

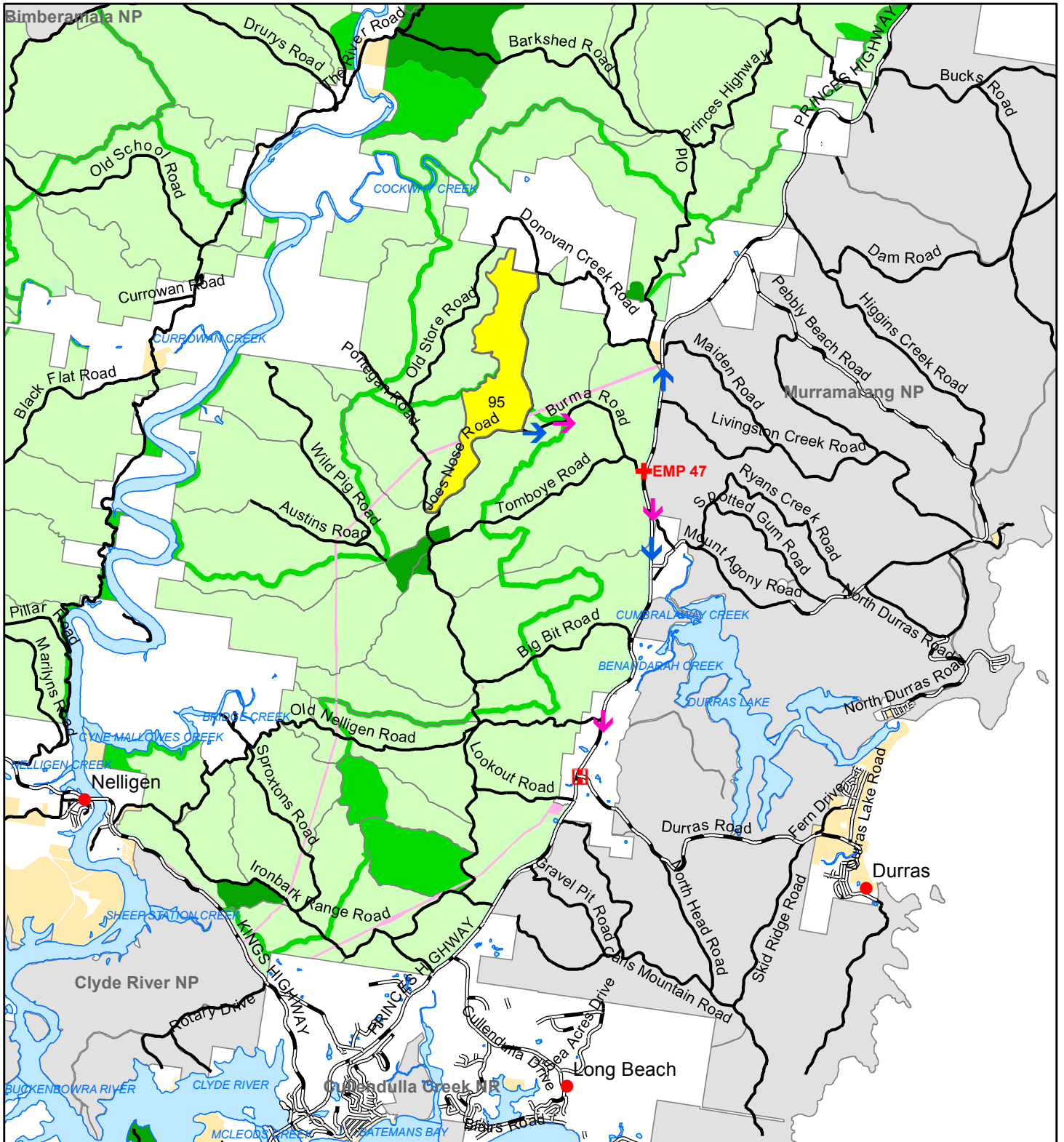
# LOCALITY MAP

Compartment 95

Boyne State Forest No. 832

Southern IFOA - South Coast Sub-region

Scale: 1:100,000



- Towns & Localities
- Sealed Road
- Major Forest Road
- - Minor Forest Road
- Major Rivers

- State Forest
- Planning Unit
- Vacant Crown Land
- Non Forest
- Freehold
- National Parks
- Formal Reserve
- Informal Reserve
- Softwood Plantations
- Water

- ✚ Emergency Meeting Point
- ☐ Helicopter Landing Site
- ➡ Evacuation Route
- ➡ Haulage Route



Prepared By: Mark Jones

Version: 1

PLANNING SUPERVISOR APPROVAL  
APPROVED:  
DATE: / /

# Harvest Plan Operational Map

Compartment: 95

Boyne State Forest No. 832

Southern IFOA - South Coast

Map Sheet: Currowan 8926-4N



## Legend

### FLORA AND FAUNA

- Yellow-bellied Glider (Heard)
- Powerful Owl
- Masked Owl
- Glossy Black-Cockatoo (Feed Tree)
- Gang-gang Cockatoo
- Flame Robin
- Swift Parrot
- Little Lorikeet
- Grey-headed Flying-fox
- White-footed Dunnart

### UTILITIES

- Underground Cable (Indicative Location Only)
- Powerline

### BOUNDARIES

- State Forest Boundary
- Compartment Boundary
- Proposed Control Line

### ROADS

- Major Forest
- Minor Forest
- EPL Standard Existing (Major)
- EPL Standard Existing (Minor)

### DRAINAGE

- Mapped LIC Drainage (LiDAR corrected)

### HARVEST AREA

- RU1 - STS Heavy (222 Ha)

### NON HARVEST AREA

- Harvesting Protection (FMZ 3A)
- Non Forest Use (FMZ 7)
- Ridge & Headwater Habitat (40m total width)
- Probable Rainforest & Exclusion Zone (20m)
- Owl Landscape
- High Conservation Value Old Growth
- Slopes >30 (IHL 4)
- RU2 - Excluded Forest (4 Ha)

### TENURE

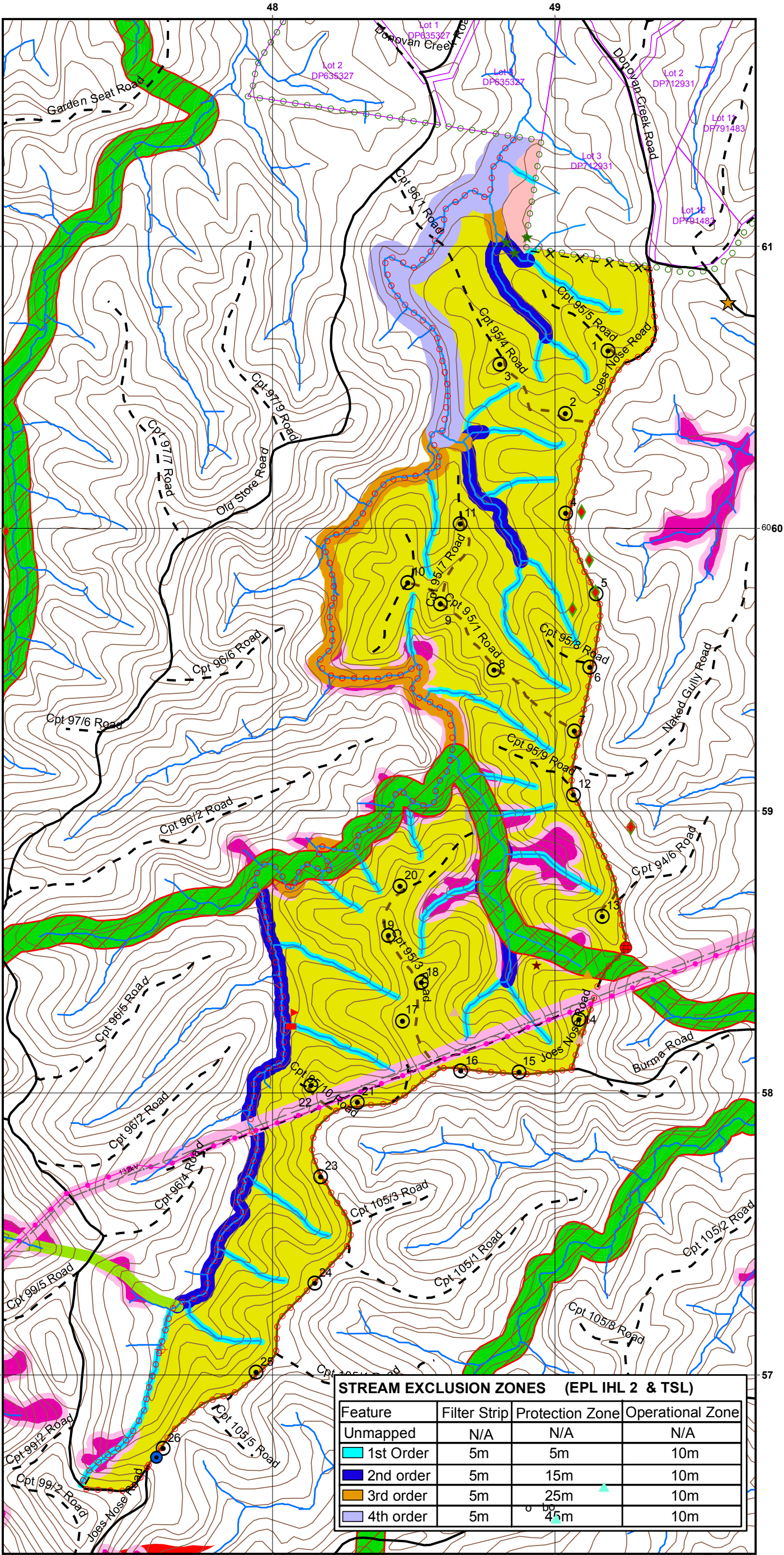
- Private Property

### DUMPS & CROSSINGS

- Temporary Dry Weather
- Permanent Bee Set Down

### SAFETY ALERT FEATURES

- Dangerous Tree



Scale: 1:15,000

Contour Interval 10m

0 125 250 500 750 1,000  
Meters



Forest Type Map

Compartment: 95

Boyne State Forest No. 832

Southern IFOA - South Coast

Map Sheet: Currowan 8926-4N



LEGEND

FOREST TYPE

- Spotted Gum - 278.3 Ha
- Coastal Dry Forest - 1.0 Ha
- Rainforest - 18.7 Ha
- Non Forest - 0.7 Ha

BOUNDARIES

- State Forest Boundary
- Compartment Boundary

DRAINAGE

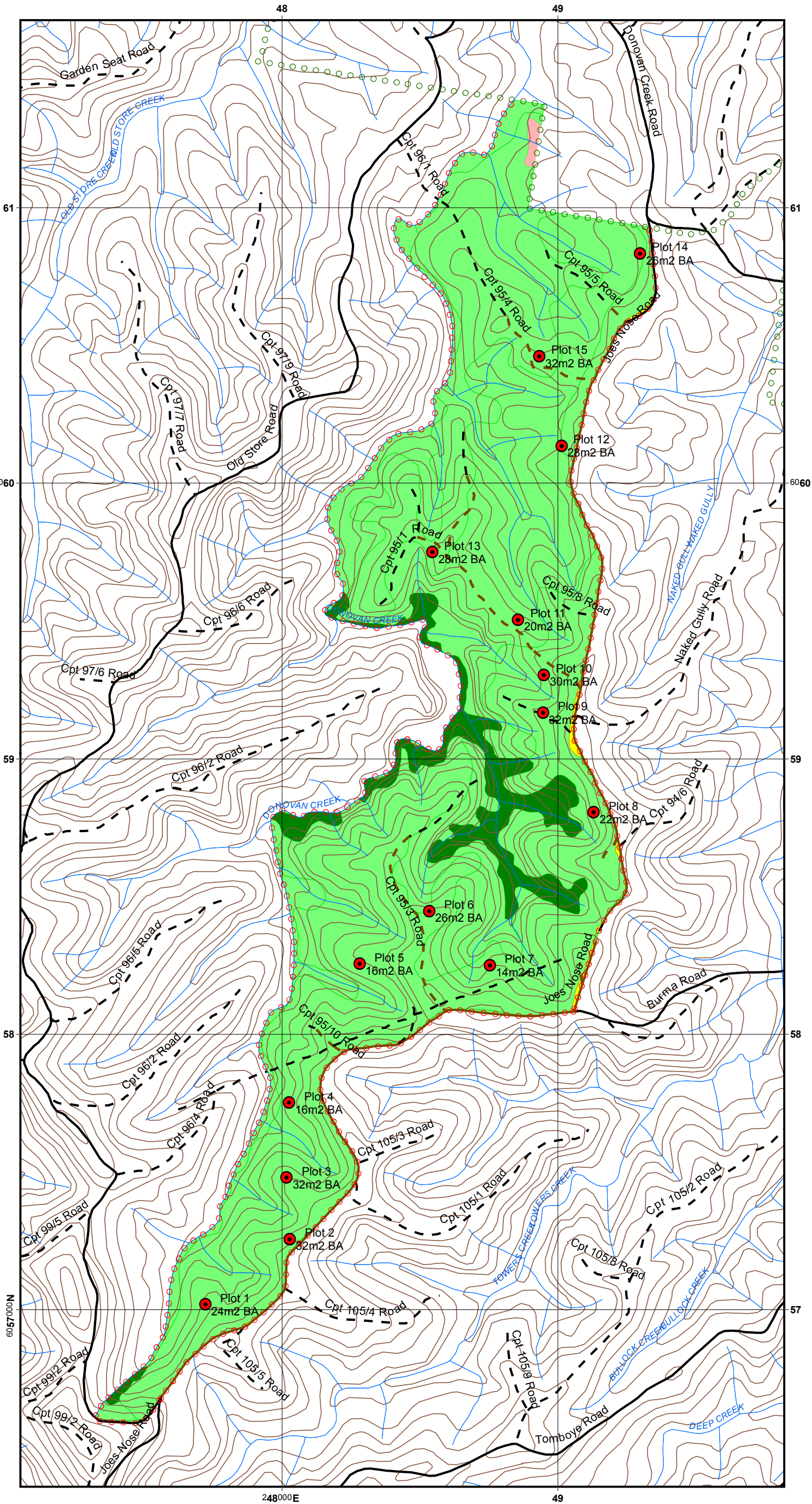
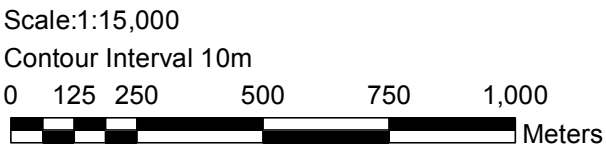
- Mapped LIC Drainage

ROADS

- Major Forest
- Minor Forest
- EPL Standard Existing (Major)
- EPL Standard Existing (Minor)

OTHER FEATURES

- Basal Area Plots





## HARDWOOD FORESTS- SOUTHERN IFOA SOUTH COAST HARVESTING PLAN

### Boyne State Forest - Compartment 95

#### Certification

This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998. The Harvest Plan Standard Conditions for Hardwood Forest Operations in South Coast apply to this operation.

Prepared By:	Mark Jones	Approved By:	Lee Blessington
Harvest Planner		Planning Supervisor	
Signature	Mark Jones	Signature	Lee Blessington
Date	21/10/2015	Date	21/10/2015

Note: Approval includes the Harvest Plan Operational Map (HPOM) with the corresponding approval date displayed on the map, verifying final approved version. Other maps included with this plan are Locality, Forest Type, Roading and Cultural Heritage (limited distribution).

#### Description of Proposal

##### Harvesting of Hardwood forest

Harvesting of Hardwood forest, using Single Tree Selection Silviculture subject to the Southern IFOA requirements will be undertaken within this planning unit. **Timber harvesting and road construction will not be licensed under the EPL.**

The primary product of the harvesting is high quality large sawlogs (quota logs), small high quality sawlogs, veneer logs, girders, poles & piles where timber markets are available. Parts of felled logs that do not meet high quality log specifications are segregated and graded into other classifications such as salvage sawlogs, pulp logs & miscellaneous timbers e.g. split & round posts, firewood, mining timbers & craftwood. The availability of miscellaneous timbers depends mainly on forest types, log defectiveness & market conditions at the time of harvesting.

##### Clause 22 – Integrated Forestry Operations Approval (IFOA) Consideration

All relevant factors have been reviewed taking into account the volume and monetary value of each forest product to supply Term Agreement Holders. The harvesting operation also complies with Clause 22 of the IFOA.

**Attachment 1:** Site Safety Plan prescribes safety requirements and Medical Emergency Evacuation Plan for this harvesting operation.

**Attachment 2:** Roading plan prescribes roading requirements for this harvesting operation.

**Abbreviations used in this plan**

FT = Forest Technician, HC= Harvesting Coordinator, PtS= Protection Supervisor, HS = Harvesting Supervisor, RC = Roading Coordinator, IFOA = Integrated Forestry Operations Approval.

**Area Identification and Yield Estimates**

State Forest	Compartment/s	IFOA Region	Management Area	Certification
Boyne	95	Southern	Batemans Bay	AS4708:2007 ISO 14001

	<b>Cpt 95</b>
Plan Compartment ID	<b>22029</b>
Gross Area (ha)	299
Net Harvestable Area (ha)	226
Harvest Area (ha)	222
Poles, Piles, Veneer & Girders	0m <sup>3</sup>
Quota Logs (HQL)	2000m <sup>3</sup>
High Quality Small	400m <sup>3</sup>
Salvage	1000m <sup>3</sup>
Pulp E1	2000t
Firewood/Misc	660t

**Note:** The yield estimates in the table above are derived from the Plan of Operations.

**Slope Classes (percent of harvest area)**

	<b>Cpt 95</b>
<b>Slope Class</b>	<b>% of harvest area</b>
0-20°	94.9
20-25 °	4.6
25-30 °	0.4



## ATTACHMENT 1: SITE SAFETY PLAN

Worksite Information		
Is this Declared Hunting Area: No	Comments:	
Have Exclusion Zone signs been erected or checked prior to starting work daily.	NA	
Comments:		
Description of Work to be undertaken on site: - Refer to description of proposal above.		
Site Supervisor		
Name:	Contact number:	
Communication		
Radio channel number	VHF:	UHF
Other (e.g. hand signals):		
Traffic management (describe) e.g. Signage, Road closure, Traffic control		
<p>This plan identifies haulage from the compartment will be via Joes Nose Road, turning left or right onto Burma Road, left onto Tomboye Road then left or right onto Princes Highway (100km/hr RMS controlled road). The intersection of Tomboye Road and Princes Highway has been assessed as achieving a minimum of 200m sight distance on both approaches. Therefore at this intersection additional signage in accordance with a Traffic Control Plan is not required.</p> <p><b>Community access route</b> - Tomboye road is used by private landholders to commute to and from work/school between the hours of 7:30am to 8:30 am and 3:30pm to 4:30pm. On weekdays, to the greatest extent practicable, log haulage should avoid these times on the above roads.</p>		
Name of on-site safety first aider/s		
Location of first aid kit		

SITE HAZARD & RISK ASSESSMENT NO.	CONTROL	WHO	IMPLEMENTED
1. Vehicle collision at adjoining roads of various traffic levels	Warning signs at FCNSW intersections, road closure on FCNSW roads. Implement Traffic Control plans (where specified in this harvest plan). 60km/hr speed limit on all State Forest gravel roads unless otherwise signposted. Compliance with FCNSW lights on policy.		
2. Overhead powerlines or cables	Assess every individual tree for directional felling and degree of risk. Do not fall trees towards overhead hazard if within two tree lengths.		
3. Underground cables, pipelines	Minimise ground disturbance across or along cables & pipelines. Increase depth of earth cover if required.		
4. Hazardous or dead trees	<b>Refer to FCNSW operational safety standard OSS010.</b> Assess area within two tree lengths of work site. Assess risk, mark any Distinctly Dangerous Trees with the symbol Ø & if necessary remove hazard or move work site. Use machinery to assist with hazard removal if possible <b>Contractor is responsible for implementing control strategies during harvesting.</b>		
5. Overhead hazards associated with dumps	<b>Refer to FCNSW operational safety standard OSS010.</b> Assess overhead hazard within two tree lengths of the dump. Assess risk, & if necessary remove hazard or relocate dump site. <b>Contractor is responsible for implementing control strategies during harvesting.</b>		
6. Dust from passing vehicles along dirt haulage routes	Restrict speed to minimise dust generation, slow down when passing vehicles. Turn on driving and hazard lights to increase visibility.		
7.			

- **All** visitors, contractors and employees **must** be fully **inducted** onto the worksite by the workplace supervisor e.g. the Principal Contractor or the Forestry Corporation supervisor. This must be recorded on the attached induction sheet.
- Relevant **Safe Work Procedures** are available and understood for the type of work to be undertaken.
- A **Risk and Hazard Assessment Worksheet** must be completed if site specific hazards are identified that are not covered by a **Safe Work Procedure**. The top (pink sheet) is to be attached to this site safety plan.
- Operators in training must be supervised by the site supervisor.
- All appropriate Personal Protective Equipment (PPE) must be worn on the worksite at all times



# MEDICAL EMERGENCY EVACUATION PLAN

Nearest reliable mobile phone reception (describe location)			
Next G Network: Good	GSM: N/A		Satellite: N/A
GPS Lat/Long: 35° 35' 21.09" S / 150° 13' 49.28" E	MGA: 249059E / 6058083N	Datum: GDA 94	Zone: 56
Location description: Intersection of Joes Nose Rd & Burma Rd			
Emergency meeting point for ambulance / police (refer to attached locality map)			
GPS Lat/Long: 35° 35' 47" S / 150° 15' 17" E	MGA: 251296E 6057326N	Datum: GDA 94	Zone: 56
Location description: Intersection of Tomboye Road and Princes Highway.			
Helicopter landing place (refer to attached locality map)			
GPS Lat/Long: 35° 38' 56" S    150° 14' 23" E			
Location description: Junction of Durras Road (South) and Princes Highway, opposite the service station.			
Procedures to obtain ambulance assistance			
<ol style="list-style-type: none"> <li>1. Dial 000</li> <li>2. If there is no mobile coverage, dial 112 (which will work on any mobile phone system).</li> <li>3. If no response on 112: <ul style="list-style-type: none"> <li>• use a radio link (TARA, be discrete with personal information)</li> <li>• move to an area with mobile coverage</li> <li>• find a landline</li> <li>• use another network (e.g. a contractor's VHF radio)</li> </ul> </li> </ol>		<p>Contact nearest Forestry Corporation office on:</p> <p>Channel:     236</p> <p>Telephone: 1300 880 548</p> <p>Give details of the situation and ask for a 000 call to be placed.</p>	
000 operator question:		Response:	
1. Police, Fire, Ambulance?		NSW Ambulance,	
2. Suburb?		State Forest name:             Boyne Nearest town or locality:       Benandarah Nearest ambulance station:   Batemans Bay	
3. Address?		Joes Nose Road	
4. Nearest road junction/cross street?		Joes Nose and Burma Road	
5. Local government area?		Eurobodalla	
6. Nature of the problem?		Describe the accident, number and condition of casualties	
7. Where is the accident?		Refer to safety meeting point above	
Directions to navigate from nearest ambulance station to the emergency meeting point. From Batemans Bay head north on the Princes Highway travel approximately 16km to intersection with Tomboye Road (on left).			
8. 4WD ambulance required   No		CB radio channel to use:	
9. Injuries?		Give detailed information about the condition of the casualty (do not mention names over radio system)	
10. Your name and call back number:			



### Silviculture and Harvesting Prescriptions

Year	1947	1968	1987	2000	2002	2009
TSI	X	X	√	X	X	X
HR Burning	X	X	X	√	X	√
Wildfires	√	√	X	X	√	X
Logging m <sup>3</sup>	X	X	7484	X	X	X

0 - applies, X – not applicable

Compartment	Resource Unit	No. of Sweeps	BA Average (m <sup>2</sup> /ha)	BA Range (m <sup>2</sup> /ha)
95	1	15	25	14-32
95	2	0	NA – excluded from harvesting	NA – excluded from harvesting

### Silvicultural Planning

#### Single Tree Selection

The compartment (NHA 226 Ha) is divided into two resource units:

Resource unit 1 (222Ha) is a predominantly mature forest that will be harvested under a heavy single tree selection (STS) regime. The objective within resource unit 1 is to remove 45% of the basal area to create canopy openings for regeneration, whilst retaining and minimising damage to young regenerating stems, seed trees, habitat and recruitment trees.

Resource unit 2 (4Ha) is a predominantly mature forest that will be excluded from harvesting due to viability and access constraints.

It is envisaged that the next harvesting operation in this compartment would be in approximately 30 years time.

**Single Tree Selection (STS) must remove no more than 45% of the basal area (BA), while retaining a minimum BA of 10m<sup>2</sup> per hectare within the tract.**

Resource Unit (Refer to HPOM for detail)	Species Composition	Stand Structure and Condition
1	Overstorey dominated by spotted gum ( <i>Corymbia maculata</i> ) with scattered grey ironbark ( <i>Eucalyptus paniculata</i> ), blackbutt ( <i>E. pilularis</i> ), white stringybark ( <i>E. globoidea</i> ), Yetchuk ( <i>E. consideriana</i> ), and bloodwood ( <i>C. gummifera</i> )	Area logged in 1987 is a predominantly mature age forest (BA range 14-32m <sup>2</sup> /ha). Stand has reached endpoint with limited further growth potential. Majority of this area contains sufficient retained volume from the 1987 harvesting event to warrant another viable operation. Occasional pockets of thick regeneration occur on disturbed areas such as old road and dumps.

Resource Unit (Refer to HPOM for detail)	Species Composition	Stand Structure and Condition
2	Overstorey dominated by bloodwood ( <i>C. gummifera</i> ), white stringybark ( <i>E. globoidea</i> ), Yetchuk ( <i>E. consideriana</i> ) and Sydney peppermint ( <i>E. piperita</i> ) with scattered areas of Sydney blue gum ( <i>E. saligna</i> )	Area logged in 1987 is a predominantly mature age forest in average to poor condition. Few areas of regrowth or potential 'growers'. Limited commercial value due to access issues, low sawlog yields and species mix. Exclude from harvest.

### Harvesting Prescription

Resource Unit (Refer to HPOM for detail)	% of Harvest Area	Silvicultural Treatment
1	100	<p>STS heavy:</p> <ul style="list-style-type: none"> <li>Retain and protect from harvesting/fire damage: <ul style="list-style-type: none"> <li>-poles/advanced growth (&lt;40cm DBHOB) with good form and vigour,</li> <li>-habitat and recruitment trees as per TSL,</li> </ul> </li> <li>Retained trees should be evenly spaced throughout the resource unit.</li> <li>Ensure no more than 45% of the BA within the resource unit is removed, while retaining a minimum BA of 10m<sup>2</sup> per hectare within the tract.</li> <li>All other products should be removed markets permitting. If this objective cannot be achieved the following options should be considered: <ul style="list-style-type: none"> <li>-reject tree felling (HC must first obtain approval from HS),</li> <li>-defer harvesting until ideal market conditions prevail,</li> <li>-consider harvesting under a light or medium STS regime</li> </ul> </li> </ul>

Note: The area of each silvicultural treatment must be mapped and recorded in the Post logging information section of this plan.

### **Special Requirements**

#### **Noxious Weeds/Disease/Pests Hygiene Requirements**

Compartment 95 is within Eurobodalla Shire Council which is a designated red zone for Myrtle Rust. In order to prevent the spread of Myrtle Rust all harvesting machinery, equipment and vehicles heading west from Eurobodalla Shire Council or south into Victoria must be inspected for vegetation containing Myrtle Rust. If present, the vegetation must be removed from the harvesting machinery, equipment or vehicle prior to leaving the compartment.

### Road Works

Within the compartment boundary only roads that are shown on the HPOM as EPL standard or sealed may be used for haulage.

### Private Property

Private property occurs adjacent to the northern boundary of the compartment, as indicated on the HPOM. Private property owners have been notified of the scheduled harvesting and post-harvest burning. The table below lists neighbours who adjoin Compartment 95

Name	Lot/DP Number (s)	Postal Address	Contact number (& email if available)	Was harvest plan notification letter returned to sender?	Pre burn notification done?
	Lot 3 / DP 635327				
	Lot 3 / DP 712931				
	Lot 12 / DP 791483				

- No harvest disturbance is permitted on private property.
- Harvesting debris must not be left within five metres of the boundary fence lines.
- Any damage to fences must be repaired by the contractor.
- Access roads must be maintained free of debris and in a trafficable state.

### Occupation Permits

#### Apiary

6 apiary sites are located within the planning unit as detailed in the table below. Contact details are available from the Batemans Bay office.

Name	Site Number	Contact number	Pre burn notification complete?
	scbby 25.27		
	scbby 24.26 & scbby 24.25		
	scbby 25.26 & scbby 25.25		
	scbby 24.24		

- The HC must provide the apiary permittees with at least two weeks advance notice when bee boxes need to be removed or relocated.
- Permanent apiary set down sites are located on dump 26 (see HPOM), must be levelled and free of debris at the completion of logging.
- Permanent sites must not be ripped.

### **Underground Cables**

A dial before you dig request query of the compartment indicates that underground Telstra cables are present on the eastern side of the compartment. Dial before you dig and field markers (where located) have been used to indicate the approximate location of the cable on the HPOM. Prior to any harvesting or roading activity taking place in the vicinity of the cables, the HC should inspect the area for markers or other evidence of the cables and flag with marking tape.

When carrying out harvesting or road maintenance activities near cables, minimise ground disturbance across or along and increase depth of earth cover if required.

From time to time above ground infrastructure associated with the cables occurs. Where this infrastructure is detected, the FT should pass the location and details on to the burning supervisor who should consider if extra protection measures (e.g. rake hoe lines) are required.

Any damages to cables must be immediately reported to Telstra on 13 22 03.

### **Forest Management Zoning**

FMZ 3A Harvesting Excluded, FMZ 7 Non Forest and FMZ 4- General Management (normal harvesting prescriptions apply) occur within the compartment. Refer to HPOM for more detail.

**FMZ 3A** – Prescribed burning is only permitted in these areas where fire does not conflict with underlying protection zones e.g. rainforest, cultural heritage etc. (Refer to cultural heritage flora and fauna sections of this plan and the standard harvest plan conditions for more detail).

**FMZ 7** – Prescribed burning is only permitted if fire does not conflict with the specific non-forest use of the site.

### **IFOA Required Approval of Forestry Activities**

Planning Supervisor approvals have been obtained for routine road maintenance and log haulage in FMZ 3A. No other crossings of these features are approved. Forestry Operations within the plan area must minimise impacts to the exclusion zones and meet the requirements of the EPL and General Exclusion Zones in section of this plan.

All areas of Rainforest require prior OEH approval and Stream Exclusion Zones require prior Planning Supervisor approval before forest harvesting related activities (e.g. road or snig track construction & reopening) can be undertaken. It is the responsibility of the HC to identify any exclusion areas which will need to be crossed during harvesting. The HC must then contact the Planner to obtain the necessary approval.



## Cultural Heritage

### Cultural Heritage –

All relevant representatives have been consulted &/or inspected Compartment 95.

## Flora and Fauna

### Species adequately covered by general prescriptions:

The following species have been recorded in or around the compartments and are adequately covered by the general prescriptions. No further protection measures are required for these species:

**Eastern Freetail-bat**, (*Mormopterus norfolkensis*), **Flame Robin** (*Petroica phoenicea*), **Gang-gang Cockatoo** (*Callocephalon fimbriatum*), **Glossy Black-Cockatoo** (*Calyptrorhynchus lathamii*), **Grey-headed Flying Fox** (*Pteropus poliocephalus*), **Little Lorikeet** (*Glossopsitta pusilla*), **White-footed Dunnart** (*Sminthopsis leucopus*)

### Tree Retention

Zone	Hollow bearing Trees/ha	Recruitment Trees /ha	Protection of Retained Trees	Dead Standing Trees (only if safe)	Significant Food Resource*
Regrowth	Up to 5	1 for every tree retained under 5.6d	0	0	0
TSL condition	5.6d	5.6e	5.6h	5.6f	5.6 g

0 - Condition applies

\*3 Glossy black cockatoo feed trees, Yellow Bellied Glider/Squirrel Glider sap feed trees, occur within compartment 95 at locations shown in the table below. Note all of these are within the excluded forest area.

Species	Feature	Zone	GDA Easting	GDA Northing	Comments
Glossy Black-Cockatoo	Feed tree	56	248901	6061032	
Glossy Black-Cockatoo	Feed tree	56	248827	6061014	
Glossy Black-Cockatoo	Feed tree	56	248858	6060978	

**General exclusion zones**

General exclusions as listed below are shown on the HPOM.

Feature/Condition	TSL cond'n	Occurs within Planning Unit
<b>Rainforest</b>	5.4	Has been assessed as a risk that Warm Temperate/Cool Temperate/Depauperate (Dry) may occur in the field. May require further investigation#.
<b>Riparian Protection Zones</b>	5.7	Yes
<b>Ridge &amp; Headwater Habitat</b>	5.8	Yes
<b>Wetlands</b>	5.9	Has been assessed & is unlikely to occur in the field. May require further investigation#.
<b>Heath and Scrub</b>	5.10	Has been assessed & is unlikely to occur in the field. May require further investigation#.
<b>Rocky Outcrops and Cliffs</b>	5.11	Has been assessed & is unlikely to occur in the field. May require further investigation#.
<b>Endangered Ecological Community</b>	NA	Has been assessed & is unlikely to occur in the field. May require further investigation#. <b>Harvesting, harvesting machinery and post harvest burning must be excluded from all areas of EEC.</b>

#FT/HC will continue to conduct on the ground mark-up & searches and report back to foresters/ecologists any features requiring further investigation.

**General Threatened Flora and Fauna Prescriptions**

Feature	Records in Cpt 95	Licence conditions under the TSC Act
Threatened Frog General Protection Measures	No	5.12
Bird Nest and Roost Site Protection	No	5.13
Tree Bat Roost Protection	No	5.14.1
Subterranean Roost Protection	No	5.14.2
Protection of flying-fox Camps	No	5.14.3
Burning	Net planned area	5.16
Ground Habitat Protection	Net planned area	5.17

### Species & Site-Specific Threatened Flora and Fauna Prescriptions

The following species have been recorded within or nearby the area and the associated prescriptions must be implemented:

Threatened species and habitat features within trigger distance	Records in Cpt 95	Licence conditions under the TSC Act or relevant Site-specific prescription
<b>Powerful Owl</b> <i>Ninox strenua</i> , <b>Masked Owl</b> <i>Tyto novaehollandiae</i> .	Yes	6.4 <i>Owl Landscape Exclusion Zones occur in compartment 95.</i>
<b>Yellow-bellied Glider</b> <i>Petaurus australis</i>	Yes	6.13

#### Fisheries Licence Conditions

There are no known records of threatened fish species or class 1 or 2 aquatic habitat relevant to this operation. The conditions of the fisheries licence are not triggered for this operation.

#### Soils and Water Protection

#### Refer to EPL Booklet & Standard Plan Conditions

#### Spatially Corrected LIC Drainage

Spatially corrected LIC drainage has been built using LiDAR derived drainage in compartment 95. Protection zones and filter strips have been rebuilt based on spatially correct LIC drainage and an additional median stream bed width included for each stream order. The FT is to mark all unmapped drainage lines and all first order stream protection zones. The contractor may use GPS to implement 2nd order and above protection zones and FMZ3A exclusions.

#### Site-specific EPL Conditions

Elements	Conditions
Unmapped Drainage Lines	EPL does not apply: refer to drainage feature protection below.
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	2
Dispersible Soils	No
Seasonality Harvesting Exclusions	No
Seasonality Burning Exclusions	No
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See Schedule 5 of EPL Booklet
Slope limits for harvesting	Refer to Schedule 4B.3 of EPL

### Drainage Feature Protection

Filter strips (EPL), Protection Zones (EPL), Operational Zones (EPL), Protection Zones -hard (TSL) and Protection Zones -soft (TSL) must be retained along all drainage lines, prescribed streams and watercourses within the net planned area of the compartments at minimum widths as stated in the Table below.

**Table 1: Minimum filter strip, protection zone and operational zone widths for mapped and unmapped drainage lines, prescribed streams and watercourses in hardwood forests in Inherent Hazard Level 1 & 2 (metres – measured along the ground surface)**

Stream Order	EPL Filter Strip TSL Protection (hard)	EPL Protection Zone TSL Protection* (soft)	EPL Operational Zone	Drainage Feature Protection: FT/HC marking instruction
Unmapped	N/A#	N/A#	N/A#	5m (Red)
1st order	5	5	10	10m (Pink)
2nd order	5	15	10	20m (Pink)
3 <sup>rd</sup> order	5	25	10	30m (Pink)
4 <sup>th</sup> order +	5	45	10	50m (Pink)

# for this operation FCNSW has chosen to harvest this area without EPL coverage. All EPL conditions continue to apply **except** for the rules applying to filter strips, protection zones and operational zones of the **unmapped drainage lines**. Refer to Best Management Practices for unmapped drainage lines in the standard conditions. Harvesting of unmapped drainage lines, MUST NOT occur in unmapped drainage lines which are running or holding water. It is the responsibility of the HC to inspect each unmapped drainage line prior to harvesting it, to determine if it is running or holding water.

### Log Dump Location

26 log dump sites are indicated on the HPOM. Field location of log dumps must utilise the most level site available consistent with the location indicated on the HPOM. Inherent hazard level 2 Conditions 26, 27, 28, 30, 31 and 33 of Schedule 4 of the EPL must apply.

### Mass Movement

Compartment 95 is not in an area identified as having a potential for mass movement. No specific prescriptions relating to mass movement/snigging are required.

### Suitability of existing log dams and gully stuffers

There are no known log dams or gully stuffers on snig track or road crossings in the compartments.

Condition 47 of Schedule 4 of the EPL must apply.



### Post Log Burning Control Lines

To assist the post log burning crews prevent fire from entering areas to be excluded from burning, control line construction must be undertaken concurrently with harvesting. Where possible snig tracks patterns should be designed to double as control lines. Control lines must be located as close as reasonably practical to the feature to be excluded from burning. The HC must assess the areas harvested, snig track network and existing roads to determine if there are sufficient control lines in place and where required instruct the contractor to construct additional mineral earth control lines to supplement these. The HC must record instances where it was not possible to construct a suitable control line close to the feature to be excluded and recommend harvest areas which should be excluded from the post log burning operation due to inadequate control lines.

The table below lists critical boundaries in compartment 95. Where possible design snig track patterns so they double as bare earth containment lines as close as possible to these boundaries. Where this is not practical, it is NOT necessary to construct a bare earth break along boundary of the exclusion; the practice of no direct ignition will be followed.

Critical boundary	Completed Yes /No
FMZ3A	
Rainforest Boundary	
Ridge and Headwater habitat	

The table below lists critical boundaries in compartment 95. Where possible design snig track patterns so they double as bare earth containment lines as close as possible to these boundaries. Where this is not practical, HC must instruct contractor to construct a bare earth break (drained as per EPL snig track conditions) as close as possible to the critical boundary.

Critical boundary	Completed Yes /No
Private Property	

**Pre-Operational Briefing**

I acknowledge that I have received a copy of the Harvesting Plan for Compartment 95 in Boyne 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 HS or his/her delegate.

Position	Name	Signature	Date

**Post Harvest Mapping Features Confirmation Checklist**

Feature	Planning Updates	Reason (Error/New)	GIS update tool completed?	Harvesting Updates	Comments
Soil Regolith	No				
Mapped Drainage	No				
Rainforest	No				
Rocky outcrops	No				
Wetlands	No				
Cultural Heritage	No				
Existing Roads	Yes	New	No		
New Roads	No				
Heath	No				
Powerlines etc	No				
Other					

HC Feature Usage Record	
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### Dates of commencement and cessation of logging

Date of commencement of logging: \_\_\_\_\_

Date of cessation of logging: \_\_\_\_\_

## DUMP USAGE RECORD

- Record the commencement and completion of harvesting at each dump
  - Record the occurrence of temporary stopping of harvesting at each dump.

[illegible]

\*At completion of snig track/dump, track drainage must be completed within **2** days unless soil is saturated.

\*At temporary cessation of snig track use, track drainage must be completed within **5** days unless soil is saturated.

Situations where drainage could not be completed due to saturated soils must be recorded in HC/FT Notes.

HC/FT Notes
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[illegible]



<b>HC/FT Notes (continued)</b>
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[illegible]

HC/FT Notes (continued)
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[illegible]

HC/FT Notes (continued)
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[illegible]

HC/FT Notes (continued)
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[illegible]

**Clearance Certificate**

**COMPARTMENT: 95, Boyne STATE FOREST**

To .....HC

I request approval for me to move my logging crew and all associated machinery from the above-mentioned area to the next compartment in accordance with Section 3.5 of the Forest Practices Code.

I certify that:

- (a) all permanent roads, trails and mitre drains have been cleared of harvesting debris;
- (b) butt damage to retained trees has been kept to acceptable limits;
- (c) all trees marked for removal have been felled;
- (d) utilisation limits have been satisfactorily met;
- (e) stump heights conform to requirements;
- (f) all hanging trees have been felled and brought down;
- (g) all log dumpsites have been satisfactorily restored as required;
- (h) harvesting debris is not accumulated around retained trees;
- (i) all accumulated litter has been disposed of properly;
- (j) all filter and buffer strip requirements have been complied with;
- (k) all snig track, extraction track and temporary logging road drainage has been installed satisfactorily and other required rehabilitation work has been completed;
- (l) all necessary repairs to damaged roads, signs, fences and other structures have been carried out.
- (m) **\_\_\_\_\_ (insert quantity) rubber flaps have been recovered in a satisfactory condition and reported to Roding Coordinator for collection.**
- (n) all machinery, equipment and vehicles have been checked and are free of noxious weeds, diseases and pests.

I believe that I have met all my obligations under the conditions of the Contractors Licence, the EPL and TSL which apply to the compartment just completed, as stated in this Harvesting Plan.

Signature.....Name.....Date .....  
Contractor

As a result of inspections of the logging operations made in accordance with this Harvesting Plan, I am satisfied that, to the best of my knowledge, the contractor responsible for this harvesting operation has satisfactorily completed all work and approval is given for her/him to remove her/his machinery and equipment and leave the area/commence operations in another compartment.

This clearance does not release the contractor from any obligation to undertake any remedial work if subsequent deficiencies are shown to result from inadequate practices during the harvesting operation, which are found during any inspections of the area made within 12 months of the date of this post-harvesting inspection.

Last inspection was made on .....(Date)

Signed .....(Date).....  
HC

### Post Logging Information

Record any circumstances of significance relating to the harvesting of this compartment. Please draw or include any annotations on the attached operation scale map.

#### Summary of silvicultural treatment

Treatment type	Area (ha) subject to treatment (HC estimate)	Number of AGS gaps created	Comments
Australian Group Selection			
Single Tree Selection			
Thinning/Spacing			
Post Harvest Silviculture			

**Actual area harvested (record on attached HPOM)** Give reasons for harvestable areas that were not harvested (e.g. Too steep, defective timber). Make reference to map.

#### Post Logging Basal Area sweeps

Sample point	Eastings GDA 94 Zone 55	Northings GDA 94 Zone 55	Pre-harvest (B) BA m <sup>2</sup> /ha	Post-harvest(A) BA m <sup>2</sup> /ha	Difference (D)	% BA removed	Comments
					(B – A) m <sup>2</sup> /ha	D/B x100	
1	247722	247722	24				
2	248028	248028	32				
3	248017	248017	32				
4	248026	248026	16				
5	248282	248282	16				
6	248534	248534	26				
7	248754	248754	14				
8	249131	249131	22				
9	248947	248947	32				
10	248950	248950	30				
11	248856	248856	20				
12	249015	249015	28				
13	248546	248546	28				
14	249300	249300	26				
15	248934	248934	32				
Average			25				

Comply with maximum STS BA removal of 45% or Thinning BA removal of 60% Y/N

#### Possible next cut (tick appropriate boxes)

Main product type	Anticipated volume		
	H	M	L
Girders			
Veneer			
Poles/piles			
Quota			
Smalls/Thinnings			
Salvage			
Pulpwood/chipwood			

Time to next harvest	
0 to 5 years	
5 to 10 years	
10 to 20 years	
20 to 30 years	
30 plus years	

<b>ATTACHMENT 2</b>	<b>ROADING PLAN</b>
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**Summary of Roding Requirements**

Feature	Details	Works Required
Existing roads to be used.	8400m (9)	Yes
New roads to be constructed	0m	NA
Existing crossings used	0	NA
New crossings to be constructed	0	NA
Length of road >10°	0m	NA
Borrow pits and gravel pits	0	NA
Mass movement prescriptions apply	No	NA
Dispersible soil conditions apply	No	NA
Seasonality provisions apply	No	NA

**Note:** Maintenance works not completed by Roding Coordinator must be recorded and passed onto the HC for completion during harvesting and documentation.

The start and finish dates of all maintenance and construction must be recorded on the individual roading sheets along with other relevant changes or explanations.

All rubber flaps on minor forest roads must be removed and replaced with trafficable rollover banks on completion of operation.



**CHECKLIST OF WORKS REQUIRED ON ROADS & CROSSINGS**

Road Name	Works Required	Date Started	Date finished	Signature
Joes Nose Road (5682m)	<p>Grade &amp; reshape road pavement;</p> <p>Clearing as required</p> <p>Maintain existing drainage structures (opening of mitres / spoon drains, cleaning of pipes);</p> <p>Install new drainage as required and to meet EPL standard;</p> <p>Sites where drainage structures exceed road drainage spacing are shown on attached roading map.</p> <p><b>RC/HC Comments:</b></p>			
Cpt 95/1 Road (836m)	<p>Reshape road &amp; maintain existing drainage structures, install new drainage as required and to meet EPL standard;</p> <p>Spacing of drainage on this road was not assessed by the planner;</p> <p><b>RC/HC Comments:</b></p>			
Cpt 95/2 Road (109m)	<p>Reshape road &amp; maintain existing drainage structures, install new drainage as required and to meet EPL standard;</p> <p>Spacing of drainage on this road was not assessed by the planner;</p> <p><b>RC/HC Comments:</b></p>			

Road Name	Works Required	Date Started	Date finished	Signature
Cpt 95/3 Road (722m)	Reshape road & maintain existing drainage structures, install new drainage as required and to meet EPL standard;  Spacing of drainage on this road was not assessed by the planner;  <b>RC/HC Comments:</b>			
Cpt 95/4 Road (439m)	Reshape road & maintain existing drainage structures, install new drainage as required and to meet EPL standard;  Spacing of drainage on this road was not assessed by the planner;  <b>RC/HC Comments:</b>			
Cpt 95/5 Road (81m)	Reshape road & maintain existing drainage structures, install new drainage as required and to meet EPL standard;  Spacing of drainage on this road was not assessed by the planner;  <b>RC/HC Comments:</b>			
Cpt 95/7 Road (325m)	Reshape road & maintain existing drainage structures, install new drainage as required and to meet EPL standard;  Spacing of drainage on this road was not assessed by the planner;  <b>RC/HC Comments:</b>			
Cpt 95/10 Road (130m)	Reshape road & maintain existing drainage structures, install new drainage as required and to meet EPL standard;  Spacing of drainage on this road was not assessed by the planner;  <b>RC/HC Comments:</b>			

Road Name	Works Required	Date Started	Date finished	Signature
Cpt 95/11 Road (76m)	<p>Reshape road &amp; maintain existing drainage structures, install new drainage as required and to meet EPL standard;</p> <p>Spacing of drainage on this road was not assessed by the planner;</p> <p><b>RC/HC Comments:</b></p>			

Roading Map  
Compartment: 95  
Boyne State Forest No. 832  
Southern IFOA - South Coast  
Map Sheet: Currowan 8926-4N



Legend

FLORA AND FAUNA

- Yellow-bellied Glider (Heard)
- Powerful Owl
- Masked Owl
- Glossy Black-Cockatoo (Feed Tree)
- Gang-gang Cockatoo
- Flame Robin
- Swift Parrot
- Little Lorikeet
- Grey-headed Flying-fox
- White-footed Dunnart

UTILITIES

- Underground Cable (Indicative Location Only)
- Powerline

BOUNDARIES

- State Forest Boundary
- Compartment Boundary
- Proposed Control Line

ROADS

- Major Forest
- Minor Forest
- EPL Standard Existing (Major)
- EPL Standard Existing (Minor)

DRAINAGE

- Mapped LIC Drainage (LiDAR corrected)

HARVEST AREA

- RU1 - STS Heavy (222 Ha)

NON HARVEST AREA

- Harvesting Protection (FMZ 3A)
- Non Forest Use (FMZ 7)
- Ridge & Headwater Habitat (40m total width)
- Probable Rainforest & Exclusion Zone (20m)
- Owl Landscape
- High Conservation Value Old Growth
- Slopes >30 (IHL 4)
- RU2 - Excluded Forest (4 Ha)

TENURE

- Private Property

DUMPS & CROSSINGS

- Temporary Dry Weather
- Permanent Bee Set Down

ROADING FEATURES

- New Rubber Flap
- New Pipe
- Existing Pipe
- New Mitre Drain
- Existing Mitre Drain

Scale: 1:15,000

Contour Interval 10m

