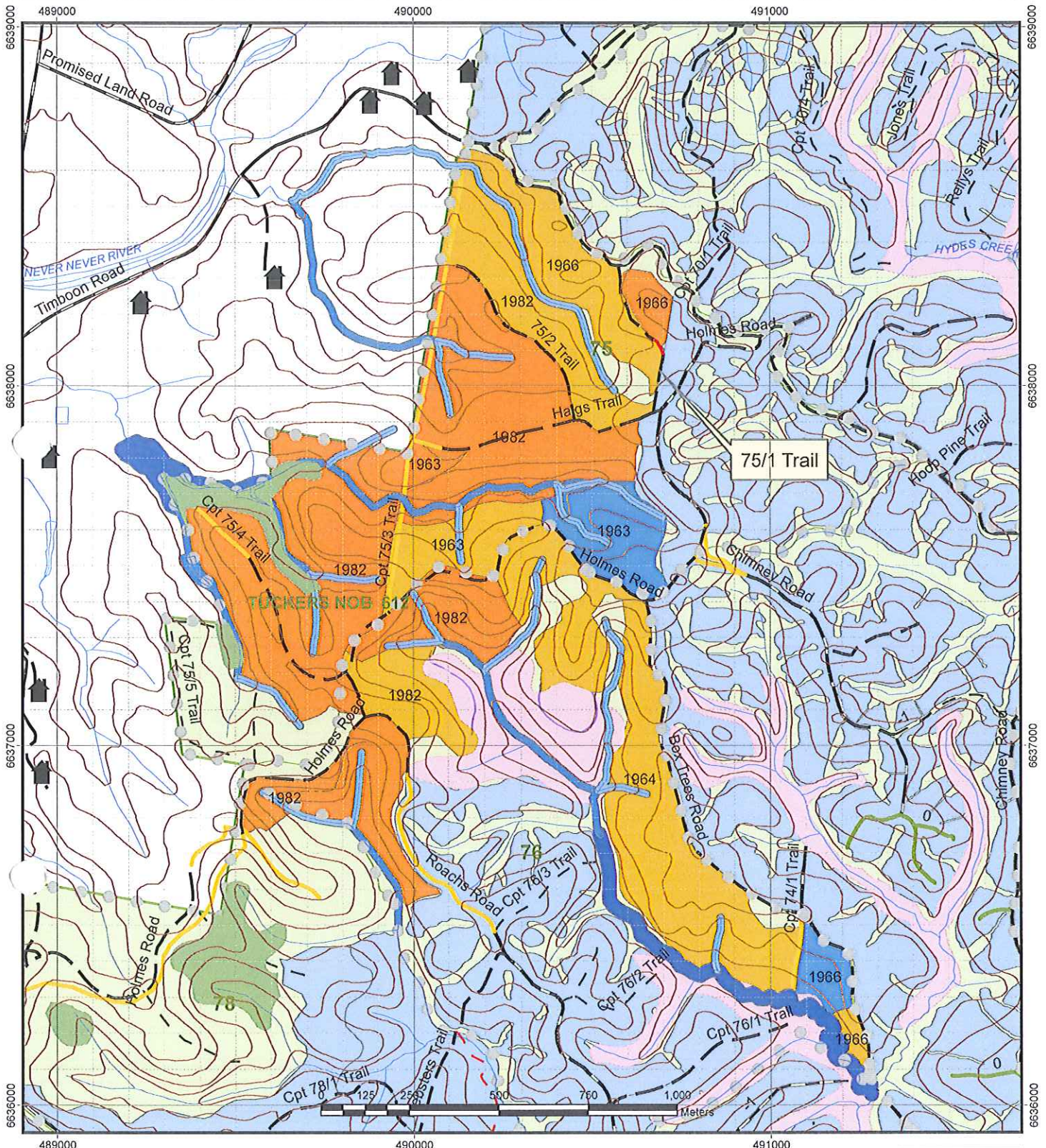
North East Region - Urunga MA  
 Harvest Plan Operational Map  
 Compartments 75, 76 & 78  
 Tuckers Knob State Forest



MAP FEATURES	Flora & Fauna	HARVESTING PRESCRIPTIONS	HARVESTING EXCLUSIONS
<ul style="list-style-type: none"> <li>State Forest Boundary</li> <li>Compartments Boundary</li> <li>1 Km Grid</li> <li>10 / 100 m Contour</li> <li>State Forest</li> <li>National Park Estate</li> <li>Slopes &gt; 30 degrees</li> <li>House/Building</li> <li>PGPs (Permanent Growth Plots)</li> <li>Crossing</li> <li>Dump/Turnaround</li> </ul>	<ul style="list-style-type: none"> <li>Masked Owl</li> <li>Glossy Black-Cockatoo</li> <li>Brush-tailed Phascogale</li> <li>Koala</li> <li>Little Bent-wing Bat</li> <li>Parsonsia dorrigoensis</li> </ul>	<ul style="list-style-type: none"> <li>Harvest Area</li> <li>Harvest Area (Indicative Wet Weather Area)</li> </ul> <p><b>ROADS</b></p> <ul style="list-style-type: none"> <li>All Weather, Unsealed</li> <li>Dry Weather, Unsealed</li> <li>4WD Track</li> <li>Non Haulage Roads</li> <li>New Construction</li> </ul>	<ul style="list-style-type: none"> <li>Special Management Zone (FMZ 3A)</li> <li>Mapped Rainforest</li> <li>Other State Forest (FMZ 4)</li> <li>Other Plantation</li> </ul> <p><b>RIPARIAN BUFFER ZONES</b></p> <ul style="list-style-type: none"> <li>1st Order (10m either side)</li> <li>2nd Order (10m either side)</li> <li>3rd Order (20m either side)</li> </ul>

Map Sheets:  
 1:25,000 - Bellingen - 9437-2S  
 1:100,000 - Dorrigo - 9437  
 Scale 1:15,000

North East Region - Urunga MA  
 Forest Type Map  
 Compartments 75, 76 & 78  
 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
- 🏠 House/Building
- PGP (Permanent Growth Plots)
- ⚡ Crossing
- ⊙ Dump/Turnaround

**ROADS**

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

**Forest Types**

- Blue Gum
- Flooded Gum
- Blackbutt

**HARVESTING EXCLUSIONS**

- Special Management Zone (FMZ 3A)
- Mapped Rainforest
- Other State Forest (FMZ 4)
- Other Plantation

**RIPARIAN BUFFER ZONES**


- 1st Order (10m either side)
- 2nd Order (10m either side)
- 3rd Order (20m either side)

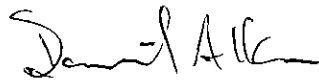



## OPERATIONAL HARVESTING PLAN PLANTATION CLEARFELL

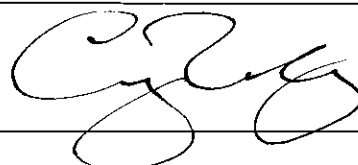
<b>Region</b>	North East
<b>Management Area</b>	Coffs Harbour
<b>State Forest</b>	Tuckers Knob
<b>Compartments</b>	75, 76 & 78
<b>Harvest plan No.</b>	HP_3910
<b>Harvest Plan Name</b>	U_75_76_78

### Plan Certification

Harvest planner		Date: 5/4/12.
Bob Aspden		

A/ Harvest planning Manager		Date: 16.4.12

Regional Planning Manager		Date: 17/04/12.
Dean Kearney		

Regional Manager		Date: 18/4/12
Craig Busby		

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# HARVESTING DETAILS

## 1. Area Identification

Region North East  
 Management Area Urunga  
 State Forest Tuckers Knob  
 Compartment/s 75, 76 & 78

Cmpt	Gross Area (ha)	Net Area (ha)	Pricing Area	Op Type	Avg. Yield (contract)	Avg. Removal (contract)
75	145	93	Urunga Costal	Clearfall	120	0.3
76	152	56	Urunga Costal	Clearfall	120	0.3
78	192	1	Urunga Costal	Clearfall	120	0.3

## 2. Description of Proposal

### 2.1 Integrated harvesting of Plantation Areas

Clearfelling of 1963/64/66/82 age class Blackbutt (*E.pilularis*) ~50%, Flooded Gum (*E.grandis*) ~ 43% and some Blue Gum (*E.saligna*) ~ 7% plantation

### 2.2 Other

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached)
Post harvest Burning	Yes	Plan to be prepared separately
Re-establishment (2R)	Yes	Plan to be prepared separately

## 3. Safety Considerations

See attached Hazard Assessment and Medical Emergency Evacuation Plan.

## 4. Plantation Condition and Silvicultural Prescription

### 4.1 Plantation Description

- **Age Class:** 1963/64/66/82
- **Species/Area:** Blackbutt ~ 75 ha  
 Flooded Gum ~ 65 ha  
 Blue Gum ~ 10 ha

- **Stand Health:** Flooded Gum – Varying quality from moderate to poor (most stems are expected to exhibit internal defect in the form of pithy heart). Some of the Flooded Gum has not been thinned.

Blackbutt – Varying quality from excellent to good. Some small sections of the Blackbutt have not been thinned.

Blue Gum – Generally moderate quality (a large proportion of stems are expected to exhibit internal defect).

#### 4.2 Silvicultural History and Product Types

The majority of the area of existing plantation has had a delayed thinning (2002). Some small sections of the harvest area have not been thinned. Areas that have been thinned have a basal area of approximately 15-20m<sup>2</sup>. Form is generally good to excellent within the plantation.

Harvesting at this time should produce poles from the areas of Blackbutt, however the Flooded Gum and Blue Gum are expected to show a large proportion of defect and hence a small proportion of high quality sawlogs and a high proportion of low quality sawlogs and pulp grade material.

#### 4.3 Silvicultural Objectives and Prescriptions

Clearfall and re-establish with local native species within 12-18months.

### 5. Legal Conditions

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

As such, the operation must comply with:

- Plantations and Reafforestation Act (1999)
- Plantations and Reafforestation (Code) Regulation (2001)

Legislation relating to the operations on State forests & Other Crown-Timber Lands is detailed in FNSW 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 and no trees are to be removed.

#### 6.2 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 from North East Region Resources Unit.

#### *Private Property*

The western boundary of the harvest area adjoins private property. The boundary is fenced.

- The harvesting must not impact on private property.
- Any damage to a fence must be immediately repaired by the contractor

### **Other Critical Boundaries**

The north section of the harvest area adjoins the Little Hydes Creek Road (Council road easement - see Operational Map). This road easement contains native forest and other vegetation and must not be disturbed. This easement must be identified, marked and excluded from harvesting disturbance. The easement is to be measured 10m from the centreline of the road in use. All operational staff must maintain awareness for other road users when operating near Little Hydes Creek Road.

### **6.3 Wet Weather Operational Area**

Areas on the operational map have been identified as indicative wet weather harvesting areas (marked as yellow with brown dots). These areas are comprised of ridge-tops and mid-slopes. Areas around drainage lines are to be avoided.

### **6.4 Public Recreational Use**

Areas adjacent to the harvesting area and within the vicinity of the harvest area are frequently used by locals for recreation. Valery Trails Equestrian Centre sometimes ride through the area. Operators must remain alert to the potential presence of members of the public.

### **6.5 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.

### **6.6 Haulage Route – Closed Roads**

The main haulage route is along Little Hydes Creek Road. This is a council road and permission has been granted to close the section of Little Hydes Creek Road adjacent to the harvest area for the purposes of harvesting. This closure must be publicised in local newspapers prior to the road closure. This is the responsibility of the Harvesting Forester.

An additional haulage route is along Box Trees Road and onto Hydes Creek Road. The Harvesting Forester must close all state forest roads to the public during haulage operations utilising B-double trucks. When closed this route may only be used by holders of a permit issued by FNSW.

### **6.7 Permanent Growth Plot**

A permanent growth plot occurs approximately 100m south of Dump 4 (see Operational Harvest Map). This plot is available for harvest, however, tags from the individual trees must be collected and given to the Resources Manager.

### **6.8 Flora & Fauna**

A desktop review has highlighted that two threatened species may occur within the operational area. The descriptions and diagrams of the species listed below (see attached appendix) are to be used by the 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.

- The **Giant-Barred Frog** (*Mixophyes iterates*) occurs in moist Eucalypt forest and rainforest, usually found close to permanent running water. Numerous observations of this species have been made within a 2km radius of the harvest area but have not been detected in the harvest area. One observation was made approximately 1500m from the northern side of the harvest area. This species has a wide geographical range through the north coast and northern tablelands of NSW to southern QLD, however is rare within its range.

The **Slender Marsdenia** (*Marsdenia longiloba*) occurs in moist Eucalypt forest and rainforest. One observation of this species has been made within a 5km radius of the harvest area and was not detected in the harvest area. This individual was located 2.5 km from the harvest.



## 6.8 Forest Management Zones

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

- **Zone 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 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 and purple on the operational map. The areas shown as yellow are available for harvesting in this operation – follow silvicultural prescriptions as outlined in section 4.

## 7. Cultural Heritage

### 7.1 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 has inspected the compartments. No issues were identified at the inspection.

### 7.2 Non Aboriginal Cultural Heritage

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

## 8. Soils and Water

	Cpt 75	Cpt 76	Cpt 78
Inherent hazard level	2	1	2
Dispersible Soils	No	No	No
Seasonality	No	No	No

### 8.1 Seasonality

There is no requirement for seasonal harvesting of the operational area. Prescribed wet weather areas as per the P & R Code (see Section 6.6) are to be preferentially used during wet periods of the operation.

### 8.2 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.

**9. Drainage features**

**9.1 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 (Haz Class 1)
Drainage depressions	5
Unmapped drainage lines	10
1st order	10
2nd order	10
3 <sup>rd</sup> order	20
4 <sup>th</sup> order or greater	20

**9.2 Operational Conditions for Drainage Features**

- Harvesting within buffer zones must comply with conditions 16, 63(a) of the Plantations and Reafforestation (Code) Regulation 2001.
- 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.

**10. 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

Description	Symbol
<b>Edge of net harvest area</b> (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)	"⊙"
<b>Buffer Zone</b> Areas where machinery is not permitted but there may be trees to be felled	Two horizontal lines / rings (indicate distance if required)
<b>Drainage depression buffer strip</b>	Not marked
<b>Extraction System, OR Road/Track line</b>	"I" or white tape
<b>Dump site</b> (with optional dump number reference)	"D" or red tape
<b>Approved crossing site</b>	"↑"
<b>Slope angle indication</b> (commences here)	eg "25°"
<b>Individual tree</b>	"•" or dots
<b>Directional felling mark</b>	"←" over "•"
<b>Retained trees not to be removed or damaged</b> (eg grower)	One horizontal line or ring
<b>Cancellation Mark</b> (Mark to formally cancel previous marks)	"X"

### 11. 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 snigging or extraction provided they are drained to the appropriate specifications (as per Schedule 5 of the Non-IFOA EPL). 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 as per conditions Conditions 57 to 83 of Schedule 4 of the EPL (Snig tracks - 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.

**Road Maintenance/Road Construction– See Roadworks Plan**

### 12. Log Dumps

#### 12.1 Location

- Log dumps and landings that require construction must be located outside buffer zones and areas of native vegetation except where otherwise approved.
- 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.

#### 12.2 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.

### 13. Extraction Tracks

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

#### 13.2 Walkover extraction:

Walkover extraction to be used where practicable

Soil erosion from tracks must be minimised by:

- Retaining groundcover using slash and leaf litter. Slash must be placed evenly across the track to divert water.
- 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.
- Using natural cross-fall drainage.
- Forwarders must use either the road or road verge when forwarding to Dumps 1 or 4 within the native forest.
- The construction of new forwarder tracks must not involve side cuts of greater than 2m
- Drainage structures must be constructed if concentrated water flow occurs for distances exceeding those in the following table.

#### 13.3 Extraction track drainage:

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

### 14. Product Specifications and Accounting

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

**15. Yield Estimates**

Blackbutt	Op Type	Net Area (ha):	Flooded Gum	Op Type	Net Area (ha):	Blue Gum	Op Type	Net Area (ha):
75, 76 & 78	CF	75	76	75, 76 & 78	65	75, 76 & 78	CF	10
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)	45	3375	Poles (BB only)	0	0	Poles	5	50
Veneer	10	750	Veneer	10	650	Veneer	15	150
HQL	40	3000	HQL	7	455	HQL	20	200
HQS	34	2550	HQS	8	520	HQS	20	200
E-logs	6	450	E-logs	5	325	E-logs	5	50
Salvage grade 1	15	1125	Salvage grade 1	70	4550	Salvage grade 1	60	600
Salvage grade 2	5	375	Salvage grade 2	40	2600	Salvage grade 2	20	200
Pulpwood	15	1125	Pulpwood	30	1950	Pulpwood	25	250
<b>TOTAL</b>	<b>170</b>	<b>12750</b>	<b>TOTAL</b>	<b>170</b>	<b>11060</b>	<b>TOTAL</b>	<b>170</b>	<b>1700</b>
<b>Total Volume</b>		<b>25,500 m<sup>3</sup></b>						

**16. Pre operation briefing**

I acknowledge that I have received a copy of the Harvesting Plan for Compartment 75, 76 & 78 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 Compartment 75, 76 & 78 in Tuckers Knob State Forest 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

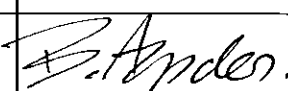
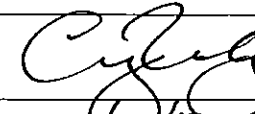
Signature:		Name:	
Position:	<b>Principal Contractor / Other (explain)</b>	Date:	

**FORESTS NEW SOUTH WALES – NORTH EAST REGION**

**ROAD WORKS PLAN**

**Tuckers Knob State Forest; Compartments 75, 76 & 78**

**Certification**

Prepared By: Harvest Planner	Bob Aspden	Approved By: Regional Manager	Craig Busby
Signature		Signature	
Date	5/4/12	Date	12/4/12

**1. Objectives**

Roadworks are required to service native forest harvesting operations within the above compartments. These compartments are scheduled for harvest in 2012.

The operational map shows the location of the proposed works.

**Attachments:** **Financial Analysis Spreadsheet** gives full details of costs, benefits, material & plant requirements

**2. Specifications and Legal Conditions**

This operation must comply with:

- Standard Harvest Plan Conditions for Native Forest Operations in North East Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests February 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- Integrated Forestry Operations Approval issued under part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) including the associated licences:
- Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act (1995)
- Licence issued under section 220ZW of the Fisheries Management Act 1994 (FL)
- Technical Guidance Notes for Roadworks.
- State Forests of NSW Forest Practices Code - Part 1 Timber Harvesting in Forests NSW Plantations 2005 and Forest Practices Code Part 4 Forest Roads and Fire Trails (February 1999).
- 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.

### 3. Special Conditions

Feature	Conditions
Threatened Species	<i>Mixophyes iterates</i> ( <b>Giant Barred Frog</b> ) and <i>Marsdenia longiloba</i> ( <b>Slender Marsdenia</b> ) occurs within 5km of the operational area. The included descriptions and diagrams of these species (see attached) 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.
Seasonality	No Seasonality applies to these operations.
Telstra Cable	A fiber optic cable runs through part of the operational area. The cable runs down a southern section of Holmes Road south of Dump 8 and follows Holmes Road to the north and then onto Roaches Road to the east (see Telstra map held on file with in the harvest plan folder). The cable is marked in the field with yellow Telstra markers. <b>Note: "Markers reside on opposite side of route (cable)"</b>
Safety Issues (includes hazards, public use of roads)	Yes – Timboon Road is regularly used by members of the public and Little Hydes Creek Road to a lesser extent. Operators must remain aware of other road users at all times. - See Hazard Assessment in the Site Safety Pack

### 4. 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.

### 5. Works Schedule

See attached worksheets

**Authorised Works**

**Road Name:** Little Hydes Creek Road **Road Standard:** Permanent **Road Length** 1100m  
 from the intersection of Timboon Road to the intersection with Holmes Road

	WORKS	REQUIR ED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Maintain
	Belts/Channels	<input type="checkbox"/>	
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial



ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: Holmes Road Road Standard: Permanent Road Length 3000m from the intersection of Little Hydes Creek Road to Dump 10

	WORKS	REQUIR ED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input checked="" type="checkbox"/>	2 x loads gravel on steep eroded sections near intersection with Little Hydes Creek Road
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Maintain x 4 ROD, Drain 2 x low wet spots
	Belts/Channels	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: Haiges Trail Road Standard: Temporary Road Length 700m from the intersection of Holmes Road to Dump 4

	WORKS	REQUIRE D	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Belts/Channels	<input type="checkbox"/>	
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: 75/2 Trail Road Standard: Temporary Road Length 600m from the intersection of Haiges Trail to Dump 3

	WORKS	REQUIR ED	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Belts/Channels	<input type="checkbox"/>	
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: Box Trees Road Road Standard: Temporary Road Length 2650m from the intersection of Holmes Road to the intersection with Hydes Creek Road

	WORKS	REQUIRE D	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Maintain ROD's
	Belts/Channels	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: 75/5 Trail Road Standard: Temporary Road Length 160m from the intersection of 75/5 Trail to Dump 12

	WORKS	REQUIREMENT	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Maintain
	Belts/Channels	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: 75/4 Trail Road Standard: Temporary Road Length 500m from the intersection of Holmes Road to Dump 7

	WORKS	REQUIRE D	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input checked="" type="checkbox"/>	Maintain
	Belts/Channels	<input checked="" type="checkbox"/>	Where required for EPL Spacing
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

ROADING PLAN – Tuckers Knob State Forest, Compartments 75, 76 & 78

Road Name: Roaches Road Road Standard: Temporary Road Length 260m from the intersection of Holmes Road to Dump 9

	WORKS	REQUIREMENT	INSTRUCTIONS/SITE SPECIFIC CONDITIONS
Site Info	Works on >30° slopes	<input type="checkbox"/>	
	Mass movement conditions	<input type="checkbox"/>	
	Dispersible Soils Conditions	<input type="checkbox"/>	
Pavement	Widening	<input type="checkbox"/>	
	Minor Realignment	<input type="checkbox"/>	
	Re-opening	<input type="checkbox"/>	
	Remove vegetation / debris	<input checked="" type="checkbox"/>	
	Repair surface	<input checked="" type="checkbox"/>	
	Crown / Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input type="checkbox"/>	
Roadside & Batters	Remove trees >20 cm dbhob	<input checked="" type="checkbox"/>	Remove Dangerous trees/stags only
	Remove trees <20 cm dbhob	<input checked="" type="checkbox"/>	Clearing outside the road prism exceeding 3m must comply with condition 5 Schedule 5 of the EPL. See Section 4 page 3.
	Repair/upgrade of Batters	<input type="checkbox"/>	
Drainage	Culverts	<input type="checkbox"/>	
	Mitre Drains	<input checked="" type="checkbox"/>	Clean
	ROD / Spoon	<input type="checkbox"/>	
	Belts/Channels	<input type="checkbox"/>	
	Drop Downs	<input type="checkbox"/>	
	Silt Trapping	<input type="checkbox"/>	

1. Start Date:

Finish Date:

Date	Event	Initial

